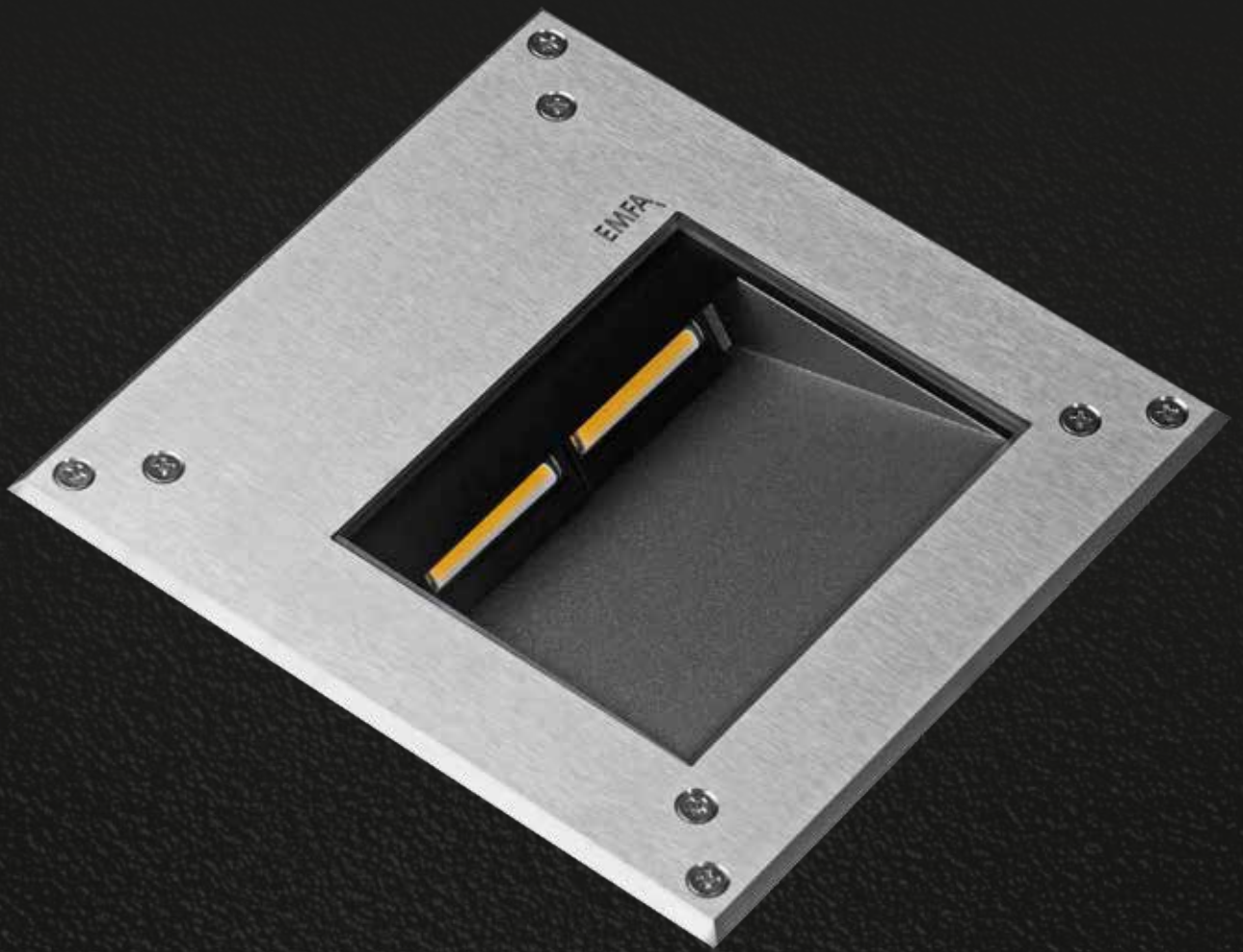


 Drive Over





EMFA

MILET ANI RECESSED DRIVE OVER FIXTURES

Load 8 kN | Class I IP67 IK10

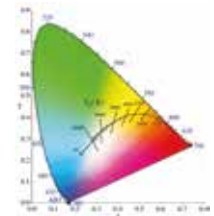
EMFA's Ani step mounted series is specially designed to deliver low-glare lighting to facades, columns, monuments, and trees with minimal installation depth and narrow trim. The fixture is made of a combination of 316L stainless steel and die cast aluminium. The tilted design reduces the glare of the LED's. The Linear LEDs with special lenses gives excellent wallwashing effect. An anti-slip glass is available upon request.

- Cover**
316L Stainless steel
- Body**
Die cast aluminium
- Gaskets**
Silicone
- Diffusers**
8 mm Tempered Glass
- Screws**
316L Stainless Steel

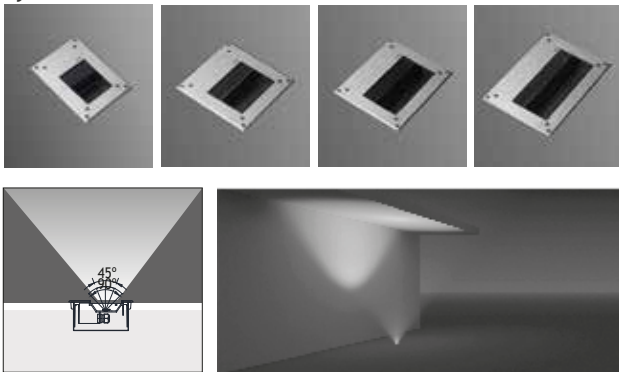


“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



Symmetrical

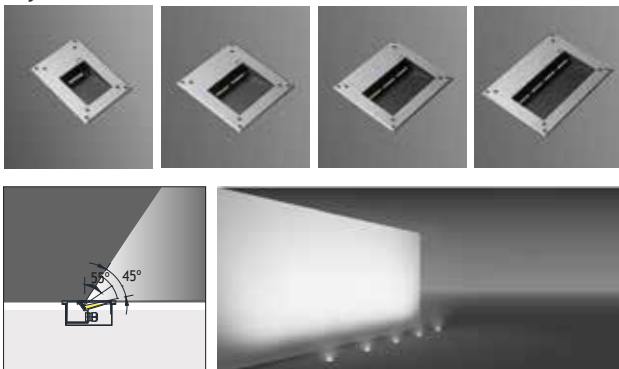


Galvanized Recessing Box

LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Asymmetrical



Asym. Glass



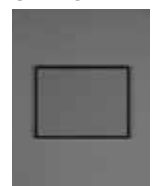
Trenched Glass



Milky Glass



Clear Glass

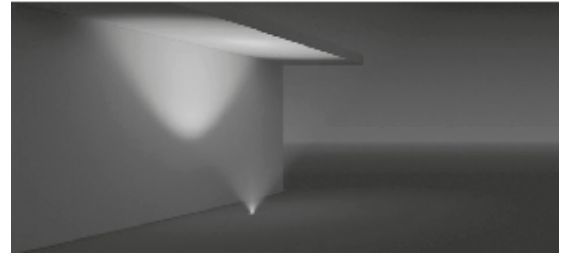
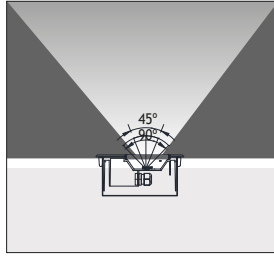


ANI RECESSED DRIVE OVER FIXTURES

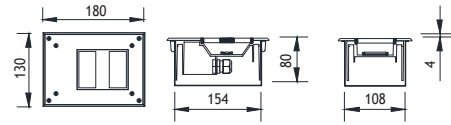
Load 8 kN | Class I IP67 IK10

Symmetrical

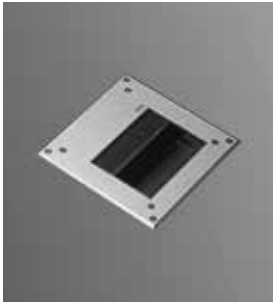
- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 8mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : >80
- L.O.R %** : %70



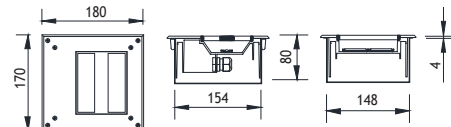
ANI 1			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
6W	450001	3000 K	600 lm	850 lm
12W	450011	3000 K	1020 lm	1460 lm
6W	450002	4000 K	690 lm	977 lm
12W	450012	4000 K	1173 lm	1679 lm



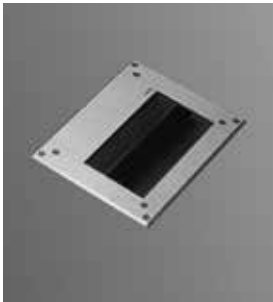
Galvanized Recessing Box



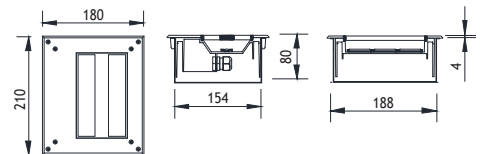
ANI 2			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
12W	450101	3000 K	1020 lm	1460 lm
24W	450111	3000 K	1780 lm	2550 lm
12W	450102	4000 K	1173 lm	1679 lm
24W	450112	4000 K	2047 lm	2932 lm



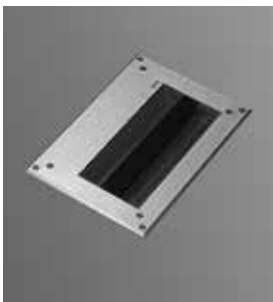
Galvanized Recessing Box



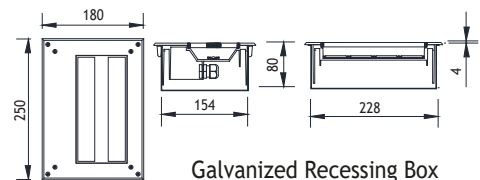
ANI 3			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
18W	450201	3000 K	1200 lm	1700 lm
36W	450211	3000 K	2300 lm	3300 lm
18W	450202	4000 K	1380 lm	1955 lm
36W	450212	4000 K	2645 lm	2932 lm



Galvanized Recessing Box



ANI 4			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
24W	450301	3000 K	1780 lm	2550 lm
48W	450311	3000 K	3080 lm	4300 lm
24W	450302	4000 K	2047 lm	2932 lm
48W	450312	4000 K	3542 lm	5060 lm



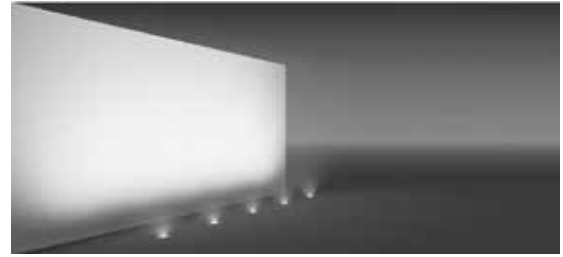
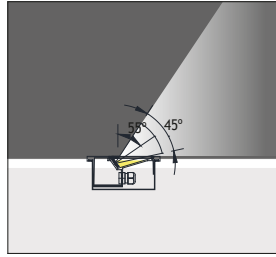
Galvanized Recessing Box

ANI RECESSED DRIVE OVER FIXTURES

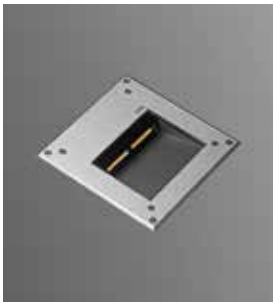
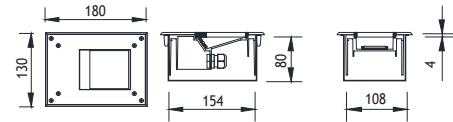
Load 8 kN | Class I IP67 IK10

Asymmetrical

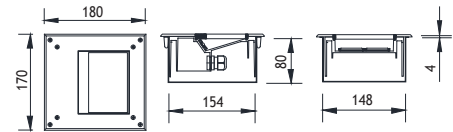
- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 8mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : 80
- L.O.R %** : %70



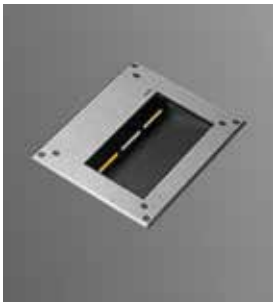
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	450501	3000 K	600 lm	850 lm
12W	450511	3000 K	1020 lm	1460 lm
6W	450502	4000 K	690 lm	977 lm
12W	450512	4000 K	1173 lm	1679 lm



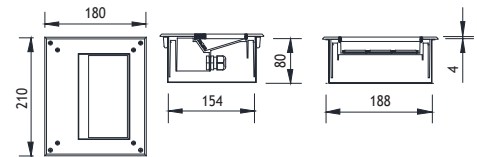
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
12W	450601	3000 K	1020 lm	1460 lm
24W	450611	3000 K	1780 lm	2550 lm
12W	450602	4000 K	1173 lm	1679 lm
24W	450612	4000 K	2047 lm	2932 lm



Galvanized Recessing Box



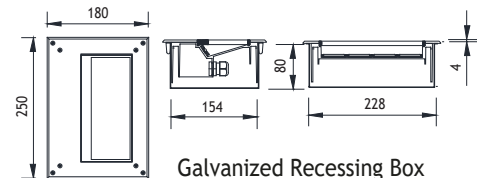
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
18W	450701	3000 K	1200 lm	1700 lm
36W	450711	3000 K	2300 lm	3300 lm
18W	450702	4000 K	1380 lm	1955 lm
36W	450712	4000 K	2645 lm	2932 lm



Galvanized Recessing Box



Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	450801	3000 K	1780 lm	2550 lm
48W	450811	3000 K	3080 lm	4300 lm
24W	450802	4000 K	2047 lm	2932 lm
48W	450812	4000 K	3542 lm	5060 lm



Galvanized Recessing Box

KNIDOS RECESSED DRIVE OVER FIXTURES

Load 20 kN | Class I IP67 IK10

EMFA's Knidos series consists of a range of LED, metal halide, and fluorescent sources to deliver the desired light effect to facades, columns, monuments and trees. The fixture is made of a combination of 316L stainless steel and glass reinforced polyester, which makes it completely resistant to corrosion. The sturdy fixture allows loads up to 20kN and IK 10. The LEDs used come in 3 different tones of white, as well as blue, red, green, and amber. An anti-slip glass is available upon request.

Adjustable Asymmetrical LEDs

In this series EMFA is introducing its first adjustable asymmetric LED unit. The LEDs can be internally adjusted up to 40 degree to give the desired light output to facades, columns, monuments, and trees without losing light to the sky. The Knidos is large enough, and has enough surface area so that at an ambient temperature of 50° C, 9 LEDs can be operated at 350 mA (9W).

Cover

316L Stainless steel

Body

Glass reinforced polyester

Gaskets

Silicone

Diffusers

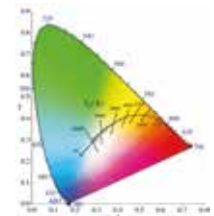
12 mm Tempered Glass

Screws

316L Stainless Steel

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

Only highest quality LEDs such as Cree and Seoul Semiconductor are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2014. At 2700K, 3300K, and 4500K LED lumen output per led is 75lm; at 6000K the lumen output per led is 115lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

Accessories:



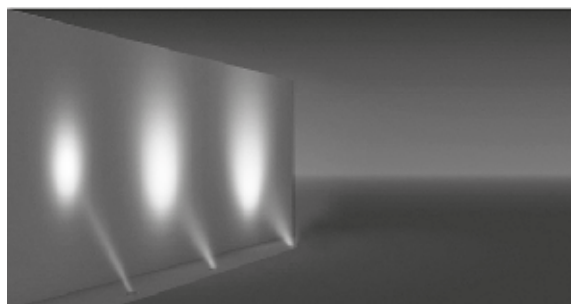
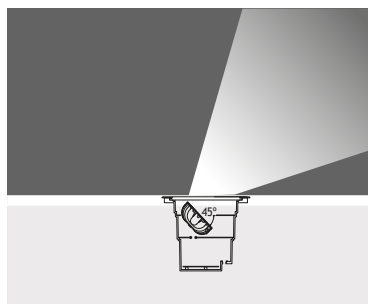
Anti-slip Glass

Please contact for this option.

KNIDOS RECESSED DRIVE OVER FIXTURES

Load 20 kN | Class I IP67 IK10

ADJUSTABLE LED FIXTURES



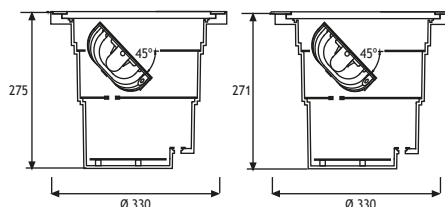
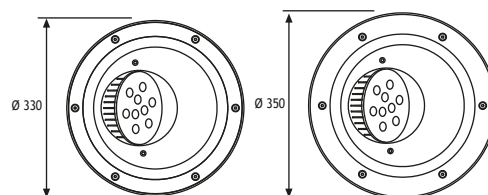
Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : 12 mm Clear Glass (Frosted Glass on request)

LED power
9 x 350 mA (9 W)

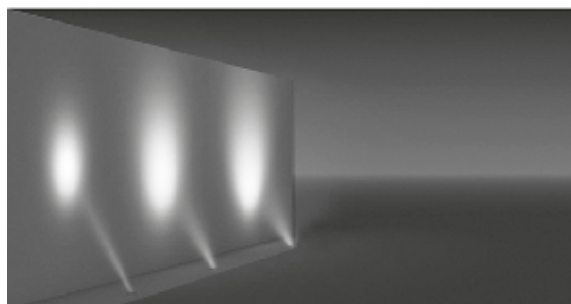
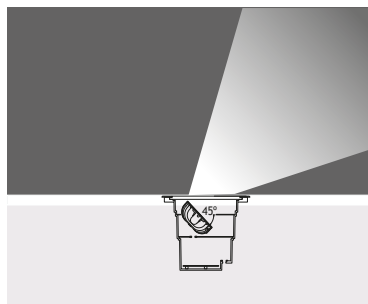
		Total Lighting Output	Flush Mounted Code No	Step Mounted Code No
☀ Warm White	3000 K	765 lm	258001	258011
☁ Natural White	4500 K	765 lm	258002	258012
☀ Cool White	6000 K	918 lm	258003	258013
🌊 Blue			258004	258014
🔴 Red			258005	258015
🟡 Amber			258006	258016
🟢 Green			258007	258017



Flush Mounted

Step Mounted

ADJUSTABLE SPOTLIGHTER



Lampholder : Gx8.5

Reflector : -

Diffuser : Clear Glass

Temp : 102°C

Gear : Electronic

Lampholder : Gx8.5

Reflector : -

Diffuser : Clear Glass

Temp : 102°C

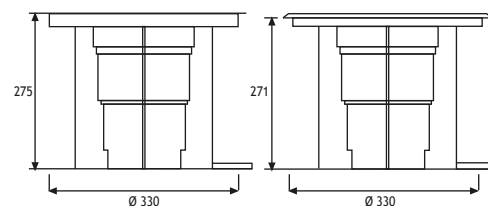
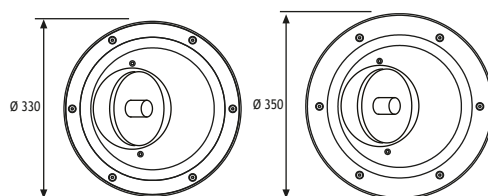
Gear : Electronic

METAL HALIDE CDMR-111 35W
10° or 40°

	Code No
Flush Mounted	254301
Step Mounted	254311

METAL HALIDE CDMR-111 70W
10° or 40°

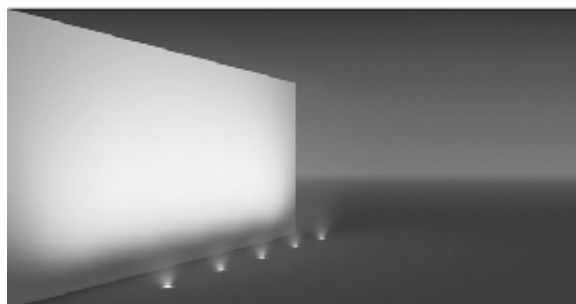
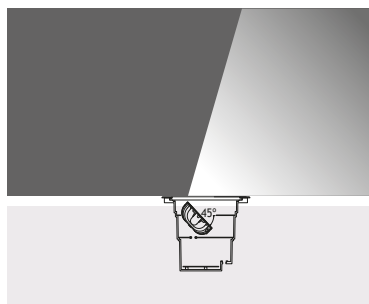
	Code No
Flush Mounted	254401
Step Mounted	254411



Flush Mounted

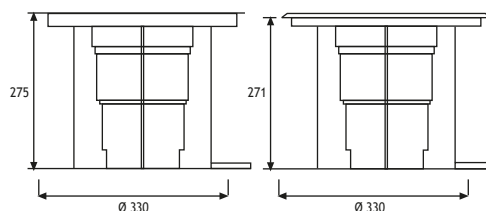
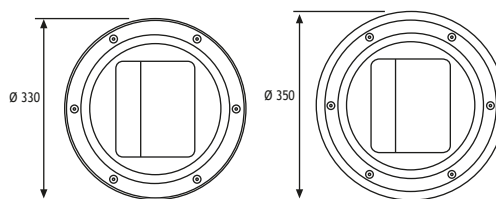
Step Mounted

WALL WASHER



Lampholder : Rx 7s
Reflector : Asymmetric 50°
Diffuser : Clear Glass
Temp : 105°C

Lampholder : Rx 7s-24
Reflector : Asymmetric 50°
Diffuser : Clear Glass
Temp : 176°C



Flush Mounted

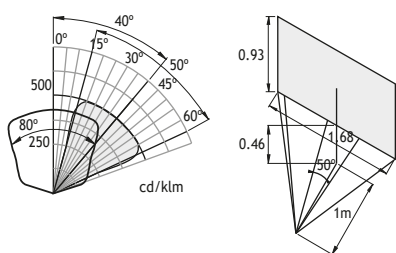
Step Mounted

METAL HALIDE 70W

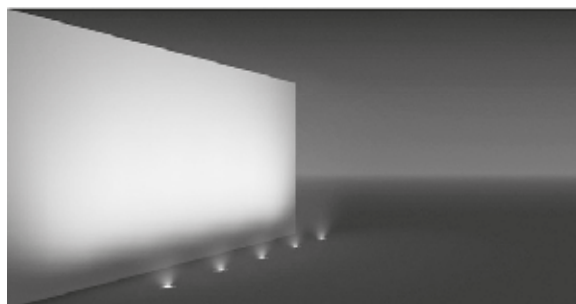
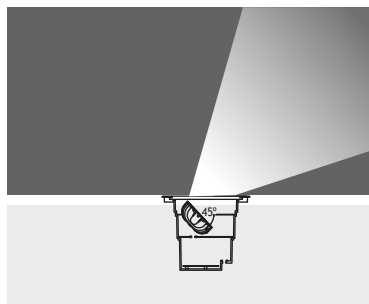
Code No
Flush Mounted 251101
Step Mounted 251201

METAL HALIDE 150W

Code No
Flush Mounted 251111
Step Mounted 251211

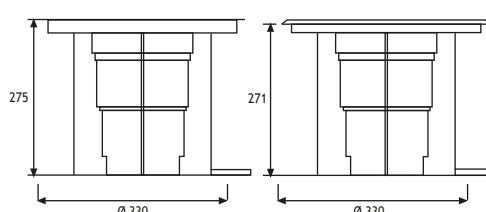
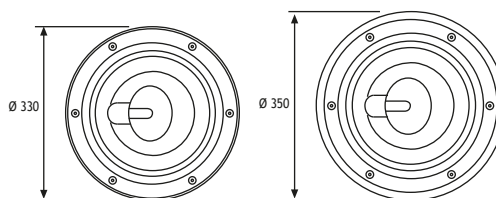


ADJUSTABLE SPOTLIGHTER



Lampholder : G12 Adjustable ± 35°
Reflector : 30°
Diffuser : Clear Glass
Temp : 102°C

Lampholder : G12 Adjustable ± 35°
Reflector : 30°
Diffuser : Clear Glass
Temp : 173°C



Flush Mounted

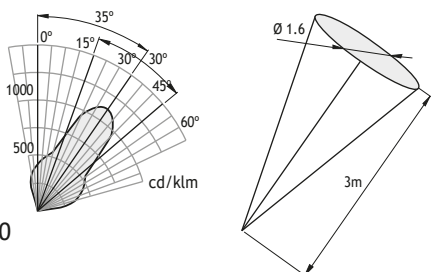
Step Mounted

METAL HALIDE 70W

Code No
Flush Mounted 254101
Step Mounted 254201

METAL HALIDE 150W

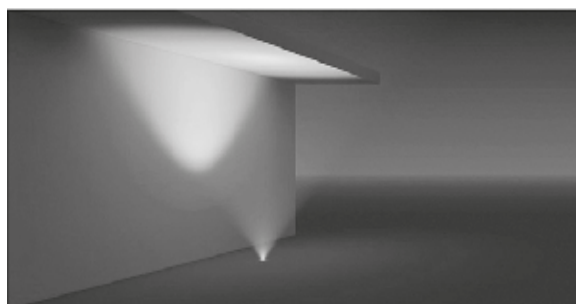
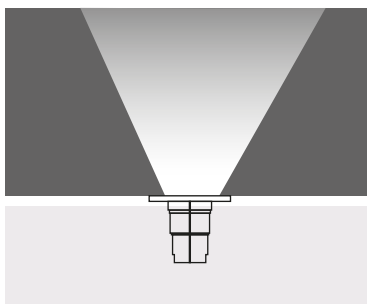
Code No
Flush Mounted 254111
Step Mounted 254211



KNIDOS RECESSED DRIVE OVER FIXTURES

Load 20 kN | Class I IP67 IK10

SYMMETRICAL UPLIGHTER WITH LOUVRE

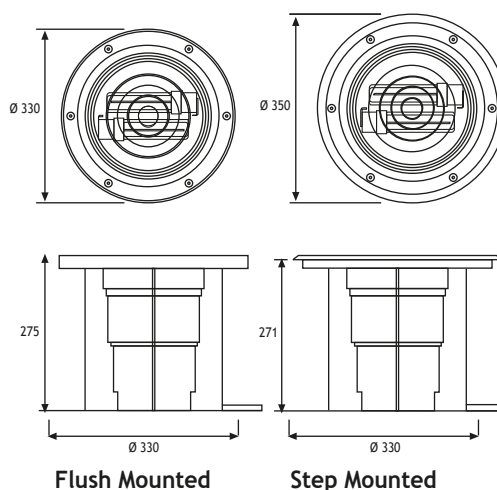
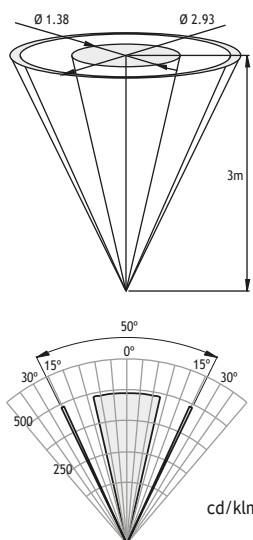


Lampholder : G x 24 q4
 Reflector : Symmetric 50°
 Diffuser : Clear Glass
 Temp : 98°C

COMPACT FLUO. 2 x 42W

Flush Mounted
 Step Mounted

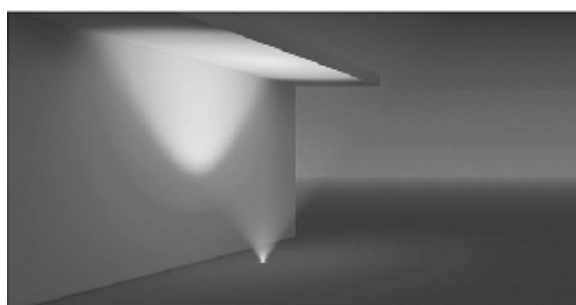
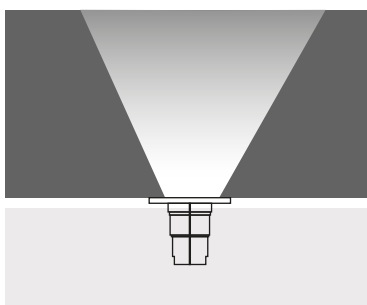
Code No
 255101
 255201



Flush Mounted

Step Mounted

SYMMETRICAL WIDE BEAM UPLIGHTER

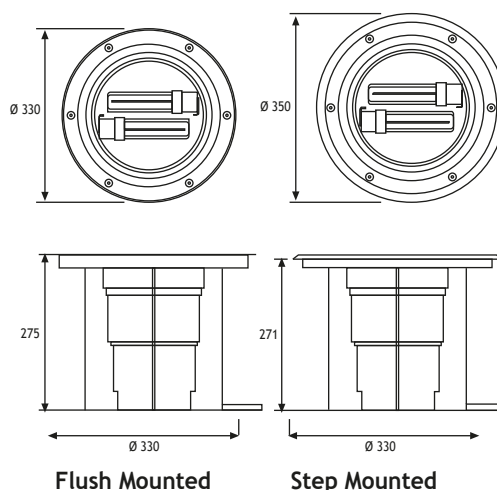
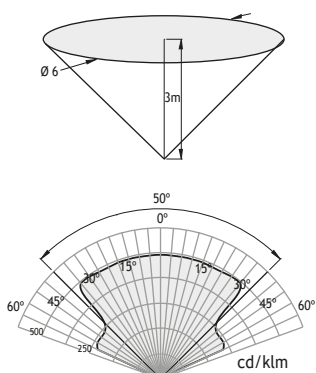


Lampholder : G x 24 q4
 Reflector : Symmetric 90°
 Diffuser : Clear Glass
 Temp : 98°C

COMPACT FLUO. 2 x 42W

Flush Mounted
 Step Mounted

Code No
 256101
 256201



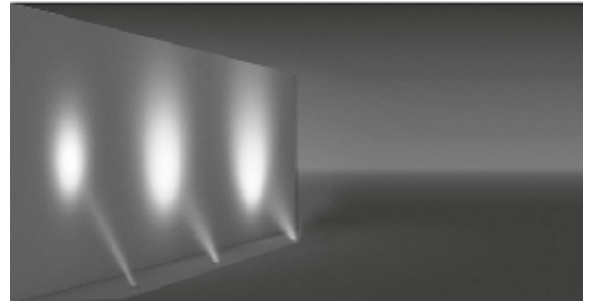
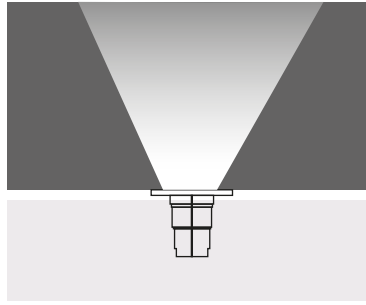
Flush Mounted

Step Mounted

KNIDOS RECESSED DRIVE OVER COOL GLASS FIXTURES

Load 20 kN | Class I IP67 IK10

ADJUSTABLE SPOTLIGHTER



- Lampholder : G12 Adjustable $\pm 15^\circ$
- Reflector : 30° or 42°
- Diffuser : Clear Glass
- Temp : 45°C

METAL HALIDE 35W

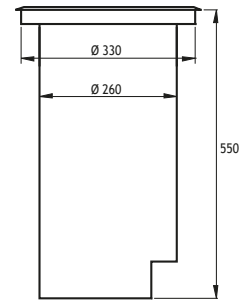
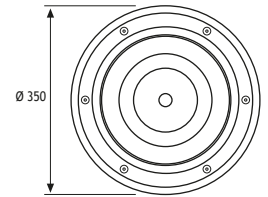
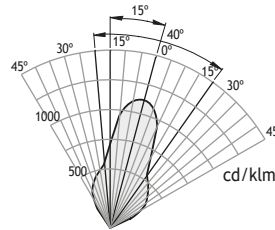
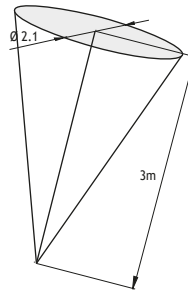
Step Mounted

Code No
257101

METAL HALIDE 70W

Step Mounted

Code No
257111



Cover

316L Stainless steel

Body

316L Stainless steel

Diffusers

12 mm Tempered Glass

Gaskets

Silicone

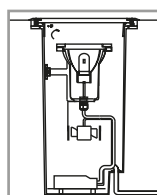
Screws

316L Stainless Steel

The Knidos Cool Glass Uplighter, completely made of 316L stainless steel has a maximum surface temperature of 55°C when using a 70W metal halide lamp and is ideal for areas where corrosive agents such as salt water or fertilizers would harm aluminium fixtures. A fan is installed in the long body of 550mm to circulate the air for cooling. The sturdy fixture allows loads up to 20kN and IK10. An anti-slip glass is available upon request.



Glass Temperature
Max 55°C



Special Vantilation System
for Cooling



SANTOS 4 RECESSED DRIVE OVER FIXTURES

Load 10 kN | Class I IP67 IK10

EMFA's Santos flush mounted series is specially designed to deliver low-glare lighting to facades, columns, monuments and trees with minimal installation depth and narrow trim. The fixture is made of a combination of 316L stainless steel and die cast aluminium. A shield above the lamp reduces the glare of the metal halide lamps. A mirror finish reflector allows for a narrow to wide beam light output. An anti-slip glass is available upon request.

Cover

316L Stainless steel

Body

Die cast aluminium or aluminium profile with die cast aluminium bottom and connection box

Gaskets

Silicone

Diffusers

8 mm Tempered Glass

Screws

316L Stainless steel

Glands

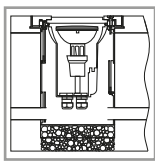
2 x PG 13.5

Recessing Tube

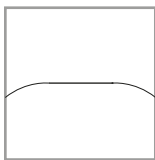
Polyamide 6



Mounting Feature

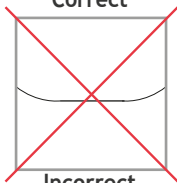


Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture. To make the fixture drive over, the recessing tube should be mounted flush to the ground.



Correct

When mounting the fixture on uneven surfaces, place so that the water does not accumulate on the surface of the fixture.



Incorrect



This fixture is also available with 2 screws instead of 4. For this option, please contact us.



Anti-slip Glass

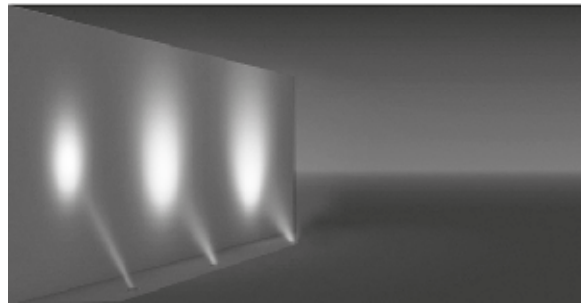
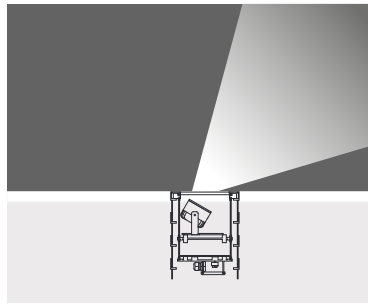
Please contact for this option.



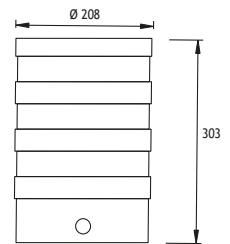
SANTOS 4

RECESSED DRIVE OVER FIXTURES Load 10 kN | Class I IP67 IK10

LED



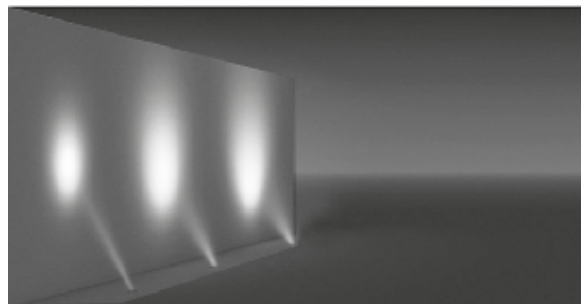
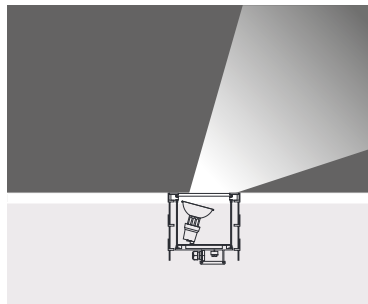
- Led : COB LED - Adjustable
- Reflector : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector
- Diffuser : Clear Glass
- Gear : 240V Non-Dimmable Driver (1-10V Dimmable Driver & DALI Driver available on request)
- Temp : 42°C
- Vertical Tilt : 30°



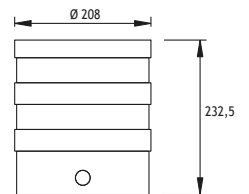
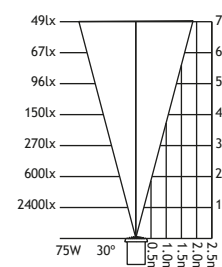
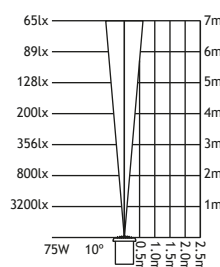
18 W - 500 mA		Total Lighting Output	Code No
☀ Warm White	3000 K	1224 lm	550201
☾ Natural White	4000 K	1469 lm	550202

	10°	23°	38°
2m	∅ 0,35m 0,01m ²	13759 lx	2m ∅ 0,81m 0,52m ²
4m	∅ 0,70m 0,38m ²	3440 lx	4m ∅ 1,63m 2,08m ²
6m	∅ 1,05m 0,87m ²	1529 lx	6m ∅ 2,44m 4,68m ²
8m	∅ 1,40m 1,54m ²	861 lx	8m ∅ 3,26m 8,33m ²
10m	∅ 1,75m 2,40m ²	550 lx	10m ∅ 4,07m 13,02m ²
			2m ∅ 1,38m 1,49m ²
			4m ∅ 2,76m 5,97m ²
			6m ∅ 4,13m 13,40m ²
			8m ∅ 5,51m 23,84m ²
			10m ∅ 6,89m 37,29m ²

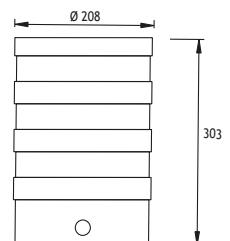
HALOGEN



- Lampholder : E27 Adjustable ±20°
 - Reflector : -
 - Diffuser : Clear Glass
 - Temp : 129°C
- HALOGEN PAR 30 75W
- Code No 550101



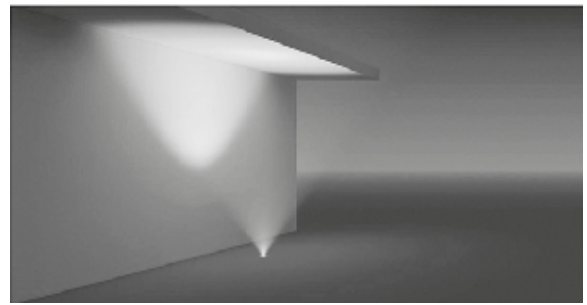
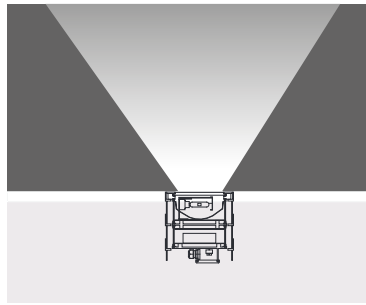
- Lampholder : G_53 Adjustable ±30°
 - Reflector : -
 - Diffuser : Clear Glass
 - Temp : 130°C
- HALOGEN RJ 111 50W
- Code No 550141



SANTOS 4

RECESSED DRIVE OVER FIXTURES Load 10 kN | Class I IP67 IK10

METAL HALIDE



Lampholder : G 8.5 fixed
Reflector : 12°, 36°
Diffuser : Clear Glass
Temp : 62°C, 100°C

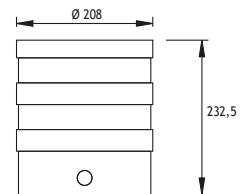
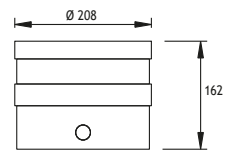
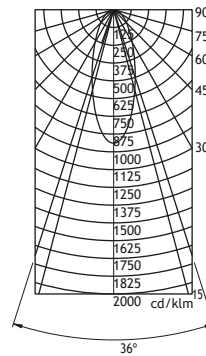
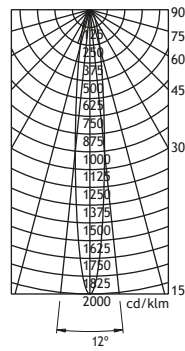
METAL HALIDE 20W

METAL HALIDE 35W

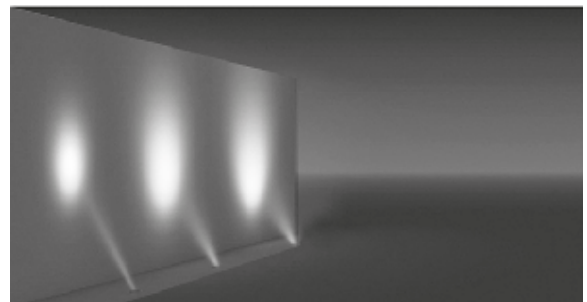
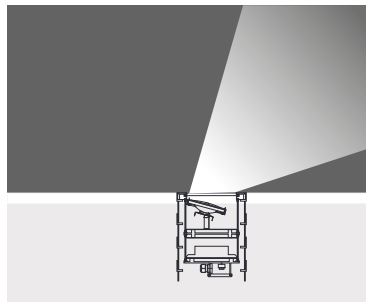
METAL HALIDE 70W

Code No
550111
550121

Code No
550131



METAL HALIDE

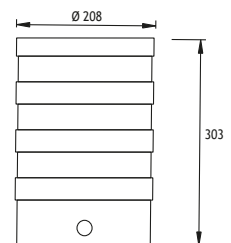


Lampholder : Gx8.5 Adjustable ±30°
Reflector : -
Diffuser : Clear Glass
Temp : 100°C, 166°C

METAL HALIDE CDMR 111 35W

METAL HALIDE CDMR 111 70W

Code No
550151
550161





SANTOS 5 RECESSED DRIVE OVER FIXTURES

Load 6 kN | Class I IP67 IK10

EMFA's Santos step mounted series is specially designed to deliver low-glare lighting to facades, columns, monuments and trees with minimal installation depth and narrow trim. The fixture is made of a combination of 316L stainless steel and die cast aluminium. A shield above the lamp reduces the glare of the metal halide lamps. A mirror finish reflector allows for a narrow to wide beam light output. An anti-slip glass is available upon request.

Cover

316L Stainless steel

Body

Die cast aluminium or aluminium profile with die cast aluminium bottom and connection box

Gaskets

Silicone

Diffusers

8 mm Tempered Glass

Screws

316L Stainless steel

Glands

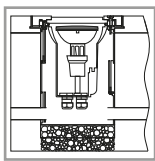
2 x PG 13.5

Recessing Tube

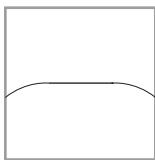
Polyamide 6



Mounting Feature

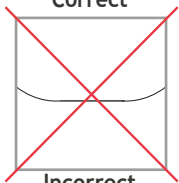


Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture. To make the fixture drive over, the recessing tube should be mounted flush to the ground.



Correct

When mounting the fixture on uneven surfaces, place so that the water does not accumulate on the surface of the fixture.



Incorrect

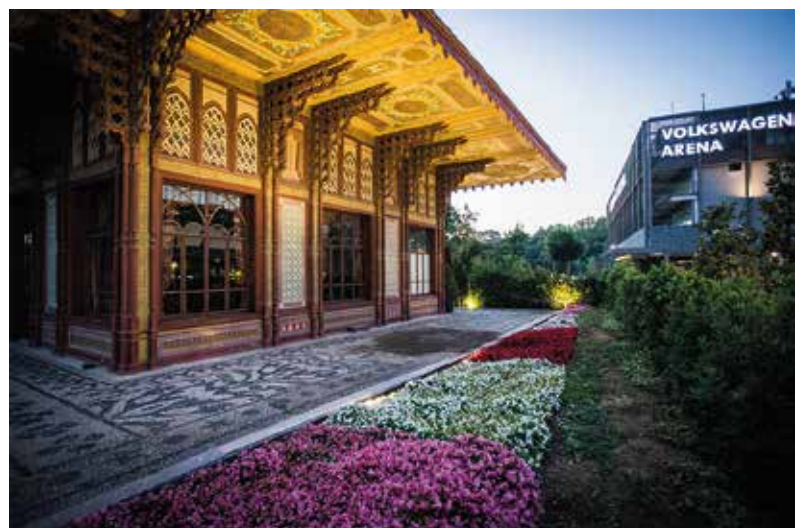


This fixture is also available with 2 screws instead of 4. For this option, please contact us.



Anti-slip Glass

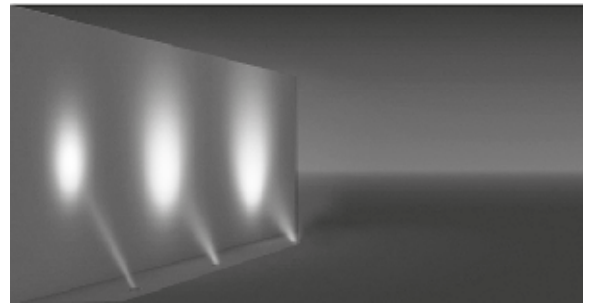
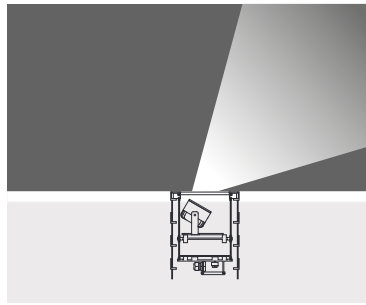
Please contact for this option.



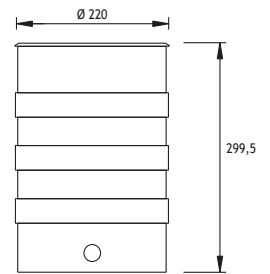
SANTOS 5

RECESSED DRIVE OVER FIXTURES Load 6 kN | Class I IP67 IK10

LED



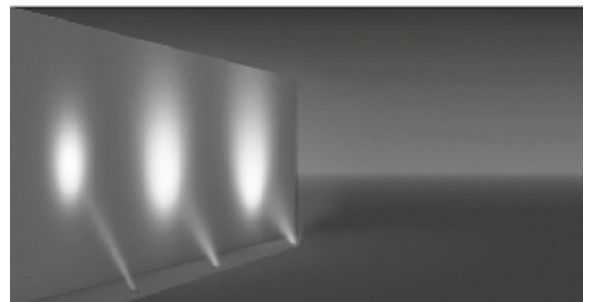
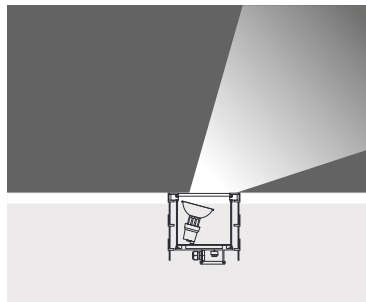
- Led : COB LED - Adjustable
- Reflector : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector
- Diffuser : Clear Glass
- Gear : 240V Non-Dimmable Driver (1-10V Dimmable Driver & DALI Driver available on request)
- Temp : 42°C
- Vertical Tilt : 30°



		Total Lighting Output	Code No
18W LED - 500 mA			
☀ Warm White	3000 K	1224 lm	551301
☾ Natural White	4000 K	1469 lm	551302

	10°	23°	38°
2m	∅ 0,35m 0,01m ²	13759 lx	2m ∅ 0,81m 0,52m ²
4m	∅ 0,70m 0,38m ²	3440 lx	4m ∅ 1,63m 2,08m ²
6m	∅ 1,05m 0,87m ²	1529 lx	6m ∅ 2,44m 4,68m ²
8m	∅ 1,40m 1,54m ²	861 lx	8m ∅ 3,26m 8,33m ²
10m	∅ 1,75m 2,40m ²	550 lx	10m ∅ 4,07m 13,02m ²
			2m ∅ 1,38m 1,49m ²
			4m ∅ 2,76m 5,97m ²
			6m ∅ 4,13m 13,40m ²
			8m ∅ 5,51m 23,84m ²
			10m ∅ 6,89m 37,29m ²

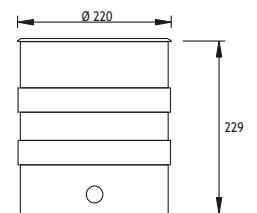
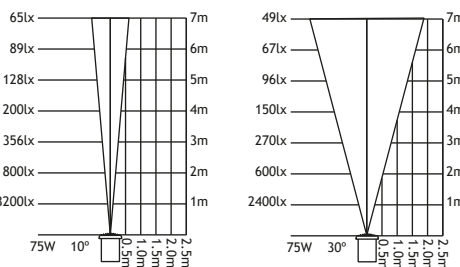
HALOGEN



- Lampholder : E27 Adjustable ±20°
- Reflector : -
- Diffuser : Clear Glass
- Temp : 129°C

HALOGEN PAR 30 75W

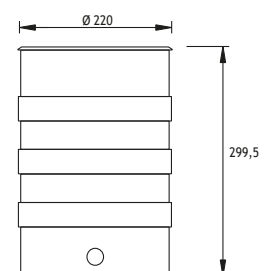
Code No
551101



- Lampholder : G_53 Adjustable ±30°
- Reflector : -
- Diffuser : Clear Glass
- Temp : 130°C

HALOGEN RJ 111 50W

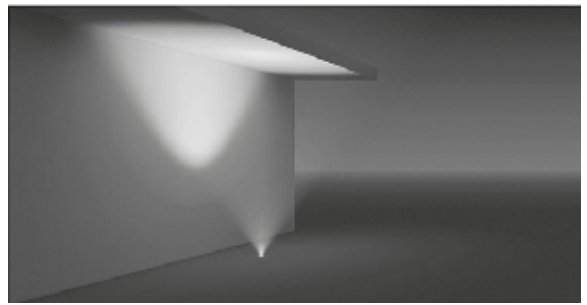
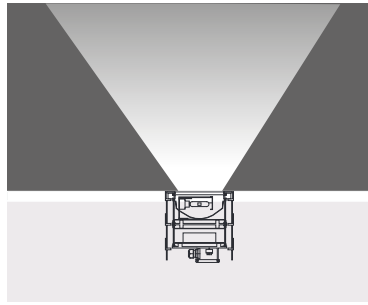
Code No
551141



SANTOS 5

RECESSED DRIVE OVER FIXTURES Load 6 kN | Class I IP67 IK10

METAL HALIDE

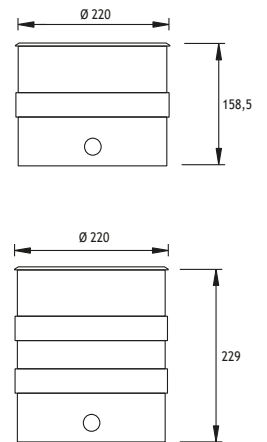
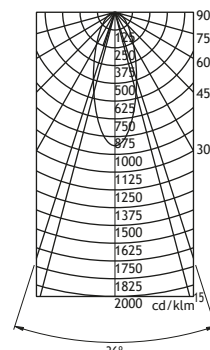
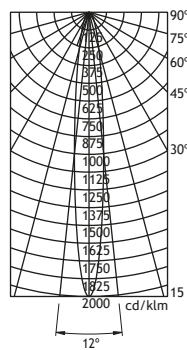


Lampholder : G 8.5 fixed
Reflector : 12°, 36°
Diffuser : Clear Glass
Temp : 62°C, 100°C

HALOGEN PAR 20W
HALOGEN PAR 35W

Lampholder : G 8.5 fixed
Reflector : 12°, 36°
Temp : 166°C

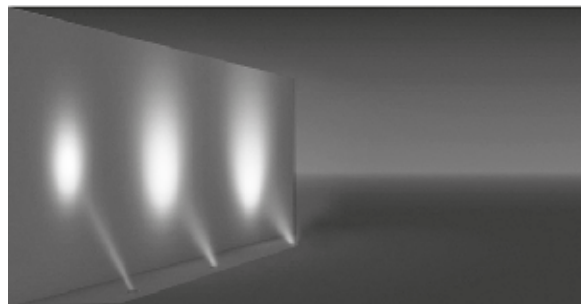
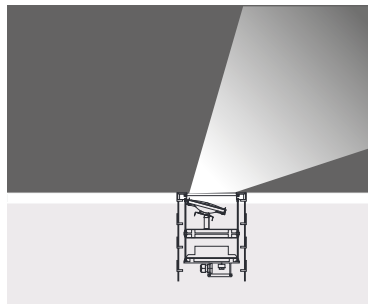
Code No
551111
551121



METAL HALIDE 70W

Code No
551131

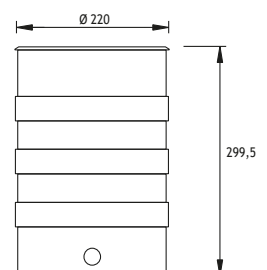
METAL HALIDE



Lampholder : Gx8.5 Adjustable ±30°
Reflector : -
Diffuser : Clear Glass
Temp : 100°C, 166°C

METAL HALIDE CDMR 111 35W
METAL HALIDE CDMR 111 70W

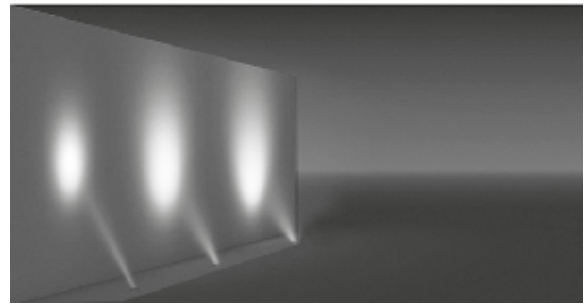
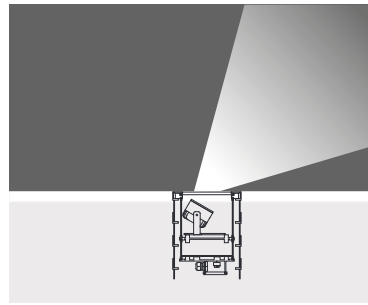
Code No
551151
551161



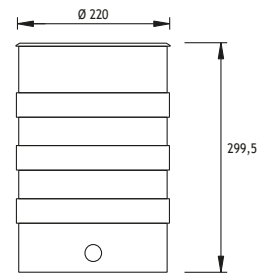
SANTOS 5

RECESSED DRIVE OVER FIXTURES Load 6 kN | Class I IP67 IK10

LED



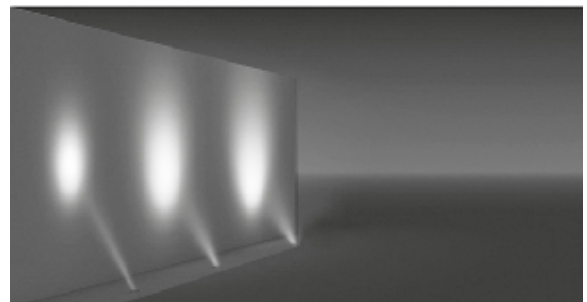
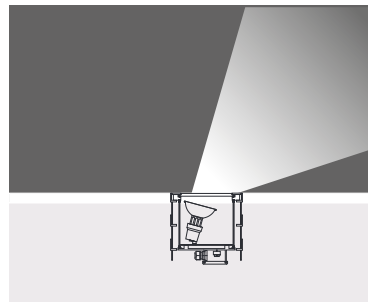
- Led : COB LED - Adjustable
- Reflector : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector
- Diffuser : Clear Glass
- Gear : 240V Non-Dimmable Driver (1-10V Dimmable Driver & DALI Driver available on request)
- Temp : 42°C
- Vertical Tilt : 30°



18W LED - 500 mA		Total Lighting Output	Code No
☀ Warm White	3000 K	768 lm	551311
☾ Natural White	4000 K	864 lm	551312

	10°	23°	38°
2m	∅ 0,35m 0,01m ²	13759 lx	2m ∅ 0,81m 0,52m ²
4m	∅ 0,70m 0,38m ²	3440 lx	4m ∅ 1,63m 2,08m ²
6m	∅ 1,05m 0,87m ²	1529 lx	6m ∅ 2,44m 4,68m ²
8m	∅ 1,40m 1,54m ²	861 lx	8m ∅ 3,26m 8,33m ²
10m	∅ 1,75m 2,40m ²	550 lx	10m ∅ 4,07m 13,02m ²
			2m ∅ 1,38m 1,49m ²
			4m ∅ 2,76m 5,97m ²
			6m ∅ 4,13m 13,40m ²
			8m ∅ 5,51m 23,84m ²
			10m ∅ 6,89m 37,29m ²

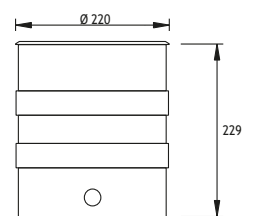
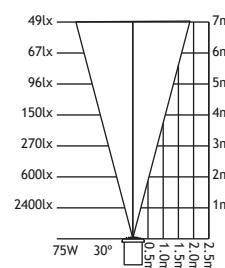
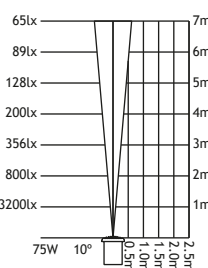
HALOGEN



- Lampholder : E27 Adjustable ±20°
- Reflector : -
- Diffuser : Clear Glass
- Temp : 129°C

HALOGEN PAR 30 75W

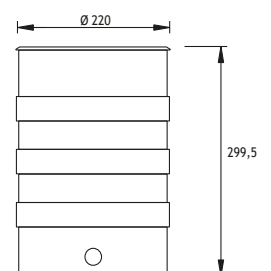
Code No
551201



- Lampholder : G_53 Adjustable ±30°
- Reflector : -
- Diffuser : Clear Glass
- Temp : 130°C

HALOGEN RJ 111 50W

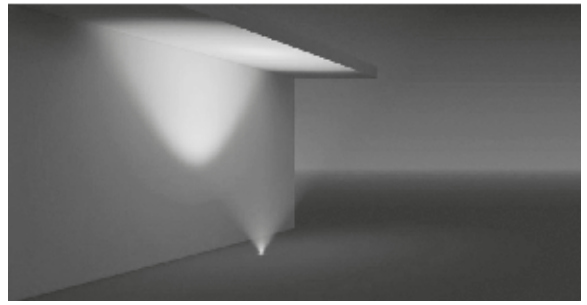
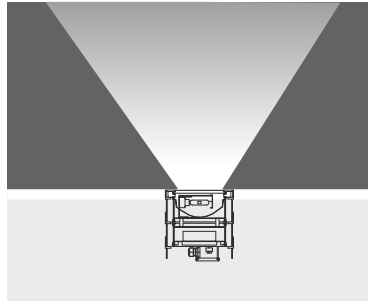
Code No
551241



SANTOS 5

RECESSED DRIVE OVER FIXTURES Load 6 kN | Class I IP67 IK10

METAL HALIDE



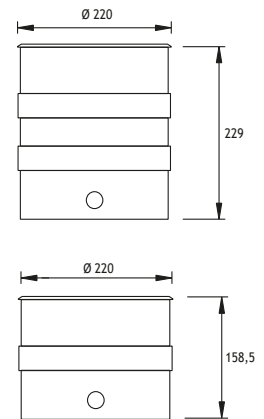
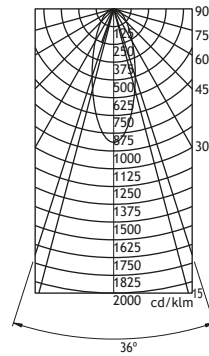
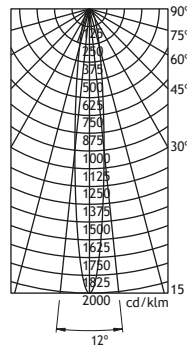
Lampholder : G 8.5 fixed
Reflector : 12°, 36°
Diffuser : Clear Glass
Temp : 62°C, 100°C

METAL HALIDE 20W
METAL HALIDE 35W

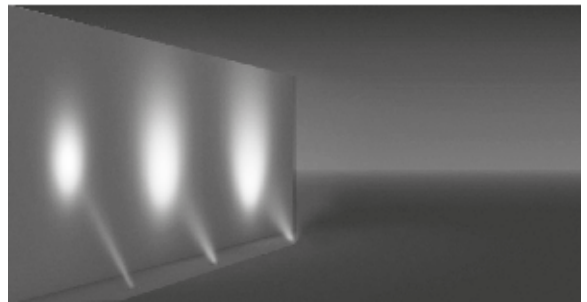
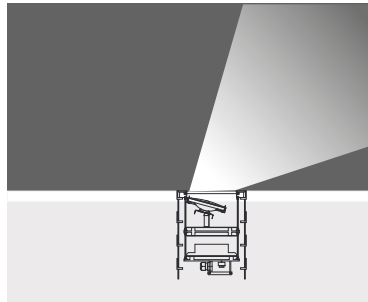
METAL HALIDE 70W

Code No
551211
551221

Code No
551231



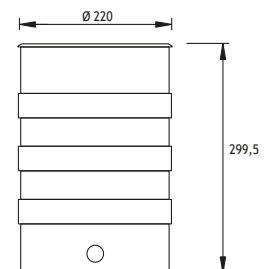
METAL HALIDE



Lampholder : Gx8.5 Adjustable ±30°
Reflector : -
Diffuser : Clear Glass
Temp : 100°C, 166°C

METAL HALIDE CDMR 111 35W
METAL HALIDE CDMR 111 70W

Code No
551251
551261







EMFA

TEOS RECESSED DRIVE OVER FIXTURES

Load 50 kN | Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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EMFA's Teos 3 Recessed Drive Over LED Fixture is specially designed to deliver high output LED light to ground surfaces of roads, carparks and pathways. This heavy duty fixture is designed to withstand the weight of large vehicles. Its robust construction allows for a maximum static load of 5000kg. The body and head of the fixture are made of die cast aluminium, while the recessing tube is made of steel to withstand the repeated impact of driving vehicles' tires. The high power LEDs are positioned and angled to provide maximum light output. The electronic LED driver is housed in the base of the fixture. The fixture comes with 2 x PG13.5 cable glands and 0.5m cable.

Cover

Die cast aluminium

Body

Die cast aluminium

Gaskets

Silicone

Diffusers

Polycarbonate

Screws

316L Stainless steel

Glands

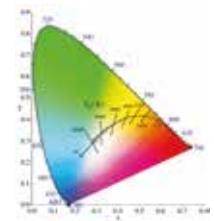
2 x PG 13.5

Cable

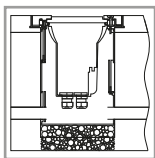
0.5m 3x0,75 mm H05VV-F

Recessing Tube

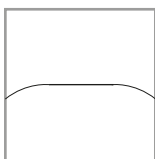
Electrostatic powder paint
Coated steel



Mounting Feature

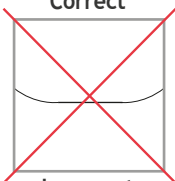


Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture. To make the fixture drive over, the recessing tube should be mounted flush to the ground.



Correct

When mounting the fixture on uneven surfaces, place so that the water does not accumulate on the surface of the fixture.



Incorrect

LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

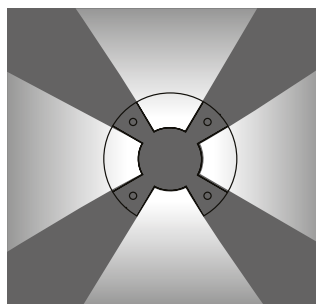
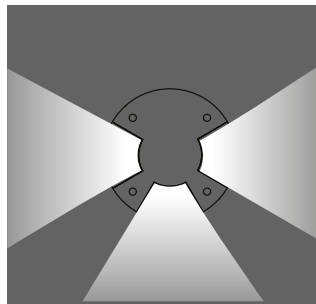
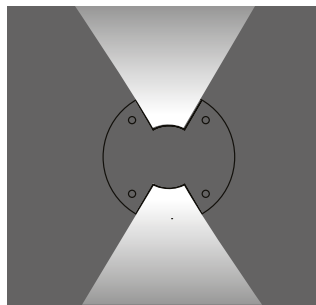
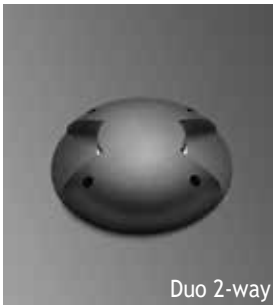
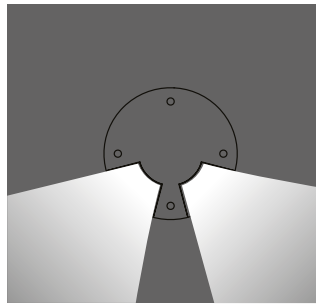
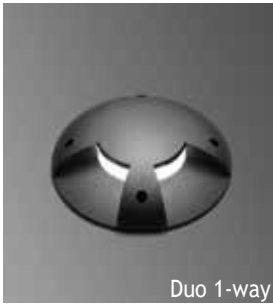
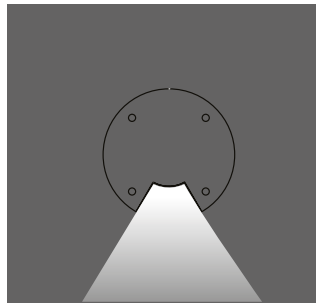
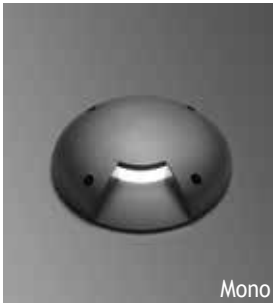
Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

TEOS 3 RECESSED DRIVE OVER FIXTURES

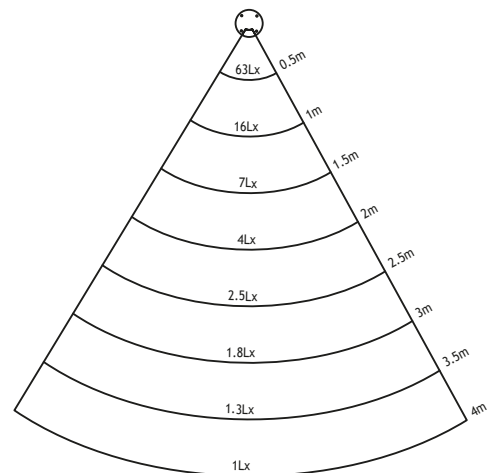
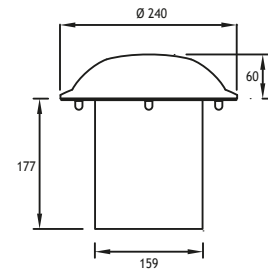
Load 50 kN | Class I IP67 IK10

Available in any of these RAL colors



Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Polycarbonate

			Total Lighting Output	Code No
Mono	1 x 350 mA (4W) LED	3000 K	165 lm	180101
Mono	1 x 350 mA (4W) LED	5000 K	192 lm	180102
Duo 1-way	2 x 350 mA (8W) LED	3000 K	330 lm	180111
Duo 1-way	2 x 350 mA (8W) LED	5000 K	384 lm	180112
Duo 2-way	2 x 350 mA (8W) LED	3000 K	330 lm	180121
Duo 2-way	2 x 350 mA (8W) LED	5000 K	384 lm	180122
Trio	3 x 350 mA (12W) LED	3000 K	495 lm	180131
Trio	3 x 350 mA (12W) LED	5000 K	576 lm	180132
Quad	4 x 350 mA (16W) LED	3000 K	660 lm	180141
Quad	4 x 350 mA (16W) LED	5000 K	768 lm	180142



Lux levels for one aperture at 3000K

MIRA RECESSED DRIVE OVER FIXTURES

Load 20 kN | Class I IP67 IK10

The Mira series consists of a range of LED and fluorescent sources to deliver the desired light effect to facades, columns, bridges, monuments, and signs. The series is made of a die cast aluminium body with electrostatic powder paint finished with a 316L stainless steel cover. The recessed versions are for drive over up to 20 kN including a stainless steel recessing box. The surface mounted versions come with a heavy-duty 316L stainless steel bracket. The fixtures come with integrated electronic ballasts and a specially developed potted power cable to effectively bond with the cast resin and stop any water ingress. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.

Cover

316L Stainless steel

Body

Die cast aluminium

Diffusers

12 mm Tempered Glass

Gaskets

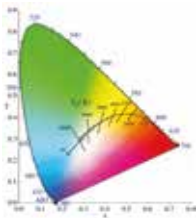
Silicone

Screws

316L Stainless steel

Recessing Box

Stainless steel



“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

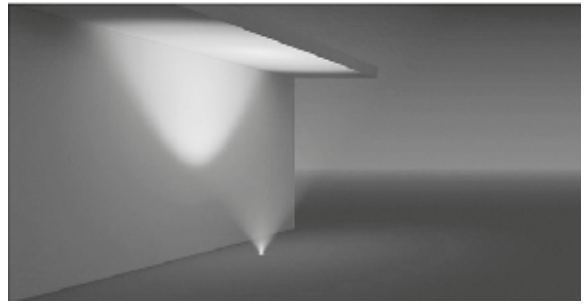
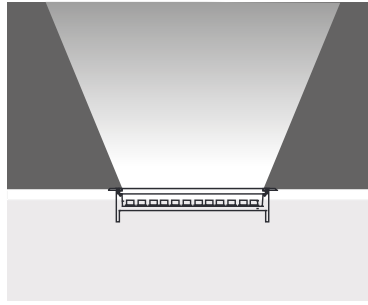
Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

MIRA 1 RECESSED DRIVE OVER FIXTURES

Load 20 kN | Class I IP67 IK10

SYMMETRICAL LED

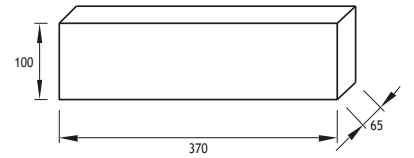
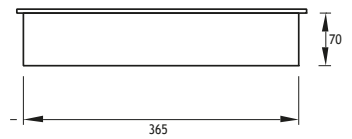
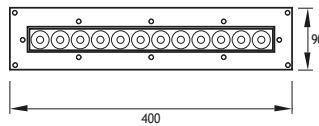


Voltage : 240V AC with integrated driver
(24V AC or DC on request)
for RGB "240V AC with remote driver"

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

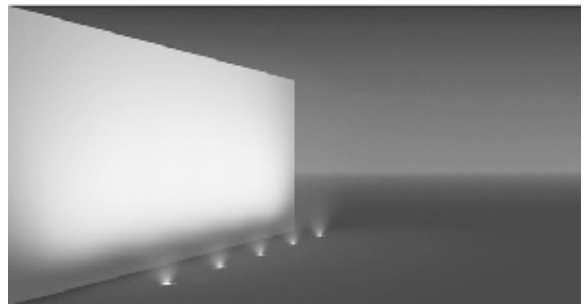
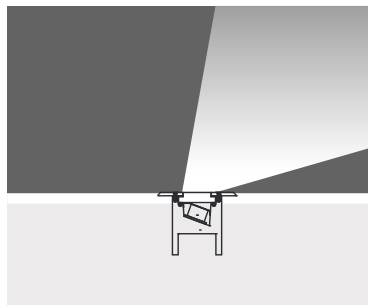
Cable : Potted 5 m 3x0,75 H03 VV-F



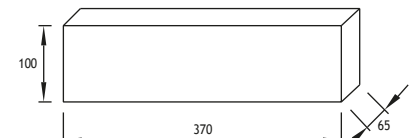
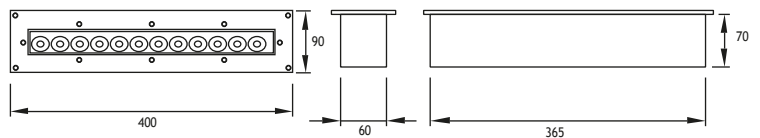
Stainless Steel Recessing Box

		Total Lighting Output	Code No
12 x 350 mA (12 W) LED			
☀ Warm White	3000 K	1020 lm	430111
☁ Natural White	4500 K	1020 lm	430116
☀ Cool White	6000 K	1224 lm	430117
🟦 Blue			430112
🟥 Red			430113
🟡 Amber			430114
🟢 Green			430115
27 x 350 mA (27 W) RGB LED			
🟡 🟢 🟠	RGB		430161

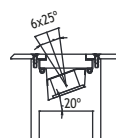
ASYMMETRICAL LED



		Total Lighting Output	Code No
12 x 350 mA (12 W) LED			
☀ Warm White	3000 K	1020 lm	430351
☁ Natural White	4500 K	1020 lm	430352
☀ Cool White	6000 K	1224 lm	430353
🟦 Blue			430354
🟥 Red			430355
🟡 Amber			430356
🟢 Green			430357
27 x 350 mA (27 W) RGB LED			
🟡 🟢 🟠	RGB		430361



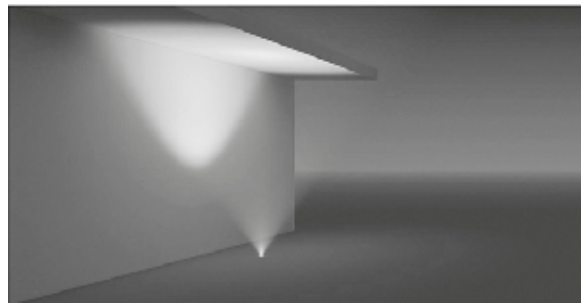
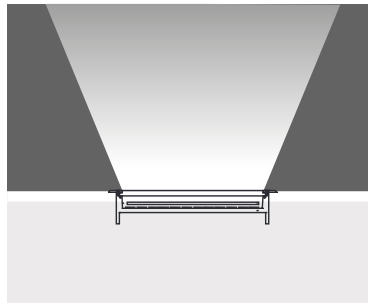
Stainless Steel Recessing Box



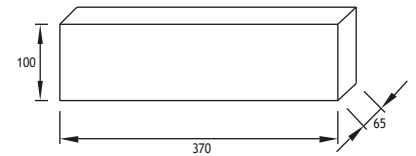
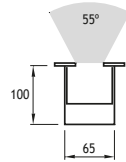
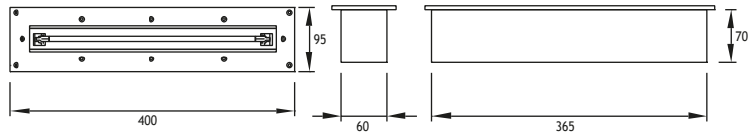
MIRA 1 RECESSED DRIVE OVER FIXTURES

Load 20 kN | Class I IP67 IK10

SYMMETRICAL FLUO.



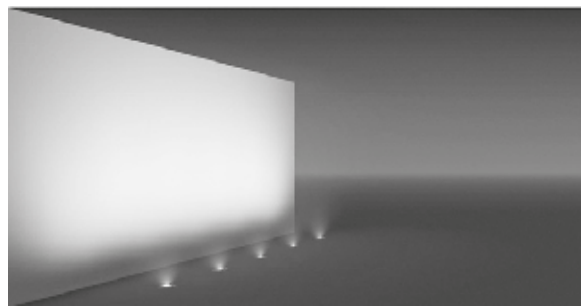
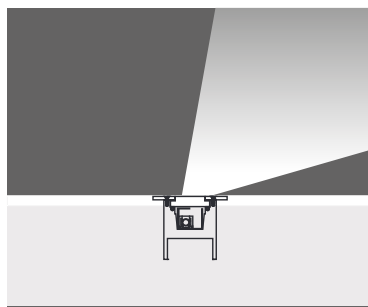
- Voltage** : 240V AC with integrated ballast
- Diffuser** : Clear Glass 12 mm
(Frosted Glass on request)
- Reflector** : Symmetrical
- Lampholder** : W 4,3 x 8,5 d
- Ballast** : Electronic
- Cable** : Potted 5 m 3x0,75 H03 VV-F



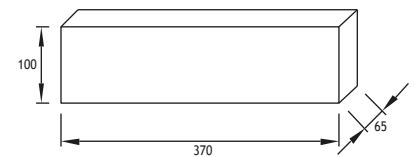
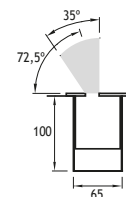
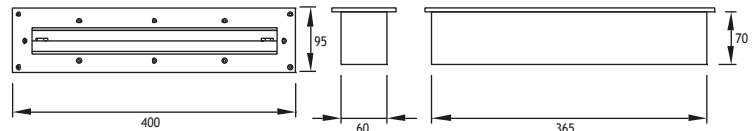
FLUO T-2 1x8W (included) Code No 430141

Stainless Steel Recessing Box

ASYMMETRICAL FLUO.



- Voltage** : 240V AC with integrated ballast
- Diffuser** : Clear Glass 7 + 5 mm
(Frosted Glass on request)
- Reflector** : Asymmetrical
- Lampholder** : W 4,3 x 8,5 d
- Ballast** : Electronic
- Cable** : Potted 5 m 3x0,75 H03 VV-F



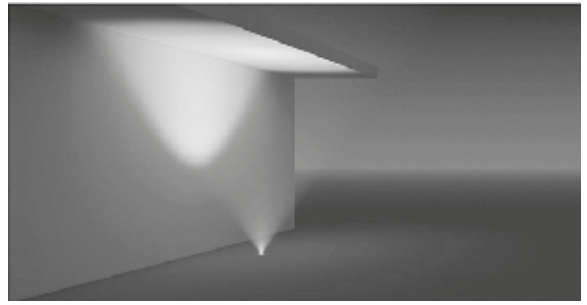
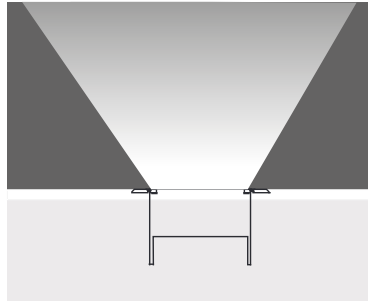
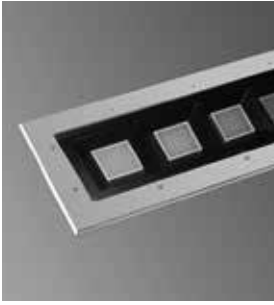
FLUO T-2 1x8W (included) Code No 430151

Stainless Steel Recessing Box

MIRA 2 RECESSED DRIVE OVER FIXTURES

Load 20 kN | Class I IP67 IK10

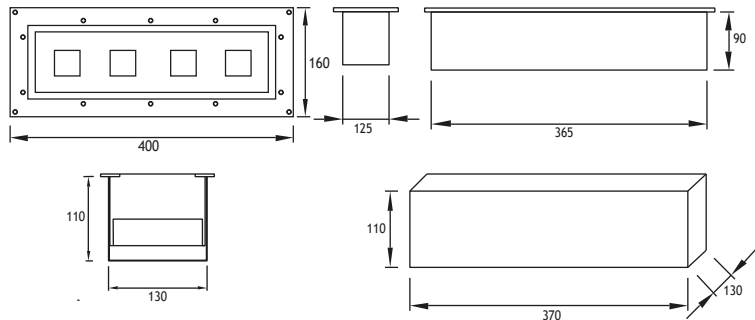
SYMMETRICAL LED



Voltage : 240V AC with integrated ballast
(12V DC or 24V DC on request)

Diffuser : Clear Glass 12 mm
(Frosted Glass on request)

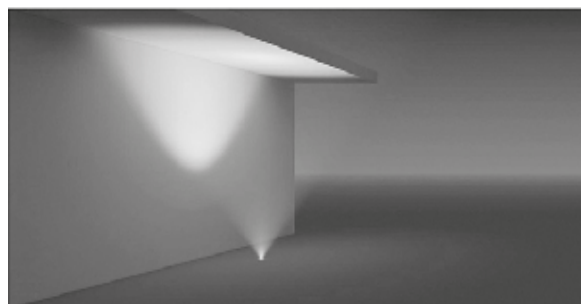
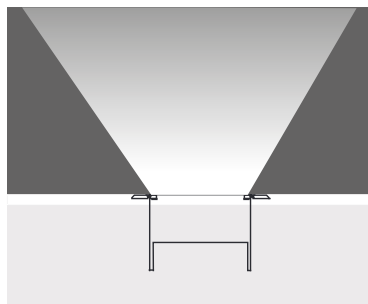
Cable : Potted 5 m 3x0,75 H03 VV-F



4 x 350 mA (12 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	1400 lm	430721
☾ Natural White	5000 K	1680 lm	430722

Stainless Steel Recessing Box

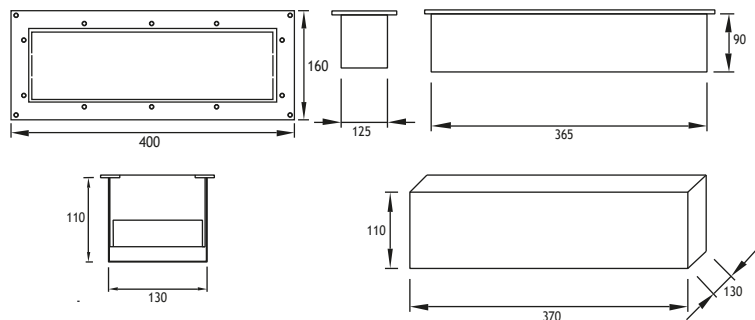
SYMMETRICAL LED



Voltage : 240V AC with integrated ballast
(12V DC or 24V DC on request)

Diffuser : Milky Clear Glass 12 mm
(Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



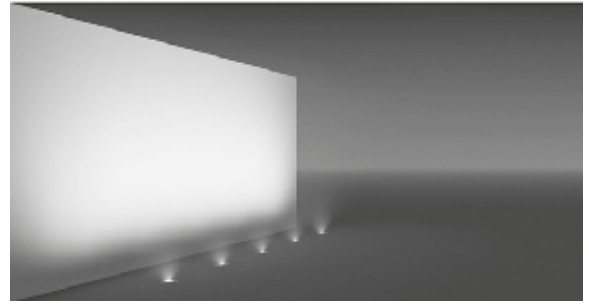
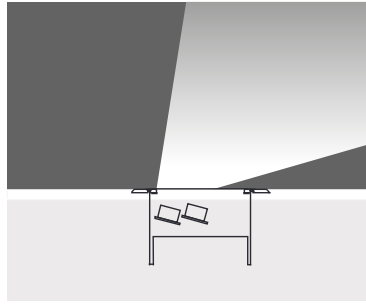
4 x 350 mA (12 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	700 lm	430731
☾ Natural White	5000 K	840 lm	430732

Stainless Steel Recessing Box

MIRA 2 RECESSED DRIVE OVER FIXTURES

Load 20 kN | Class I IP67 IK10

15°+15° ASYMMETRICAL LED

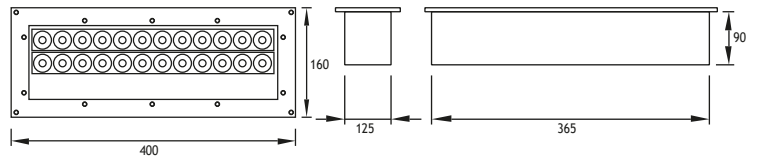


Voltage : 240V AC with integrated driver
for RGB "240V AC with remote driver"

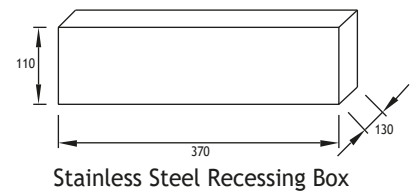
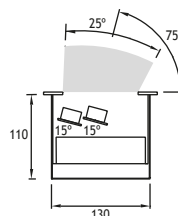
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

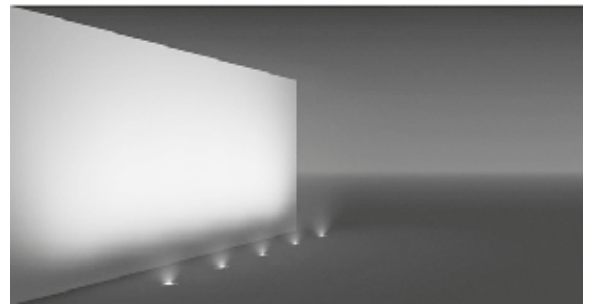
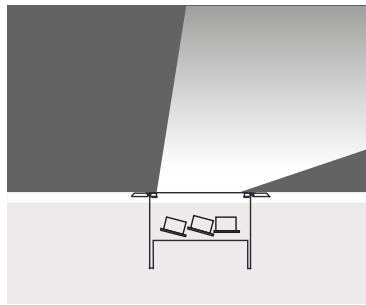


24 x 350 mA (24 W) LED	Total Lighting Output	Code No
☀ Warm White 3000 K	2040 lm	430401
☁ Natural White 4500 K	2040 lm	430406
☀ Cool White 6000 K	2448 lm	430407
🟦 Blue		430402
🟥 Red		430403
🟡 Amber		430404
🟢 Green		430405

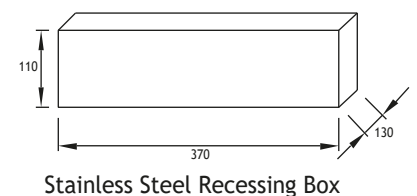
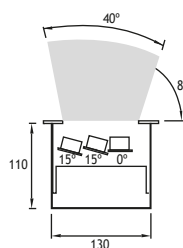
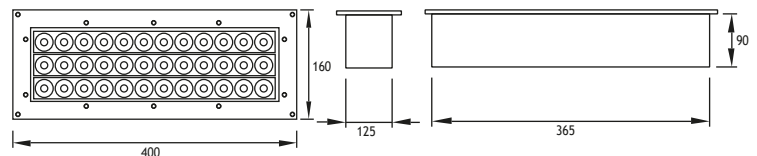


54 x 350 mA (54 W) RGB LED	Code No
🟡 🟢 🟠 RGB	430441

0°+15°+15° ASYMMETRICAL LED



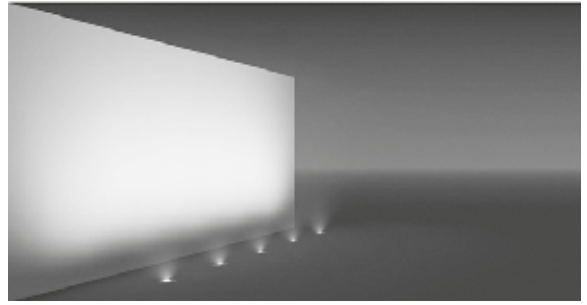
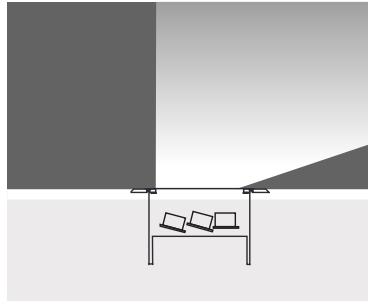
36 x 350 mA (36 W) LED	Total Lighting Output	Code No
☀ Warm White 3000 K	3060 lm	430501
☁ Natural White 4500 K	3060 lm	430506
☀ Cool White 6000 K	3672 lm	430507
🟦 Blue		430502
🟥 Red		430503
🟡 Amber		430504
🟢 Green		430505



MIRA 2 RECESSED DRIVE OVER FIXTURES

Load 20 kN | Class I IP67 IK10

30°+15°+0° ASYMMETRICAL LED

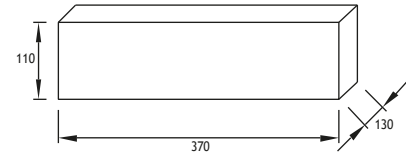
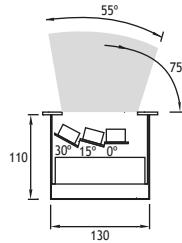
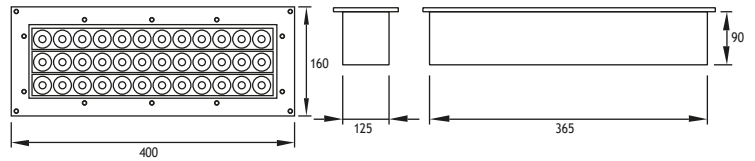


Voltage : 240V AC with integrated driver
for RGB "240V AC with remote driver"

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 12 mm
(Frosted Glass on request)

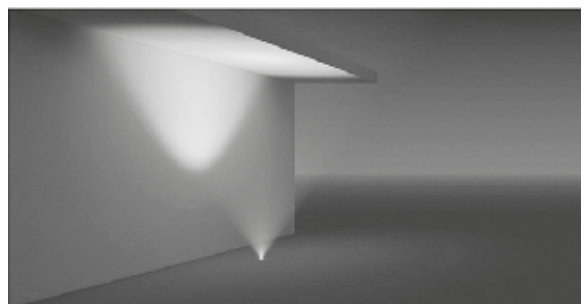
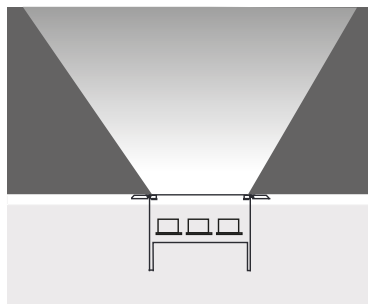
Cable : Potted 5 m 3x0,75 H03 VV-F



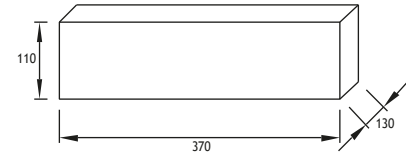
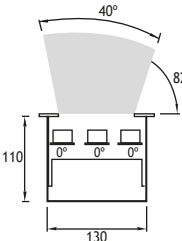
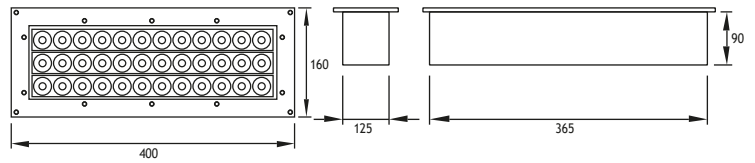
Stainless Steel Recessing Box

36 x 350 mA (36 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	3060 lm	430601
☁ Natural White	4500 K	3060 lm	430606
☀ Cool White	6000 K	3672 lm	430607
🟦 Blue			430602
🟥 Red			430603
🟡 Amber			430604
🟢 Green			430605

SYMMETRICAL LED



36 x 350 mA (36 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	3060 lm	430611
☁ Natural White	4500 K	3060 lm	430612
☀ Cool White	6000 K	3672 lm	430613
🟦 Blue			430614
🟥 Red			430615
🟡 Amber			430616
🟢 Green			430617

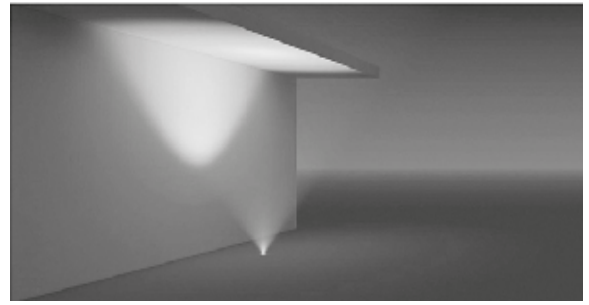
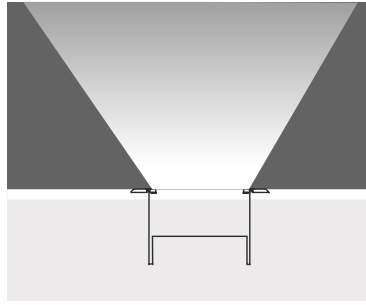


Stainless Steel Recessing Box

MIRA 2 RECESSED DRIVE OVER FIXTURES

Load 20 kN | Class I IP67 IK10

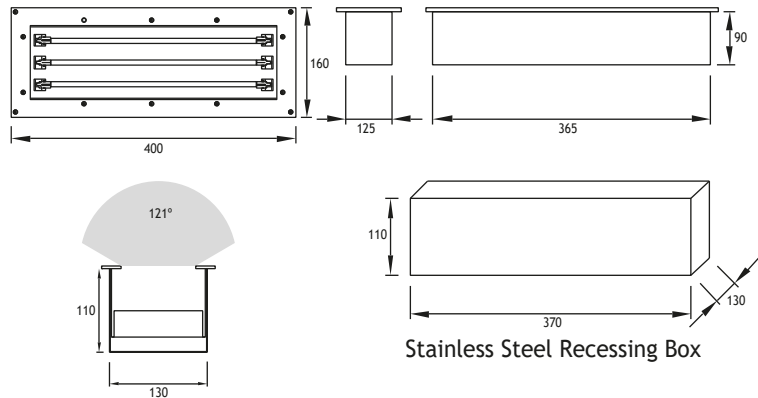
SYMMETRICAL FLUO.



- Voltage** : 240V AC with integrated ballast
- Diffuser** : Clear Glass 12 mm
(Frosted Glass on request)
- Reflector** : Symmetrical
- Lampholder** : W 4,3 x 8,5 d
- Ballast** : Electronic

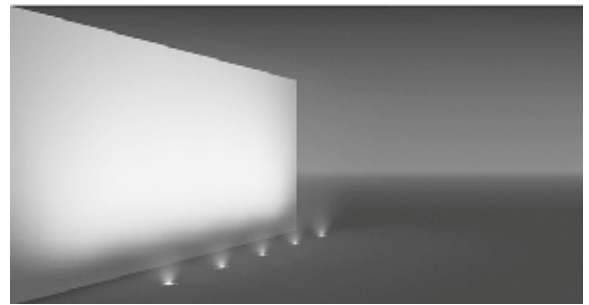
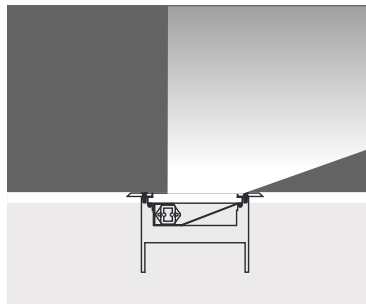
FLUO T-2 3x8W (included)

Code No
430701



Stainless Steel Recessing Box

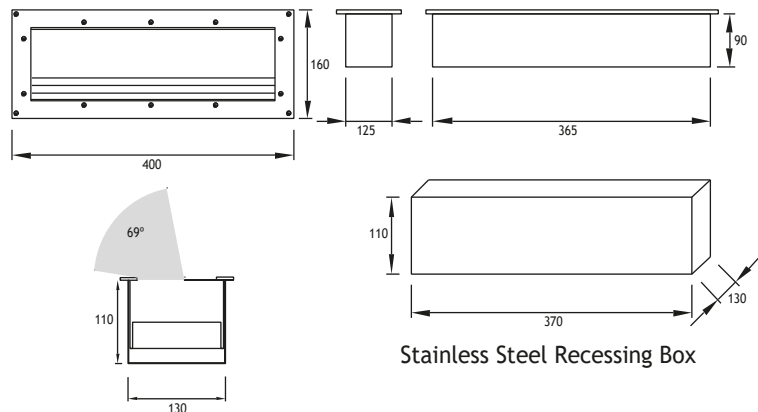
ASYMMETRICAL METAL HALIDE



- Voltage** : 240V AC with integrated ballast
- Diffuser** : Clear Glass 12 mm
(Frosted Glass on request)
- Reflector** : Asymmetrical
- Lampholder** : G 8,5
- Ballast** : Electronic

Metal Halide 70W (not included) 430711

Code No
430711

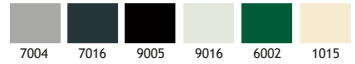


Stainless Steel Recessing Box

ASSOS 2 RECESSED DRIVE OVER FIXTURES

Load 15 kN | Class I IP67 IK10

Available in any of these RAL colors



EMFA's Assos 2 series is specially designed to light facades, columns, monuments and trees with a die cast aluminium grill protecting the glass. The fixture can be equipped with metal halide, halogen or fluorescent lamps. The fixture is made completely of die cast aluminium body, which allows for IP67 and IK10 and a load of 15kN. The fixture comes with a polyamide recessing tube for easy mounting in the ground or concrete. A louvre can be ordered separately to reduce the glare of the lamps.

Cover

Die cast aluminium

Body

Die cast aluminium or aluminium profile with die cast aluminium bottom and connection box.

Gaskets

Silicone

Diffusers

8 mm Tempered Glass

Screws

316L Stainless steel

Glands

2 x PG 13.5

Recessing Tube

Polyamide 6



Accessories:

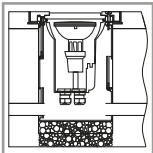


Louvre

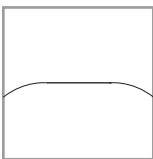
To avoid glare. Can be applied to all lamp types except Halogen PAR 30 and 38

Code No 955105

Mounting Feature

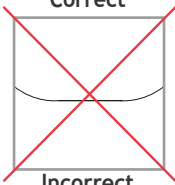


Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture. To make the fixture drive over, the recessing tube should be mounted flush to the ground.



Correct

When mounting the fixture on uneven surfaces, place so that the water does not accumulate on the surface of the fixture.



Incorrect



This fixture is suitable for helicopter landing pads due to its heavy duty aluminium cover.



Dichroic Color Glass Filter

Can be applied to all lamp types except Halogen PAR 38.

Code No 955101 - Blue

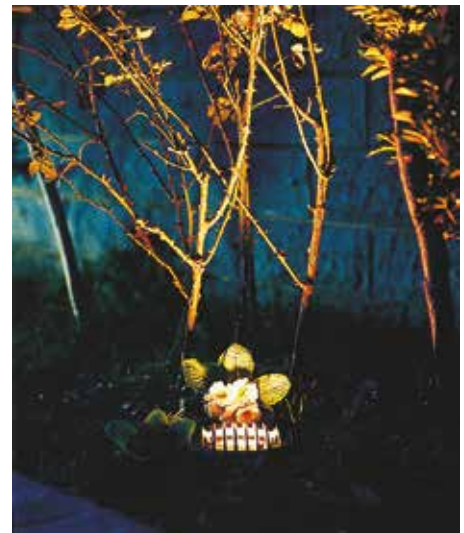
Code No 955102 - Red

Code No 955103 - Yellow

Code No 955104 - Green

Caution:

The louvre and filter cannot be applied to the standard fixture. These options should be mentioned when ordering.

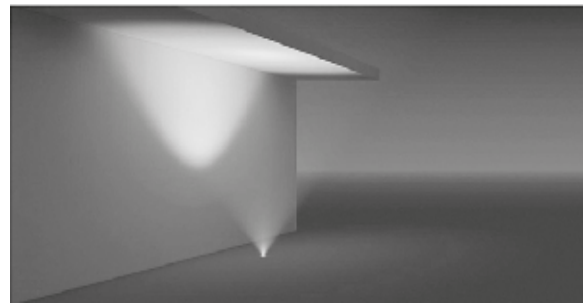
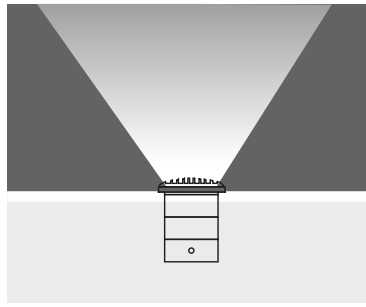


ASSOS 2 RECESSED DRIVE OVER FIXTURES

Load 15 kN | Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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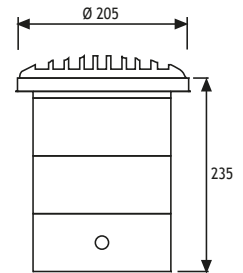
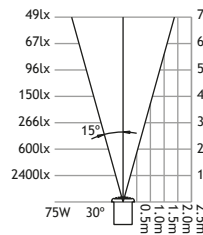
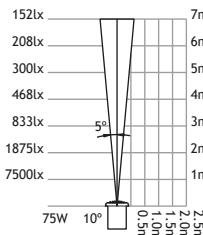



Lampholder : E27 fixed
 Reflector : -
 Diffuser : Clear Glass
 Temp : 129°C

Code No

HALOGEN PAR 30 75W (10° or 30°) 201131

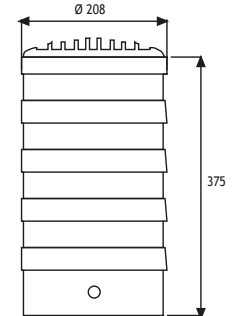
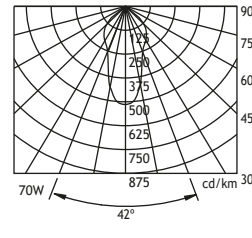
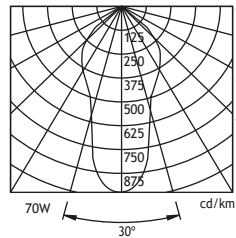
HALOGEN PAR 38 100W 30° 201141



Lampholder : G12 Fixed or Adjustable ± 20°
 Reflector : 30°, 42°
 Diffuser : Clear Glass
 Temp : 35W - 99°C
 70W - 144°C 
 150W - 238°C

Code No

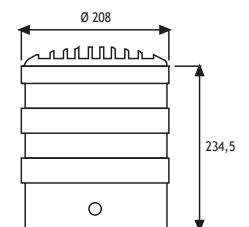
METAL HALIDE 35W / 70W / 150W 201241



Lampholder : Gu 5.3 Fixed or Adjustable ± 30°
 Reflector : -
 Diffuser : Clear Glass
 Temp : 35W - 67°C
 50W - 80°C

Code No

HALOGEN PAR 16 35W / 50 W 201181
 (24° or 60°)



ASSOS 3 RECESSED DRIVE OVER FIXTURES

Load 15 kN | Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015

EMFA's Assos 3 series is specially designed to light pathways, roads, and gardens. The fixture can be equipped with LED, halogen or fluorescent lamps. The fixture has 3 different options of cover: Multi, Mono, Dual, and Wall to give different lighting effects. In combination with the die cast aluminium body, the fixture allows for IP67 and IK10 and a load of 15kN. The fixture comes with a polyamide recessing tube for easy mounting in the ground or concrete.

Cover

Die cast aluminium

Body

Die cast aluminium or aluminium profile with die cast aluminium bottom and connection box.

Gaskets

Silicone

Diffusers

Tempered press glass or polycarbonate

Screws

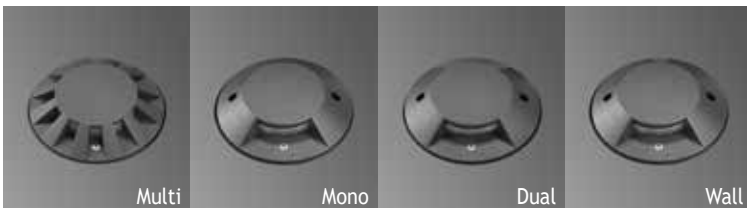
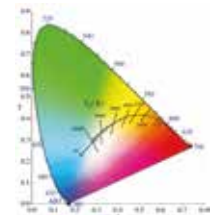
316L Stainless steel

Glands

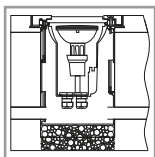
2 x PG 13.5

Recessing Tube

Polyamide 6

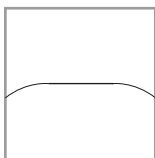


Mounting Feature



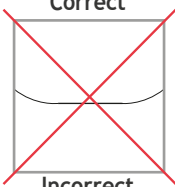
Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture.

To make the fixture drive over, the recessing tube should be mounted flush to the ground.



Correct

When mounting the fixture on uneven surfaces, place so that the water does not accumulate on the surface of the fixture.



Incorrect

LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

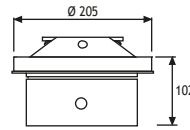
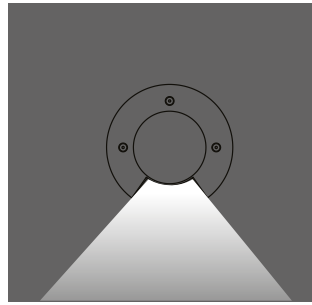
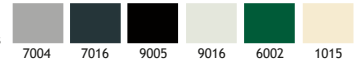
Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

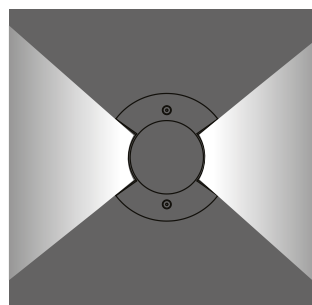
ASSOS 3 RECESSED DRIVE OVER FIXTURES

Load 15 kN | Class I IP67 IK10

Available in any of these RAL colors



Led : Linear LEDs
Voltage : 240 VAC with integrated driver
 (12-24 VDC on request)
Diffuser : Polycarbonate

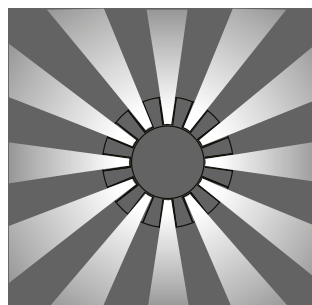


Led	: Linear LEDs	Total Lighting Output	Code No
Mono	1 x 350 mA (3W) LED	350 lm	203141
Dual	2 x 350 mA (6W) LED	700 lm	204141
Wall	2 x 350 mA (6W) LED	700 lm	205141
Multi	1 x 320 mA (11W) LED	925 lm	202141

HALOGEN 25-40W

Lampholder : G9 Fixed
Diffuser : Clear Glass

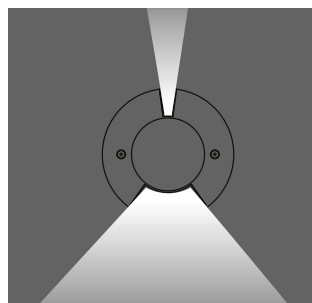
Multi	Code No	202101
Mono		203101
Dual		204101
Wall		205101



HALOGEN 25-40W

Lampholder : Gx53 Fixed
Diffuser : Clear Glass / Polycarbonate

Multi	Code No	202111
Mono		203111
Dual		204111
Wall		205111



HALOGEN 25-40W

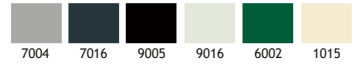
Lampholder : G 6.35 Fixed
Diffuser : Clear Glass

Multi	Code No	202121
Mono		203121
Dual		204121
Wall		205121

ASSOS 4 RECESSED DRIVE OVER FIXTURES

Load 15 kN | Class I IP67 IK10

Available in any of these RAL colors



EMFA's Assos 4 series is specially designed to light facades, columns, monuments and trees. The fixture can be equipped with metal halide, halogen or fluorescent lamps. The fixture has 3 different options of cover: 316 stainless steel, die cast aluminium or bronze in combination with the die cast aluminium body which allows for IP67 and IK10 and a load of 15kN. The fixture comes with a polyamide recessing tube for easy mounting in the ground or concrete. A louvre can be ordered separately to reduce the glare of the lamps. An anti-slip glass is available upon request.

Cover

Die cast aluminium / 316L Stainless Steel

Body

Die cast aluminium or aluminium profile with die cast aluminium bottom and connection box.

Gaskets

Silicone

Diffusers

15 mm Tempered Glass

Screws

316L Stainless steel

Glands

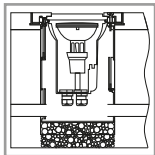
2 x PG 13.5

Recessing Tube

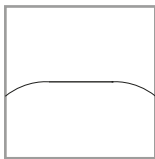
Polyamide 6



Mounting Feature

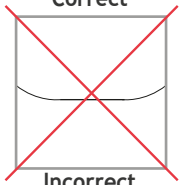


Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture. To make the fixture drive over, the recessing tube should be mounted flush to the ground.



Correct

When mounting the fixture on uneven surfaces, place so that the water does not accumulate on the surface of the fixture.



Incorrect

Accessories:



Louvre

To avoid glare.

Can be applied to all lamp types except Halogen PAR 30 and 38

Code No 955105



Dichroic Color Glass Filter

Can be applied to all lamp types except Halogen PAR 38.

Code No 955101 - Blue

Code No 955102 - Red

Code No 955103 - Yellow

Code No 955104 - Green

Caution:

The louvre and filter cannot be applied to the standard fixture. These options should be mentioned when ordering.



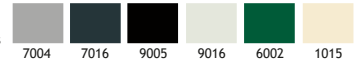
Anti-slip Glass

Please contact for this option.

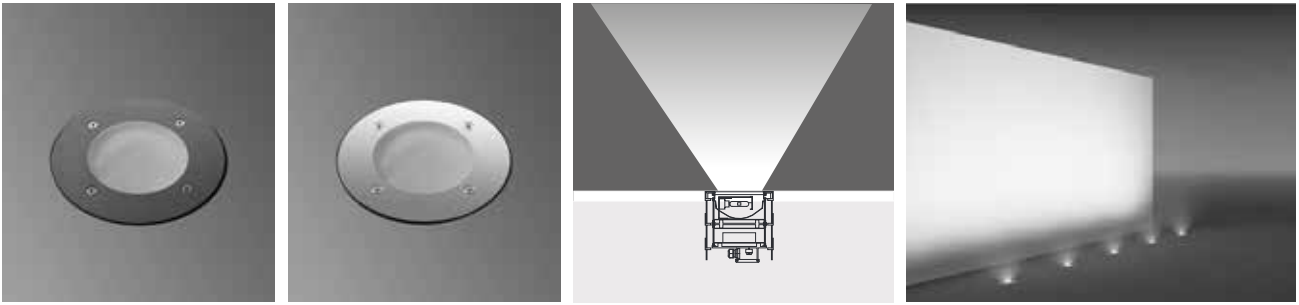
ASSOS 4 RECESSED DRIVE OVER FIXTURES

Load 15 kN | Class I IP67 IK10

Available in any of these RAL colors



HALOGEN or FLUO.

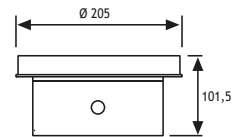
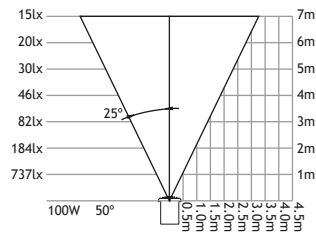


HALOGEN LINEAR 60W

Lampholder : R7s fixed
 Reflector : 50°C
 Diffuser : Frosted Glass
 Temp : 100°C

Alum.
 Inox (Stainless Steel)

Code No
 206101
 207101

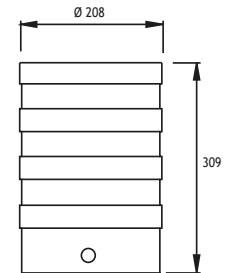


ELECTRONIC FLUO. 23W

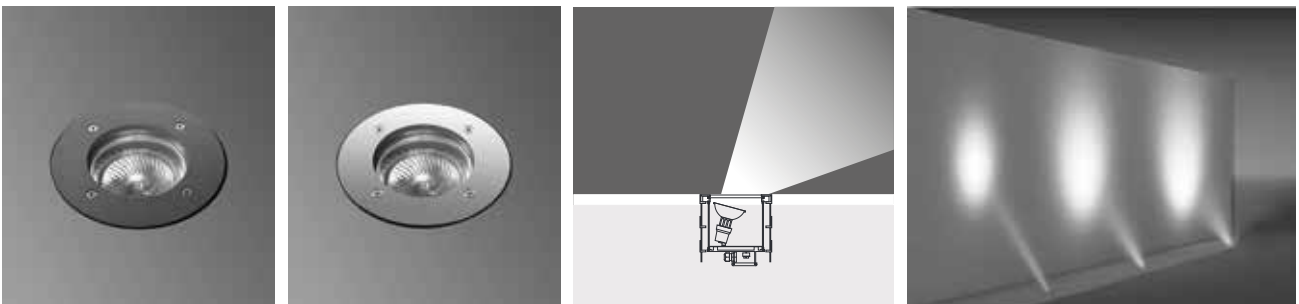
Lampholder : E27 Fixed
 Reflector : 80°C
 Diffuser : Frosted Glass
 Temp : 43°C

Alum.
 Inox (Stainless Steel)

Code No
 206111
 207111



HALOGEN

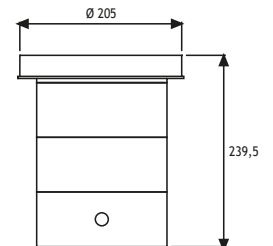
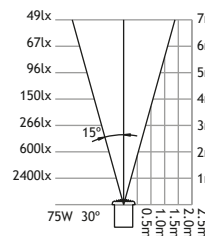


HALOGEN PAR 30 75W

Lampholder : E27 fixed
 Reflector : -
 Diffuser : Clear Glass
 Temp : 129°C

Alum.
 Inox (Stainless Steel)

Code No
 206131
 207131

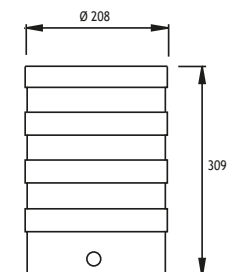


HALOGEN PAR 30 75W

Lampholder : E27 Adjustable ± 20°
 Reflector : -
 Diffuser : Clear Glass
 Temp : 129°C

Alum.
 Inox (Stainless Steel)

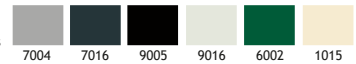
Code No
 221311
 221321



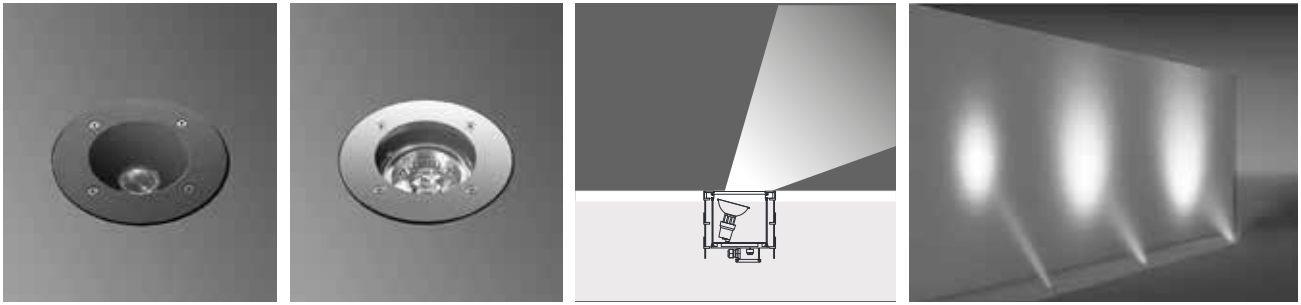
ASSOS 4 RECESSED DRIVE OVER FIXTURES

Load 15 kN | Class I IP67 IK10

Available in any of these RAL colors



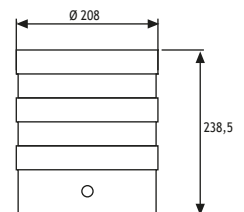
HALOGEN



HALOGEN PAR 16 35W / 50W (24° or 60°)

Lampholder : Gu 5.3 Fixed or Adjustable $\pm 30^\circ$
 Reflector : -
 Diffuser : Clear Glass
 Temp : 35W - 67°C
 50W - 80°C

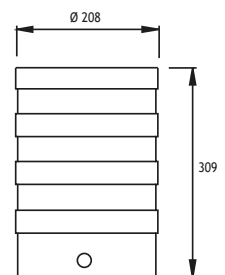
Alum. Code No 206181
 Inox (Stainless Steel) 207181



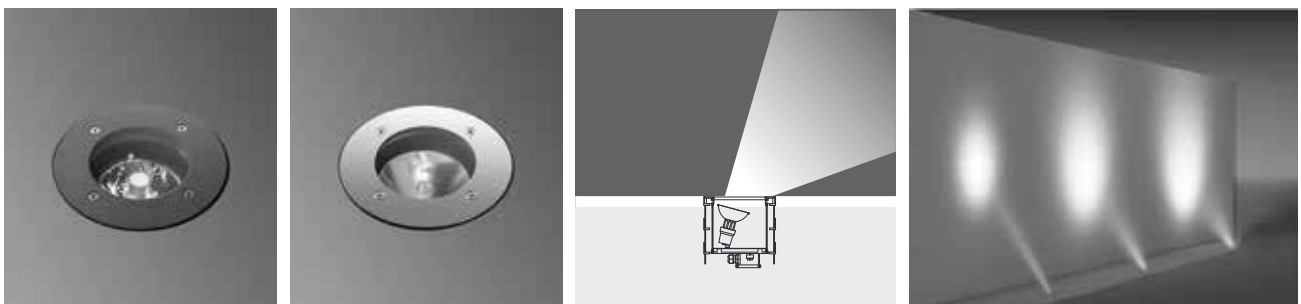
HALOGEN RJ 111 50W (4°, 8° or 24°)

Lampholder : G 53 Fixed or Adjustable $\pm 20^\circ$
 Reflector : -
 Diffuser : Clear Glass
 Temp : 130°C

Alum. Code No 221511
 Inox (Stainless Steel) 221521



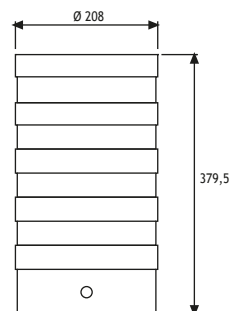
METAL HALIDE



METAL HALIDE CDMR 111 35W / 70W

Lampholder : G x 8.5 Fixed or Adjustable $\pm 15^\circ$
 Reflector : -
 Diffuser : Clear Glass
 Temp : 166°C

Alum. Code No 206271
 Inox (Stainless Steel) 207271



METAL HALIDE 35W / 70W / 150W

Lampholder : G12 Fixed or Adjustable $\pm 20^\circ$
 Reflector : 30°, 42°
 Diffuser : Clear Glass
 Temp : 35W - 99°C
 70W - 144°C
 150W - 238°C

Alum. Code No 206241
 Inox (Stainless Steel) 207241



ASSOS 6 RECESSED DRIVE OVER FIXTURES

Load 15 kN | Class I IP67 IK10

EMFA's Assos 6 series is specially designed to light facades, columns, monuments and trees. The fixture can be equipped with metal halide, halogen or fluorescent lamps. The fixture is made of a combination of 316L stainless steel and die cast aluminium, which allows for IP67 and IK10 and a load of 15kN. The fixture comes with a polyamide recessing tube for easy mounting in the ground or concrete. A louvre can be ordered separately to reduce the glare of the lamps. An anti-slip glass is available upon request.

Cover

316L Stainless steel

Body

Die cast aluminium or aluminium profile with die cast aluminium bottom and connection box.

Gaskets

Silicone

Diffusers

15 mm Tempered Glass (Aluminium Cover)

Screws

316L Stainless steel

Glands

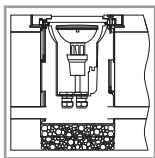
2 x PG 13.5

Recessing Tube

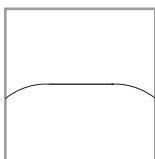
Polyamide 6



Mounting Features

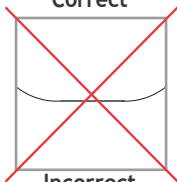


Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture. To make the fixture drive over, the recessing tube should be mounted flush to the ground.



Correct

When mounting the fixture on uneven surfaces, place so that the water does not accumulate on the surface of the fixture.



Incorrect



Anti-slip Glass

Please contact for this option.

Accessories:



Louvre

To avoid glare. Can be applied to all lamp types except Halogen PAR 30 and 38

Code No 955105



Dichroic Color Glass Filter

Can be applied to all lamp types except Halogen PAR 38.

Code No 955101 - Blue

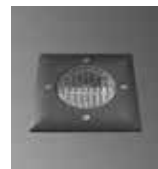
Code No 955102 - Red

Code No 955103 - Yellow

Code No 955104 - Green

Caution:

The louvre and filter cannot be applied to the standard fixture. These options should be mentioned when ordering.



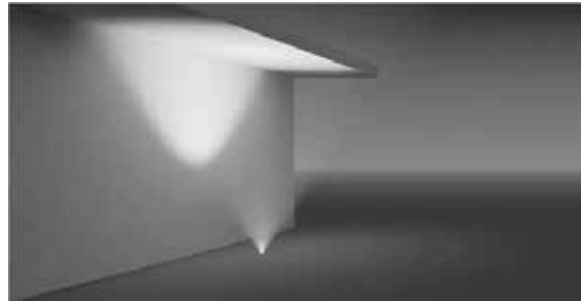
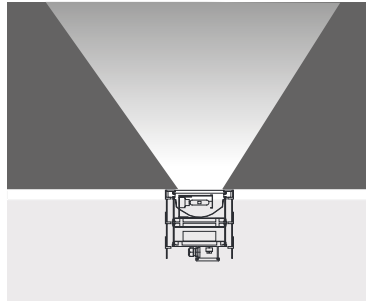
Square Version:

All fixtures are available with a square cover with dimensions 220 x 220 mm. Please indicate square version when ordering.

ASSOS 6

RECESSED DRIVE OVER FIXTURES Load 15 kN | Class I IP67 IK10

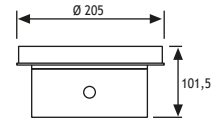
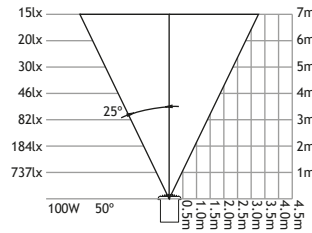
HALOGEN or FLUO.



HALOGEN LINEAR 60W

- Lampholder : R7s fixed
- Reflector : 50°C
- Diffuser : Frosted Glass
- Temp : 100°C

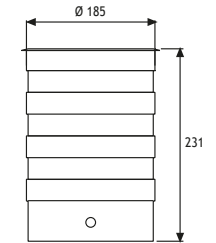
Inox (Stainless Steel) Code No 212101



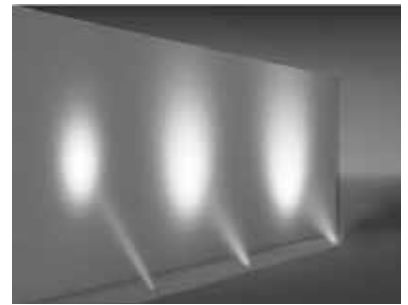
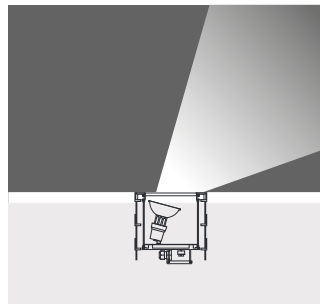
ELECTRONIC FLUO. 23W

- Lampholder : E27 fixed
- Reflector : 80°C
- Diffuser : Frosted Glass
- Temp : 43°C

Inox (Stainless Steel) Code No 212111



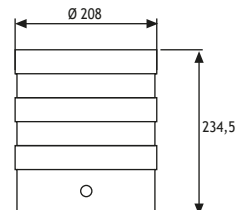
HALOGEN



HALOGEN PAR 16 35W / 50W (24° or 60°)

- Lampholder : Gu 5.3 Fixed or Adjustable ± 30°
- Reflector : -
- Diffuser : Clear Glass
- Temp : 35W - 67°C
50W - 80°C

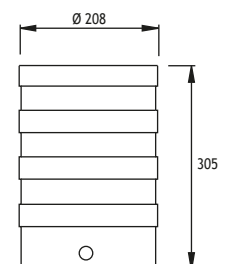
Inox (Stainless Steel) Code No 212181



HALOGEN RJ111 50W (4°, 8° or 24°)

- Lampholder : G 53 Fixed or Adjustable ± 20°
- Reflector : -
- Diffuser : Clear Glass
- Temp : 130°C

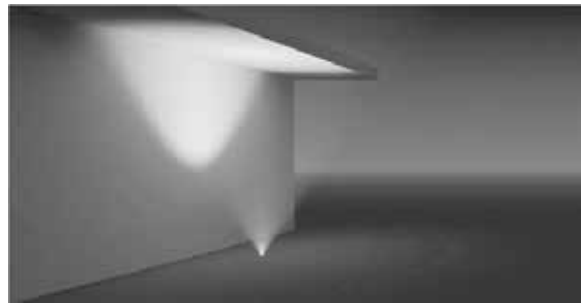
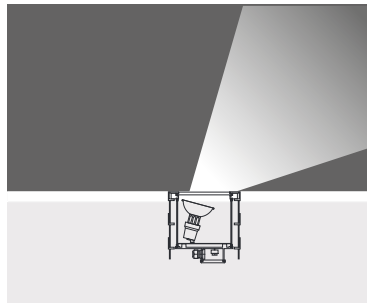
Inox (Stainless Steel) Code No 212591



ASSOS 6 RECESSED DRIVE OVER FIXTURES

Load 15 kN | Class I IP67 IK10

HALOGEN

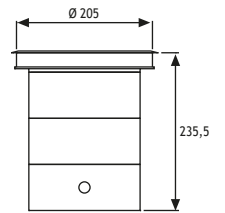
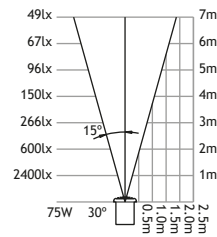


HALOGEN PAR 30 / 75W

Lampholder : E27 fixed
 Reflector : -
 Diffuser : Clear Glass
 Temp : 129°C

Inox (Stainless Steel)

Code No
 212131

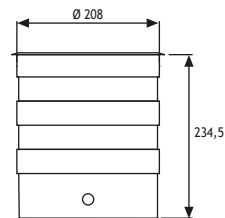


HALOGEN PAR 30 / 75W

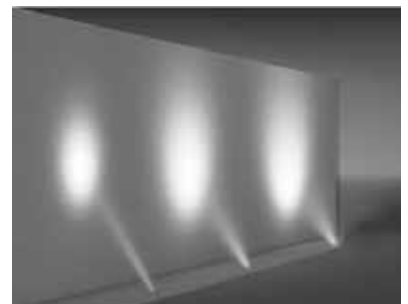
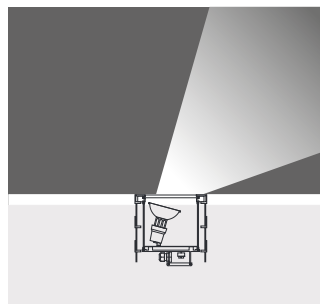
Lampholder : E27 Adjustable $\pm 20^\circ$
 Reflector : -
 Diffuser : Clear Glass
 Temp : 129°C

Inox (Stainless Steel)

Code No
 221391



METAL HALIDE

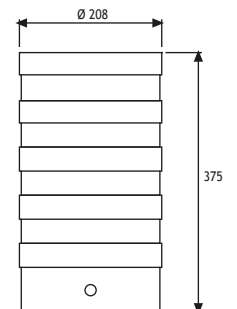


METAL HALIDE CDMR 111 35W / 70W

Lampholder : G x 8.5 Fixed or Adjustable $\pm 15^\circ$
 Reflector : -
 Diffuser : Clear Glass
 Temp : 166°C

Inox (Stainless Steel)

Code No
 212271

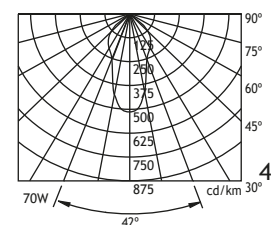
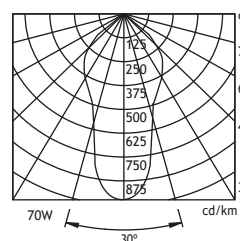


METAL HALIDE 35W / 70W / 150W

Lampholder : G12 Fixed or Adjustable $\pm 20^\circ$
 Reflector : 30°, 42°
 Diffuser : Clear Glass
 Temp : 35W - 99°C
 70W - 144°C
 150W - 238°C

Inox (Stainless Steel)

Code No
 212241



EMFA

 Walk Over



MIRA 5 RECESSED WALK OVER FIXTURES

Load 20 kN | Class I IP67 IK10

The Mira series consists of a range of LED sources to deliver the desired light effect to facades, columns, bridges, monuments, and signs. The series is made of a die cast aluminium body with electrostatic powder paint finished with a 316L stainless steel cover. The recessed versions are for Walk over up to 20 kN including a stainless steel recessing box. The surface mounted versions come with a heavy-duty 316L stainless steel bracket. The fixtures come with integrated electronic ballasts and a specially developed potted power cable to effectively bond with the cast resin and stop any water ingress. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.

Cover

316L Stainless steel

Body

Die cast aluminium

Diffusers

12 mm Tempered Glass

Gaskets

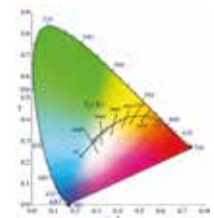
Silicone

Screws

316L Stainless Steel

Recessing Box

Stainless steel



“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

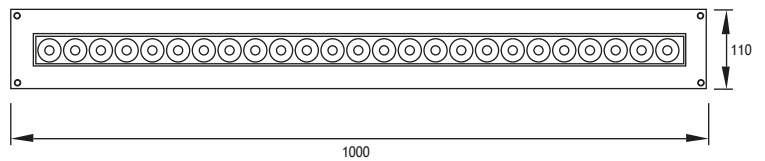
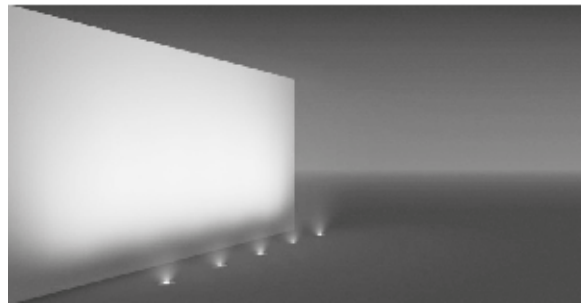
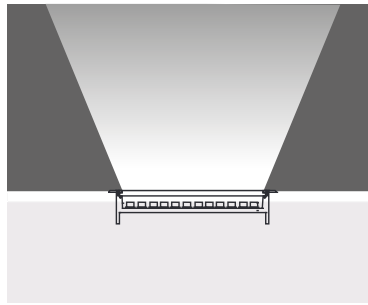
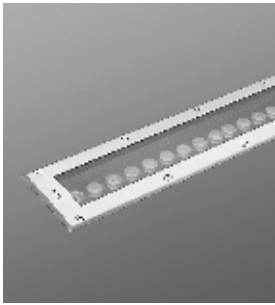
Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

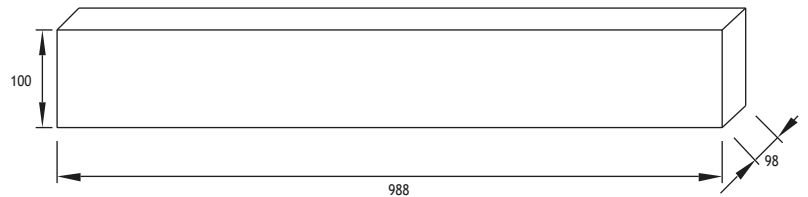
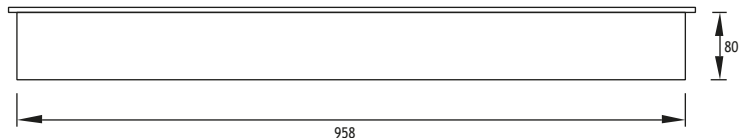
MIRA 5 RECESSED WALK OVER FIXTURES

Load 20 kN | Class I IP67 IK10

SYMMETRICAL LED



- Voltage** : 240V AC with integrated driver
(24V AC or DC on request)
for RGB "240V AC with remote driver"
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 12 mm
(Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

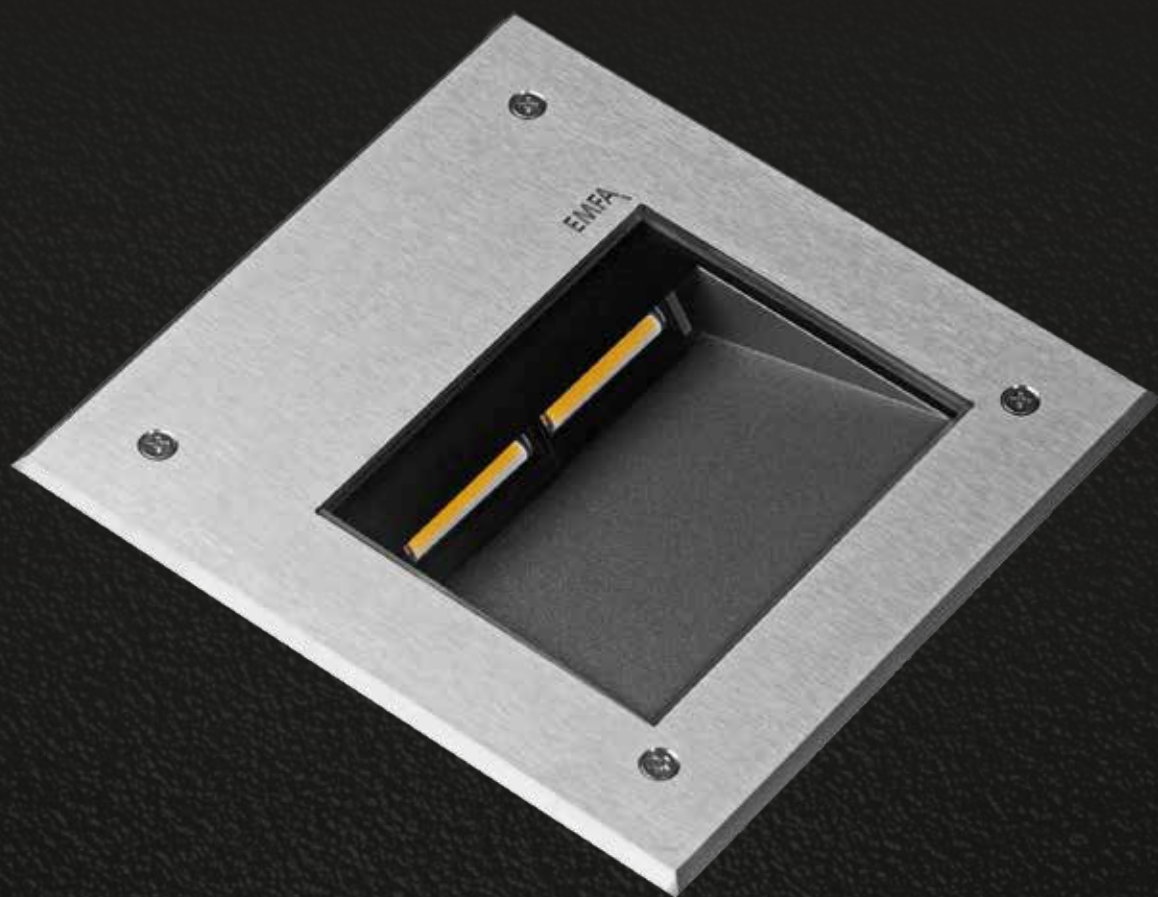


Recessing Box

24 x 350 mA (24 W) LED		Total Lighting Output	Code No
☀ Warm White	3300 K	2040 lm	440201
☁ Natural White	4500 K	2040 lm	440202
☀ Cool White	6000 K	2244 lm	440203
🟦 Blue			440204
🟥 Red			440205
🟡 Amber			440206
🟢 Green			440207

24 x 700 mA (48 W) LED		Total Lighting Output	Code No
☀ Warm White	3300 K	3848 lm	440211
☁ Natural White	4500 K	3848 lm	440212
☀ Cool White	6000 K	4232 lm	440213
🟦 Blue			440214
🟥 Red			440215
🟡 Amber			440216
🟢 Green			440217

RGB LED 48W		Code No
🟥 🟢 🟦	RGB	440218



EMFA

MILET ANI RECESSED WALK OVER FIXTURES

Load 2 kN | Class I IP67 IK10

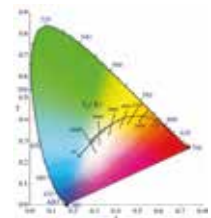
EMFA's Ani step mounted series is specially designed to deliver low-glare lighting to facades, columns, monuments, and trees with minimal installation depth and narrow trim. The fixture is made of a combination of 316L stainless steel and die cast aluminium. The tilted design reduces the glare of the LED's. The Linear LEDs with special lenses gives excellent wallwashing effect. An anti-slip glass is available upon request.

- Cover**
316L Stainless steel
- Body**
Die cast aluminium
- Gaskets**
Silicone
- Diffusers**
8 mm Tempered Glass
- Screws**
316L Stainless Steel

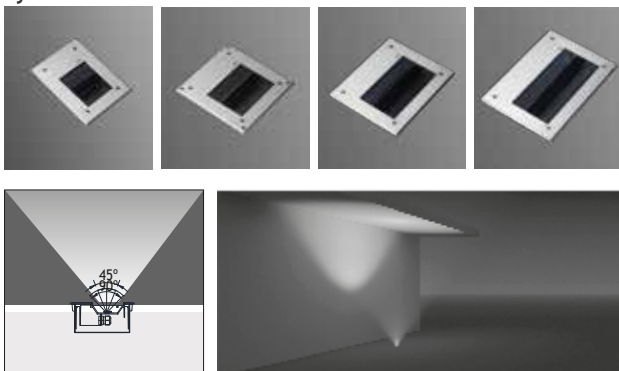


“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



Symmetrical



Galvanized Recessing Box

LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 100lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

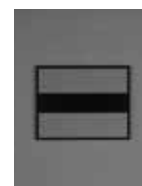
Asymmetrical



Asym. Glass



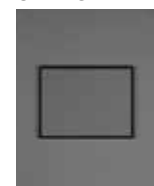
Trenched Glass



Milky Glass



Clear Glass

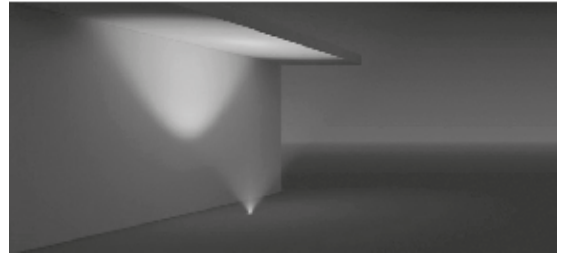
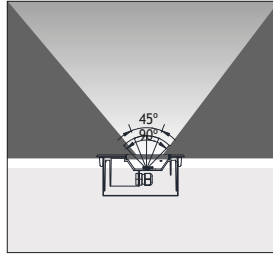


ANI RECESSED WALK OVER FIXTURES

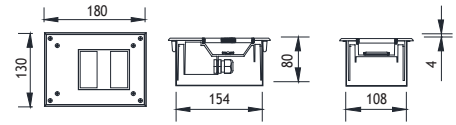
Load 2 kN | Class I IP67 IK10

Symmetrical

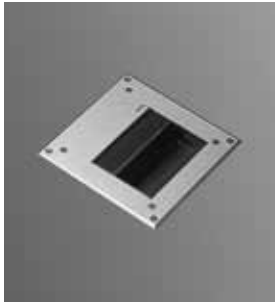
- Led : Linear LEDs
- Voltage : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser : 8mm Tempered Glass
- Beam Angle : 45° / 60° / 90°
- Mac Adam : 3
- CRI : >80
- L.O.R % : %70



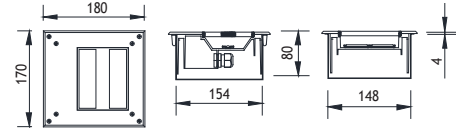
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	450001	3000 K	600 lm	850 lm
12W	450011	3000 K	1020 lm	1460 lm
6W	450002	4000 K	690 lm	977 lm
12W	450012	4000 K	1173 lm	1679 lm



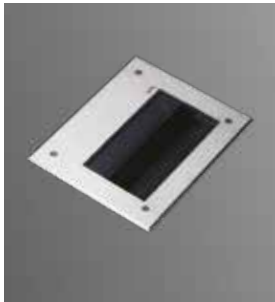
Galvanized Recessing Box



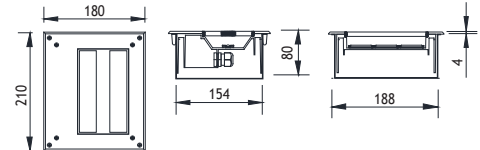
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
12W	450101	3000 K	1020 lm	1460 lm
24W	450111	3000 K	1780 lm	2550 lm
12W	450102	4000 K	1173 lm	1679 lm
24W	450112	4000 K	2047 lm	2932 lm



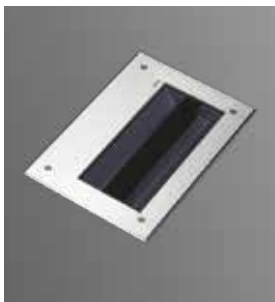
Galvanized Recessing Box



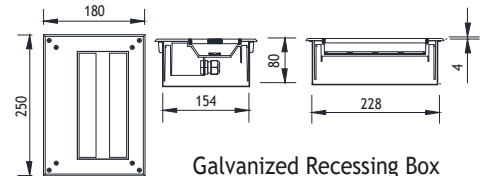
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
18W	450201	3000 K	1200 lm	1700 lm
36W	450211	3000 K	2300 lm	3300 lm
18W	450202	4000 K	1380 lm	1955 lm
36W	450212	4000 K	2645 lm	2932 lm



Galvanized Recessing Box



Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	450301	3000 K	1780 lm	2550 lm
48W	450311	3000 K	3080 lm	4300 lm
24W	450302	4000 K	2047 lm	2932 lm
48W	450312	4000 K	3542 lm	5060 lm



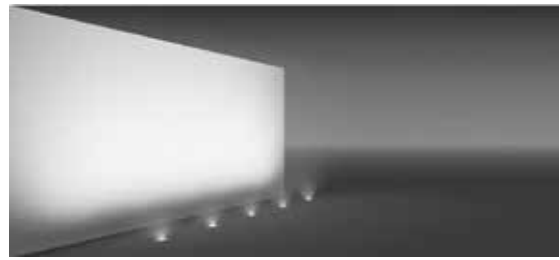
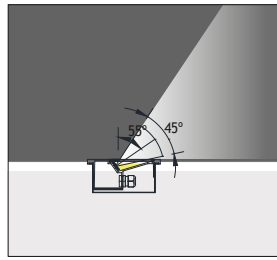
Galvanized Recessing Box

ANI RECESSED WALK OVER FIXTURES

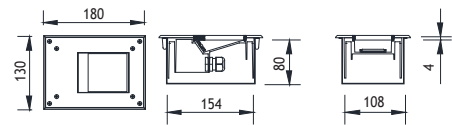
Load 2 kN | Class I IP67 IK10

Asymmetrical

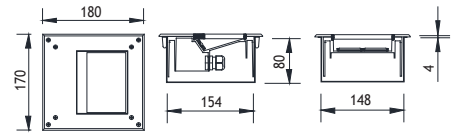
- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 8mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : 80
- L.O.R %** : %70



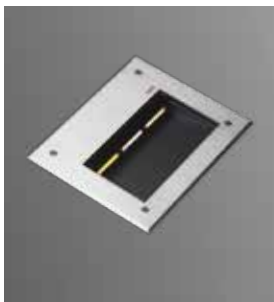
ANI 1			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
6W	451501	3000 K	600 lm	850 lm
12W	451511	3000 K	1020 lm	1460 lm
6W	451502	4000 K	690 lm	977 lm
12W	451512	4000 K	1173 lm	1679 lm



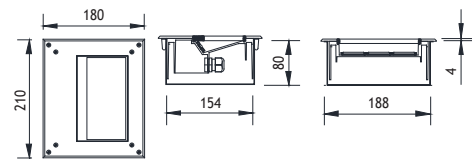
ANI 2			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
12W	451601	3000 K	1020 lm	1460 lm
24W	451611	3000 K	1780 lm	2550 lm
12W	451602	4000 K	1173 lm	1679 lm
24W	451612	4000 K	2047 lm	2932 lm



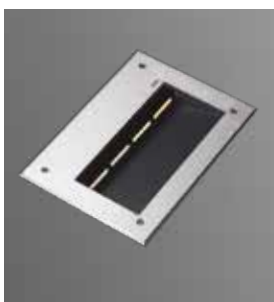
Galvanized Recessing Box



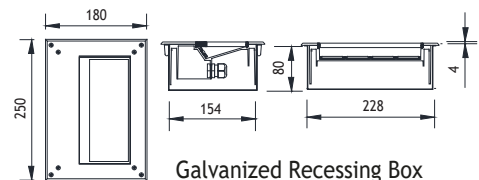
ANI 3			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
18W	451701	3000 K	1200 lm	1700 lm
36W	451711	3000 K	2300 lm	3300 lm
18W	451702	4000 K	1380 lm	1955 lm
36W	451712	4000 K	2645 lm	2932 lm



Galvanized Recessing Box



ANI 4			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
24W	451801	3000 K	1780 lm	2550 lm
48W	451811	3000 K	3080 lm	4300 lm
24W	451802	4000 K	2047 lm	2932 lm
48W	451812	4000 K	3542 lm	5060 lm



Galvanized Recessing Box

ASSOS 6 RECESSED WALK OVER FIXTURES

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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EMFA's Assos 6 Alum series is specially designed to light trees and bushes where drive over is not required. The fixture can be equipped with metal halide, halogen or fluorescent lamps. The fixture is made of die cast aluminium and allows for allows for IP67 and IK10. The fixture comes with a polyamide recessing tube for easy mounting in the ground or concrete. A louvre can be ordered separately to reduce the glare of the lamps. An anti-slip glass is available upon request.

Cover

Die cast aluminium

Body

Die cast aluminium or aluminium profile with die cast aluminium bottom and connection box.

Gaskets

Silicone

Diffusers

15 mm Tempered Glass (Aluminium Cover)

Screws

316L Stainless steel

Glands

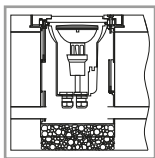
2 x PG 13.5

Recessing Tube

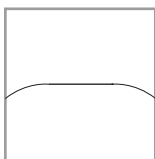
Polyamide 6



Mounting Features

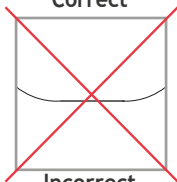


Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture. To make the fixture drive over, the recessing tube should be mounted flush to the ground.



Correct

When mounting the fixture on uneven surfaces, place so that the water does not accumulate on the surface of the fixture.



Incorrect



Anti-slip Glass

Please contact for this option.

Accessories:



Louvre

To avoid glare. Can be applied to all lamp types except Halogen PAR 30 and 38

Code No 955105



Dichroic Color Glass Filter

Can be applied to all lamp types except Halogen PAR 38.

Code No 955101 - Blue

Code No 955102 - Red

Code No 955103 - Yellow

Code No 955104 - Green

Caution:

The louvre and filter cannot be applied to the standard fixture. These options should be mentioned when ordering.



Square Version:

All fixtures are available with a square cover with dimensions 200 x 200 mm. Please indicate square version when ordering.

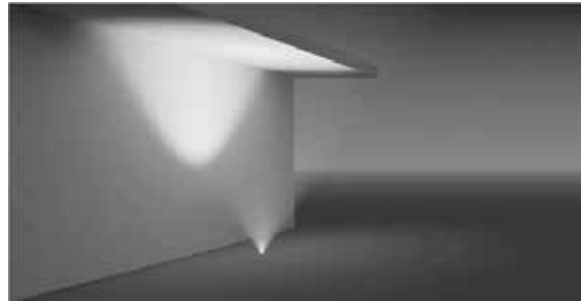
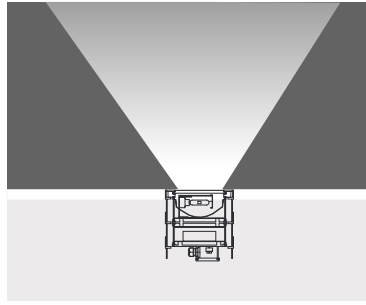
ASSOS 6 RECESSED WALK OVER FIXTURES

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

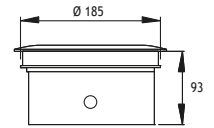
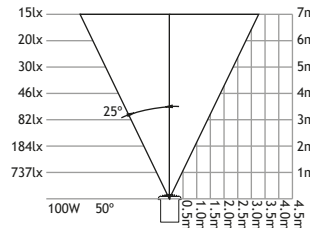
HALOGEN or FLUO.



HALOGEN LINEAR 60W

Lampholder : R7s fixed
 Reflector : 50°C
 Diffuser : Frosted Glass
 Temp : 100°C

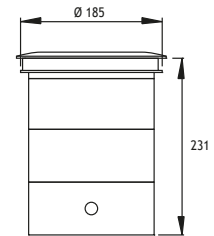
Alum. Code No 211101



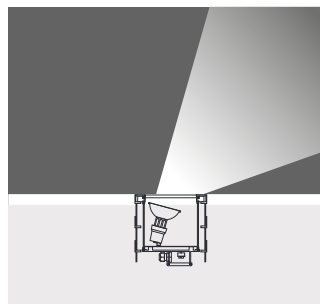
ELECTRONIC FLUO. 23W

Lampholder : E27 fixed
 Reflector : 80°C
 Diffuser : Frosted Glass
 Temp : 43°C

Alum. Code No 212281



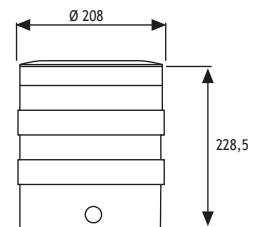
HALOGEN



HALOGEN PAR 16 35W / 50W (24° or 60°)

Lampholder : Gu 5.3 Fixed or Adjustable $\pm 30^\circ$
 Reflector : -
 Diffuser : Clear Glass
 Temp : 35W - 67°C
 50W - 80°C

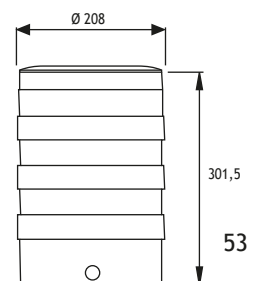
Alum. Code No 211181



HALOGEN RJ 111 50W (4°, 8° or 24°)

Lampholder : Gu 5.3 Fixed or Adjustable $\pm 20^\circ$
 Reflector : -
 Diffuser : Clear Glass
 Temp : 130°C

Alum. Code No 221561



EMFA

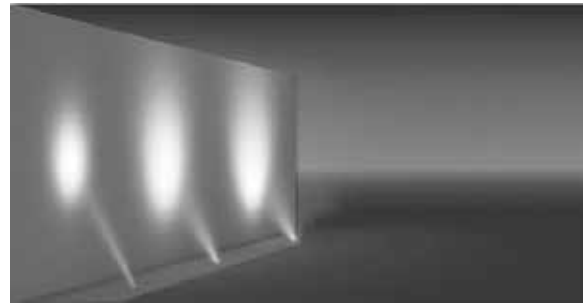
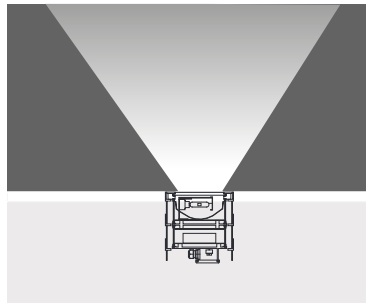
ASSOS 6 RECESSED WALK OVER FIXTURES

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

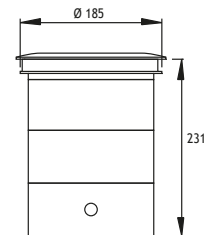
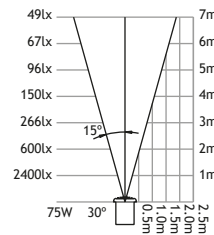
HALOGEN



INCANDESCENT 60 / 100W

Lampholder : E27 fixed
 Reflector : 80°C
 Diffuser : Frosted Glass
 Temp : 60W - 117°C
 100W - 170°C

Alum. Code No 211111



HALOGEN PAR 30 75W

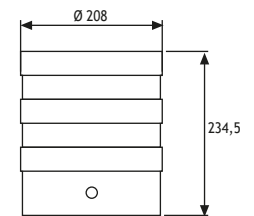
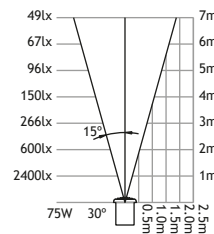
Lampholder : E27 fixed
 Reflector : -
 Diffuser : Clear Glass
 Temp : 129°C

Alum. Code No 211131

HALOGEN PAR 30 75W

Lampholder : E27 Adjustable ± 20°
 Reflector : -
 Diffuser : Clear Glass
 Temp : 129°C

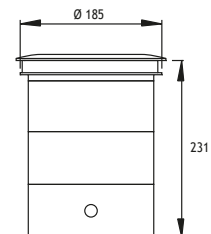
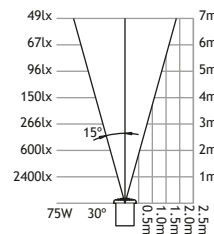
Alum. Code No 211361



HALOGEN PAR 38 100W 30°

Lampholder : E27 Loose
 Reflector : -
 Diffuser : Clear Glass
 Temp : 197°C

Alum. Code No 211141



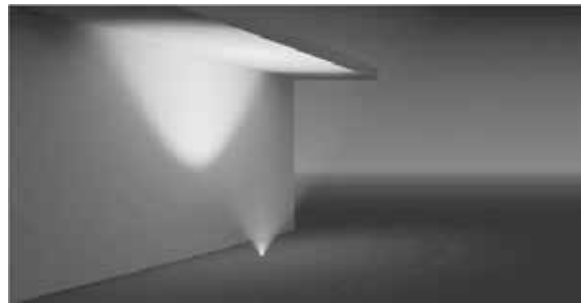
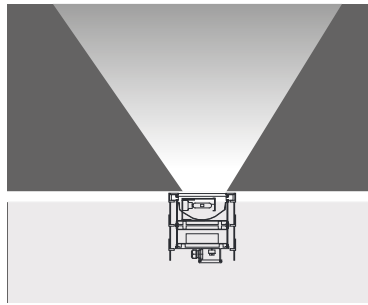
ASSOS 6 RECESSED WALK OVER FIXTURES

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

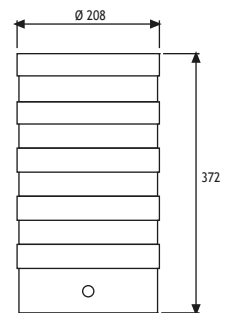
METAL HALIDE



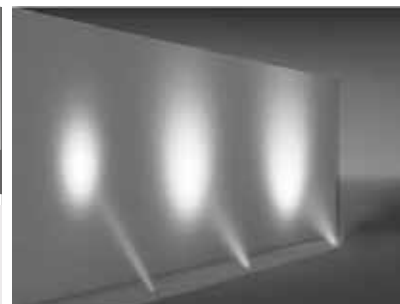
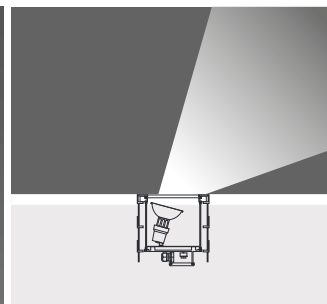
METAL HALIDE 70W

Lampholder : Rx7s-24 Fixed
 Reflector : 80°C
 Diffuser : Clear Glass
 Temp : 115°C

Alum. Code No 212261



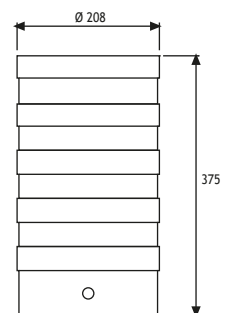
METAL HALIDE



METAL HALIDE CDMR 111 35W / 70W

Lampholder : Gx8.5 Fixed or Adjustable ± 15°
 Reflector : -
 Diffuser : Clear Glass
 Temp : 166°C

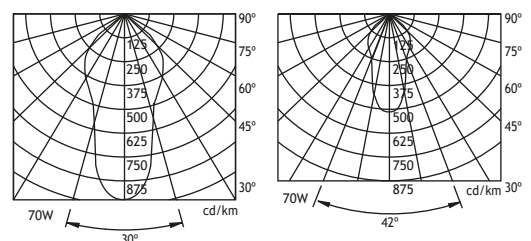
Alum. Code No 211271



METAL HALIDE 35W / 70W / 150W

Lampholder : G12 Fixed or Adjustable ± 20°
 Reflector : 30°, 42°
 Diffuser : Clear Glass
 Temp : 35W - 99°C
 70W - 144°C
 150W - 238°C

Alum. Code No 211241



EMFA

MILET RECESSED WALK OVER FIXTURES

Load 7.5 kN | IP67 IK10

The Milet Recessed series consists of a range of LED and halogen sources to deliver the desired light effect to facades, columns, bridges, monuments, and trees. The fixtures are made of a combination of a 316L stainless steel cover and die cast aluminium body painted with electrostatic powder paint. Tempered glass, silicone gaskets and cast resin complete the fixture to make it IP67 IK10 and withstand rough environments. For the LED versions, a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. For the halogen versions, a PG9 cable gland allows for a secure connection of the on-site cable. A polycarbonate recessing box is included for installation into concrete or the ground. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.

Asymmetric LEDs

In this catalogue EMFA is introducing the tilted LED fixtures. These fixtures give an asymmetrical light output to facades, columns, bridges, monuments, and trees without losing light to the sky. The die cast aluminium body has a fixed built in tilt to allow for proper heat dissipation of the LEDs that can run up to 350mA.

Cover

316L Stainless Steel

Body

Die cast aluminium

Recessing Box

Polycarbonate

Glands

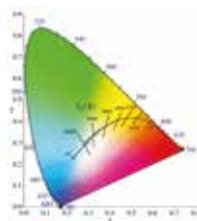
1 x PG 9

Gaskets

Silicone

Diffusers

12 mm Tempered Glass



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted to the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

AntiStheft Screws



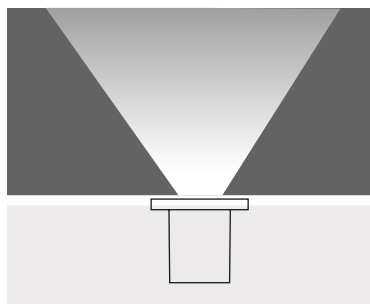
MILET RECESSED WALK OVER FIXTURES

Load 7.5 kN | IP67 IK10

Available in any of these RAL colors



MILET 2



HALOGEN 12V 20-35W (10° or 38°)

Code No
316101

Lampholder : Gu4

Reflector : -

Diffuser : Clear Glass

Class III

HALOGEN 240V 40W

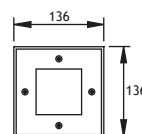
Code No
316121

Lampholder : G9

Reflector : 40°

Diffuser : Frosted Glass

Class I



HALOGEN 12V 35W (10° or 38° or 60°)

Code No
316111

Lampholder : Gu 5.3

Reflector : -

Diffuser : Clear Glass

Class III

HALOGEN 240V 50W (25° or 50°)

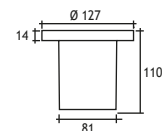
Code No
316131

Lampholder : Gu10

Reflector : -

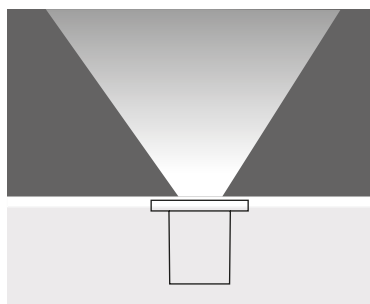
Diffuser : Clear Glass

Class I



Recessing Tube

MILET 4



HALOGEN 12V 20-35W (10° or 38°)

Code No
317101

Lampholder : Gu4

Reflector : -

Diffuser : Clear Glass

Class III

HALOGEN 240V 40W

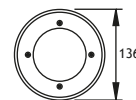
Code No
317121

Lampholder : G9

Reflector : 40°

Diffuser : Frosted Glass

Class I



HALOGEN 12V 35W (10° or 38° or 60°)

Code No
317111

Lampholder : Gu 5.3

Reflector : -

Diffuser : Clear Glass

Class III

HALOGEN 240V 50W (25° or 50°)

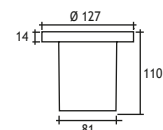
Code No
317131

Lampholder : Gu10

Reflector : -

Diffuser : Clear Glass

Class I



Recessing Tube

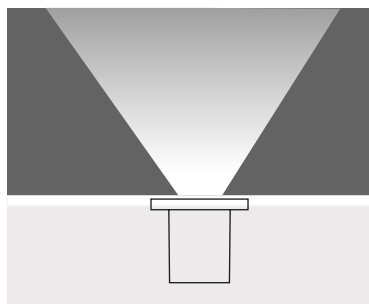
MILET RECESSED WALK OVER FIXTURES

Load 7.5 kN | IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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MILET 4 FLUSH MOUNTED



HALOGEN 12V 20-35W (10° or 38°)

Code No
318101

Lampholder : Gu4
Reflector : -
Diffuser : Clear Glass
Class III

HALOGEN 240V 40W

Code No
318121

Lampholder : G9
Reflector : 40°
Diffuser : Frosted Glass
Class I



HALOGEN 12V 35W (10° or 38° or 60°)

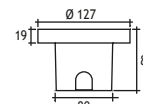
Code No
318111

Lampholder : Gu 5.3
Reflector : -
Diffuser : Clear Glass
Class III

HALOGEN 240V 50W (25° or 50°)

Code No
318131

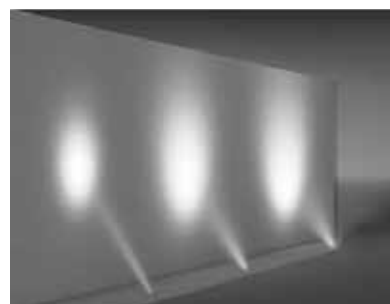
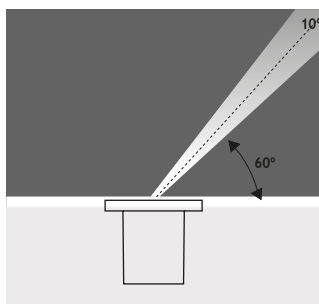
Lampholder : Gu10
Reflector : -
Diffuser : Clear Glass
Class I



Recessing Tube

MILET 5 STEP MOUNTED

MILET 5 FLUSH MOUNTED

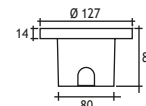
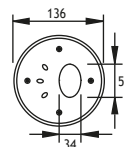


HALOGEN 12V 20W (10°)

Step Mounted

Code No
319101

Lampholder : Gu4
Reflector : -
Diffuser : Clear Glass
Class III

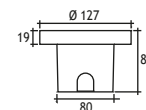
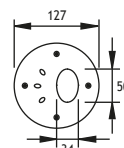


HALOGEN 12V 20W (10°)

Flush Mounted

Code No
319201

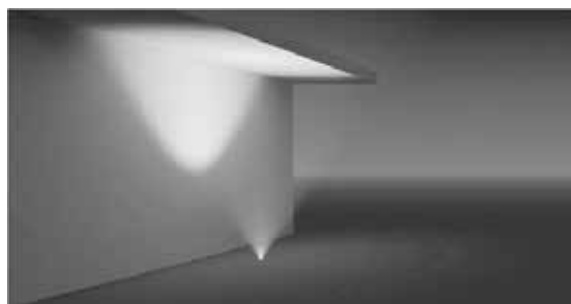
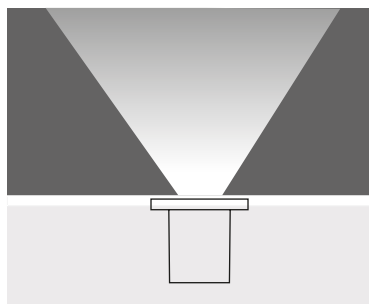
Lampholder : Gu4
Reflector : -
Diffuser : Clear Glass
Class III



MILET RECESSED WALK OVER LED FIXTURES

Load 7.5 kN | IP67 IK10

MILET 2 LED

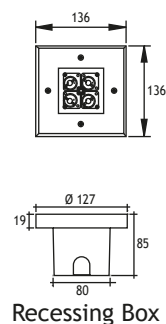


4 x 350 mA (4W) LED

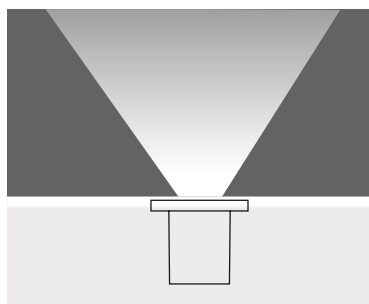
- Voltage** : 240V A.C with integrated driver
(12V AC or DC, 24V AC or DC on request)
- Lens** : 25° (10°, 15°, 40°, 6 x 25 elliptic on request)
- Diffuser** : 8 mm Tempered Glass
(Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

- ☀ Warm White 3000 K
- ☀ Natural White 4500 K
- ☀ Cool White 6000 K
- 🔵 Blue
- 🔴 Red
- 🟡 Amber
- 🟢 Green

Total Lighting Output	Code No
340 lm	425211
340 lm	425216
408 lm	425217
	425212
	425213
	425214
	425215



MILET 4 LED

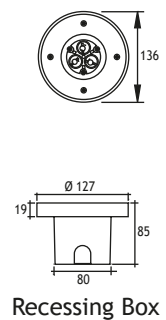


3 x 350 mA (3W) LED

- Voltage** : 240V A.C with integrated driver
(12V AC or DC, 24V AC or DC on request)
- Lens** : 25° (10°, 15°, 40°, 6 x 25 elliptic on request)
- Diffuser** : 8 mm Tempered Glass
(Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

- ☀ Warm White 3000 K
- ☀ Natural White 4500 K
- ☀ Cool White 6000 K
- 🔵 Blue
- 🔴 Red
- 🟡 Amber
- 🟢 Green

Total Lighting Output	Code No
225 lm	425201
225 lm	425206
270 lm	425207
	425202
	425203
	425204
	425205



BELKIS RECESSED FIXTURES

IP67 IK10

The Belkis Recessed series consists of a range of LED, fluorescent and halogen sources to deliver the desired light effect to facades, columns, bridges, monuments, and trees. The fixtures are made of a combination of a 316L stainless steel cover and die cast aluminium body painted with electrostatic powder paint. Tempered glass, silicone gaskets and cast resin complete the fixture to make it IP67 IK10 and withstand rough environments. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The fixtures come with an aluminium recessing tube for easy mounting in the ground or concrete. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired light effect.

Asymmetrical LEDs

These fixtures give an asymmetrical light output to facades, columns, bridges, monuments, and trees without losing light to the sky. The die cast aluminium body has a fixed built in tilt to allow for proper heat dissipation of the LEDs that can run up to 700mA.

Cover

316L Stainless steel

Body

Die cast aluminium

Recessing Box

Aluminium

Gaskets

Silicone

Diffusers

Tempered Glass

Screws

316L Stainless steel

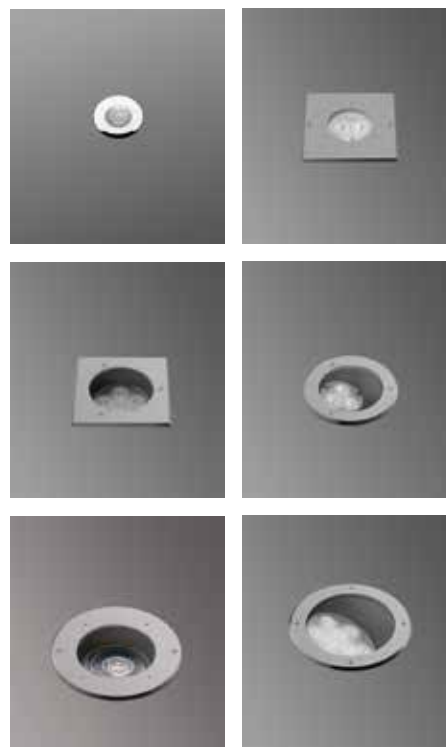
“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



Honeycomb Louvre

	Code No
Belkis 1	953521
Belkis 2	953522
Belkis 3	953523
Belkis 4	953524
Belkis 5	953525



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

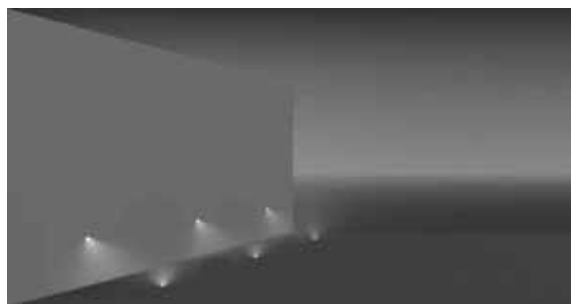
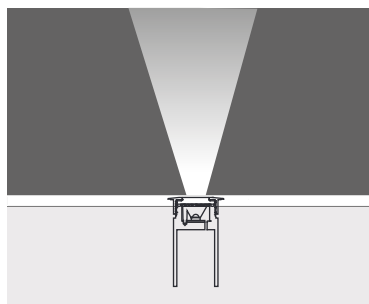
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.








BELKIS MINI

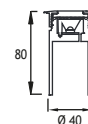
RECESSED LED FIXTURES

Class I IP67 IK10

Symmetrical



1 x 350 mA (1 W) LED		Total Lighting Output	Code No
	Warm White	3000 K 85 lm	391001
	Natural White	4500 K 85 lm	391002
	Cool White	6000 K 102 lm	391003
	Blue		391004
	Red		391005
	Amber		391006
	Green		391007



- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

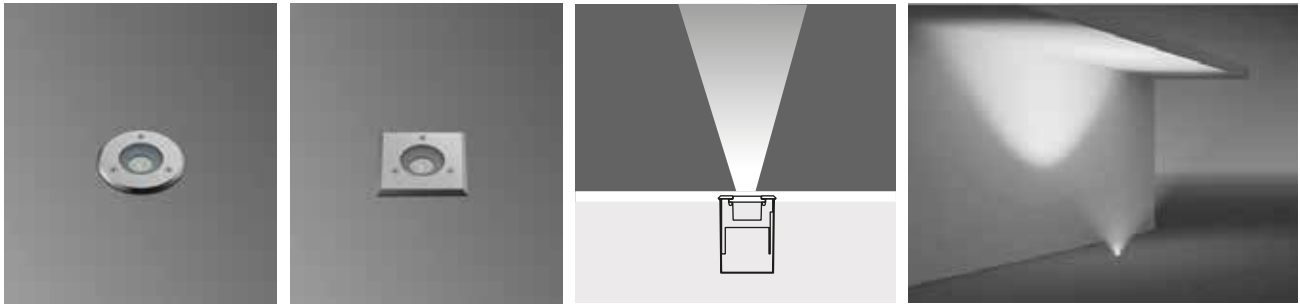


BELKIS 1 RECESSED LED FIXTURES

Class I IP67 IK10

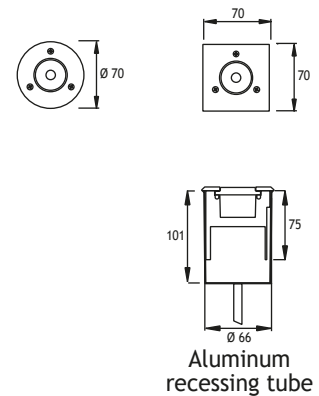
Symmetrical

BELKIS 1 Fix to Recessing Tube with Silicone



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

		Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀ Warm White	3000 K	85 lm	225 lm	425191	425291	405501	405511
☁ Natural White	4500 K	85 lm	225 lm	425196	425296	405502	405512
☀ Cool White	6000 K	102 lm	270 lm	425197	425297	405503	405513
🌊 Blue				425192	425292	405504	405514
🔴 Red				425193	425293	405505	405515
🟡 Amber				425194	425294	405506	405516
🟢 Green				425195	425295	405507	405517



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

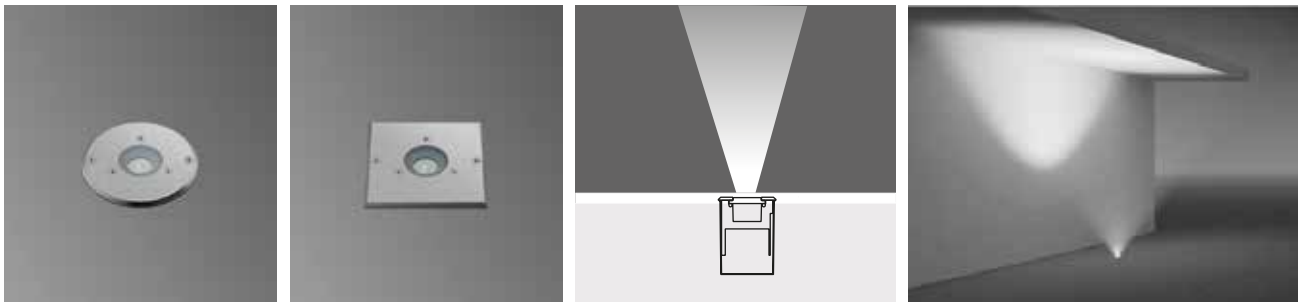
Lens : 10°, 25°, 40°

Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

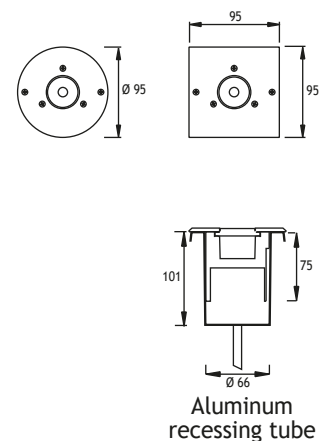
Symmetrical

BELKIS 1 Fix to Recessing Tube with Screws



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

		Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀ Warm White	3000 K	85 lm	225 lm	425181	425281	405521	405531
☁ Natural White	4500 K	85 lm	225 lm	425186	425286	405522	405532
☀ Cool White	6000 K	102 lm	270 lm	425187	425287	405523	405533
🌊 Blue				425182	425282	405524	405534
🔴 Red				425183	425283	405525	405535
🟡 Amber				425184	425284	405526	405536
🟢 Green				425185	425285	405527	405537



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)

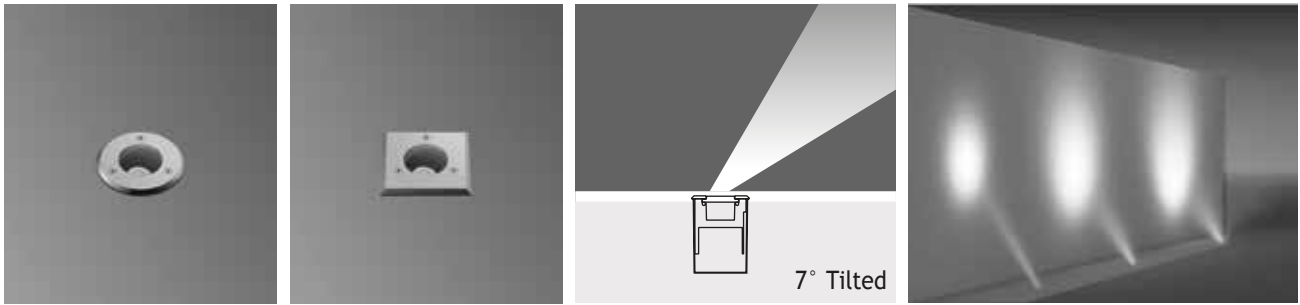
Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS 1 RECESSED LED FIXTURES

Class I IP67 IK10

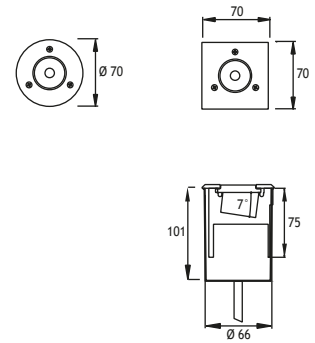
Asymmetrical 7° Tilted

BELKIS 1 Fix to Recessing Tube with Silicone



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

		Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀ Warm White	3000 K	85 lm	225 lm	405541	405551	405581	405591
☁ Natural White	4500 K	85 lm	225 lm	405542	405552	405582	405592
☀ Cool White	6000 K	102 lm	270 lm	405543	405553	405583	405593
🌊 Blue				405544	405554	405584	405594
🔴 Red				405545	405555	405585	405595
🟡 Amber				405546	405556	405586	405596
🟢 Green				405547	405557	405587	405597



Aluminum recessing tube

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

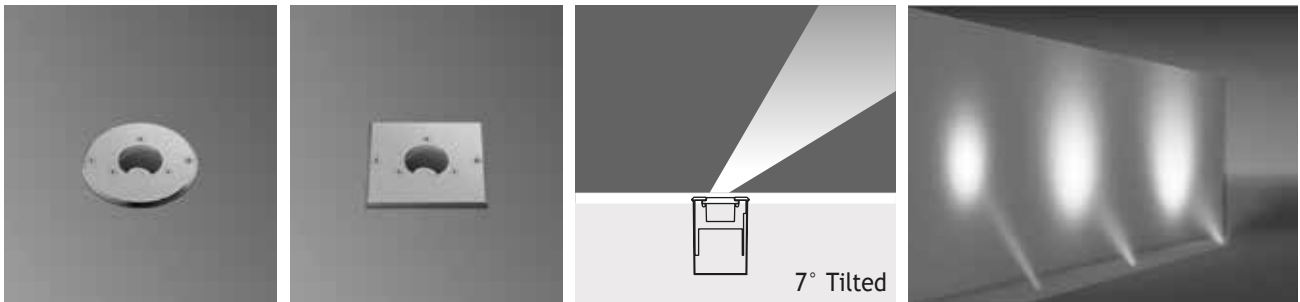
Lens : 10°, 25°, 40°

Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

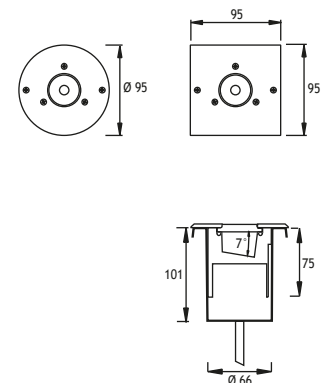
Asymmetrical 7° Tilted

BELKIS 1 Fix to Recessing Tube with Screws



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

		Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀ Warm White	3000 K	85 lm	225 lm	405561	405571	405601	405611
☁ Natural White	4500 K	85 lm	225 lm	405562	405572	405602	405612
☀ Cool White	6000 K	102 lm	270 lm	405563	405573	405603	405613
🌊 Blue				405564	405574	405604	405614
🔴 Red				405565	405575	405605	405615
🟡 Amber				405566	405576	405606	405616
🟢 Green				405567	405577	405607	405617



Aluminum recessing tube

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)

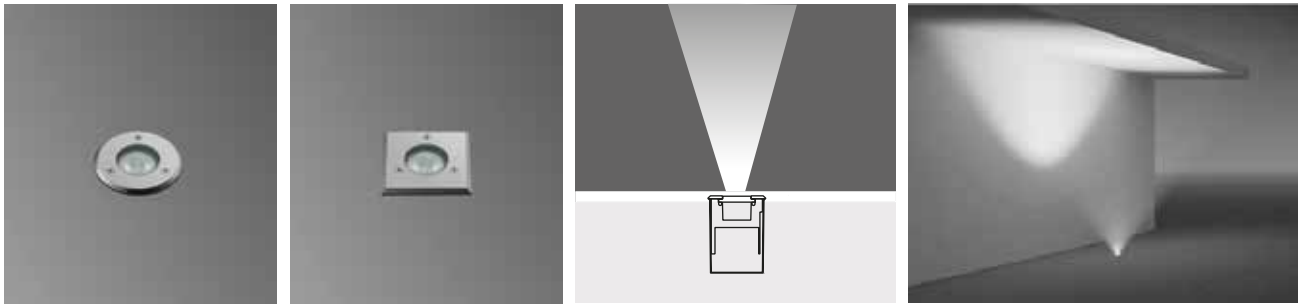
Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS 1 RECESSED HALOGEN FIXTURES

Load 5 kN | Class III IP67 IK10

Symmetrical

BELKIS 1 Fix to Recessing Tube with Silicone



HALOGEN 12V 20W (10° or 38°)

Lampholder : Gu4

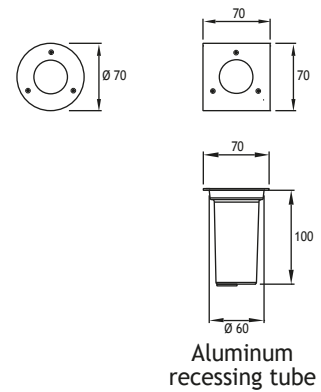
Reflector : -

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Transformer is not included.

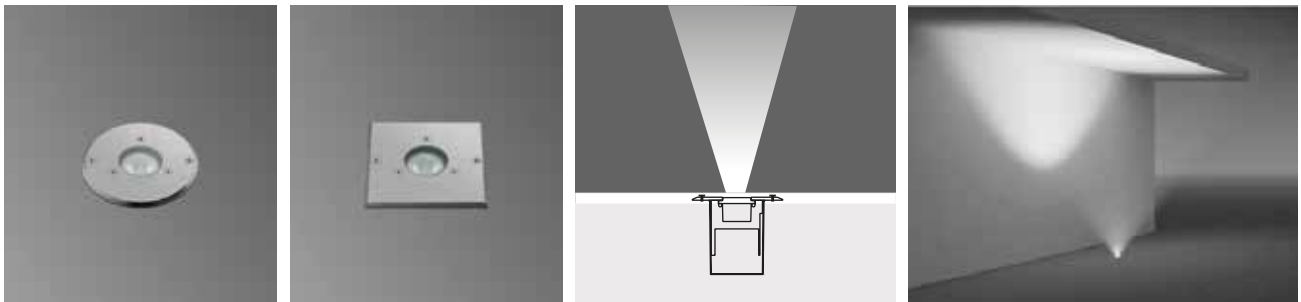
Remote transformer should be used.

Code No	
Round	Square
320101	320201



Symmetrical

BELKIS 1 Fix to Recessing Tube with Screws



HALOGEN 12V 20W (10° or 38°)

Lampholder : Gu4

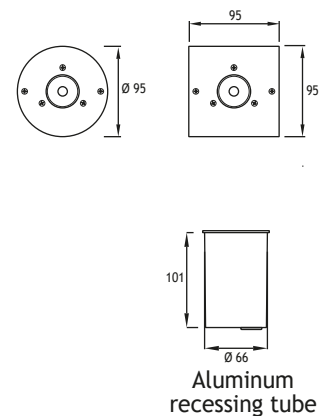
Reflector : -

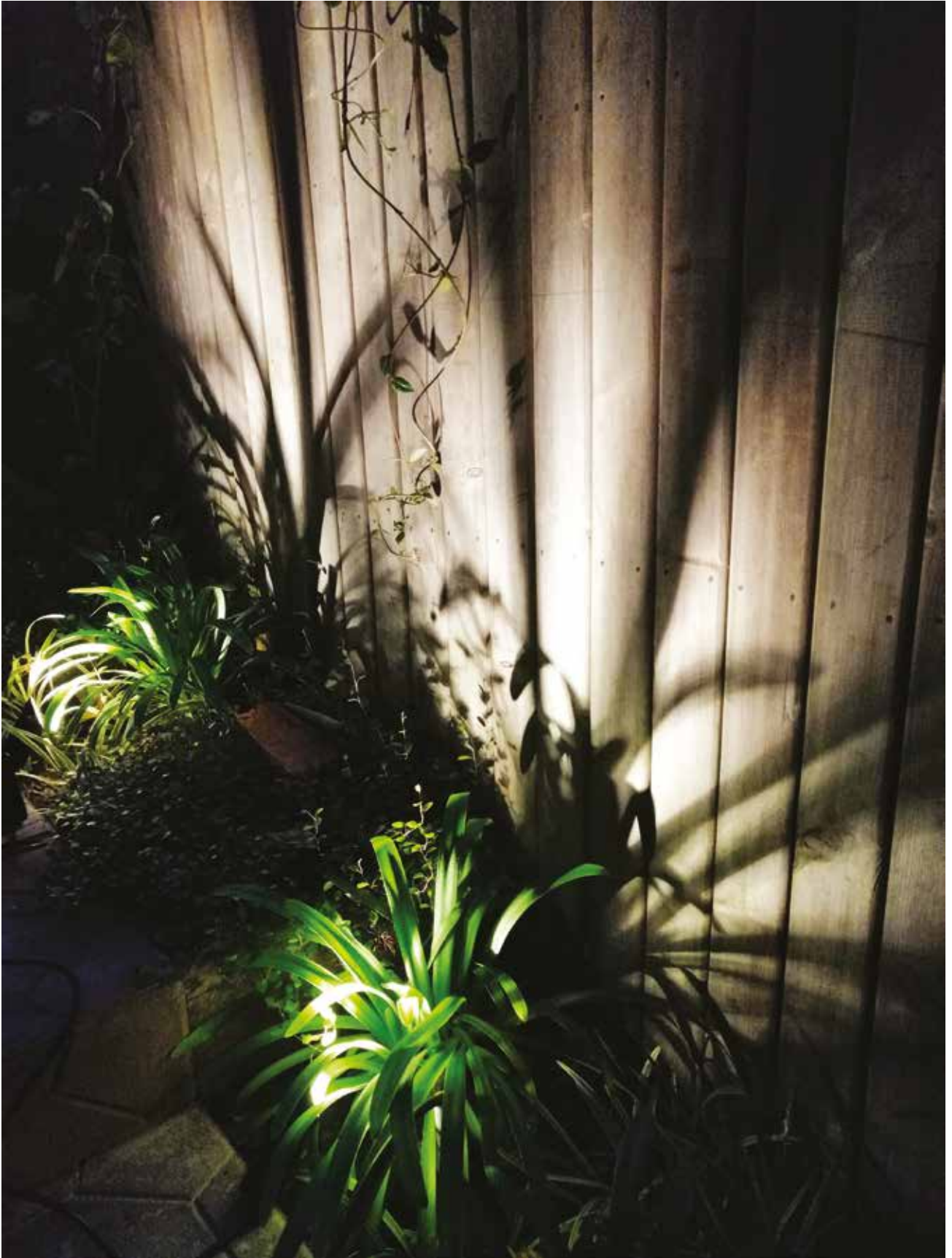
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Transformer is not included.

Remote transformer should be used.

Code No	
Round	Square
320111	320211



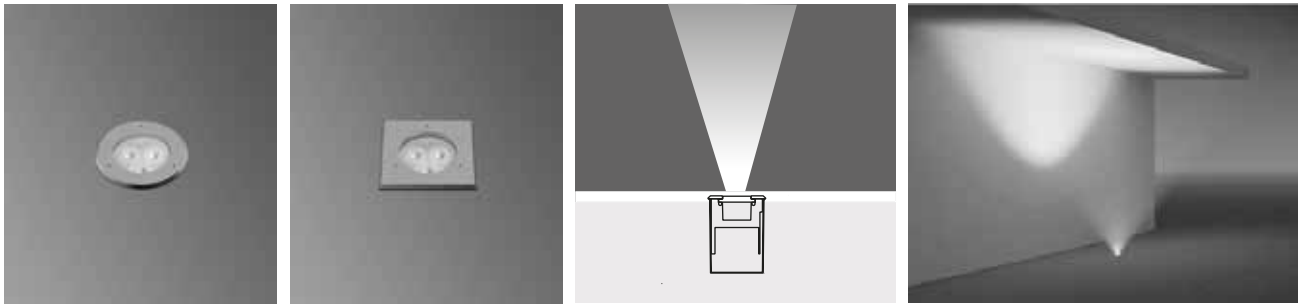


BELKIS 2 RECESSED RGB LED FIXTURES

Class I IP67 IK10

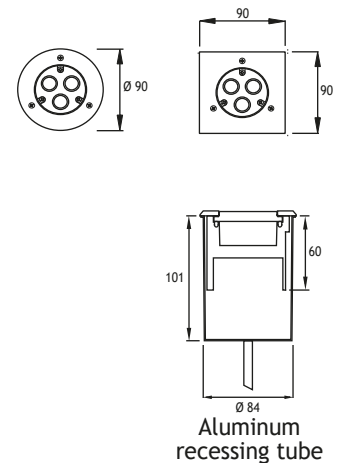
Symmetrical

BELKIS 2 Fix to Recessing Tube with Silicone



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	422101	422111	418331	418341
☀ Natural White	4500 K	255 lm	675 lm	422106	422116	418332	418342
☀ Cool White	6000 K	306 lm	810 lm	422107	422117	418333	418343
🌊 Blue				422102	422112	418334	418344
🔴 Red				422103	422113	418335	418345
🟡 Amber				422104	422114	418336	418346
🟢 Green				422105	422115	418337	418347



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

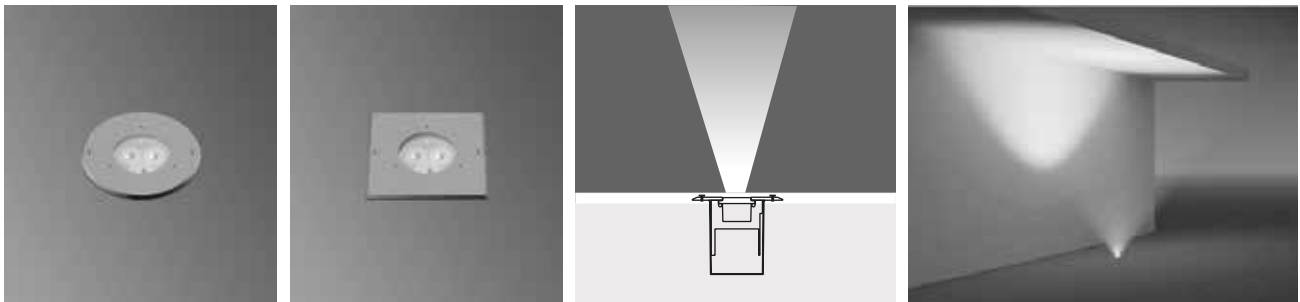
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

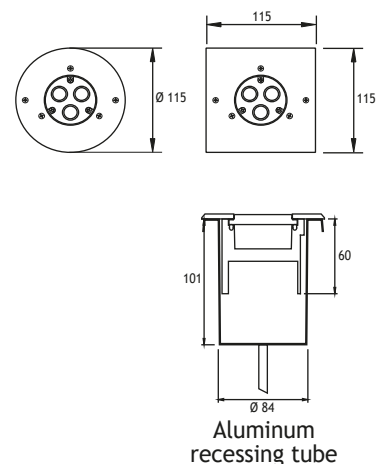
Symmetrical

BELKIS 2 Fix to Recessing Tube with Screws



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	425161	425261	418351	418361
☀ Natural White	4500 K	255 lm	675 lm	425166	425266	418352	418362
☀ Cool White	6000 K	306 lm	810 lm	425167	425267	418353	418363
🌊 Blue				425162	425262	418354	418364
🔴 Red				425163	425263	418355	418365
🟡 Amber				425164	425264	418356	418366
🟢 Green				425165	425265	418357	418367



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

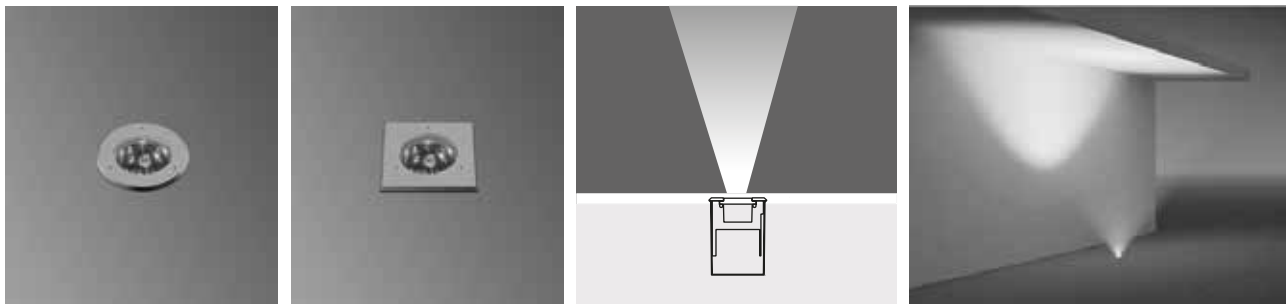
Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS 2 RECESSED LED WITH TIR LENS FIXTURES

Class I IP67 IK10

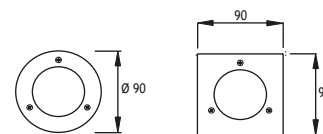
Symmetrical

BELKIS 2 Fix to Recessing Tube with Silicone

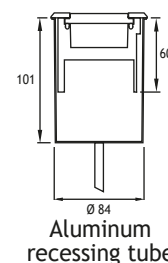


1 x 350 mA (3 W) LED or 1 x 350 mA (11 W) LED

		Total Lighting Output		3W Round	3W Square	11W Round	11W Square
		3W	11W				
☀ Warm White	3000 K	198 lm	655 lm	119001	119011	119021	119031
☾ Natural White	4000 K	237 lm	786 lm	119002	119012	119022	119032

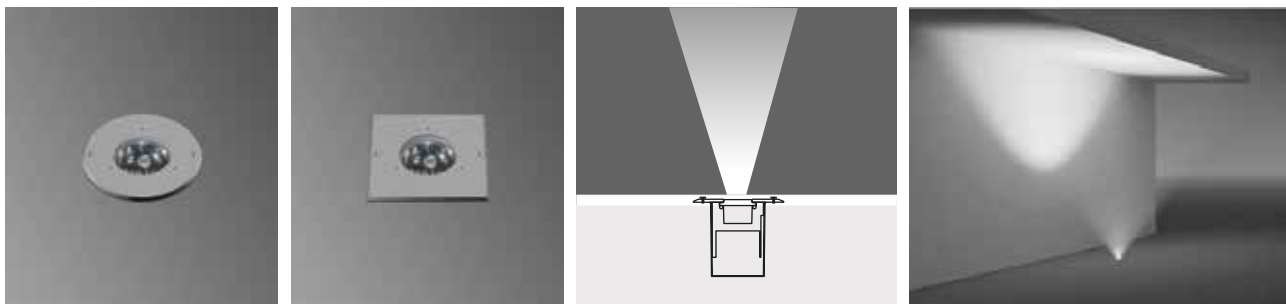


- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



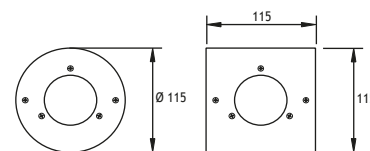
Symmetrical

BELKIS 2 Fix to Recessing Tube with Screws

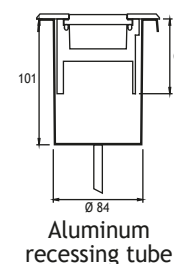


1 x 350 mA (3 W) LED or 1 x 350 mA (11 W) LED

		Total Lighting Output		3W Round	3W Square	11W Round	11W Square
		3W	11W				
☀ Warm White	3000 K	198 lm	655 lm	119101	119111	119121	119131
☾ Natural White	4000 K	237 lm	786 lm	119102	119112	119122	119132



- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

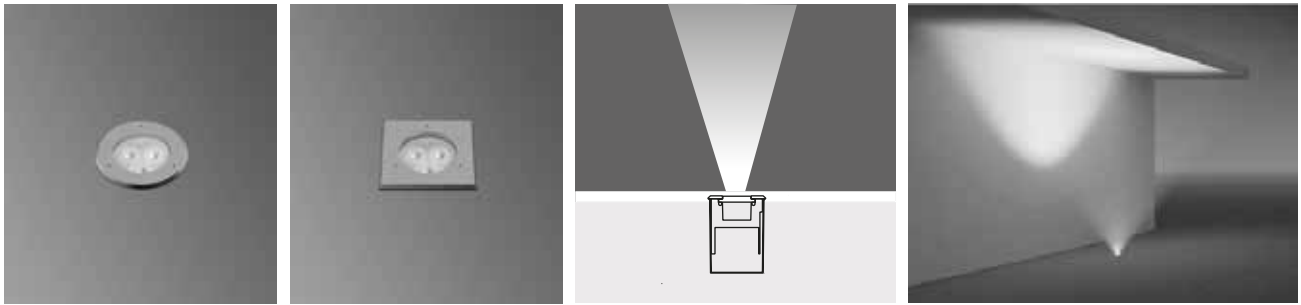


BELKIS 2 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Symmetrical

BELKIS 2 Fix to Recessing Tube with Silicone



9 x 350 mA (9 W) RGB LED

Voltage : 240V A.C with remote driver

Lens : 25° or 40°

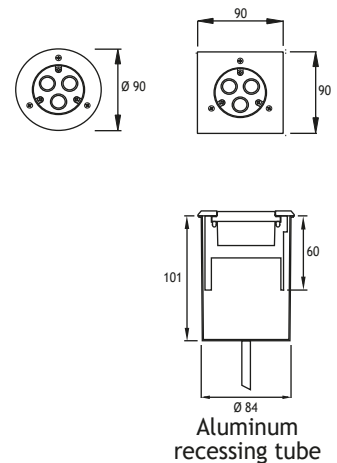
Diffuser : Clear Glass
8 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

Control by DMX, remote control, or push button

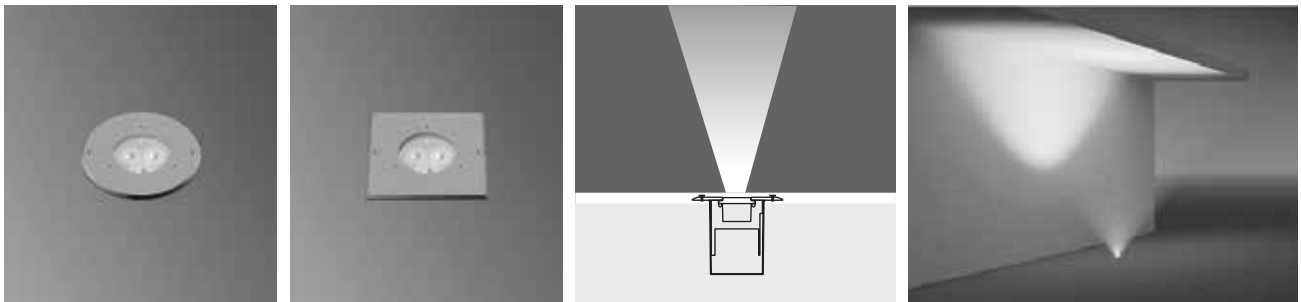


	Code No
Round	Square
418371	418381



Symmetrical

BELKIS 2 Fix to Recessing Tube with Screws



9 x 350 mA (9 W) RGB LED

Voltage : 240V A.C with remote driver

Lens : 25° or 40°

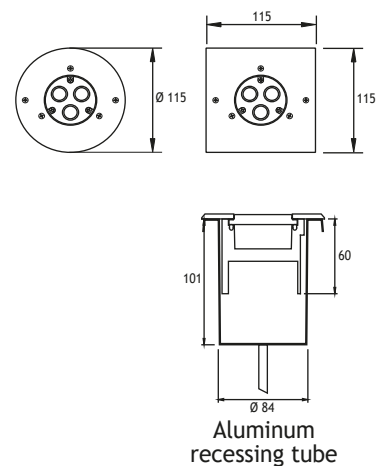
Diffuser : Clear Glass
8 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

Control by DMX, remote control, or push button



	Code No
Round	Square
425411	425421

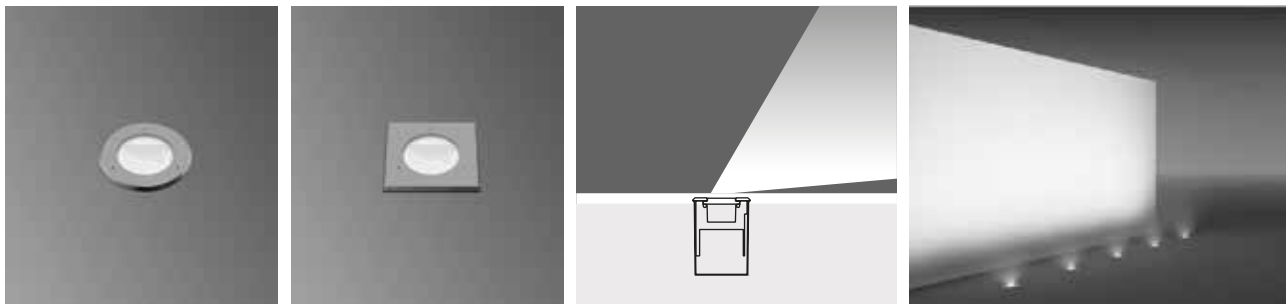


BELKIS 2 RECESSED LED FIXTURES

Class I IP67 IK10

Asymmetrical Wallwasher

BELKIS 2 Fix to Recessing Tube with Silicone



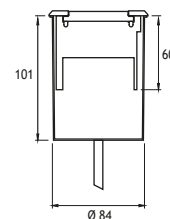
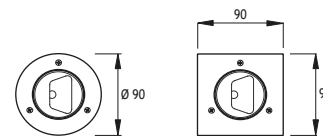
1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

		Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀ Warm White	3000 K	89 lm	210 lm	326001	326011	326041	326051
☁ Natural White	4500 K	89 lm	210 lm	326002	326012	326042	326052
☀ Cool White	6000 K	101 lm	230 lm	326003	326013	326043	326053
🌊 Blue				326004	326014	326044	326054
🔴 Red				326005	326015	326045	326055
🟡 Amber				326006	326016	326046	326056
🟢 Green				326007	326017	326047	326057

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

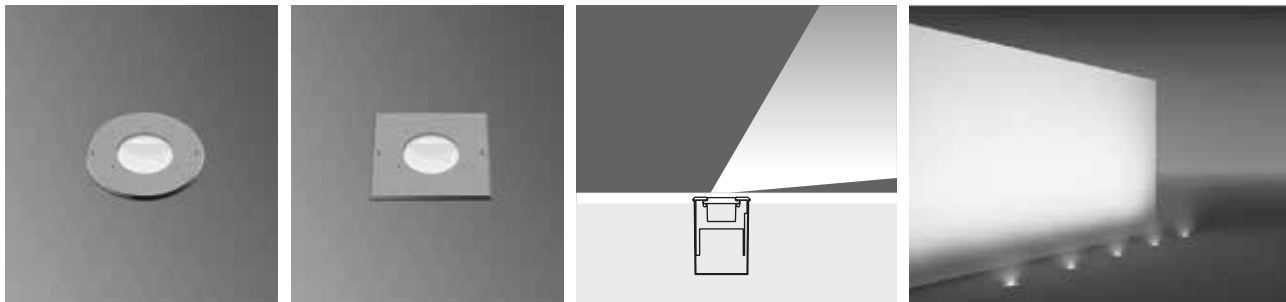
Cable : Potted 5 m 3x0,75 H03 VV-F



Aluminum recessing tube

Asymmetrical Wallwasher

BELKIS 2 Fix to Recessing Tube with Screws



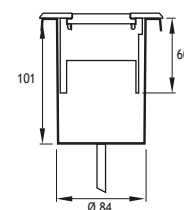
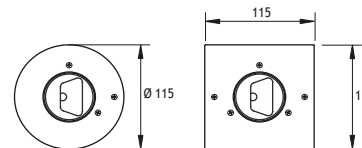
1 x 350 mA (3 W) LED or 1 x 700 mA (3 W) LED

		Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀ Warm White	3000 K	89 lm	210 lm	326021	326031	326061	326071
☁ Natural White	4500 K	89 lm	210 lm	326022	326032	326062	326072
☀ Cool White	6000 K	101 lm	230 lm	326023	326033	326063	326073
🌊 Blue				326024	326034	326064	326074
🔴 Red				326025	326035	326065	326075
🟡 Amber				326026	326036	326066	326076
🟢 Green				326027	326037	326067	326077

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



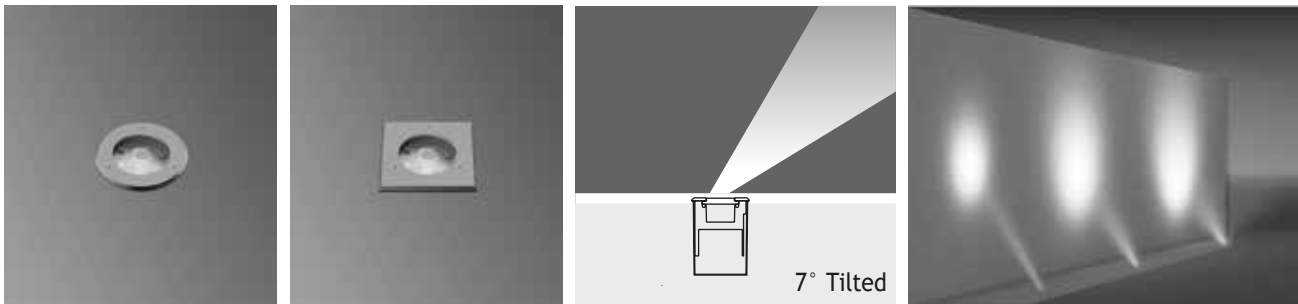
Aluminum recessing tube

BELKIS 2 RECESSED LED FIXTURES

Class I IP67 IK10

Asymmetrical 7° Tilted

BELKIS 2 Fix to Recessing Tube with Silicone



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

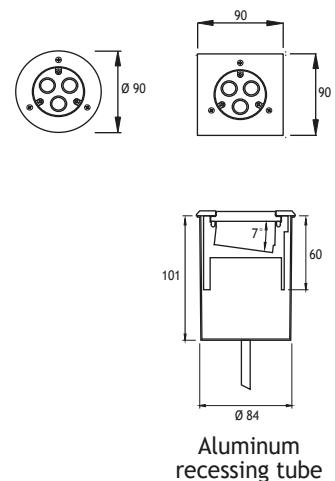
		Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	418391	418401	418431	418441
☀ Natural White	4500 K	255 lm	675 lm	418392	418402	418432	418442
☀ Cool White	6000 K	306 lm	810 lm	418393	418403	418433	418443
🌊 Blue				418394	418404	418434	418444
🔴 Red				418395	418405	418435	418445
🟡 Amber				418396	418406	418436	418446
🟢 Green				418397	418407	418437	418447

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

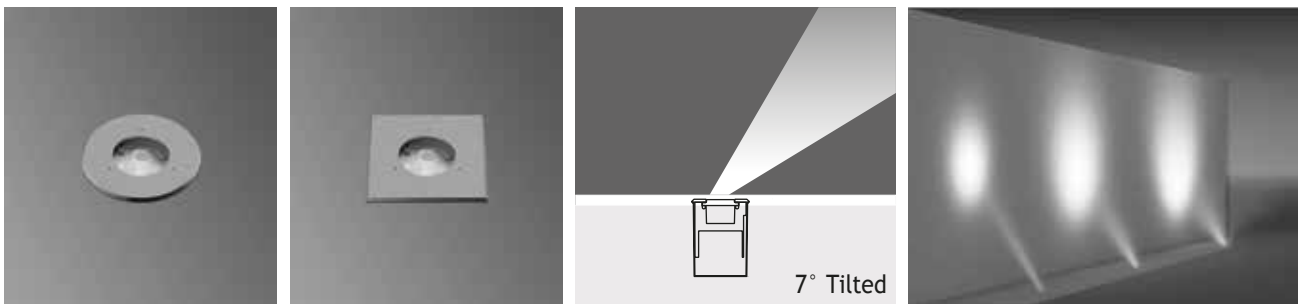
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



Asymmetrical 7° Tilted

BELKIS 2 Fix to Recessing Tube with Screws



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

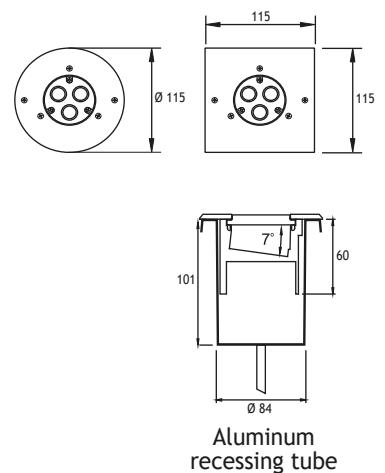
		Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	418411	418421	418451	418461
☀ Natural White	4500 K	255 lm	675 lm	418412	418422	418452	418462
☀ Cool White	6000 K	306 lm	810 lm	418413	418423	418453	418463
🌊 Blue				418414	418424	418454	418464
🔴 Red				418415	418425	418455	418465
🟡 Amber				418416	418426	418456	418466
🟢 Green				418417	418427	418457	418467

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

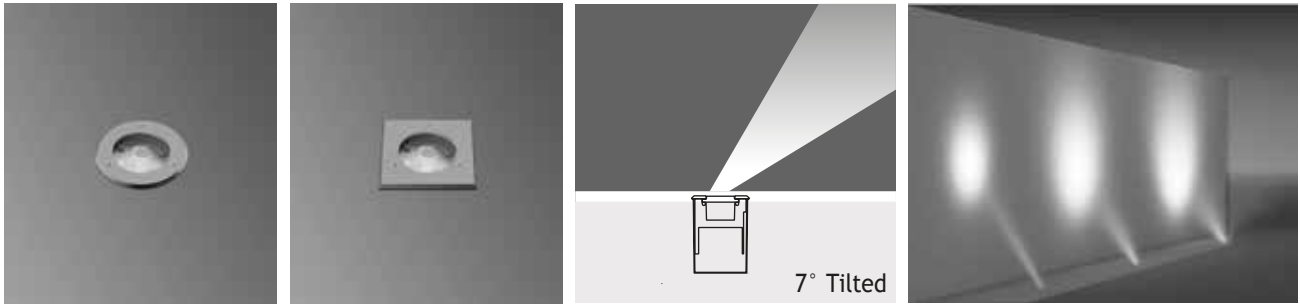


BELKIS 2 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Asymmetrical 7° Tilted

BELKIS 2 Fix to Recessing Tube with Silicone



9 x 350 mA (9 W) RGB LED

Voltage : 240V A.C with remote driver

Lens : 25° or 40°

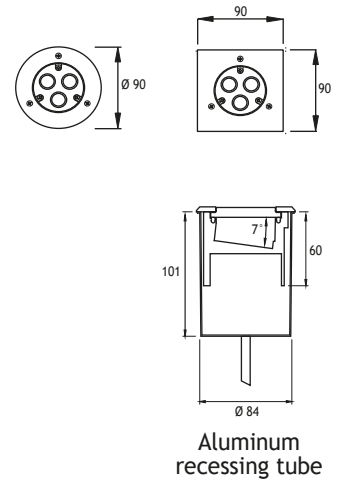
Diffuser : Clear Glass
8 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

Control by DMX, remote control, or push button

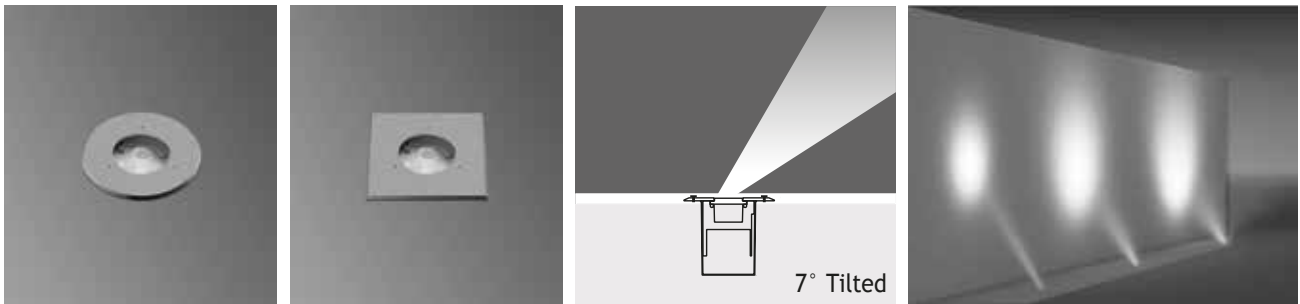


	Code No
Round	Square
417471	418481



Asymmetrical 7° Tilted

BELKIS 2 Fix to Recessing Tube with Screws



9 x 350 mA (9 W) RGB LED

Voltage : 240V A.C with remote driver

Lens : 25° or 40°

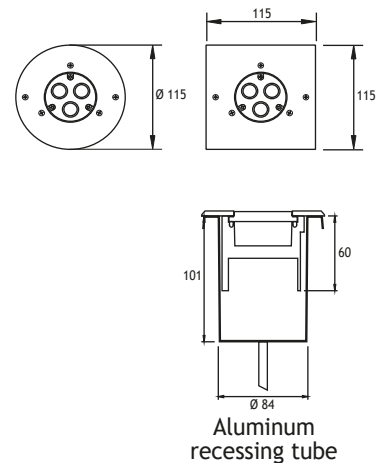
Diffuser : Clear Glass
8 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

Control by DMX, remote control, or push button



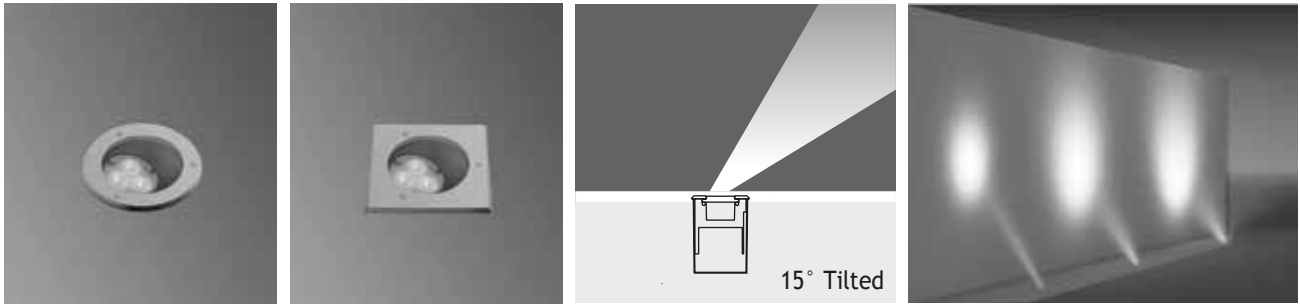
	Code No
Round	Square
418491	418501



BELKIS 2 RECESSED LED FIXTURES

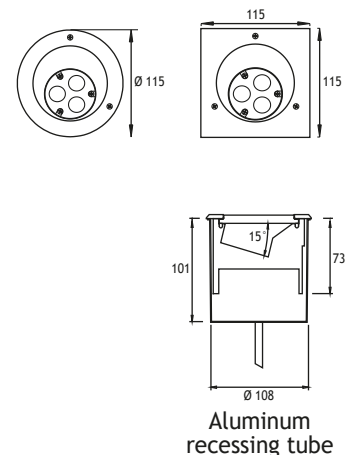
Class I IP67 IK10

Asymmetrical 15° Tilted BELKIS 2 Fix to Recessing Tube with Silicone



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	418511	418521	418551	418561
☀ Natural White	4500 K	255 lm	675 lm	418512	418522	418552	418562
☀ Cool White	6000 K	306 lm	810 lm	418513	418523	418553	418563
🌊 Blue				418514	418524	418554	418564
🔴 Red				418515	418525	418555	418565
🟡 Amber				418516	418526	418556	418566
🟢 Green				418517	418527	418557	418567



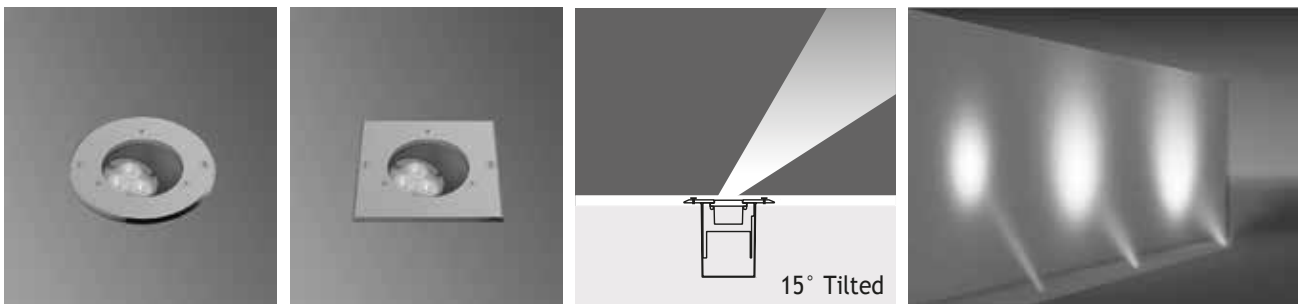
Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

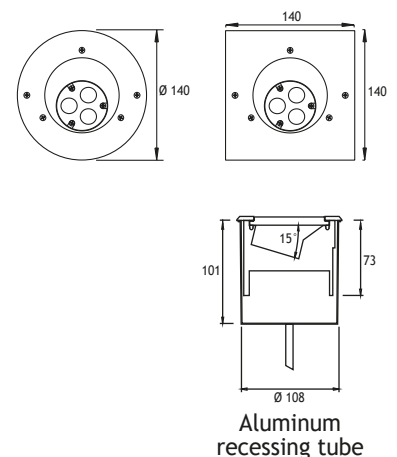
Cable : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 15° Tilted BELKIS 2 Fix to Recessing Tube with Screws



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	418531	418541	418571	418581
☀ Natural White	4500 K	255 lm	675 lm	418532	418542	418572	418582
☀ Cool White	6000 K	306 lm	810 lm	418533	418543	418573	418583
🌊 Blue				418534	418544	418574	418584
🔴 Red				418535	418545	418575	418585
🟡 Amber				418536	418546	418576	418586
🟢 Green				418537	418547	418577	418587



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

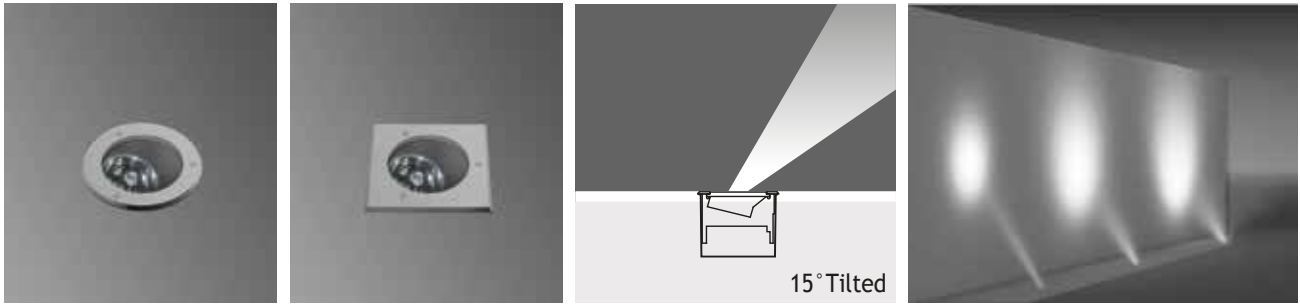
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS 2 RECESSED LED WITH TIR LENS FIXTURES

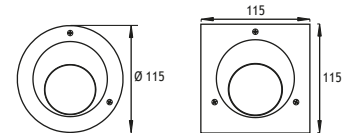
Class I IP67 IK10

Asymmetrical 15° Tilted BELKIS 2 Fix to Recessing Tube with Silicone

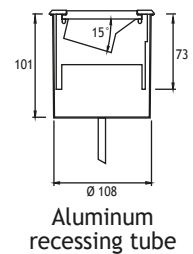


1 x 350 mA (11 W) LED or 1 x 500 mA (18 W) LED

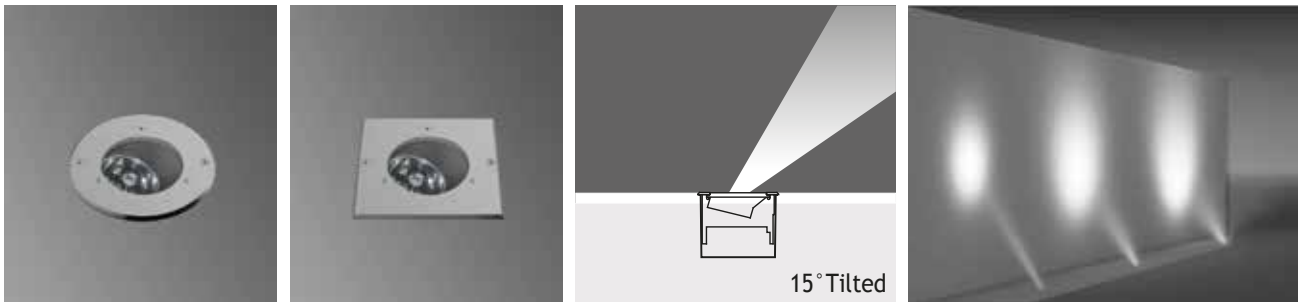
		Total Lighting Output	Total Lighting Output					
			11W	11W	18W	18W		
		11W	18W	18W	18W			
		11W	18W	Round	Square	Round	Square	
☀ Warm White	3000 K	655 lm	1153 lm	119201	119211	119221	119231	
☀ Natural White	4000 K	786 lm	1383 lm	119202	119212	119222	119232	



- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

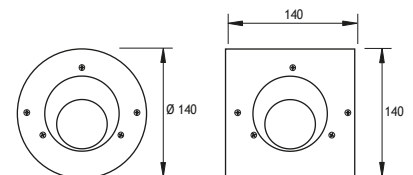


Asymmetrical 15° Tilted BELKIS 2 Fix to Recessing Tube with Screws

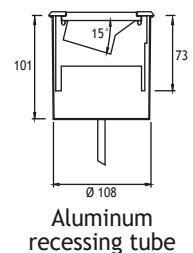


1 x 350 mA (11 W) LED or 1 x 500 mA (18 W) LED

		Total Lighting Output	Total Lighting Output					
			11W	11W	18W	18W		
		11W	18W	18W	18W			
		11W	18W	Round	Square	Round	Square	
☀ Warm White	3000 K	655 lm	1153 lm	119301	119311	119321	119331	
☀ Natural White	4000 K	786 lm	1383 lm	119302	119312	119322	119332	



- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)

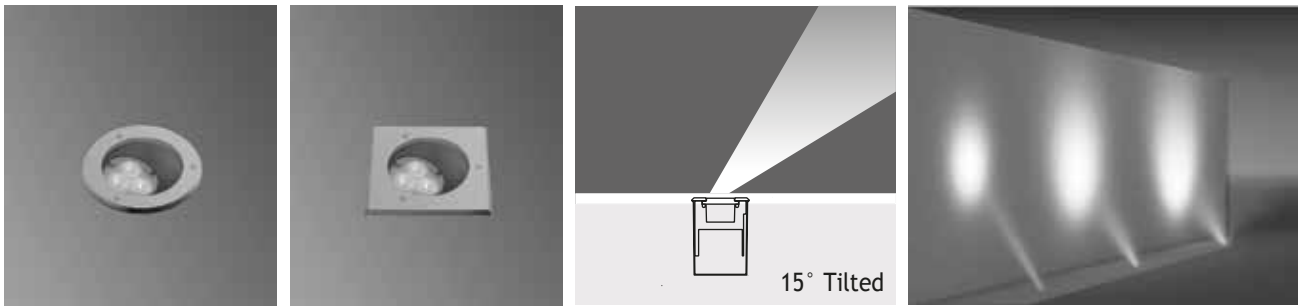


BELKIS 2 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Asymmetrical 15° Tilted

BELKIS 2 Fix to Recessing Tube with Silicone

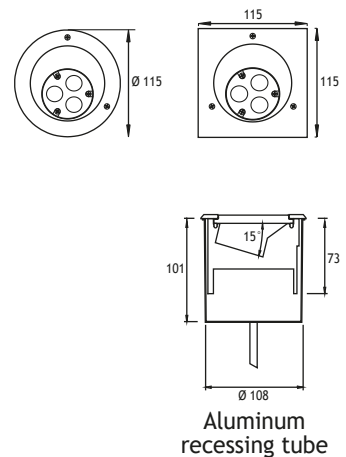


9 x 350 mA (9 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control** by DMX, remote control, or push button

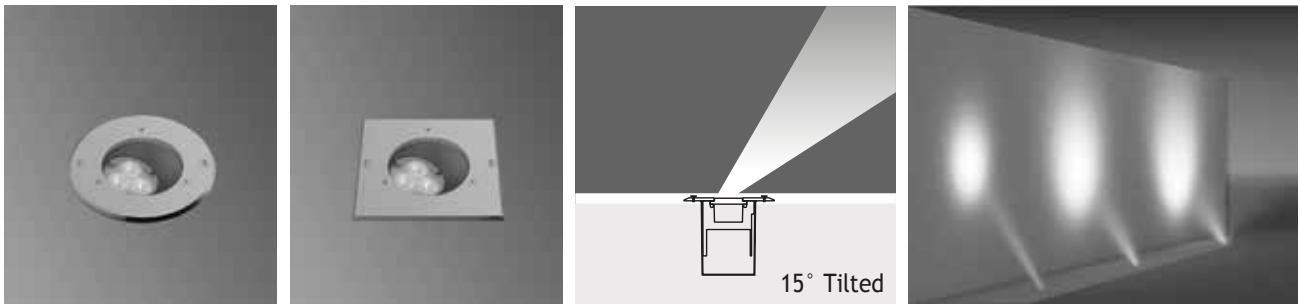


	Code No
Round	Square
418591	418601



Asymmetrical 15° Tilted

BELKIS 2 Fix to Recessing Tube with Screws

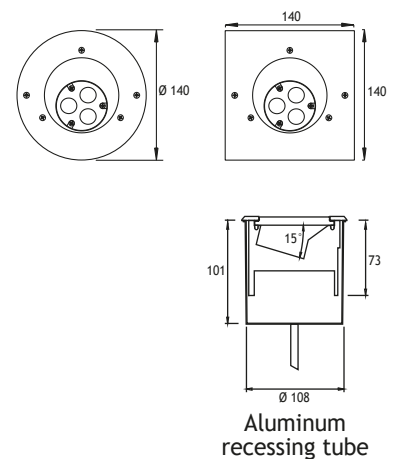


9 x 350 mA (9 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control** by DMX, remote control, or push button



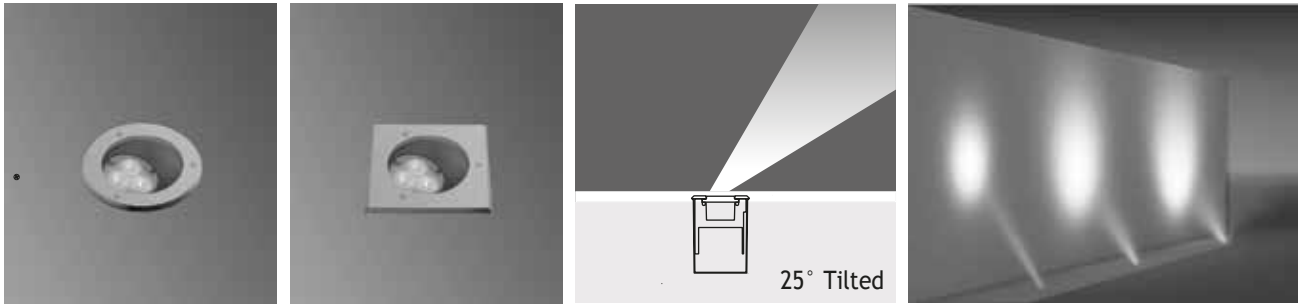
	Code No
Round	Square
418611	418621



BELKIS 2 RECESSED LED FIXTURES

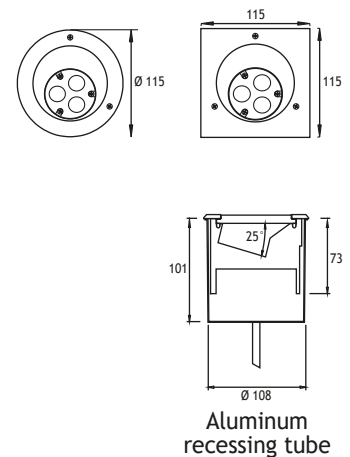
Class I IP67 IK10

Asymmetrical 25° Tilted BELKIS 2 Fix to Recessing Tube with Silicone



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	418631	418641	418671	418681
☀ Natural White	4500 K	255 lm	675 lm	418632	418642	418672	418682
☀ Cool White	6000 K	306 lm	810 lm	418633	418643	418673	418683
🌊 Blue				418634	418644	418674	418684
🔴 Red				418635	418645	418675	418685
🟡 Amber				418636	418646	418676	418686
🟢 Green				418637	418647	418677	418687



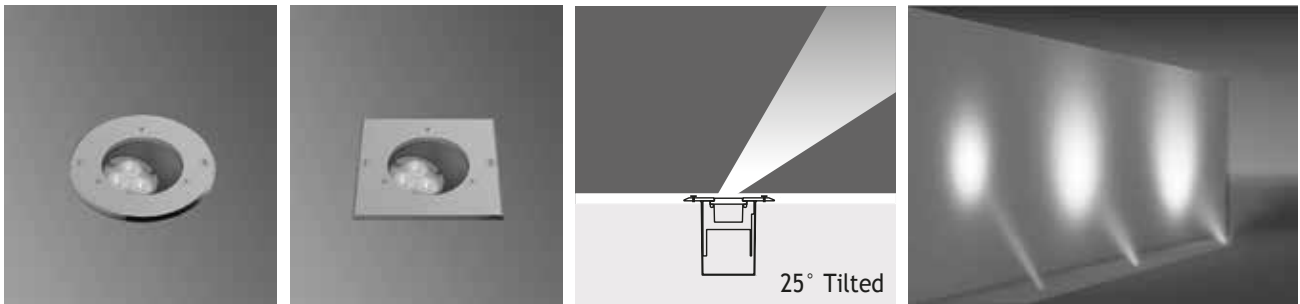
Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

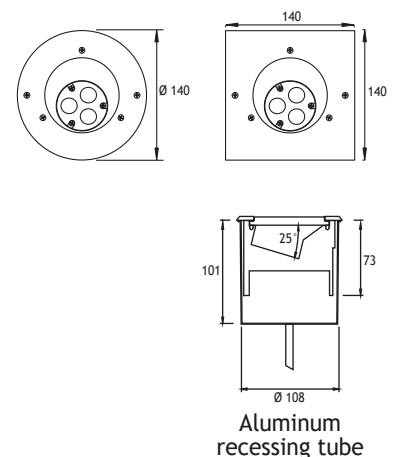
Cable : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 25° Tilted BELKIS 2 Fix to Recessing Tube with Screws



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	418651	418661	418691	418701
☀ Natural White	4500 K	255 lm	675 lm	418652	418662	418692	418702
☀ Cool White	6000 K	306 lm	810 lm	418653	418663	418693	418703
🌊 Blue				418654	418664	418694	418704
🔴 Red				418655	418665	418695	418705
🟡 Amber				418656	418666	418696	418706
🟢 Green				418657	418667	418697	418707



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

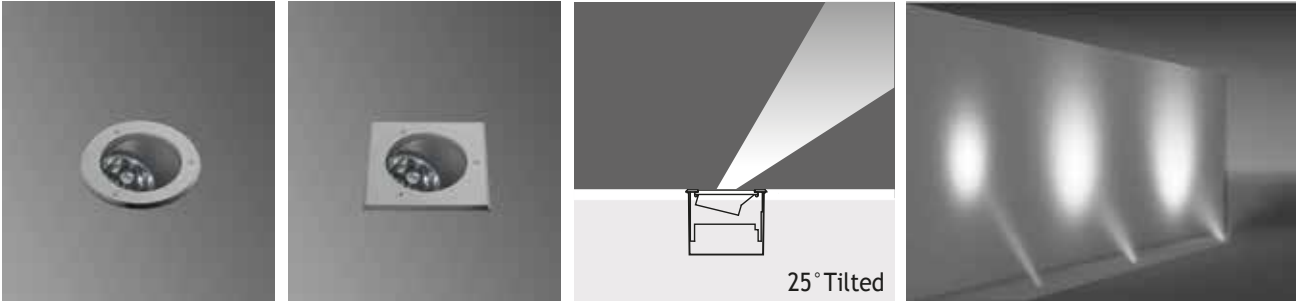
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS 2 RECESSED LED WITH TIR LENS FIXTURES

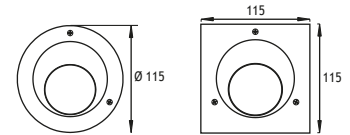
Class I IP67 IK10

Asymmetrical 25° Tilted BELKIS 2 Fix to Recessing Tube with Silicone

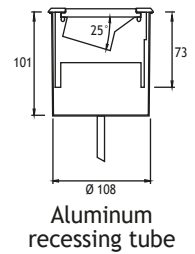


1 x 350 mA (11 W) LED or 1 x 500 mA (18 W) LED

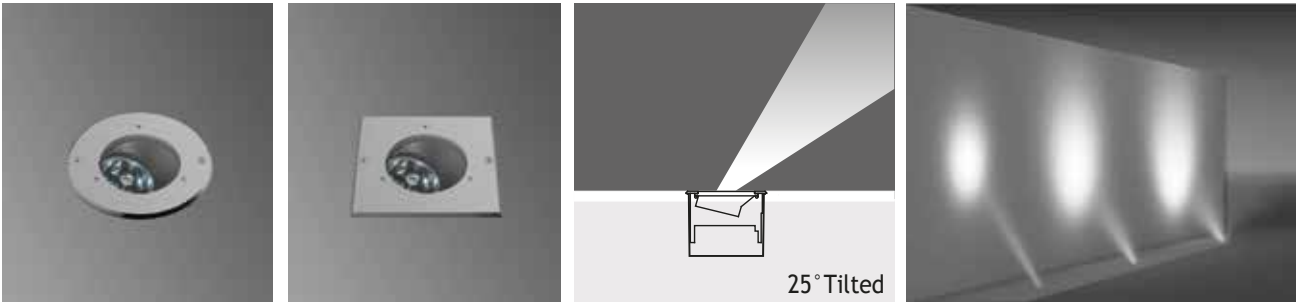
			Total Lighting Output		11W Round	11W Square	18W Round	18W Square
			11W	18W				
☀ Warm White	3000 K	655 lm	1153 lm	119401	119411	119421	119431	
☁ Natural White	4000 K	786 lm	1383 lm	119402	119412	119422	119432	



- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

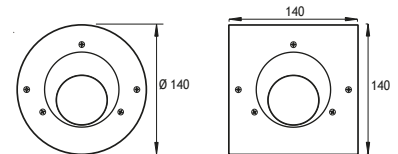


Asymmetrical 25° Tilted BELKIS 2 Fix to Recessing Tube with Screws

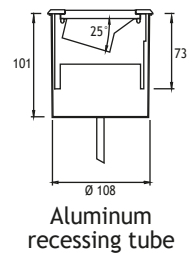


1 x 350 mA (11 W) LED or 1 x 500 mA (18 W) LED

			Total Lighting Output		11W Round	11W Square	18W Round	18W Square
			11W	18W				
☀ Warm White	3000 K	655 lm	1153 lm	119501	119511	119521	119531	
☁ Natural White	4000 K	786 lm	1383 lm	119502	119512	119522	119532	



- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)

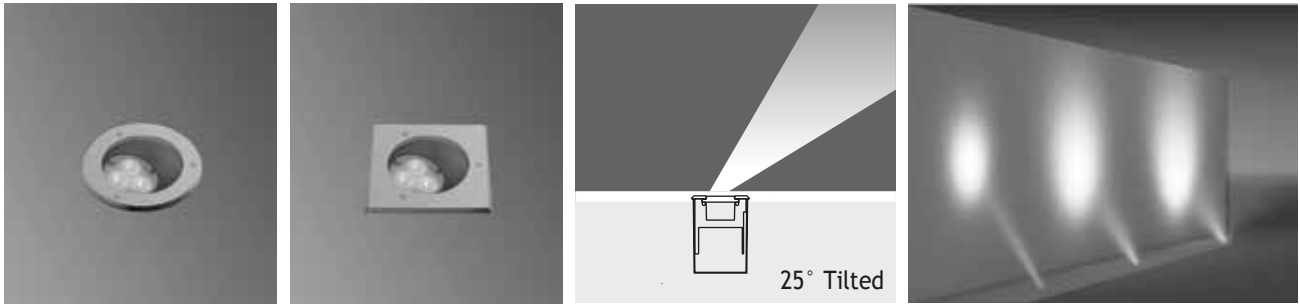


BELKIS 2 RECESSED RGB LED FIXTURES

Class I IP67 IK10

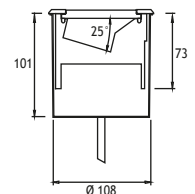
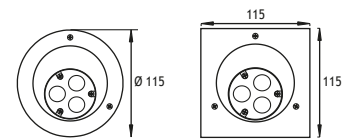
Asymmetrical 25° Tilted

BELKIS 2 Fix to Recessing Tube with Silicone



9 x 350 mA (9 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control** by DMX, remote control, or push button



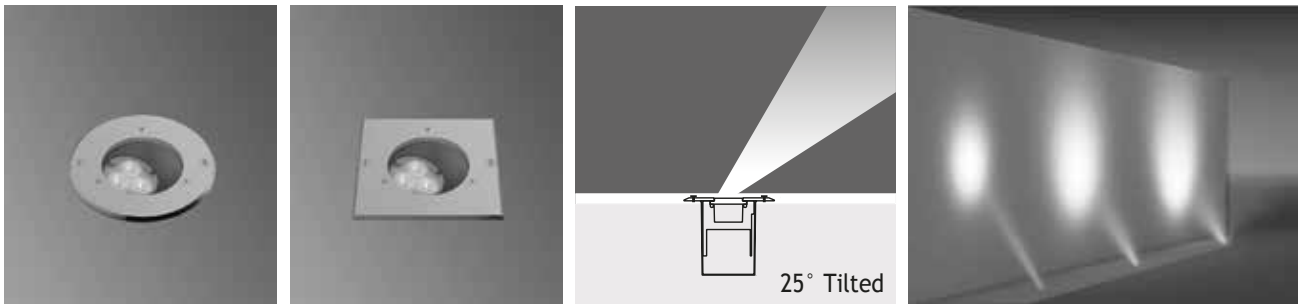
Aluminum recessing tube



	Code No	
	Round	Square
	418711	418721

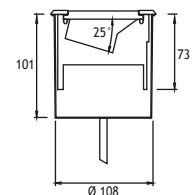
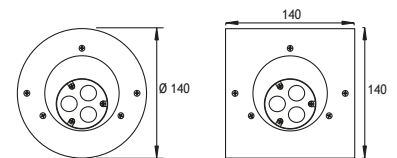
Asymmetrical 25° Tilted

BELKIS 2 Fix to Recessing Tube with Screws



9 x 350 mA (9 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control** by DMX, remote control, or push button



Aluminum recessing tube

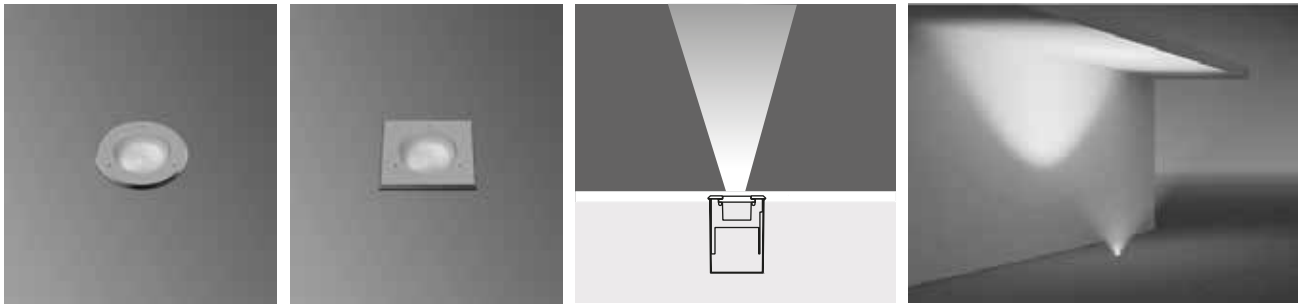


	Code No	
	Round	Square
	418731	418741

BELKIS 2 RECESSED HALOGEN FIXTURES

Load 1.5 kN | Class III IP67 IK10

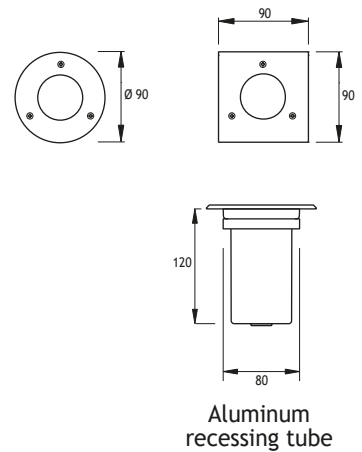
Symmetrical
BELKIS 2 Fix to Recessing Tube with Silicone



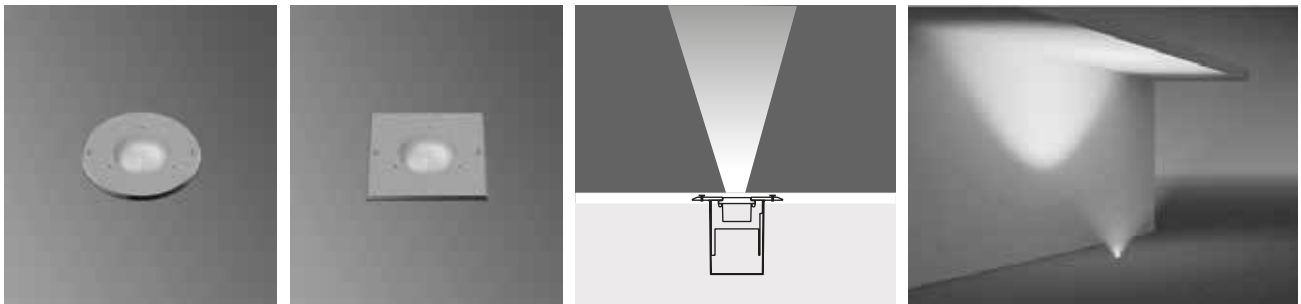
HALOGEN 12V 35W / 50W (10° or 38°)

Lampholder : Gu 5.3
 Reflector : -
 Diffuser : 8 mm Tempered Glass
 Transformer is not included.
 Remote transformer should be used.
 CLASS III

Code No
 Round Square
 322101 322201



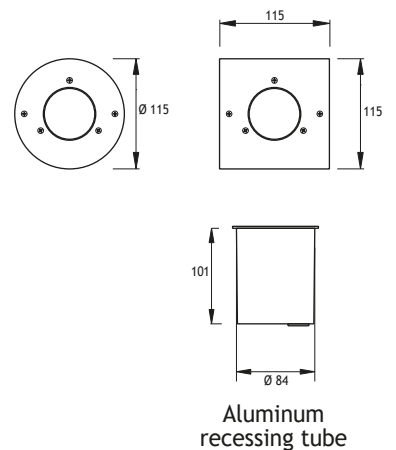
Symmetrical
BELKIS 2 Fix to Recessing Tube with Screws



HALOGEN 240V 35W / 50W (25° or 50°)

Lampholder : Gu10
 Reflector : -
 Diffuser : 8 mm Tempered Glass
 CLASS I

Code No
 Round Square
 322121 322221

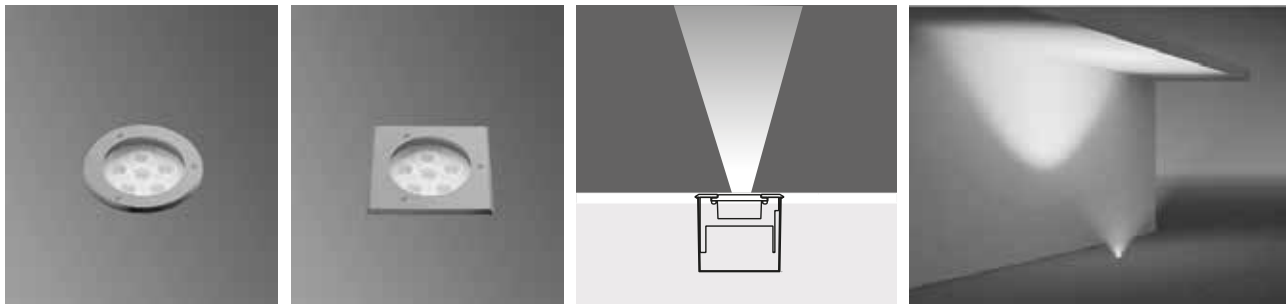


BELKIS 3 RECESSED LED FIXTURES

Load 5 kN | Class I IP67 IK10

Symmetrical

BELKIS 3 Fix to Recessing Tube with Silicone



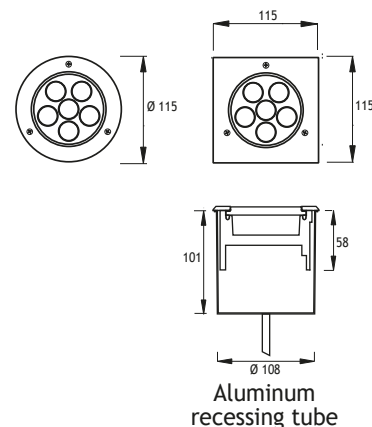
6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
		Round	Square
☀ Warm White 3000 K	510 lm	422201	422211
☀ Natural White 4500 K	510 lm	422202	422216
☀ Cool White 6000 K	612 lm	422203	422217
🌊 Blue		422204	422212
🔴 Red		422205	422213
🟡 Amber		422206	422214
🟢 Green		422207	422215

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

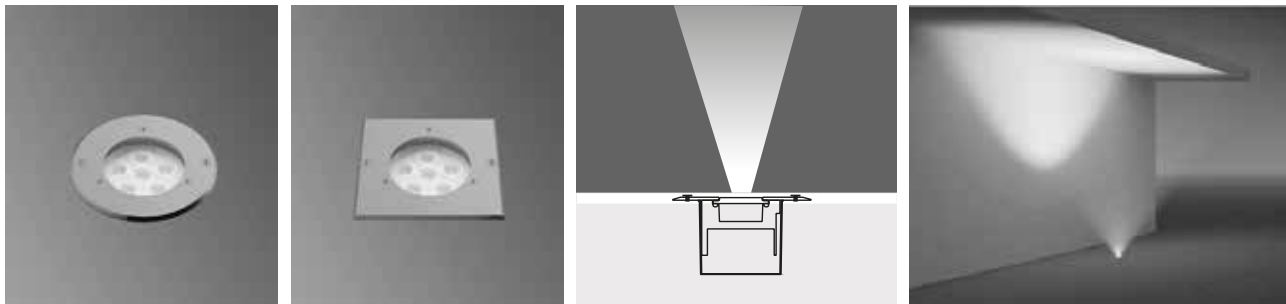
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



Symmetrical

BELKIS 3 Fix to Recessing Tube with Screws



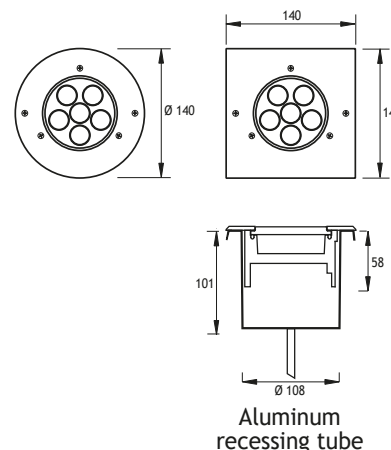
6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
		Round	Square
☀ Warm White 3000 K	510 lm	422221	422231
☀ Natural White 4500 K	510 lm	422226	422236
☀ Cool White 6000 K	612 lm	422227	422237
🌊 Blue		422222	422232
🔴 Red		422223	422233
🟡 Amber		422224	422234
🟢 Green		422225	422235

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

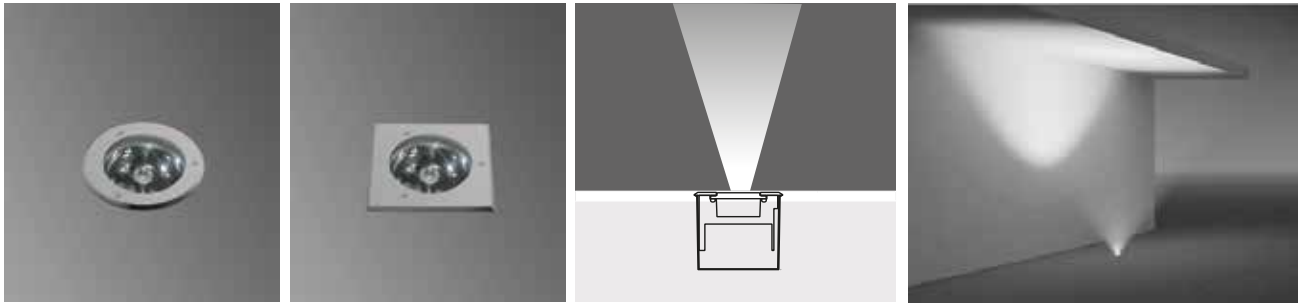


BELKIS 3 RECESSED LED WITH TIR LENS FIXTURES

Class I IP67 IK10

Symmetrical

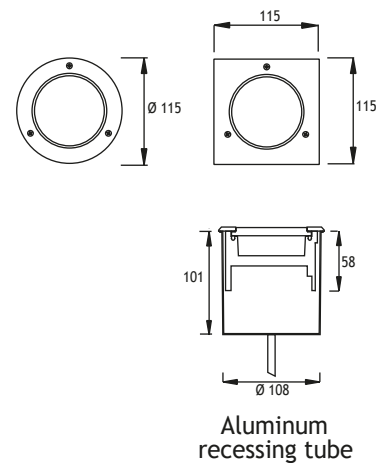
BELKIS 3 Fix to Recessing Tube with Silicone



1 x 350 mA (11 W) LED

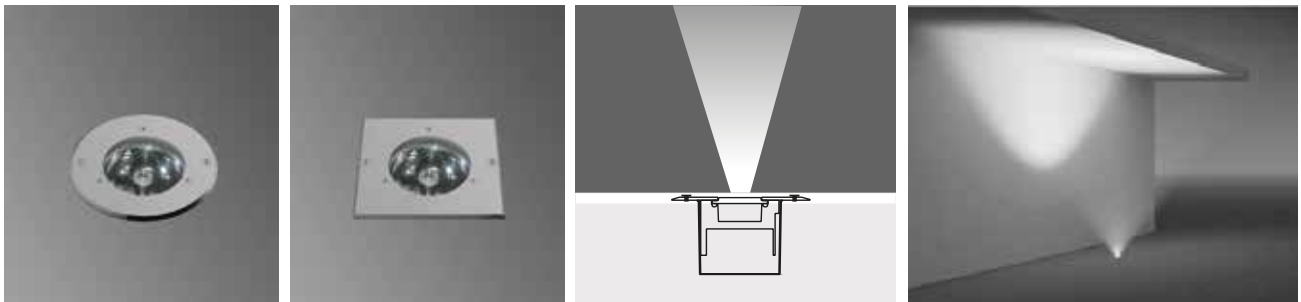
		Total Lighting Output 11W	11W Round	11W Square
☀ Warm White	3000 K	784 lm	119601	119611
☾ Natural White	4000 K	941 lm	119602	119612

- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



Symmetrical

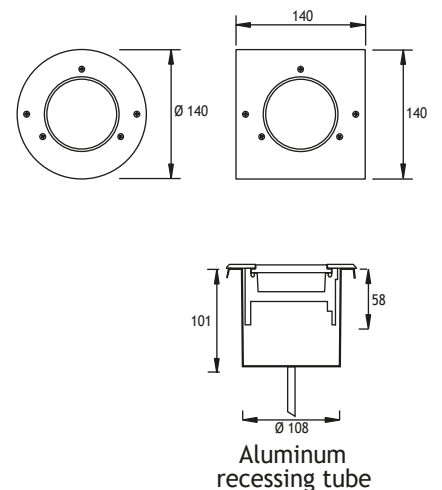
BELKIS 3 Fix to Recessing Tube with Screws

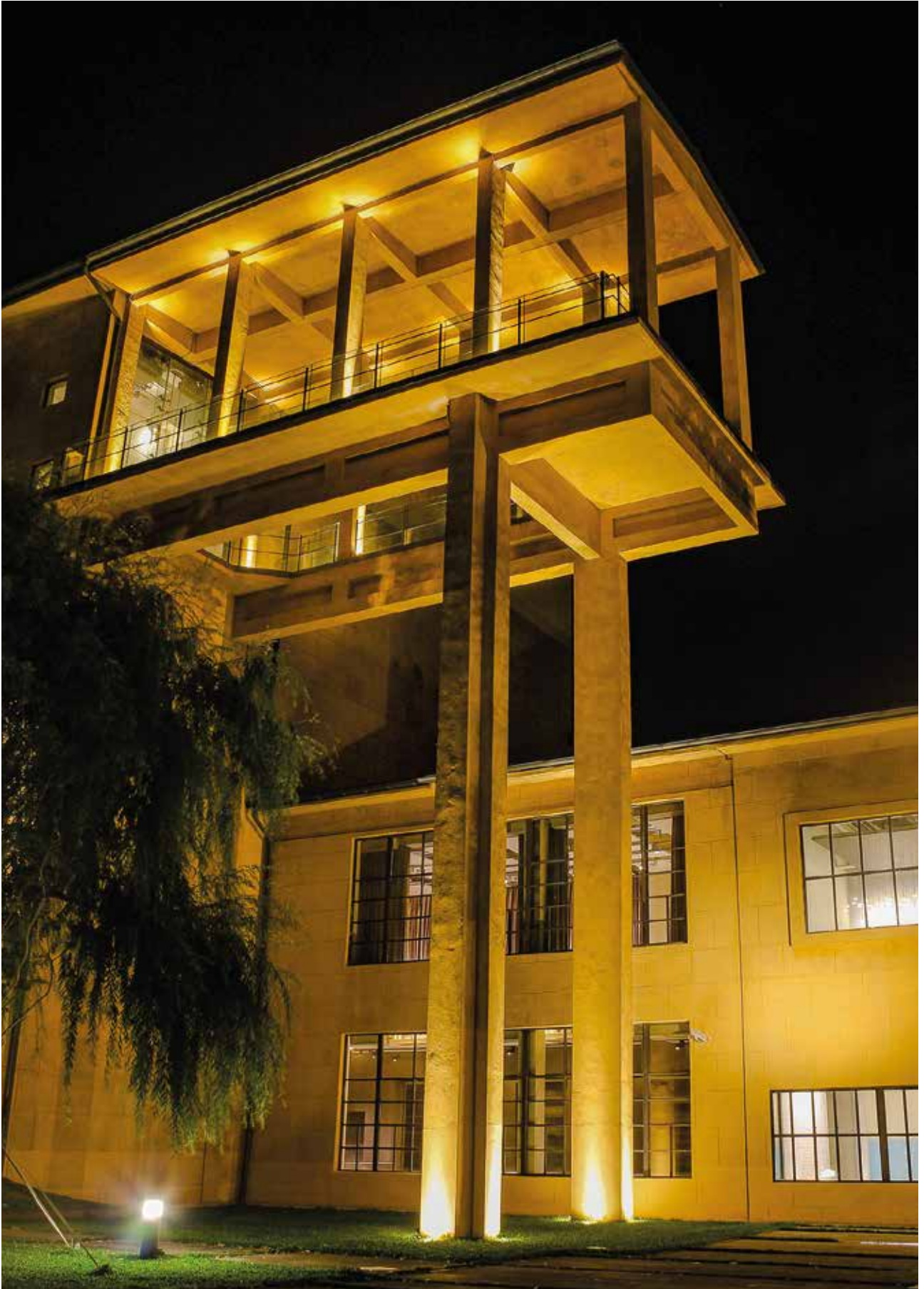


1 x 350 mA (11 W) LED

		Total Lighting Output 11W	11W Round	11W Square
☀ Warm White	3000 K	784 lm	119701	119711
☾ Natural White	4000 K	941 lm	119702	119712

- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



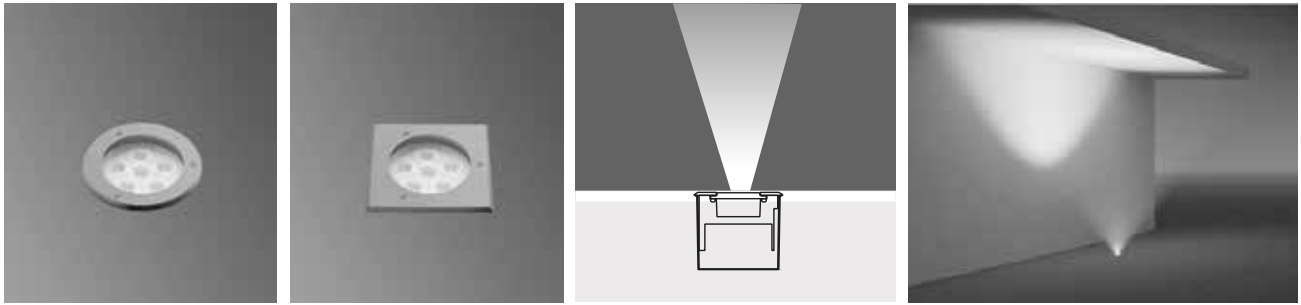


BELKIS 3 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Symmetrical

BELKIS 3 Fix to Recessing Tube with Silicone



18 x 350 mA (18 W) RGB LED

Voltage : 240V A.C with remote driver

Lens : 25° or 40°

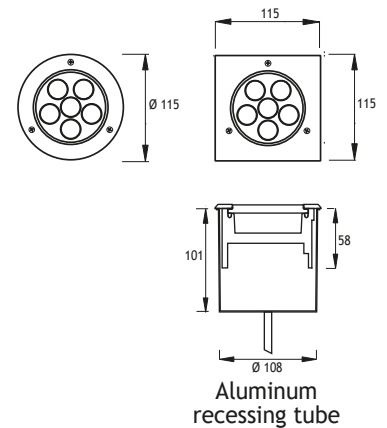
Diffuser : Clear Glass
8 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

Control by DMX, remote control, or push button

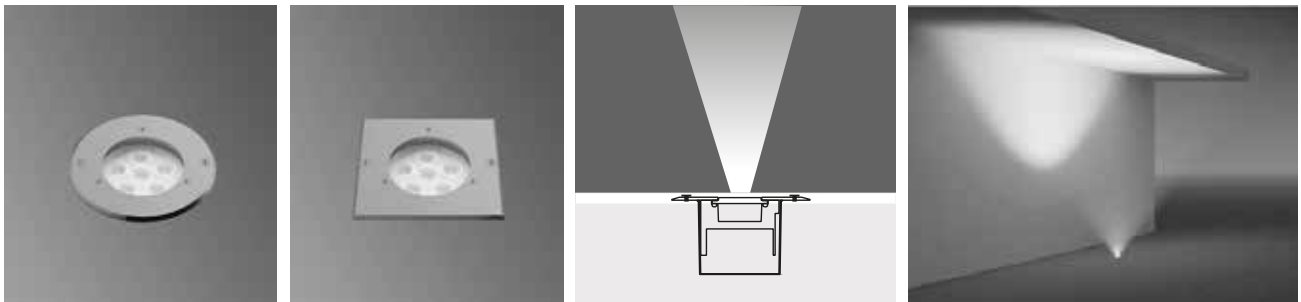


	Code No
Round	Square
422261	422271



Symmetrical

BELKIS 3 Fix to Recessing Tube with Screws



18 x 350 mA (18 W) RGB LED

Voltage : 240V A.C with remote driver

Lens : 25° or 40°

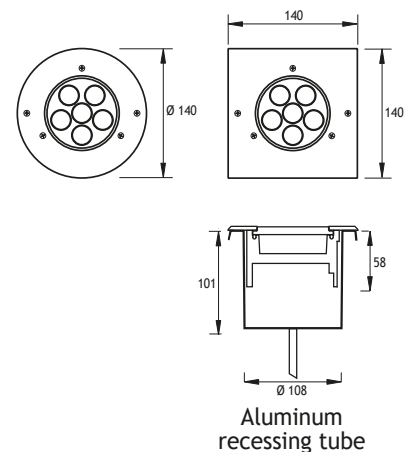
Diffuser : Clear Glass
8 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

Control by DMX, remote control, or push button



	Code No
Round	Square
422241	422251

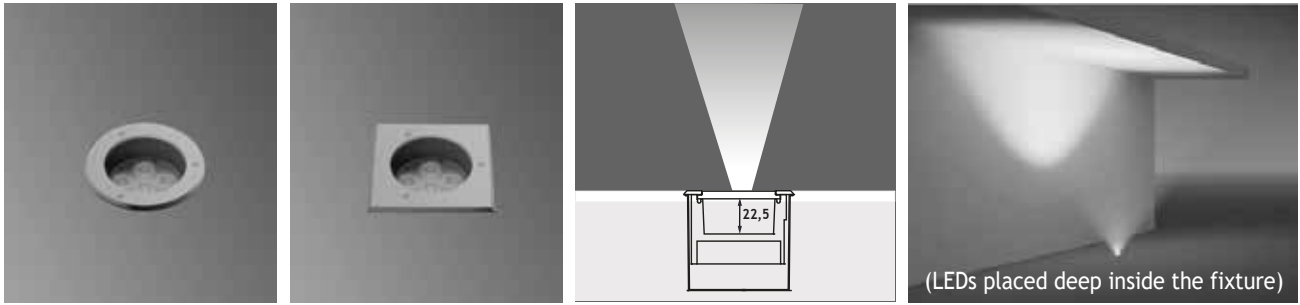


BELKIS 3 RECESSED UPLIGHT LOW GLARE LED FIXTURES

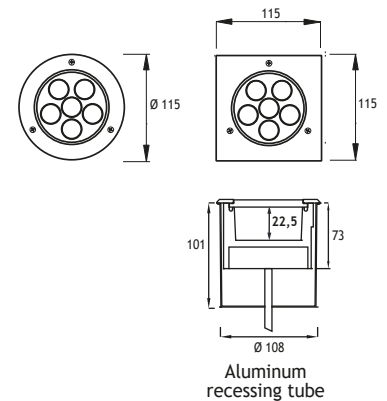
Class I IP67 IK10

Symmetrical

BELKIS 3 Fix to Recessing Tube with Silicone



6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
		Round	Square
☀ Warm White 3000 K	510 lm	326101	326111
☀ Natural White 4500 K	510 lm	326102	326112
☀ Cool White 6000 K	612 lm	326103	326113
🌊 Blue		326104	326114
🔴 Red		326105	326115
🟡 Amber		326106	326116
🟢 Green		326107	326117



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

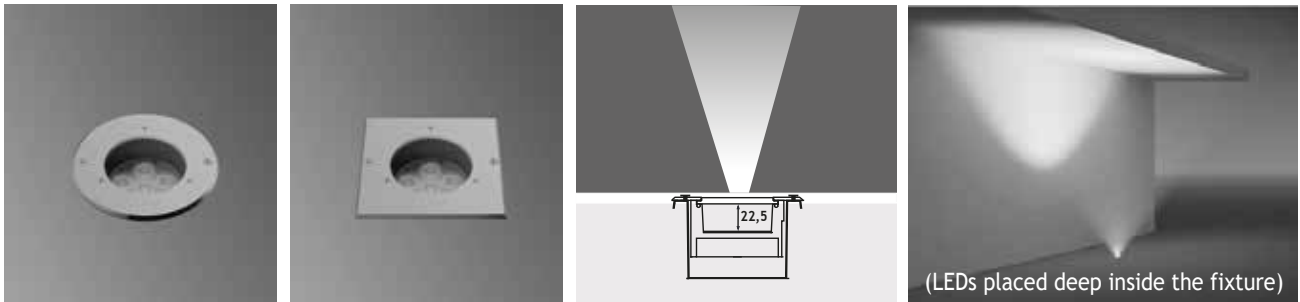
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

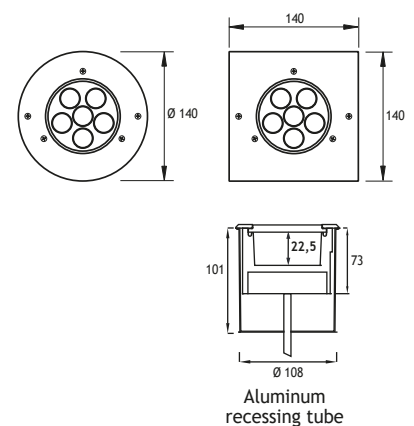
Cable : Potted 5 m 3x0,75 H03 VV-F

Symmetrical

BELKIS 3 Fix to Recessing Tube with Screws



6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
		Round	Square
☀ Warm White 3000 K	510 lm	326121	326131
☀ Natural White 4500 K	510 lm	326122	326132
☀ Cool White 6000 K	612 lm	326123	326133
🌊 Blue		326124	326134
🔴 Red		326125	326135
🟡 Amber		326126	326136
🟢 Green		326127	326137



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

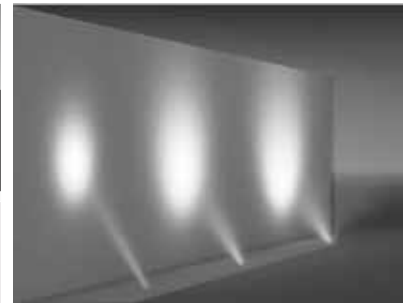
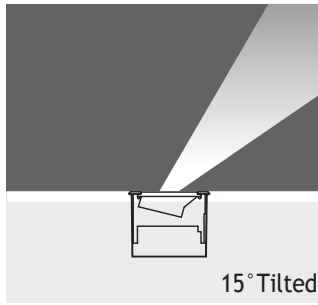
Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS 3 RECESSED LED FIXTURES

Class I IP67 IK10

Asymmetrical 15° Tilted

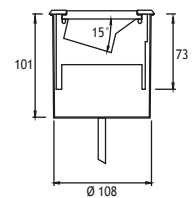
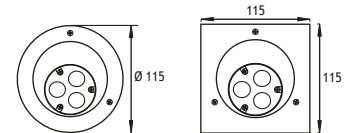
BELKIS 3 Fix to Recessing Tube with Silicone



6 x 350 mA (6 W) LED

☀ Warm White	3000 K
☀ Natural White	4500 K
☀ Cool White	6000 K
🌊 Blue	
🔴 Red	
🟡 Amber	
🟢 Green	

Total Lighting Output	Code No	
	Round	Square
510 lm	423101	423111
510 lm	423102	423112
612 lm	423103	423113
	423104	423114
	423105	423115
	423106	423116
	423107	423117



Aluminum recessing tube

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

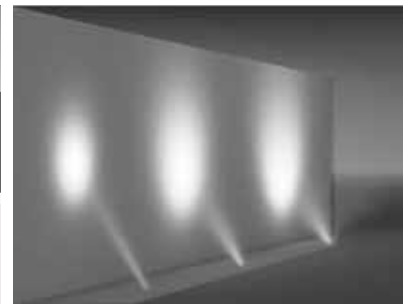
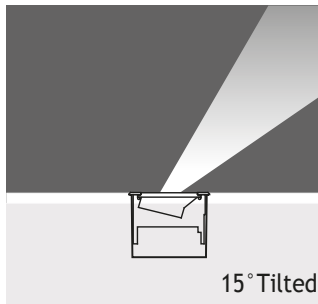
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

Available with springs for false ceiling.

Asymmetrical 15° Tilted

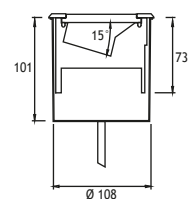
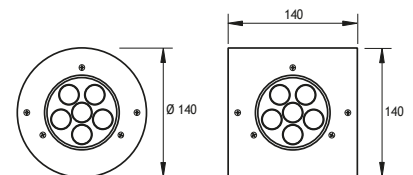
BELKIS 3 Fix to Recessing Tube with Screws



6 x 350 mA (6 W) LED

☀ Warm White	3000 K
☀ Natural White	4500 K
☀ Cool White	6000 K
🌊 Blue	
🔴 Red	
🟡 Amber	
🟢 Green	

Total Lighting Output	Code No	
	Round	Square
510 lm	423121	423131
510 lm	423122	423132
612 lm	423123	423133
	423124	423134
	423125	423135
	423126	423136
	423127	423137



Aluminum recessing tube

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

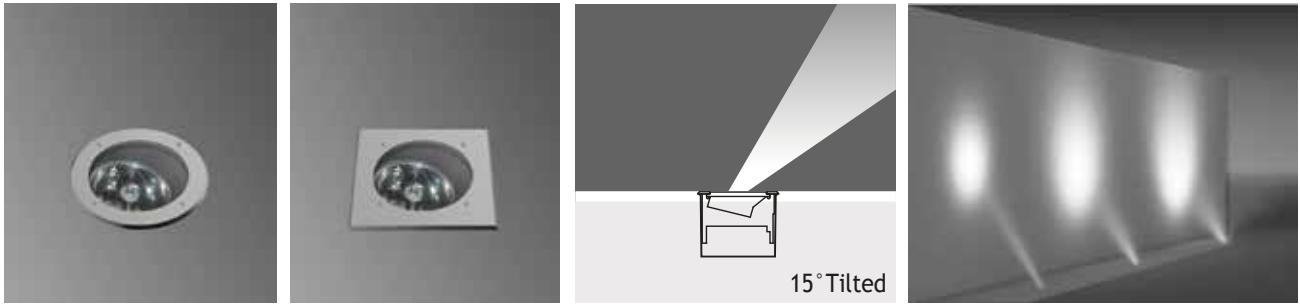
Available with springs for false ceiling.

BELKIS 3 RECESSED LED WITH TIR LENS FIXTURES

Class I IP67 IK10

Asymmetrical 15° Tilted

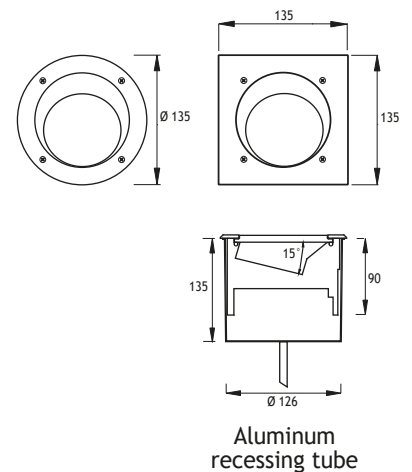
BELKIS 3 Fix to Recessing Tube with Silicone



1 x 500 mA (18 W) LED or 1 x 700 mA (25 W) LED

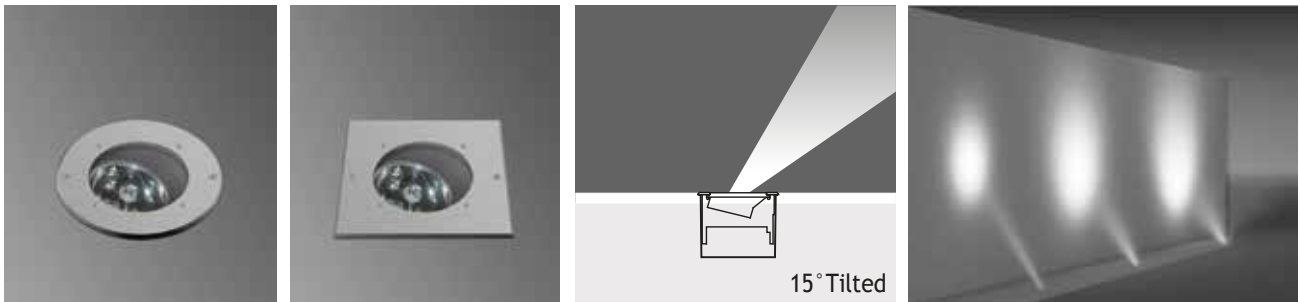
		Total Lighting Output		18W Round	18W Square	25W Round	25W Square
		18W	25W				
☀ Warm White	3000 K	1170 lm	1620 lm	119801	119811	119821	119831
☾ Natural White	4000 K	1404 lm	1945 lm	119802	119812	119822	119832

- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



Asymmetrical 15° Tilted

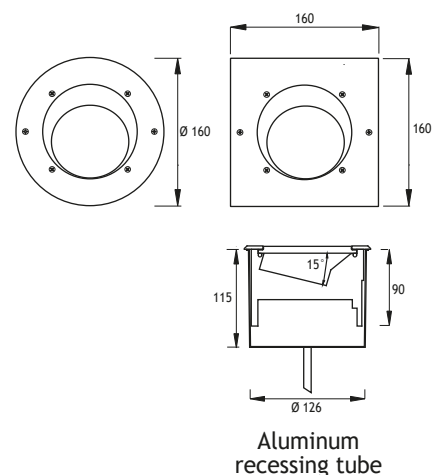
BELKIS 3 Fix to Recessing Tube with Screws



1 x 500 mA (18 W) LED or 1 x 700 mA (25 W) LED

		Total Lighting Output		18W Round	18W Square	25W Round	25W Square
		18W	25W				
☀ Warm White	3000 K	1170 lm	1620 lm	119901	119911	119921	119931
☾ Natural White	4000 K	1404 lm	1945 lm	119902	119912	119922	119932

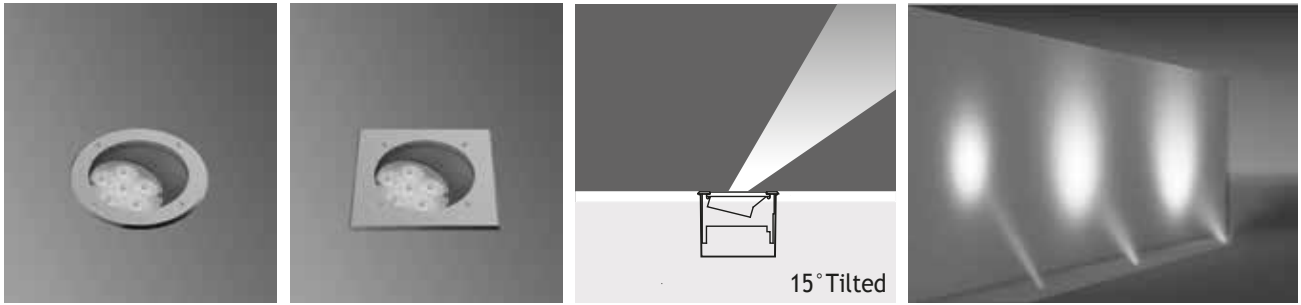
- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



BELKIS 3 RECESSED RGB LED FIXTURES

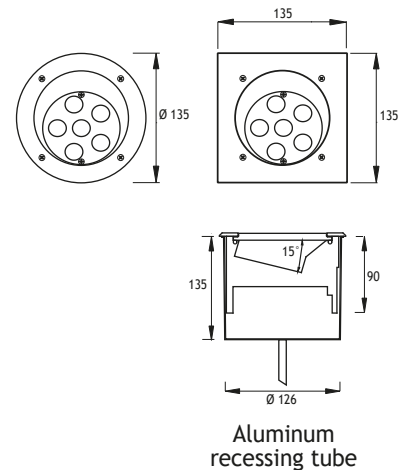
Class I IP67 IK10

Asymmetrical 15° Tilted BELKIS 3 Fix to Recessing Tube with Silicone



18 x 350 mA (18 W) RGB LED

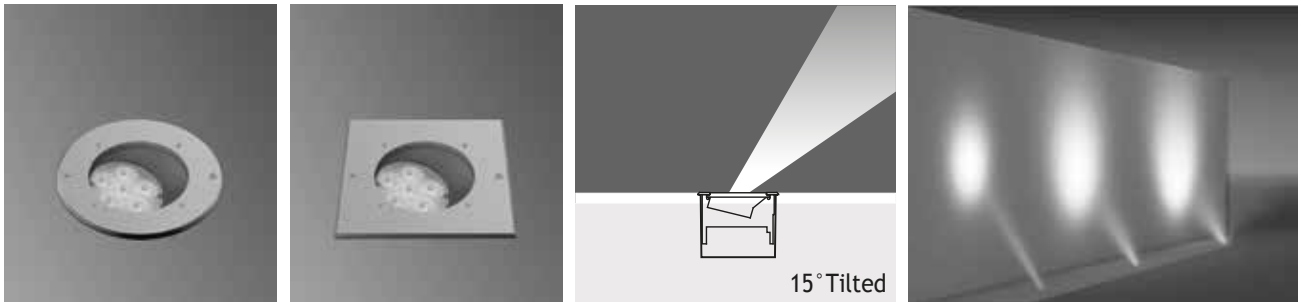
- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



	Code No
Round	Square
423141	423151

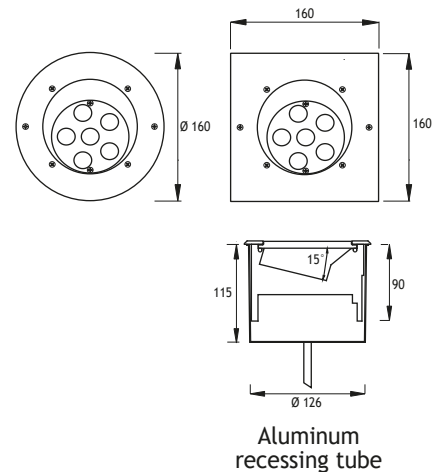


Asymmetrical 15° Tilted BELKIS 3 Fix to Recessing Tube with Screws



18 x 350 mA (18 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



	Code No
Round	Square
423161	423171

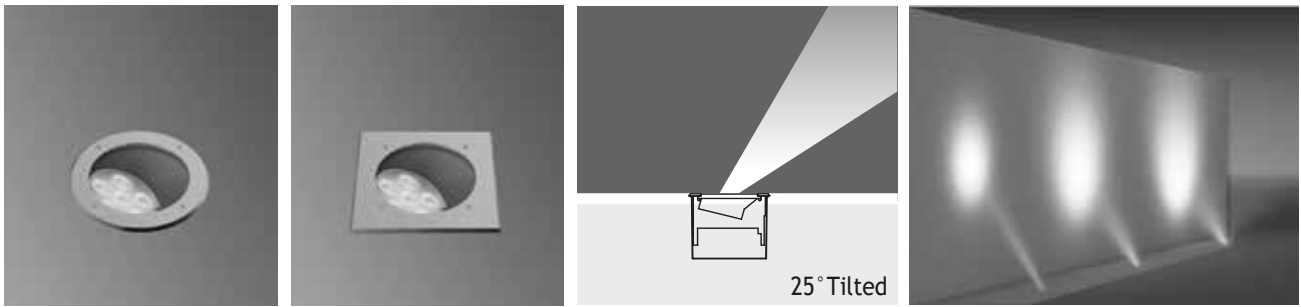


BELKIS 3 RECESSED LED FIXTURES

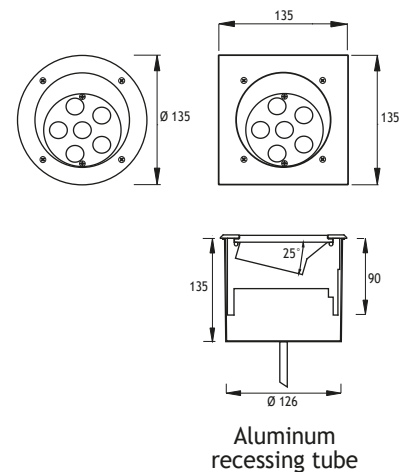
Class I IP67 IK10

Asymmetrical 25° Tilted

BELKIS 3 Fix to Recessing Tube with Silicone



6 x 350 mA (6 W) LED		Total Lighting Output	Code No	
			Round	Square
☀️ Warm White	3000 K	510 lm	423181	423191
☀️ Natural White	4500 K	510 lm	423182	423192
☀️ Cool White	6000 K	612 lm	423183	423193
🌊 Blue			423184	423194
🔴 Red			423185	423195
🟡 Amber			423186	423196
🟢 Green			423187	423197



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

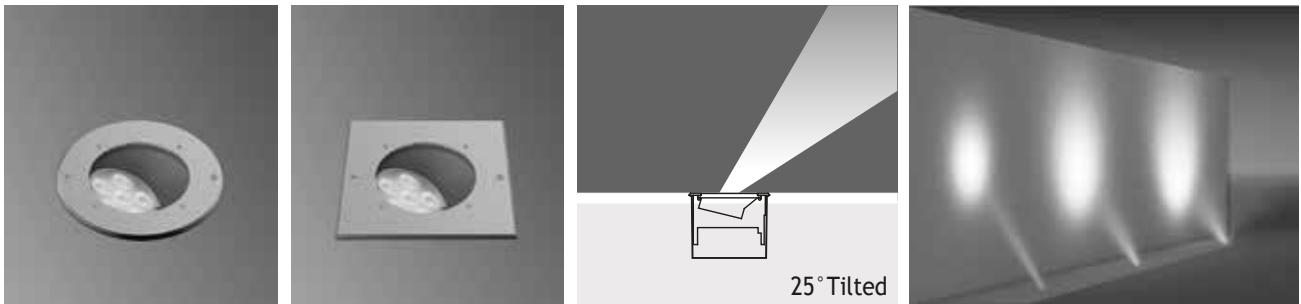
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

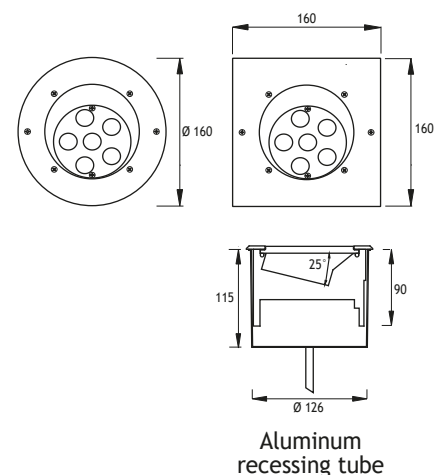
Available with springs for false ceiling.

Asymmetrical 25° Tilted

BELKIS 3 Fix to Recessing Tube with Screws



6 x 350 mA (6 W) LED		Total Lighting Output	Code No	
			Round	Square
☀️ Warm White	3000 K	510 lm	423201	423211
☀️ Natural White	4500 K	510 lm	423202	423212
☀️ Cool White	6000 K	612 lm	423203	423213
🌊 Blue			423204	423214
🔴 Red			423205	423215
🟡 Amber			423206	423216
🟢 Green			423207	423217



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

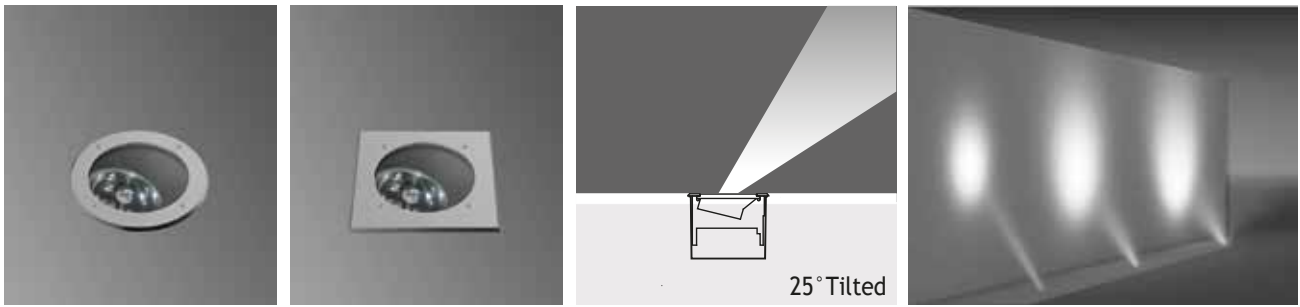
Available with springs for false ceiling.

BELKIS 3 RECESSED LED WITH TIR LENS FIXTURES

Class I IP67 IK10

Asymmetrical 25° Tilted

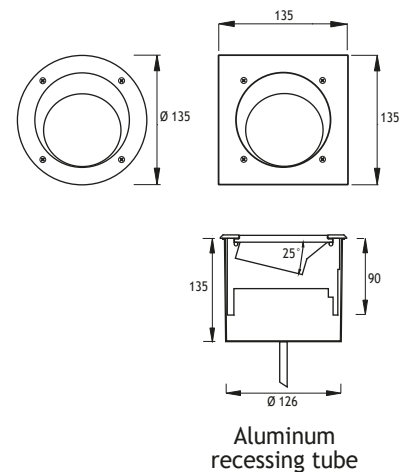
BELKIS 3 Fix to Recessing Tube with Silicone



1 x 500 mA (18 W) LED or 1 x 700 mA (25 W) LED

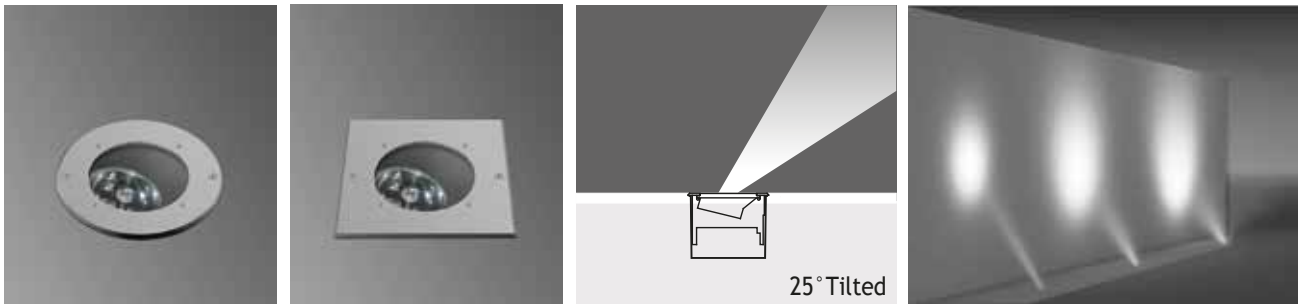
		Total Lighting Output		18W Round	18W Square	25W Round	25W Square
		18W	25W				
☀ Warm White	3000 K	1170 lm	1620 lm	120001	120011	120021	120031
☁ Natural White	4000 K	1404 lm	1945 lm	120002	120012	120022	120032

- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



Asymmetrical 25° Tilted

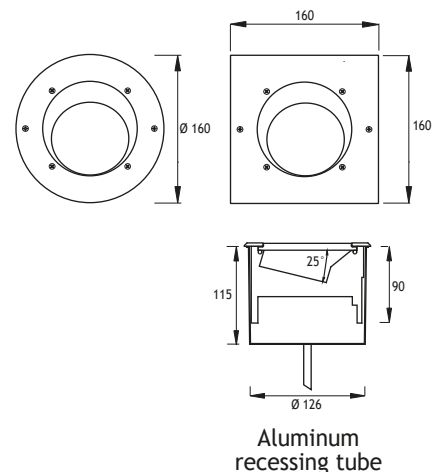
BELKIS 3 Fix to Recessing Tube with Screws



1 x 500 mA (18 W) LED or 1 x 700 mA (25 W) LED

		Total Lighting Output		18W Round	18W Square	25W Round	25W Square
		18W	25W				
☀ Warm White	3000 K	1170 lm	1620 lm	120101	120111	120121	120131
☁ Natural White	4000 K	1404 lm	1945 lm	120102	120112	120122	120132

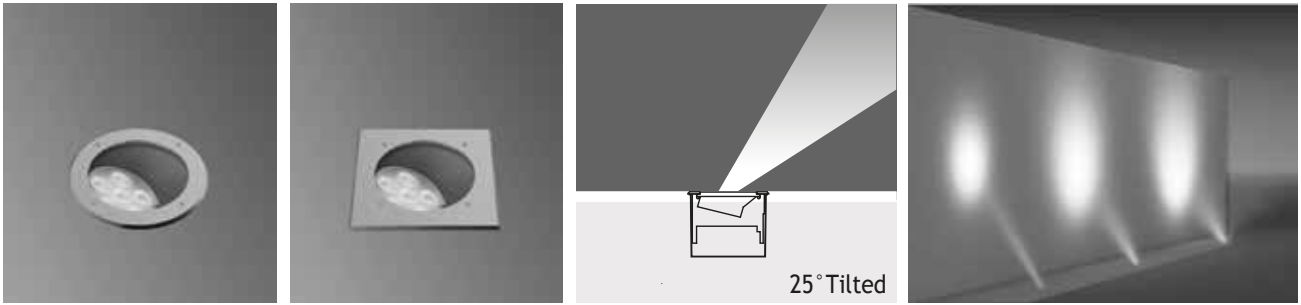
- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



BELKIS 3 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Asymmetrical 25° Tilted BELKIS 3 Fix to Recessing Tube with Silicone

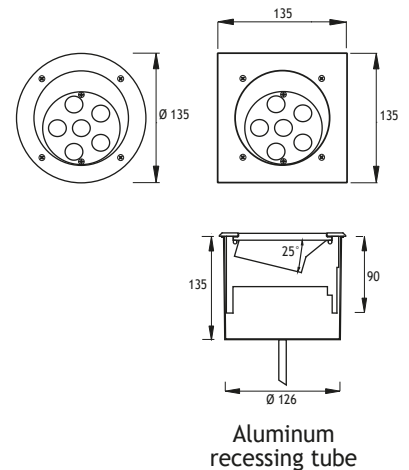


18 x 350 mA (18 W) RGB LED

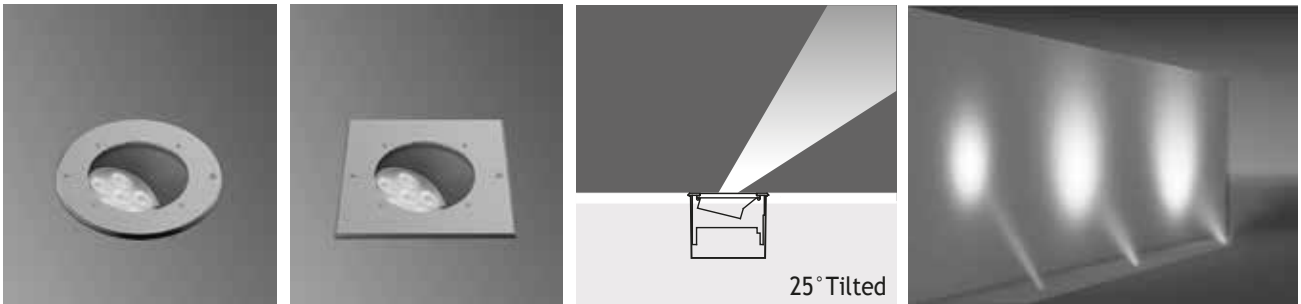
- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



	Code No
Round	Square
423221	423231



Asymmetrical 25° Tilted BELKIS 3 Fix to Recessing Tube with Screws

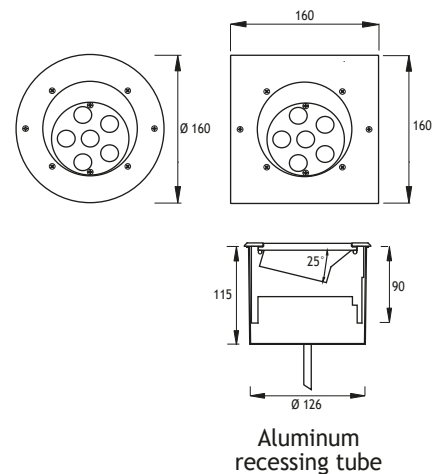


18 x 350 mA (18 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



	Code No
Round	Square
423241	423251

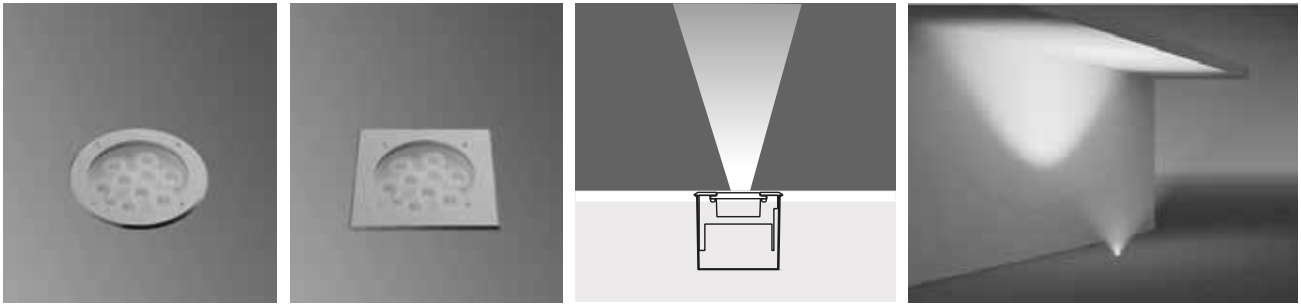


BELKIS 4 RECESSED LED FIXTURES

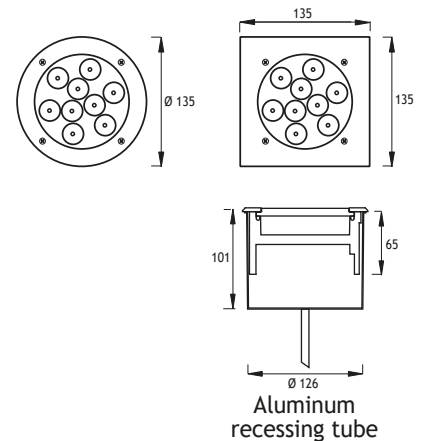
Class I IP67 IK10

Symmetrical

BELKIS 4 Fix to Recessing Tube with Silicone



	9 x 350 mA (9 W) LED	Total Lighting Output	Code No	
			Round	Square
☀️	Warm White 3000 K	765 lm	422301	422311
☀️	Natural White 4500 K	765 lm	422306	422316
☀️	Cool White 6000 K	918 lm	422307	422317
🌊	Blue		422302	422312
🔴	Red		422303	422313
🟡	Amber		422304	422314
🟢	Green		422305	422315



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

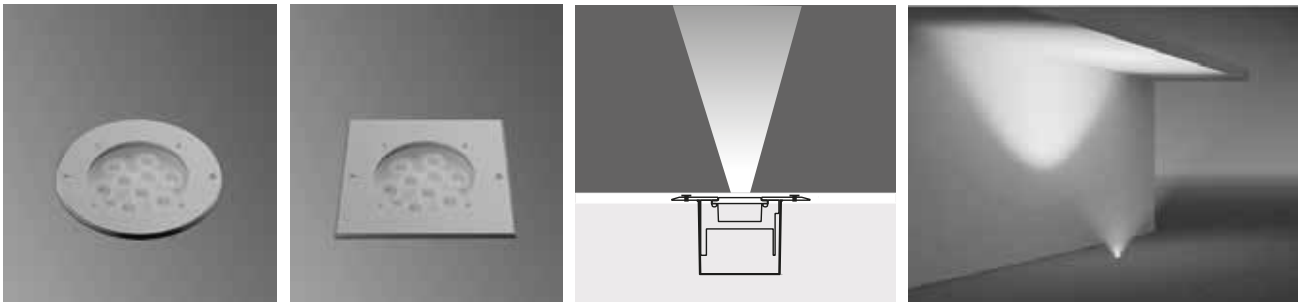
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

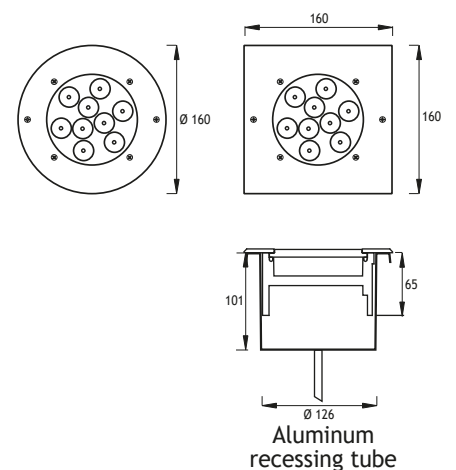
Cable : Potted 5 m 3x0,75 H03 VV-F

Symmetrical

BELKIS 4 Fix to Recessing Tube with Screws



	9 x 350 mA (9 W) LED	Total Lighting Output	Code No	
			Round	Square
☀️	Warm White 3000 K	765 lm	422321	422331
☀️	Natural White 4500 K	765 lm	422326	422336
☀️	Cool White 6000 K	918 lm	422327	422337
🌊	Blue		422322	422332
🔴	Red		422323	422333
🟡	Amber		422324	422334
🟢	Green		422325	422335



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

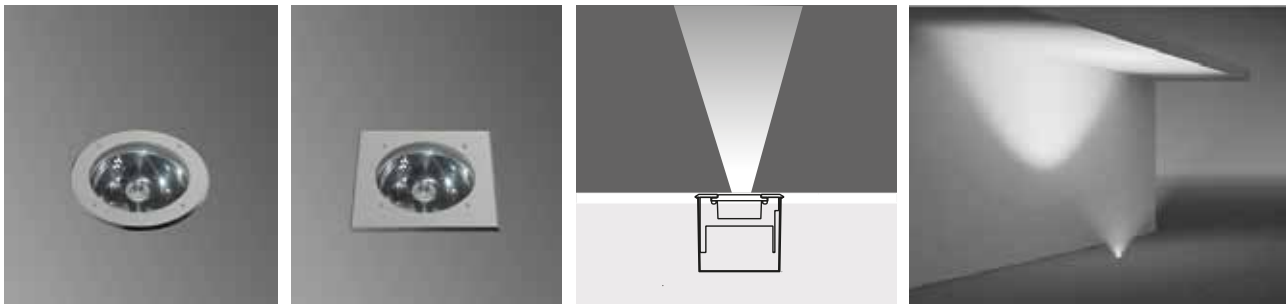
Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS 4 RECESSED LED WITH TIR LENS FIXTURES

Class I IP67 IK10

Symmetrical

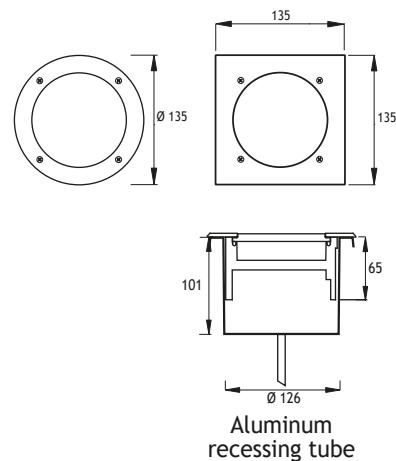
BELKIS 4 Fix to Recessing Tube with Silicone



1 x 500 mA (18 W) LED or 1 x 700 mA (25 W) LED

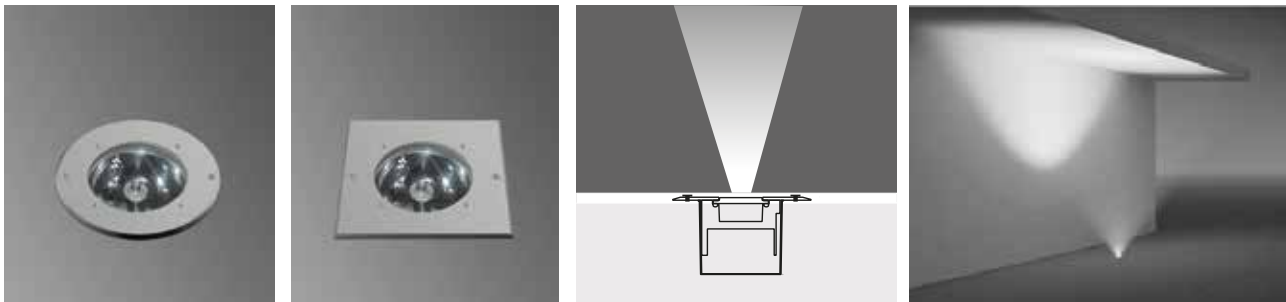
		Total Lighting Output		13W Round	13W Square	25W Round	25W Square
		18W	25W				
☀ Warm White	3000 K	1170 lm	1620 lm	120201	120211	120221	120231
☁ Natural White	4000 K	1404 lm	1945 lm	120202	120212	120222	120232

- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



Symmetrical

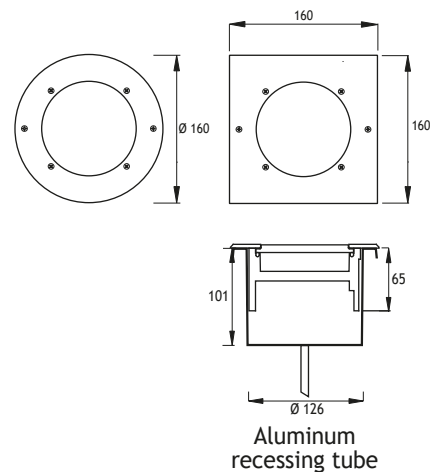
BELKIS 4 Fix to Recessing Tube with Screws



1 x 500 mA (18 W) LED or 1 x 700 mA (25 W) LED

		Total Lighting Output		13W Round	13W Square	25W Round	25W Square
		18W	25W				
☀ Warm White	3000 K	1170 lm	1620 lm	120301	120311	120321	120331
☁ Natural White	4000 K	1404 lm	1945 lm	120302	120312	120322	120332

- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

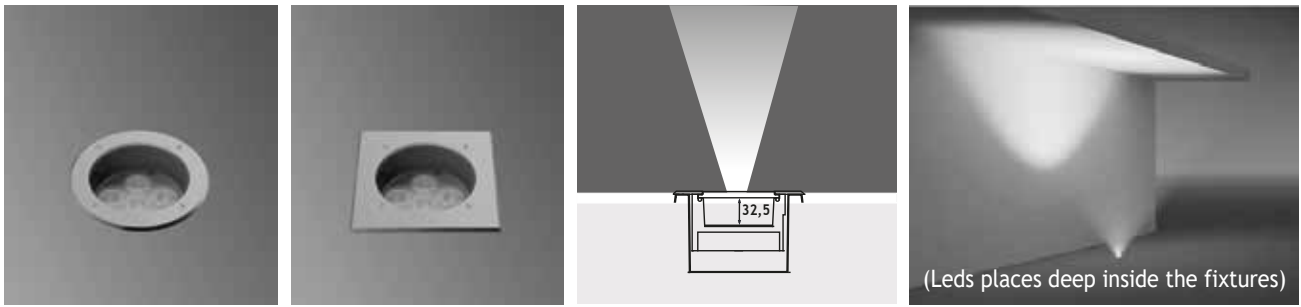


BELKIS 4 RECESSED UPLIGHT LOW GLARE LED FIXTURES

Class I IP67 IK10

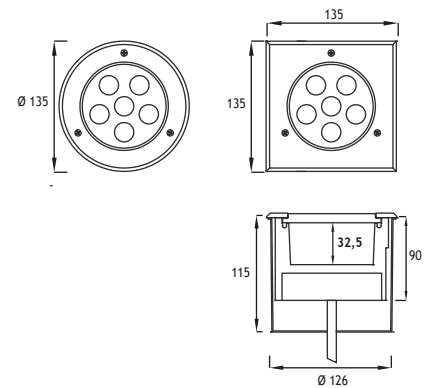
Symmetrical

BELKIS 4 Fix to Recessing Tube with Silicone



(Leds places deep inside the fixtures)

6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
		Round	Square
☀ Warm White 3000 K	510 lm	326201	326211
☀ Natural White 4500 K	510 lm	326202	326212
☀ Cool White 6000 K	612 lm	326203	326213
🌊 Blue		326204	326214
🔴 Red		326205	326215
🟡 Amber		326206	326216
🟢 Green		326207	326217



Aluminum recessing tube

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

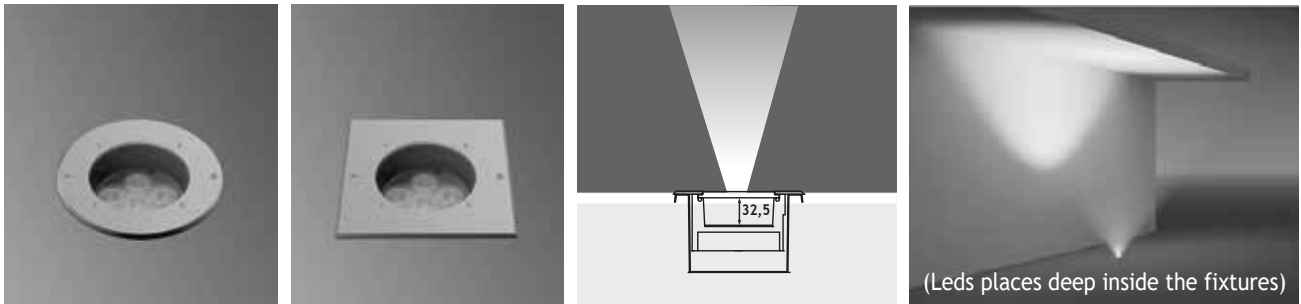
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

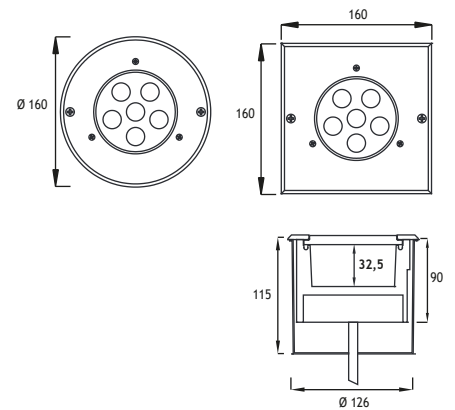
Symmetrical

BELKIS 4 Fix to Recessing Tube with Screws



(Leds places deep inside the fixtures)

6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
		Round	Square
☀ Warm White 3000 K	510 lm	326221	326231
☀ Natural White 4500 K	510 lm	326222	326232
☀ Cool White 6000 K	612 lm	326223	326233
🌊 Blue		326224	326234
🔴 Red		326225	326235
🟡 Amber		326226	326236
🟢 Green		326227	326237



Aluminum recessing tube

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

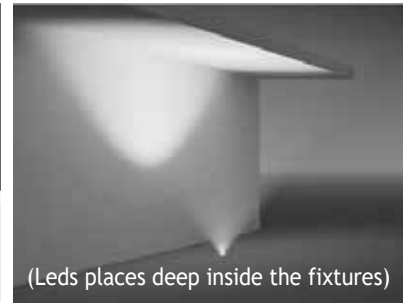
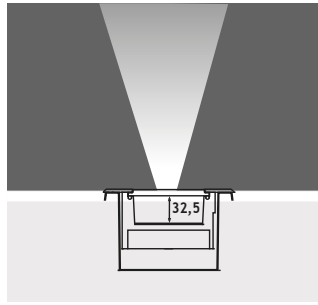
Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS 4 RECESSED UPLIGHT LOW GLARE LED FIXTURES

Class I IP67 IK10

Symmetrical

BELKIS 4 Fix to Recessing Tube with Silicone



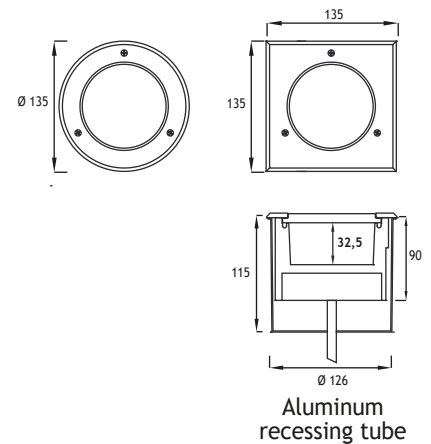
13W x 350 mA

Led : 350 mA 13W (Nichia)

Reflector : 24° or 38°

Gear : 240V Non-Dimmable Driver

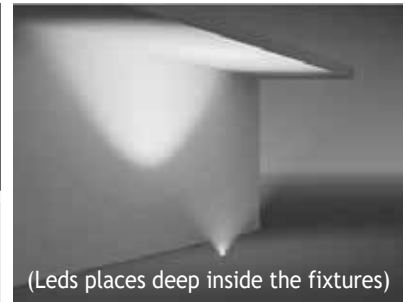
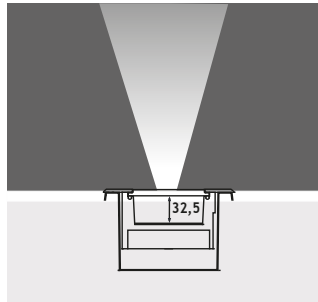
Cable : 0,5 m 2x0,75 mm H03 VV-F



		Total Lighting Output	Code No	
			Round	Square
☀	Warm White 3000 K	1750 lm	326301	326311
☁	Natural White 4000 K	1900 lm	326302	326312

Symmetrical

BELKIS 4 Fix to Recessing Tube with Screws



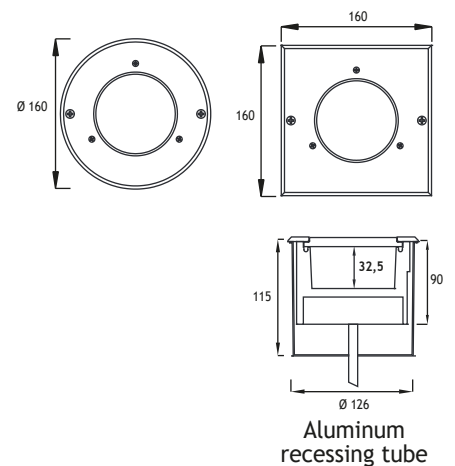
13W x 350 mA

Led : 350 mA 13W (Nichia)

Reflector : 24° or 38°

Gear : 240V Non-Dimmable Driver

Cable : 0,5 m 2x0,75 mm H03 VV-F



		Total Lighting Output	Code No	
			Round	Square
☀	Warm White 3000 K	1750 lm	326321	326331
☁	Natural White 4000 K	1900 lm	326322	326332

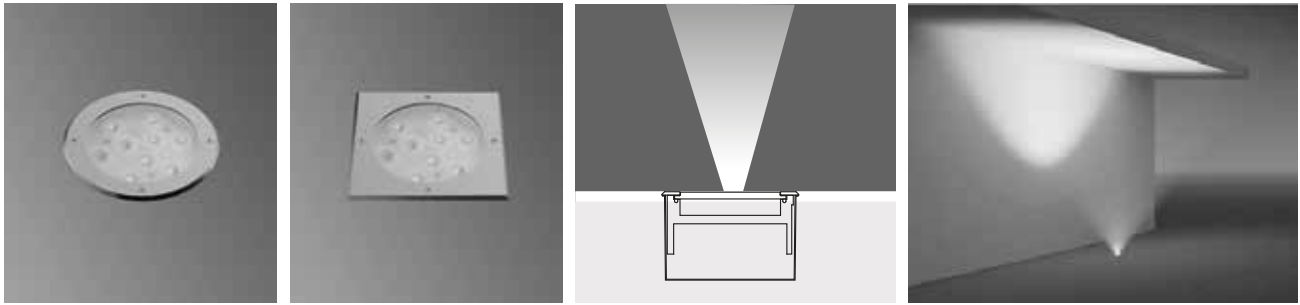


BELKIS 5 RECESSED LED FIXTURES

Class I IP67 IK10

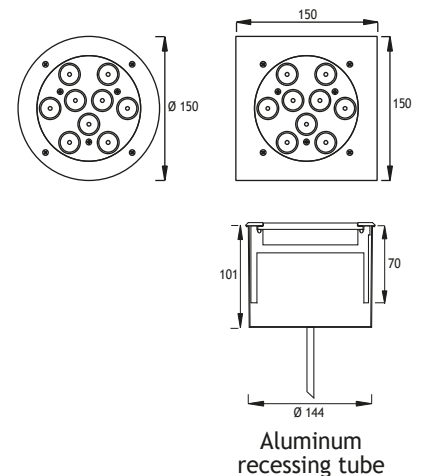
Symmetrical

BELKIS 5 Fix to Recessing Tube with Silicone



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W Round	9W Square	27W Round	27W Square
		9W	27W				
☀ Warm White	3000 K	765 lm	2100 lm	422421	422431	423301	423311
☁ Natural White	4500 K	765 lm	2100 lm	422426	422436	423302	423312
☀ Cool White	6000 K	918 lm	2520 lm	422427	422437	423303	423313
🌊 Blue				422422	422432	423304	423314
🔴 Red				422423	422433	423305	423315
🟡 Amber				422424	422434	423306	423316
🟢 Green				422425	422435	423307	423317



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

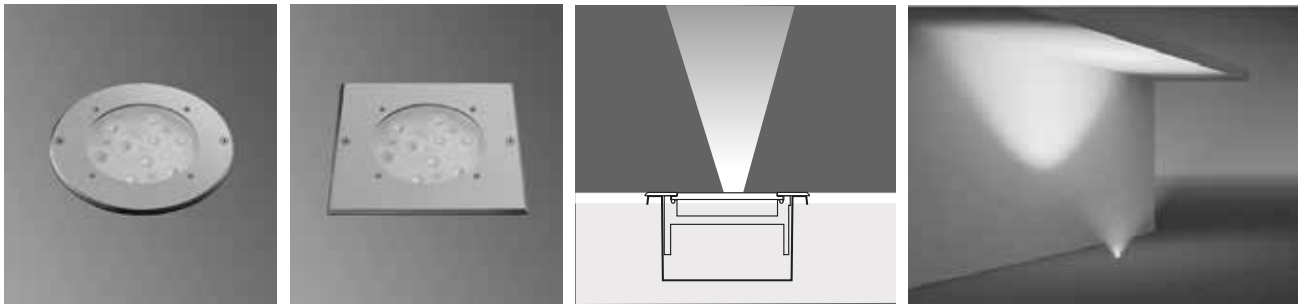
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

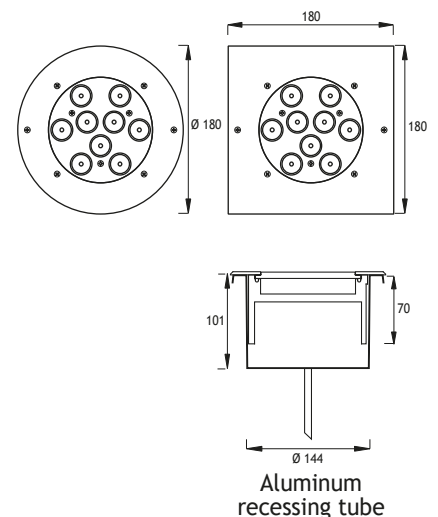
Symmetrical

BELKIS 5 Fix to Recessing Tube with Screws



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W Round	9W Square	27W Round	27W Square
		9W	27W				
☀ Warm White	3000 K	765 lm	2100 lm	422441	422451	423321	423331
☁ Natural White	4500 K	765 lm	2100 lm	422446	422456	423322	423332
☀ Cool White	6000 K	918 lm	2520 lm	422447	422457	423323	423333
🌊 Blue				422442	422452	423324	423334
🔴 Red				422443	422453	423325	423335
🟡 Amber				422444	422454	423326	423336
🟢 Green				422445	422455	423327	423337



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

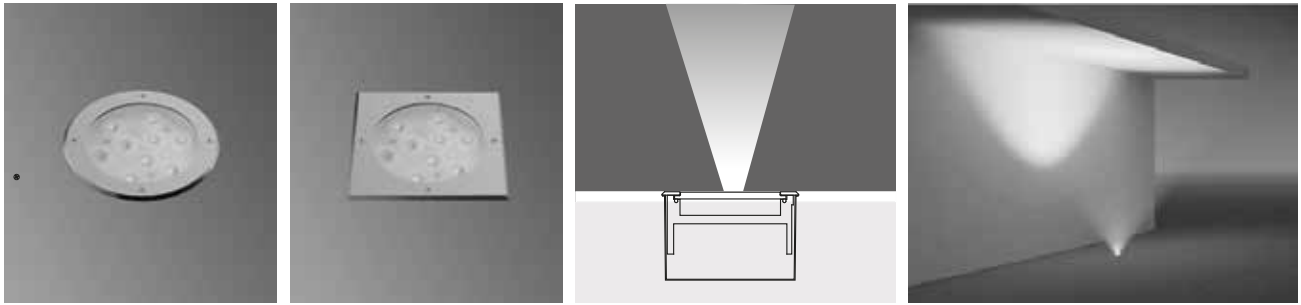
Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS 5 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Symmetrical

BELKIS 5 Fix to Recessing Tube with Silicone



27 x 350 mA (27 W) RGB LED

Voltage : 240V A.C with remote driver

Lens : 25° or 40°

Diffuser : Clear Glass
8 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

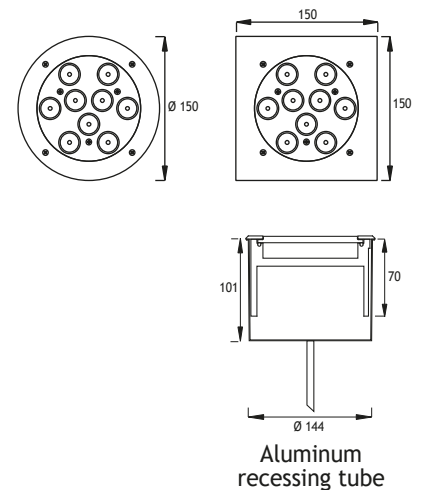
Control by DMX, remote control, or push button



Code No

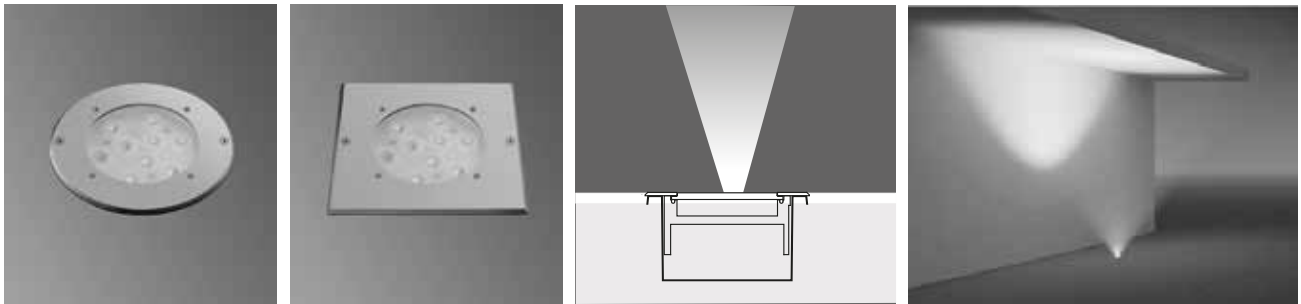
Round Square

423341 423351



Symmetrical

BELKIS 5 Fix to Recessing Tube with Screws



27 x 350 mA (27 W) RGB LED

Voltage : 240V A.C with remote driver

Lens : 25° or 40°

Diffuser : Clear Glass
8 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

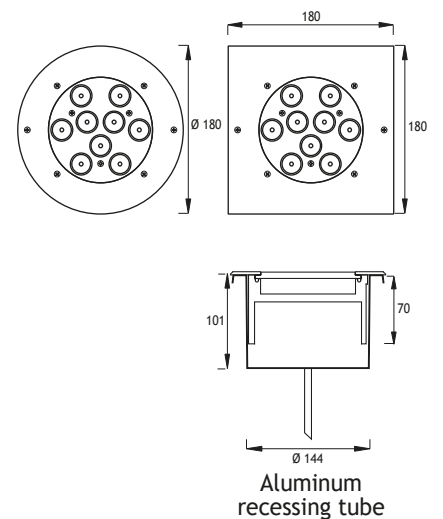
Control by DMX, remote control, or push button



Code No

Round Square

422481 422491

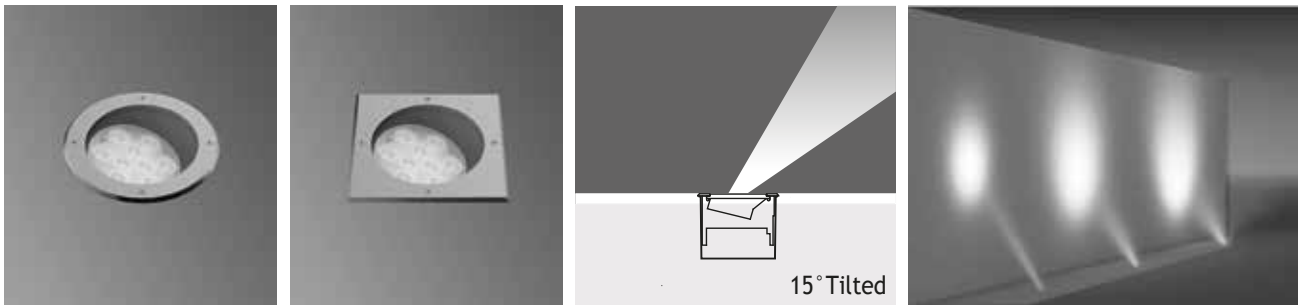




BELKIS 5 RECESSED LED FIXTURES

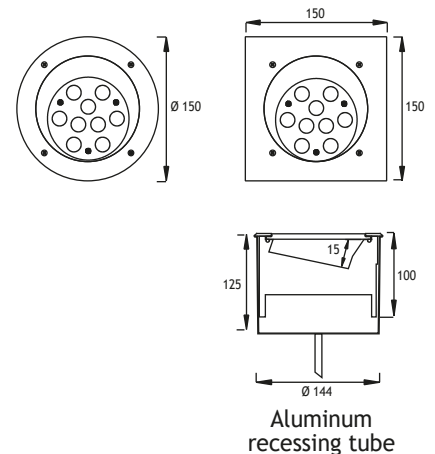
Class I IP67 IK10

Asymmetrical 15° Tilted BELKIS 5 Fix to Recessing Tube with Silicone



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W Round	9W Square	27W Round	27W Square
		9W	27W				
☀ Warm White	3000 K	765 lm	2100 lm	423361	423371	423601	423611
☁ Natural White	4500 K	765 lm	2100 lm	423362	423372	423602	423612
☀ Cool White	6000 K	918 lm	2520 lm	423363	423373	423603	423613
🌊 Blue				423364	423374	423604	423614
🔴 Red				423365	423375	423605	423615
🟡 Amber				423366	423376	423606	423616
🟢 Green				423367	423377	423607	423617



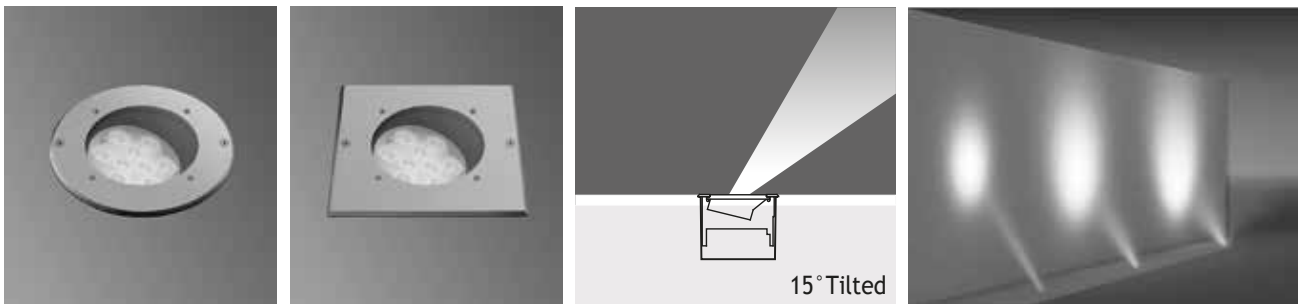
Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

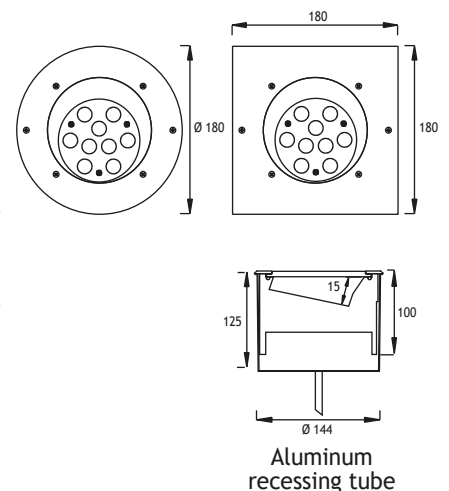
Cable : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 15° Tilted BELKIS 5 Fix to Recessing Tube with Screws



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W Round	9W Square	27W Round	27W Square
		9W	27W				
☀ Warm White	3000 K	765 lm	2100 lm	423381	423391	423621	423631
☁ Natural White	4500 K	765 lm	2100 lm	423382	423392	423622	423632
☀ Cool White	6000 K	918 lm	2520 lm	423383	423393	423623	423633
🌊 Blue				423384	423394	423624	423634
🔴 Red				423385	423395	423625	423635
🟡 Amber				423386	423396	423626	423636
🟢 Green				423387	423397	423627	423637



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

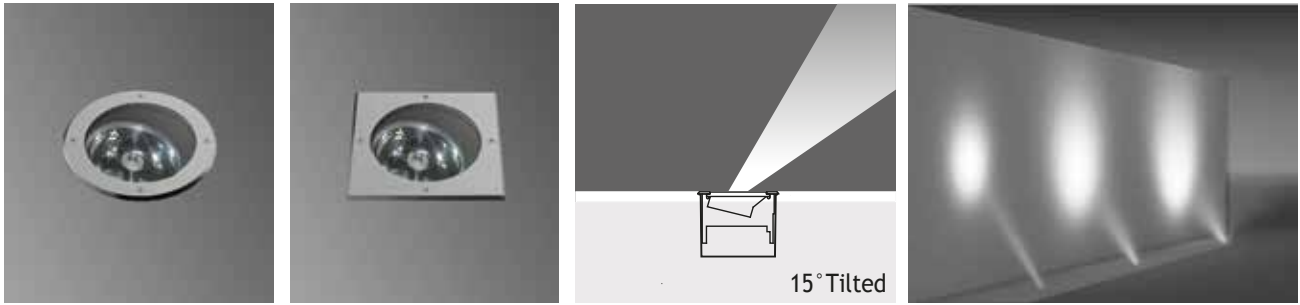
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS 5 RECESSED LED WITH TIR LENS FIXTURES

Class I IP67 IK10

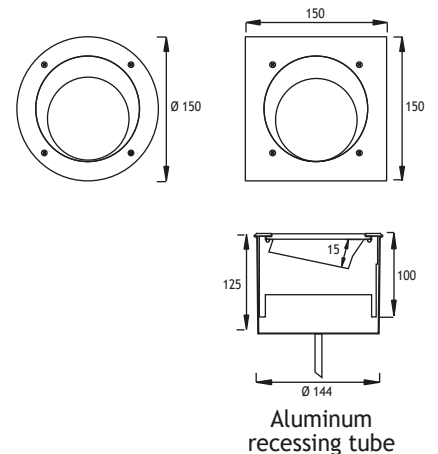
Asymmetrical 15° Tilted BELKIS 5 Fix to Recessing Tube with Silicone



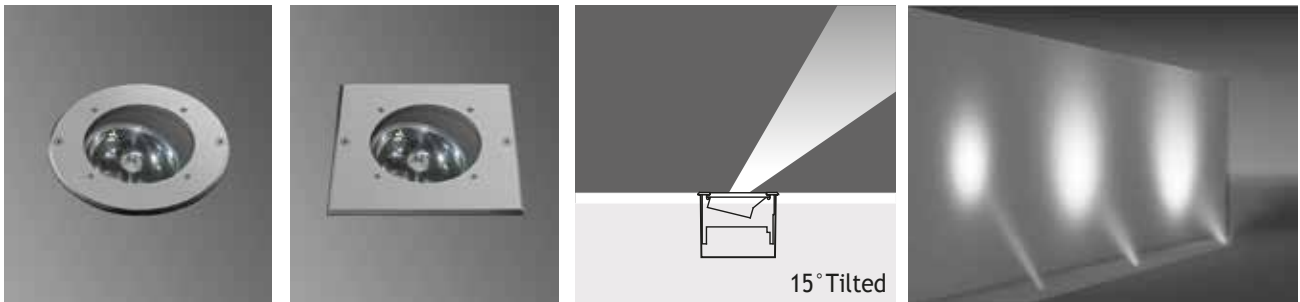
1 x 700 mA (25 W) LED or 1 x 900 mA (32 W) LED

		Total Lighting Output		25W Round	25W Square	32W Round	32W Square
		25W	32W				
☀ Warm White	3000 K	1645 lm	2134 lm	120401	120411	120421	120431
☁ Natural White	4000 K	1974 lm	2561 lm	120402	120412	120422	120432

- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



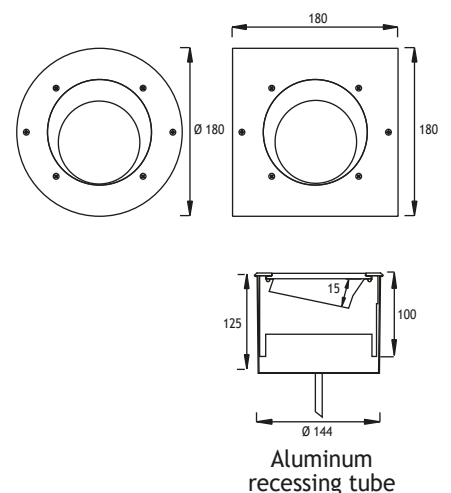
Asymmetrical 15° Tilted BELKIS 5 Fix to Recessing Tube with Screws



1 x 700 mA (25 W) LED or 1 x 900 mA (32 W) LED

		Total Lighting Output		25W Round	25W Square	32W Round	32W Square
		25W	32W				
☀ Warm White	3000 K	1645 lm	2134 lm	120501	120511	120521	120531
☁ Natural White	4000 K	1974 lm	2561 lm	120502	120512	120522	120532

- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

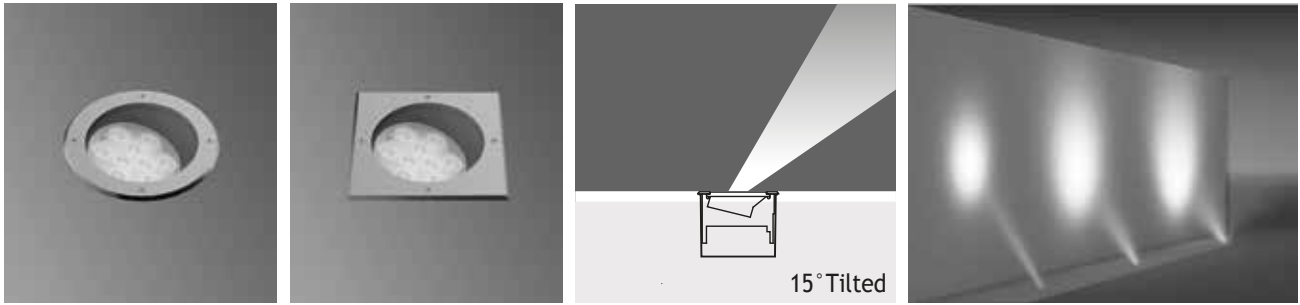


BELKIS 5 RECESSED LED FIXTURES

Class I IP67 IK10

Asymmetrical 15° Tilted

BELKIS 5 Fix to Recessing Tube with Silicone



27 x 350 mA (27 W) RGB LED

Voltage : 240V A.C with remote driver

Lens : 25° or 40°

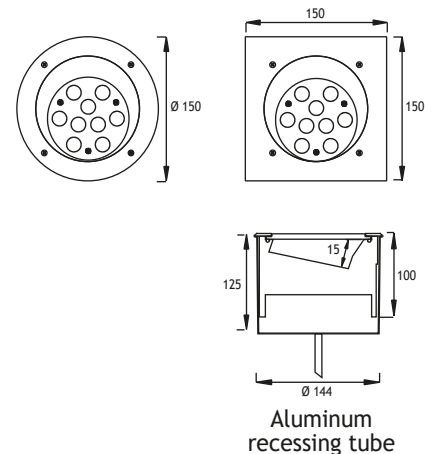
Diffuser : Clear Glass
8 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

Control by DMX, remote control, or push button

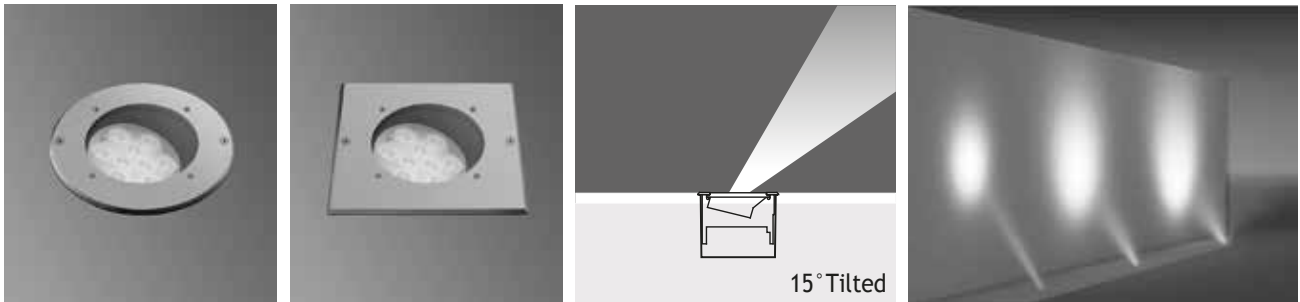


	Code No
Round	Square
423401	423411



Asymmetrical 15° Tilted

BELKIS 5 Fix to Recessing Tube with Screws



27 x 350 mA (27 W) RGB LED

Voltage : 240V A.C with remote driver

Lens : 25° or 40°

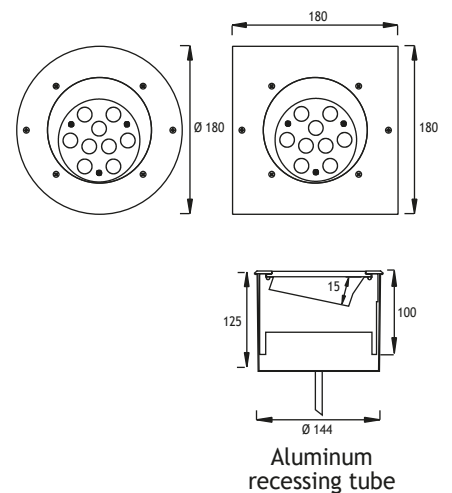
Diffuser : Clear Glass
8 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

Control by DMX, remote control, or push button



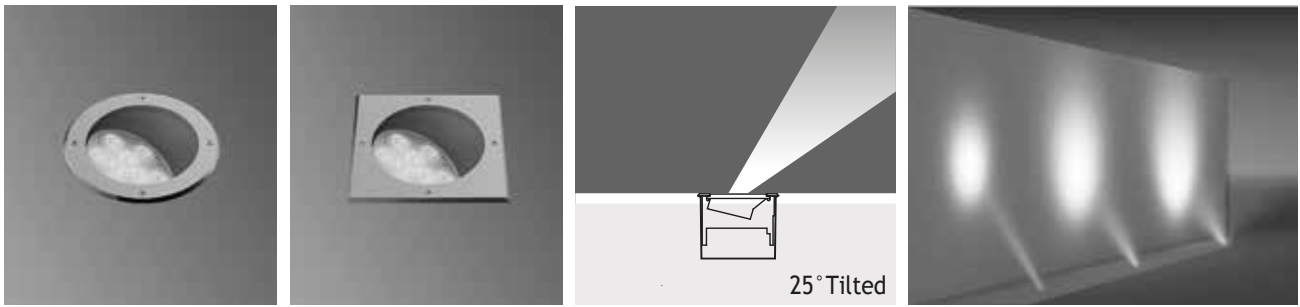
	Code No
Round	Square
423421	423431



BELKIS 5 RECESSED LED FIXTURES

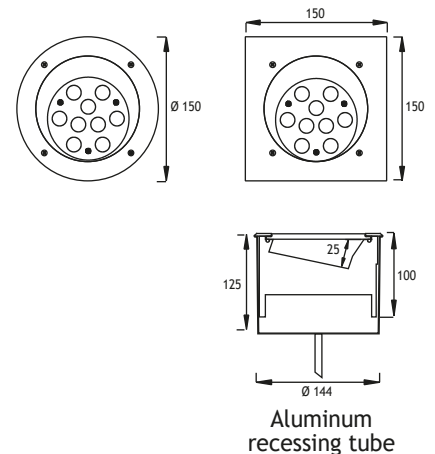
Class I IP67 IK10

Asymmetrical 25° Tilted BELKIS 5 Fix to Recessing Tube with Silicone



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W Round	9W Square	27W Round	27W Square
		9W	27W				
☀ Warm White	3000 K	765 lm	2100 lm	423441	423451	423641	423651
☀ Natural White	4500 K	765 lm	2100 lm	423442	423452	423642	423652
☀ Cool White	6000 K	918 lm	2520 lm	423443	423453	423643	423653
🌊 Blue				423444	423454	423644	423654
🔴 Red				423445	423455	423645	423655
🟡 Amber				423446	423456	423646	423656
🟢 Green				423447	423457	423647	423657



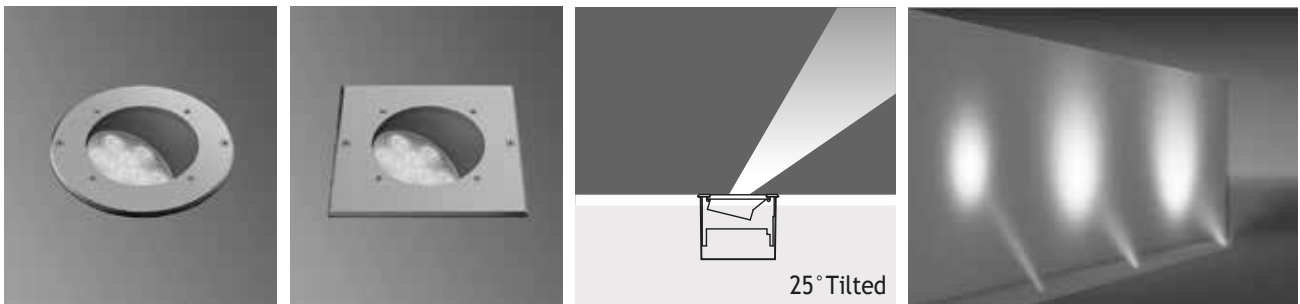
Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

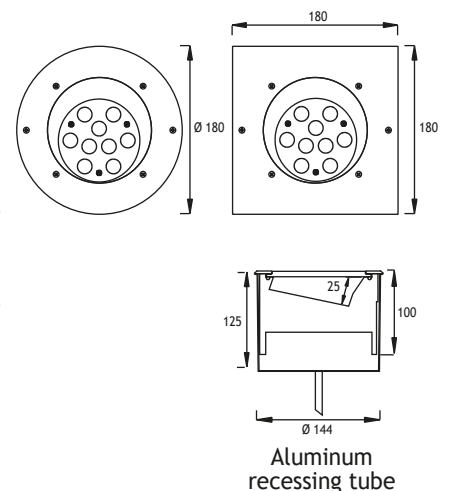
Cable : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 25° Tilted BELKIS 5 Fix to Recessing Tube with Screws



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W Round	9W Square	27W Round	27W Square
		9W	27W				
☀ Warm White	3000 K	765 lm	2100 lm	423461	423471	423661	423671
☀ Natural White	4500 K	765 lm	2100 lm	423462	423472	423662	423672
☀ Cool White	6000 K	918 lm	2520 lm	423463	423473	423663	423673
🌊 Blue				423464	423474	423664	423674
🔴 Red				423465	423475	423665	423675
🟡 Amber				423466	423476	423666	423676
🟢 Green				423467	423477	423667	423677



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

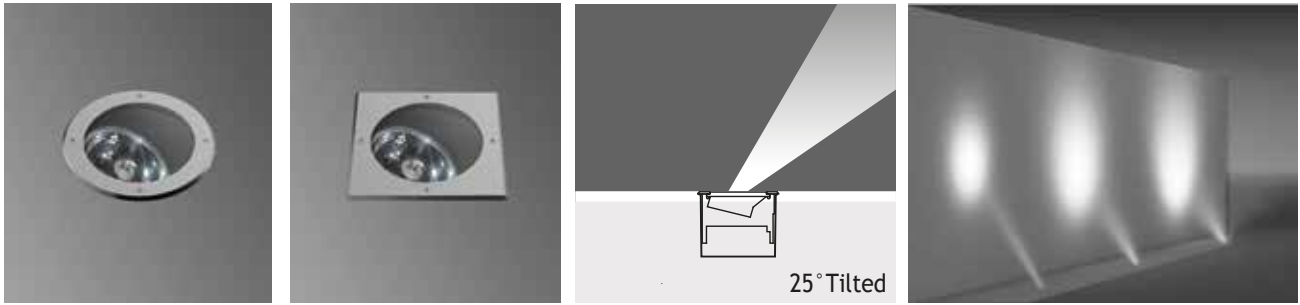
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS 5 RECESSED LED WITH TIR LENS FIXTURES

Class I IP67 IK10

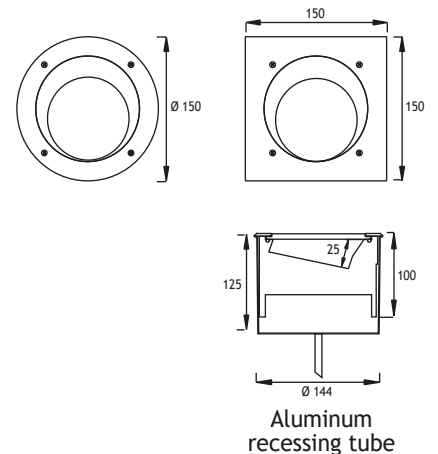
Asymmetrical 25° Tilted BELKIS 5 Fix to Recessing Tube with Silicone



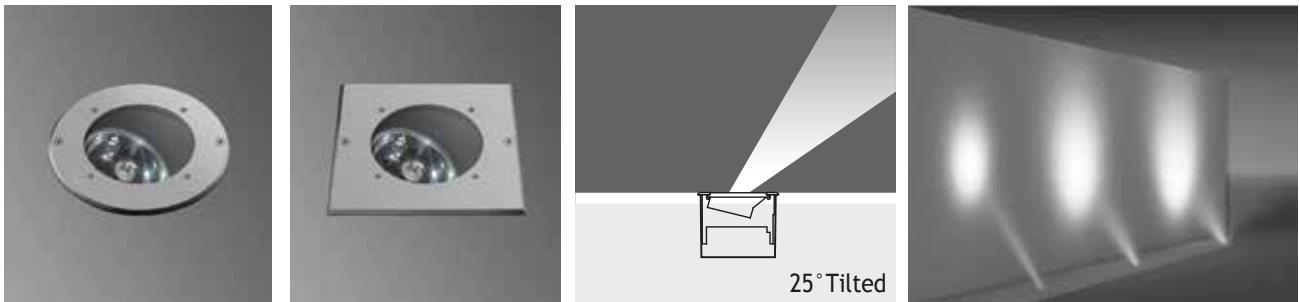
1 x 700 mA (25 W) LED or 1 x 900 mA (32 W) LED

		Total Lighting Output		25W Round	25W Square	32W Round	32W Square
		25W	32W				
☀ Warm White	3000 K	1645 lm	2134 lm	120601	120611	120621	120631
☾ Natural White	4000 K	1974 lm	2561 lm	120602	120612	120622	120632

- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



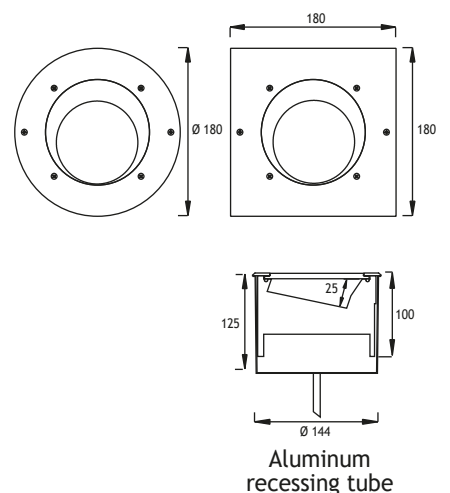
Asymmetrical 25° Tilted BELKIS 5 Fix to Recessing Tube with Screws



1 x 700 mA (25 W) LED or 1 x 900 mA (32 W) LED

		Total Lighting Output		25W Round	25W Square	32W Round	32W Square
		25W	32W				
☀ Warm White	3000 K	1645 lm	2134 lm	120701	120711	120721	120731
☾ Natural White	4000 K	1974 lm	2561 lm	120702	120712	120722	120732

- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

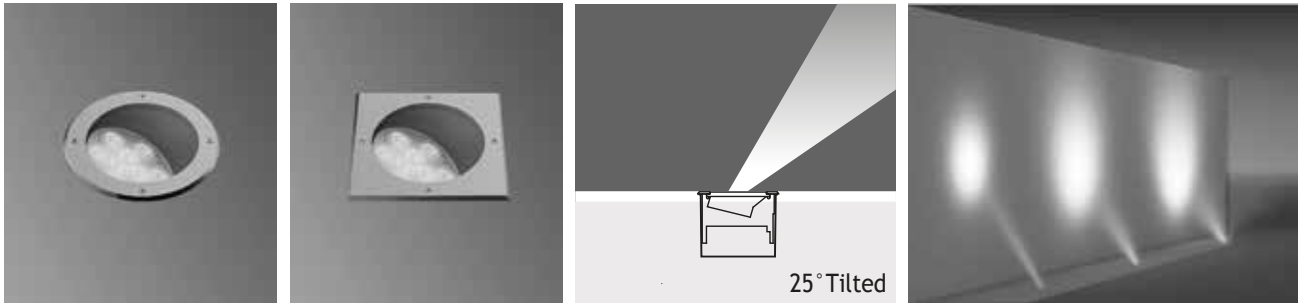


BELKIS 5 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Asymmetrical 25° Tilted

BELKIS 5 Fix to Recessing Tube with Silicone

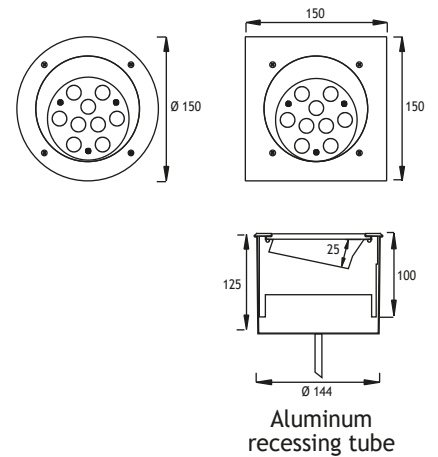


27 x 350 mA (27 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button

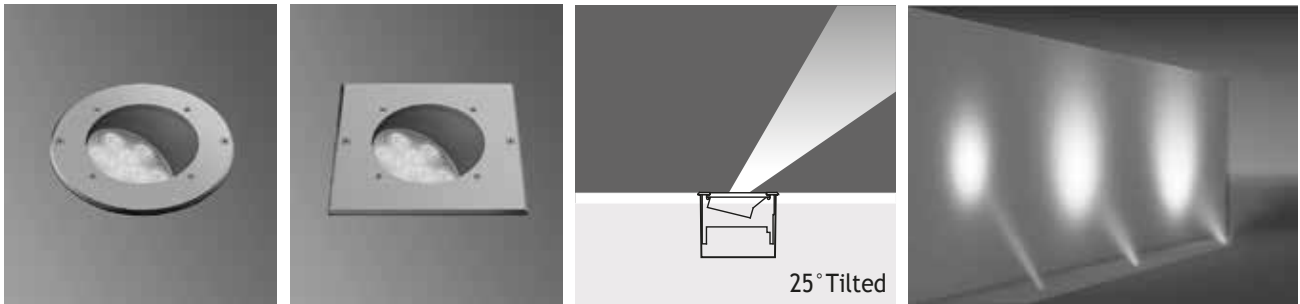


	Code No
Round	Square
423481	423491



Asymmetrical 25° Tilted

BELKIS 5 Fix to Recessing Tube with Screws

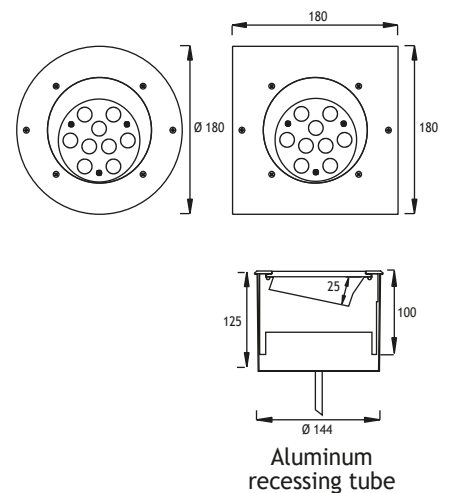


27 x 350 mA (27 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



	Code No
Round	Square
423501	423511

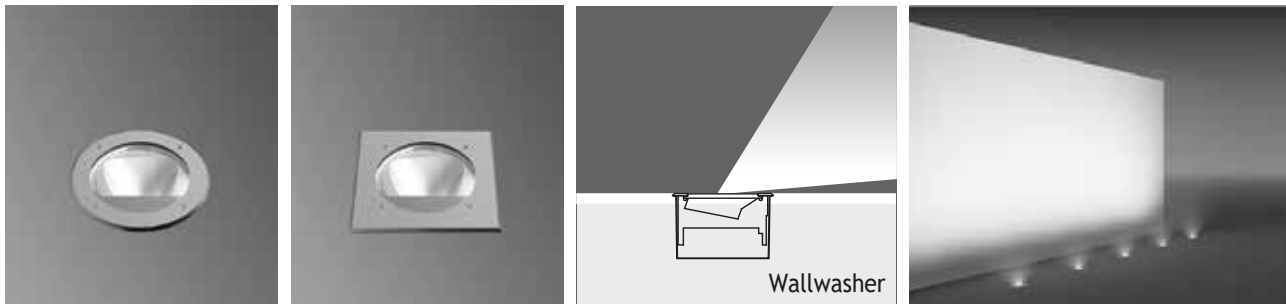


BELKIS 5 RECESSED LED FIXTURES

Class I IP67 IK10

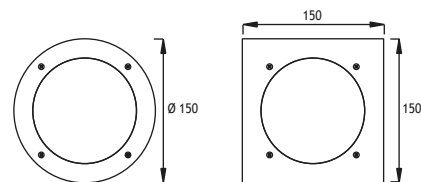
Asymmetrical Wallwasher

BELKIS 5 Fix to Recessing Tube with Silicone

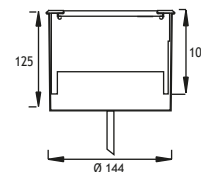


1 x 350 mA (12 W) LED or 1 x 700 mA (25 W) LED

		Total Lighting Output		12W Round	12W Square	25W Round	25W Square
		12W	25W				
☀ Warm White	2700 K	1005 lm	1848 lm	423701	423711	423801	423811
☀ Warm White	3000 K	1005 lm	1848 lm	423702	423712	423802	423812
☀ Natural White	4000 K	1078 lm	1919 lm	423703	423713	423803	423813



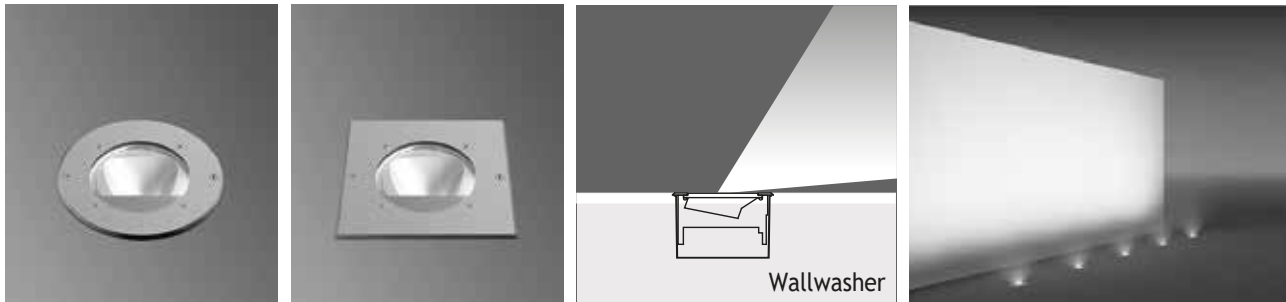
- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



Aluminum recessing tube

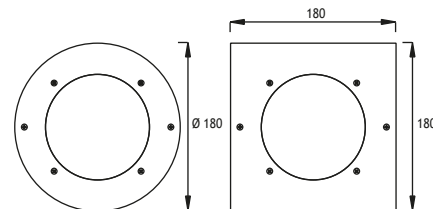
Asymmetrical Wallwasher

BELKIS 2 Fix to Recessing Tube with Screws

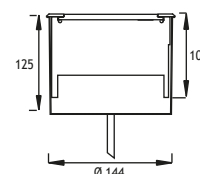


1 x 350 mA (12 W) LED or 1 x 700 mA (25 W) LED

		Total Lighting Output		12W Round	12W Square	25W Round	25W Square
		12W	25W				
☀ Warm White	2700 K	1005 lm	1848 lm	423721	423731	423821	423831
☀ Warm White	3000 K	1005 lm	1848 lm	423722	423732	423822	423832
☀ Natural White	4000 K	1078 lm	1919 lm	423723	423733	423823	423833



- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



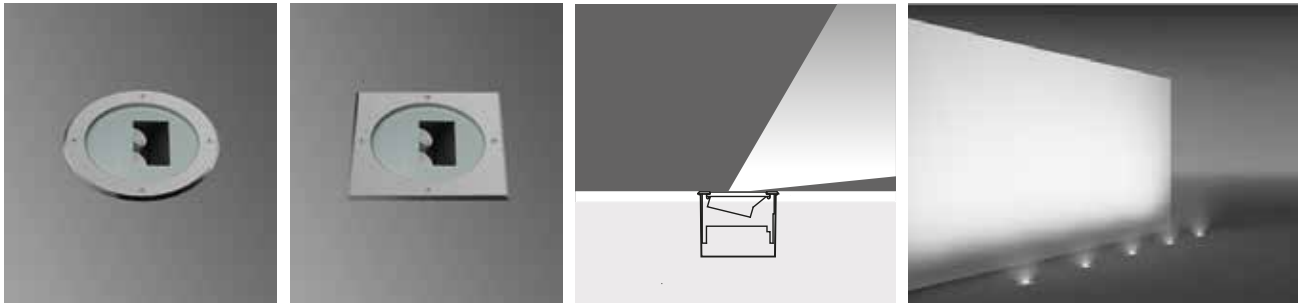
Aluminum recessing tube

BELKIS 5 RECESSED LED FIXTURES

Class I IP67 IK10

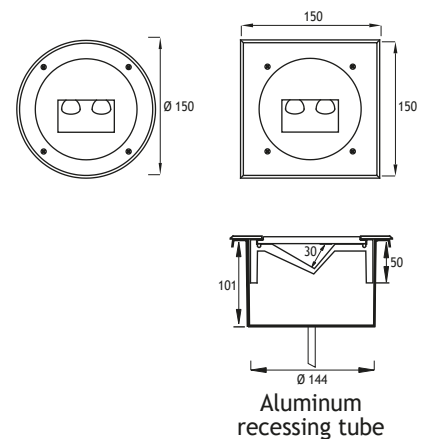
Asymmetrical Wallwasher

BELKIS 5 Fix to Recessing Tube with Silicone



2 x 700 mA (6 W) LED

			Total Lighting Output			
			30° Round	30° Square	60° Round	60° Square
☀️ Warm White	3000 K	450 lm	423521	423531	423561	423571
☀️ Natural White	4500 K	450 lm	423522	423532	423562	423572
☀️ Cool White	6000 K	540 lm	423523	423533	423563	423573
🟦 Blue			423524	423534	423564	423574
🔴 Red			423525	423535	423565	423575
🟡 Amber			423526	423536	423566	423576
🟢 Green			423527	423537	423567	423577



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

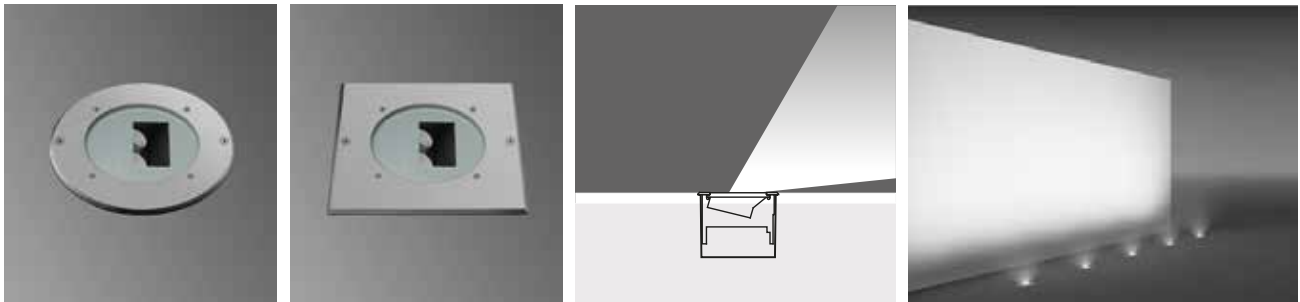
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

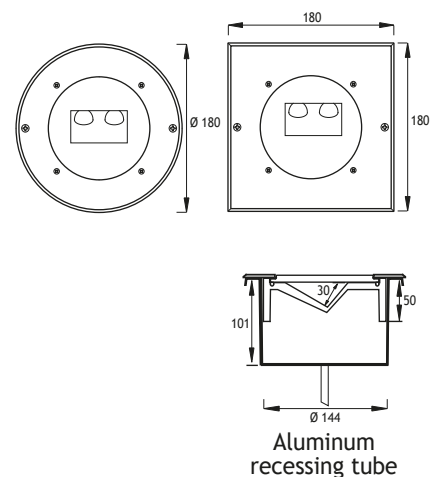
Asymmetrical Wallwasher

BELKIS 5 Fix to Recessing Tube with Screws



2 x 700 mA (6 W) LED

			Total Lighting Output			
			30° Round	30° Square	60° Round	60° Square
☀️ Warm White	3000 K	450 lm	423541	423551	423581	423591
☀️ Natural White	4500 K	450 lm	423542	423552	423582	423592
☀️ Cool White	6000 K	540 lm	423543	423553	423583	423593
🟦 Blue			423544	423554	423584	423594
🔴 Red			423545	423555	423585	423595
🟡 Amber			423546	423556	423586	423596
🟢 Green			423547	423557	423587	423597



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

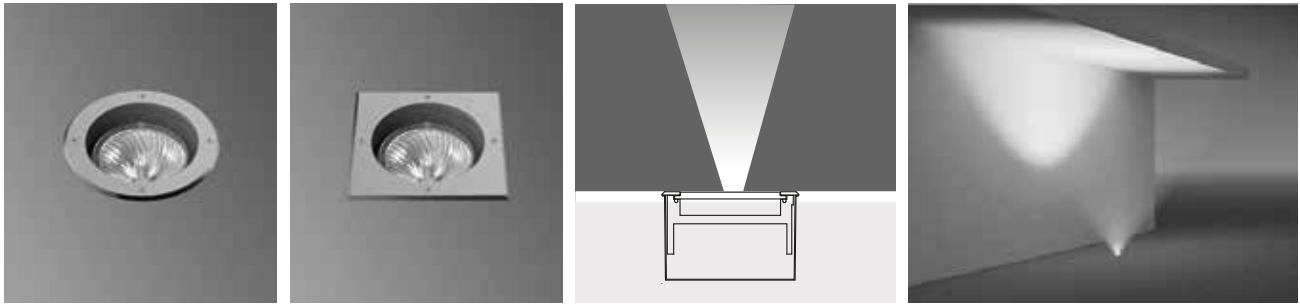
Cable : Potted 5 m 3x0,75 H03 VV-F

BELKIS 5 RECESSED HALOGEN FIXTURES

Class I IP67 IK10

Symmetrical

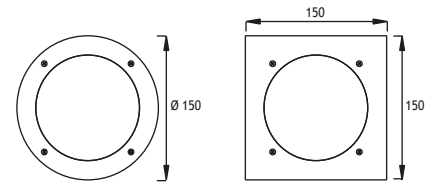
BELKIS 5 Fix to Recessing Tube with Silicone



HALOGEN 240W PAR 30 / 75W (10° or 30°)

Lampholder : E27 Fixed
 Reflector : -
 Diffuser : Clear Glass 8 mm (Frosted Glass on request)

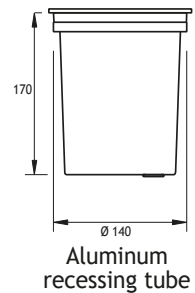
Code No
 Round Square
 324111 324211



COMPACT FLUO. AR 111 11W (45°)

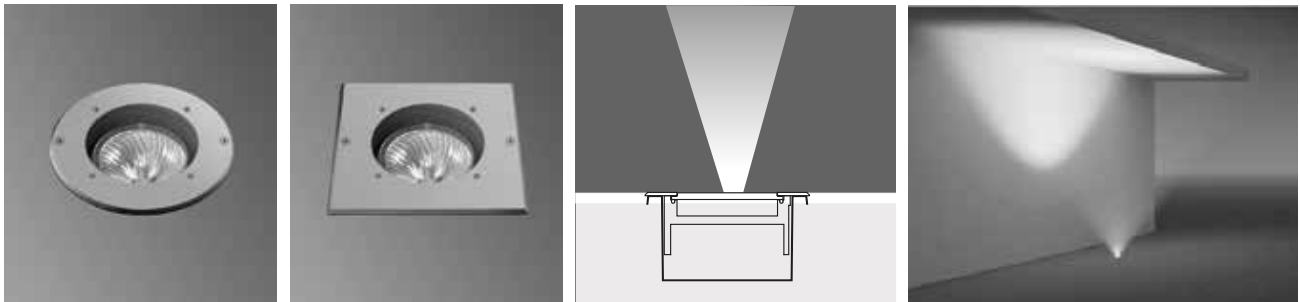
Lampholder : Gx53
 Reflector : -
 Diffuser : Clear Glass 8 mm (Frosted Glass on request)
 Lamp : Megaman
 Gear : Electronic (in lamp)

Code No
 Round Square
 324131 324231



Symmetrical

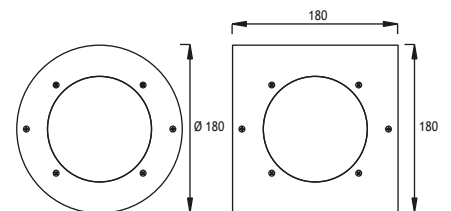
BELKIS 5 Fix to Recessing Tube with Screws



HALOGEN 240W PAR 30 / 75W (10° or 30°)

Lampholder : E27 Fixed
 Reflector : -
 Diffuser : Clear Glass 8 mm (Frosted Glass on request)

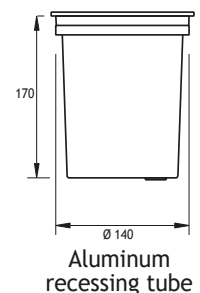
Code No
 Round Square
 324121 324221



COMPACT FLUO. AR 111 11W (45°)

Lampholder : Gx53
 Reflector : -
 Diffuser : Clear Glass 8 mm (Frosted Glass on request)
 Lamp : Megaman
 Gear : Electronic (in lamp)

Code No
 Round Square
 324141 324241



PATNOS RECESSED FIXTURES IP67 IK10

The Patnos series is an adaption of the Belkis Recessed series using less or no visible screws. No screws are visible on the cover if silicone is used to glue the fixture to the recessing tube. The series is designed to light walls, facades, columns, monuments, and trees. The fixtures are made of a combination of a 316L stainless steel cover and die cast aluminium body painted with electrostatic powder paint. Tempered glass, silicone gaskets and cast resin complete the fixture to make it IP67 IK10 and withstand rough environments. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The fixtures come with an aluminium recessing tube for easy mounting in the ground or concrete. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired light effect.

Asymmetrical LEDs

In this catalogue EMFA is introducing the tilted LED fixtures. These fixtures give an asymmetrical light output to facades, columns, bridges, monuments, and trees without losing light to the sky. The die cast aluminium body has a fixed built in tilt to allow for proper heat dissipation of the LEDs that can run up to 700mA.

Cover

316L Stainless steel

Body

Die cast aluminium

Recessing Box

Aluminium

Gaskets

Silicone

Diffusers

Tempered Glass

Screws

316L Stainless steel

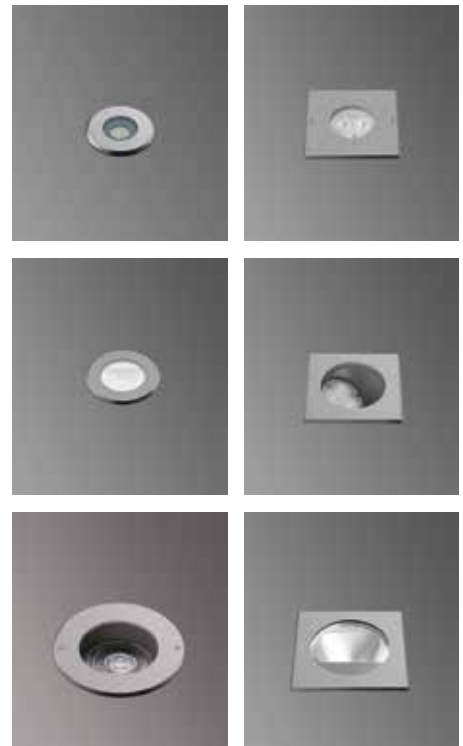
“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



Honeycomb Louvre

	Code No
Belkis 1	953521
Belkis 2	953522
Belkis 3	953523
Belkis 4	953524
Belkis 5	953525



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

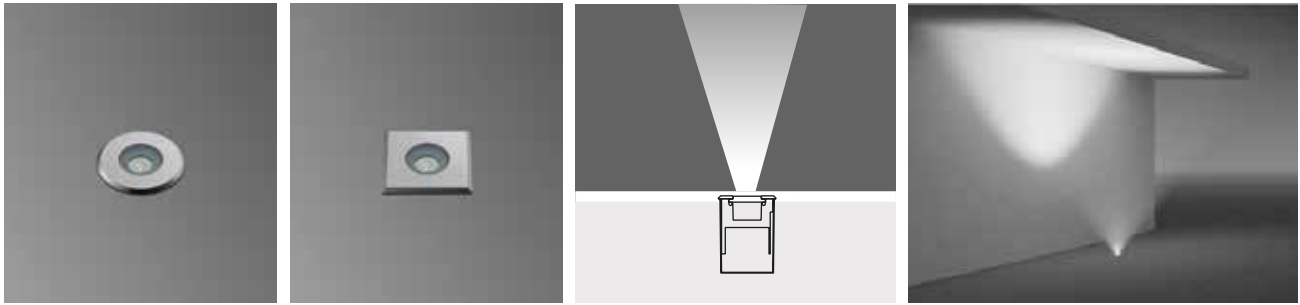
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

PATNOS 1 RECESSED LED FIXTURES

Class I IP67 IK10

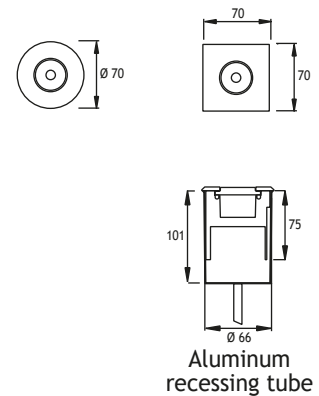
Symmetrical

PATNOS 1 Fix to Recessing Tube with Silicone



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

		Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀ Warm White	3000 K	85 lm	225 lm	160001	160011	160041	160051
☀ Natural White	4500 K	85 lm	225 lm	160002	160012	160042	160052
☀ Cool White	6000 K	102 lm	270 lm	160003	160013	160043	160053
🌊 Blue				160004	160014	160044	160054
🔴 Red				160005	160015	160045	160055
🟡 Amber				160006	160016	160046	160056
🟢 Green				160007	160017	160047	160057



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

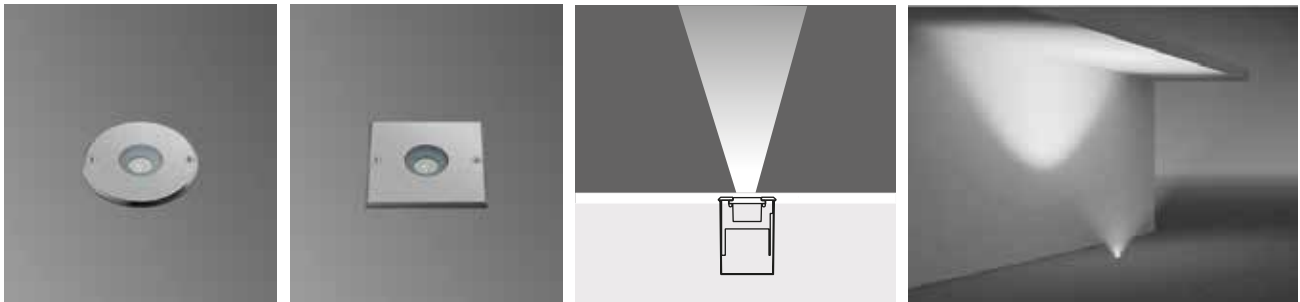
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

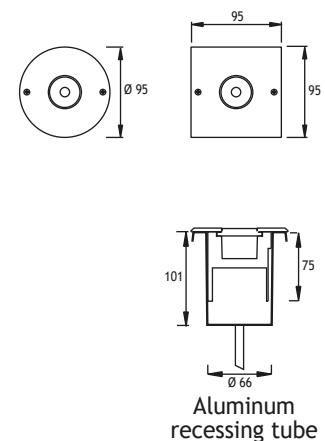
Symmetrical

PATNOS 1 Fix to Recessing Tube with Screws



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

		Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀ Warm White	3000 K	85 lm	225 lm	160021	160031	160061	160071
☀ Natural White	4500 K	85 lm	225 lm	160022	160032	160062	160072
☀ Cool White	6000 K	102 lm	270 lm	160023	160033	160063	160073
🌊 Blue				160024	160034	160064	160074
🔴 Red				160025	160035	160065	160075
🟡 Amber				160026	160036	160066	160076
🟢 Green				160027	160037	160067	160077



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

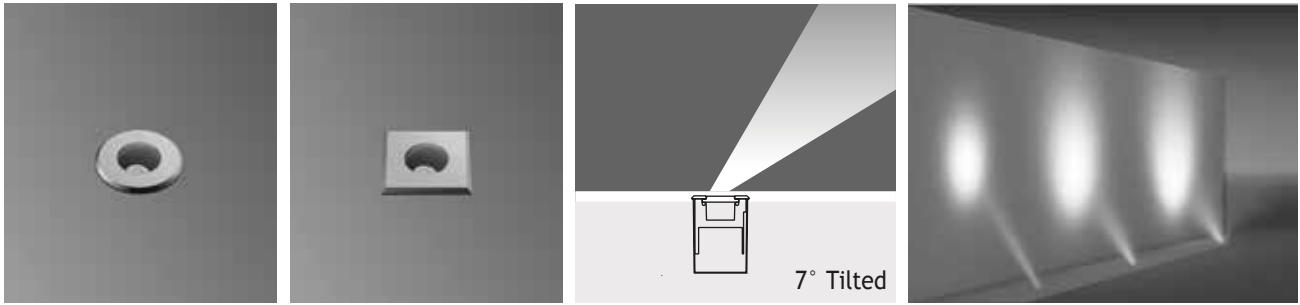
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

PATNOS 1 RECESSED LED FIXTURES

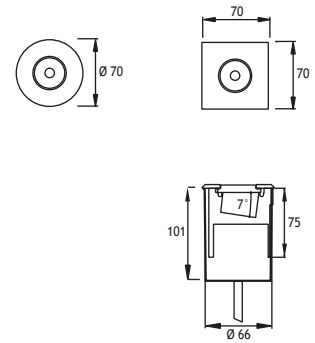
Class I IP67 IK10

Asymmetrical 7° Tilted PATNOS 1 Fix to Recessing Tube with Silicone



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

	Total Lighting Output	Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀ Warm White	3000 K	85 lm	225 lm	160201	160211	160241	160251
☁ Natural White	4500 K	85 lm	225 lm	160202	160212	160242	160252
☀ Cool White	6000 K	102 lm	270 lm	160203	160213	160243	160253
🌊 Blue				160204	160214	160244	160254
🔴 Red				160205	160215	160245	160255
🟡 Amber				160206	160216	160246	160256
🟢 Green				160207	160217	160247	160257



Aluminum recessing tube

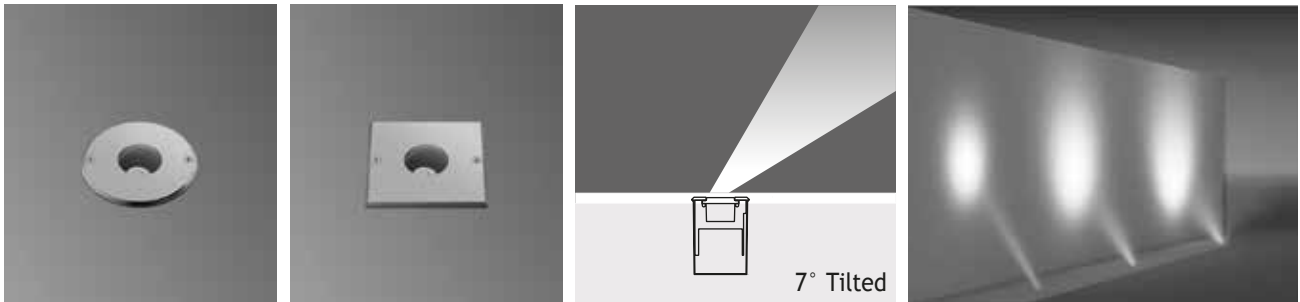
Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

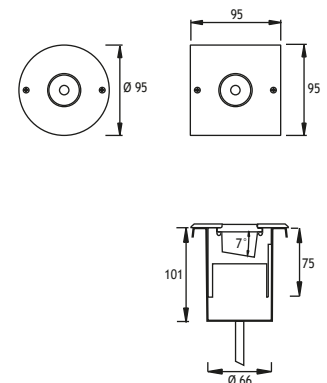
Cable : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 7° Tilted PATNOS 1 Fix to Recessing Tube with Screws



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

	Total Lighting Output	Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀ Warm White	3000 K	85 lm	225 lm	160221	160231	160261	160271
☁ Natural White	4500 K	85 lm	225 lm	160222	160232	160262	160272
☀ Cool White	6000 K	102 lm	270 lm	160223	160233	160263	160273
🌊 Blue				160224	160234	160264	160274
🔴 Red				160225	160235	160265	160275
🟡 Amber				160226	160236	160266	160276
🟢 Green				160227	160237	160267	160277



Aluminum recessing tube

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

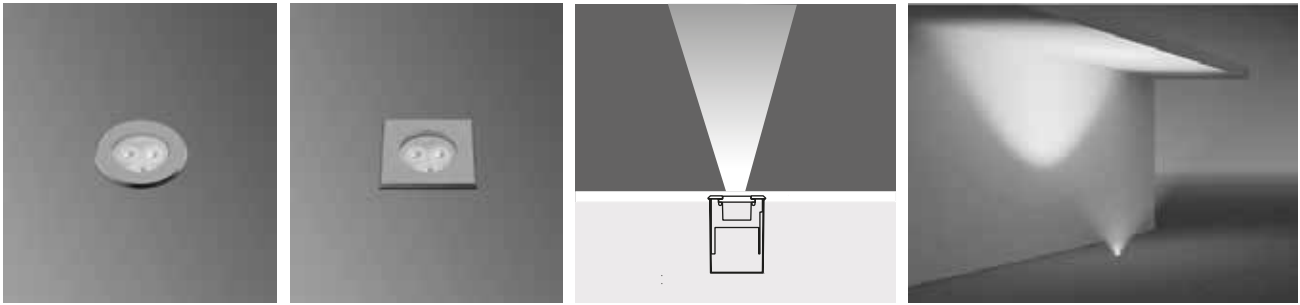
Cable : Potted 5 m 3x0,75 H03 VV-F

PATNOS 2 RECESSED LED FIXTURES

Class I IP67 IK10

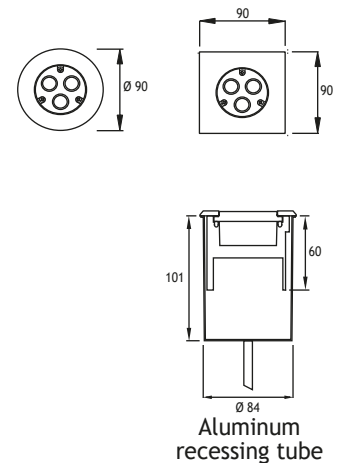
Symmetrical

PATNOS 2 Fix to Recessing Tube with Silicone



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

	Total Lighting Output	3W		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	161001	161011	161041	161051
☀ Natural White	4500 K	255 lm	675 lm	161002	161012	161042	161052
☀ Cool White	6000 K	306 lm	810 lm	161003	161013	161043	161053
🌊 Blue				161004	161014	161044	161054
🔴 Red				161005	161015	161045	161055
🟡 Amber				161006	161016	161046	161056
🟢 Green				161007	161017	161047	161057



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

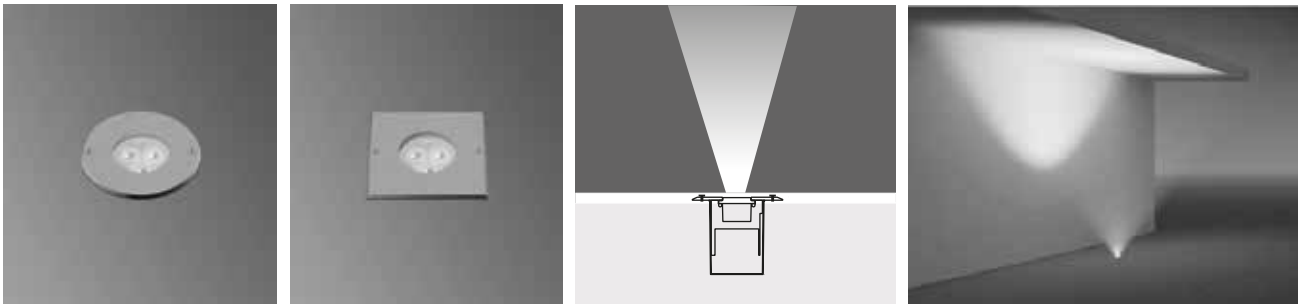
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

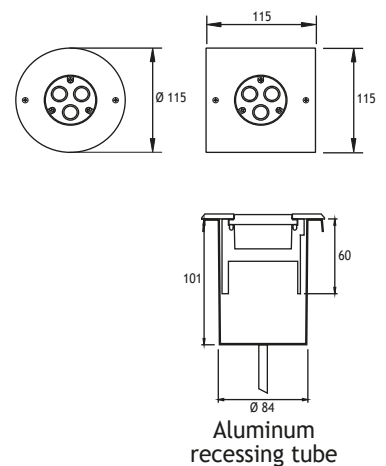
Symmetrical

PATNOS 2 Fix to Recessing Tube with Screws



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

	Total Lighting Output	3W		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	161021	161031	161061	161071
☀ Natural White	4500 K	255 lm	675 lm	161022	161032	161062	161072
☀ Cool White	6000 K	306 lm	810 lm	161023	161033	161063	161073
🌊 Blue				161024	161034	161064	161074
🔴 Red				161025	161035	161065	161075
🟡 Amber				161026	161036	161066	161076
🟢 Green				161027	161037	161067	161077



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

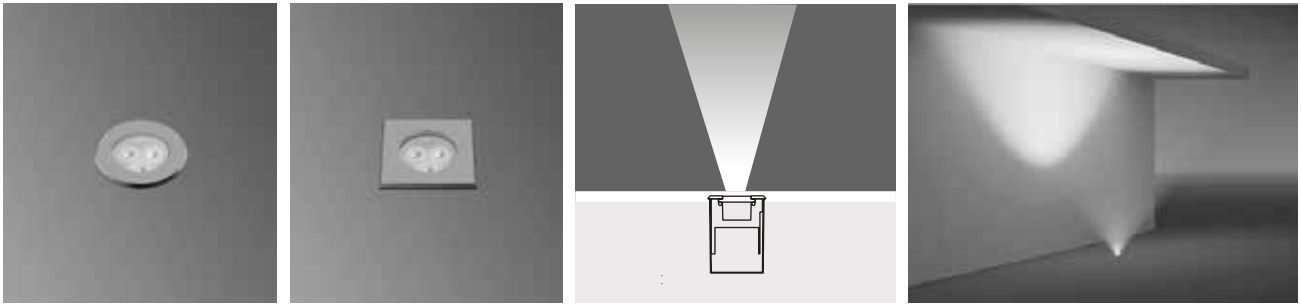
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

PATNOS 2 RECESSED RGB LED FIXTURES

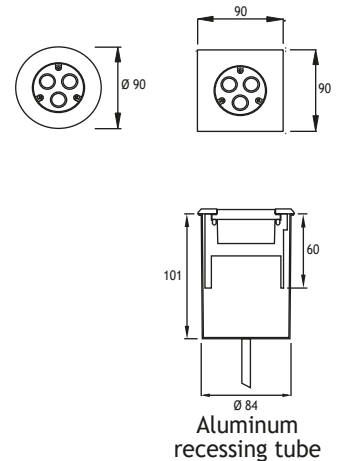
Class I IP67 IK10

Symmetrical
PATNOS 2 Fix to Recessing Tube with Silicone



9 x 350 mA (9 W) RGB LED

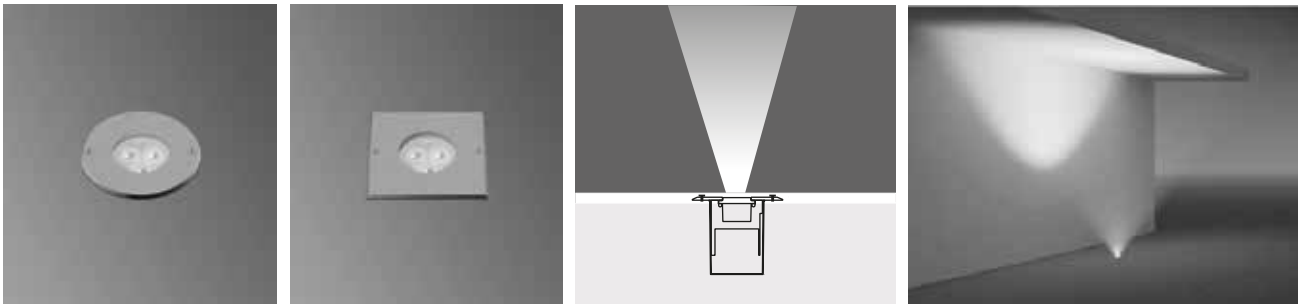
- Voltage : 240V A.C with remote driver
- Lens : 25° or 40°
- Diffuser : Clear Glass
8 mm (Frosted Glass on request)
- Cable : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



Code No
Round Square
161081 161091

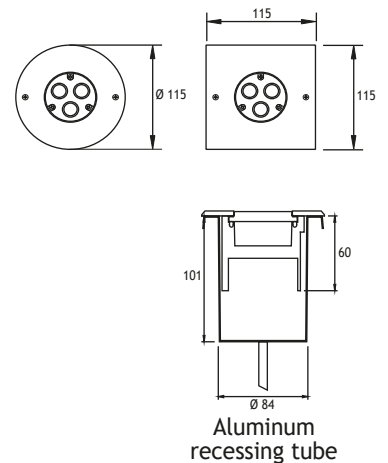


Symmetrical
PATNOS 2 Fix to Recessing Tube with Screws



9 x 350 mA (9 W) RGB LED

- Voltage : 240V A.C with remote driver
- Lens : 25° or 40°
- Diffuser : Clear Glass
8 mm (Frosted Glass on request)
- Cable : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



Code No
Round Square
161101 161111

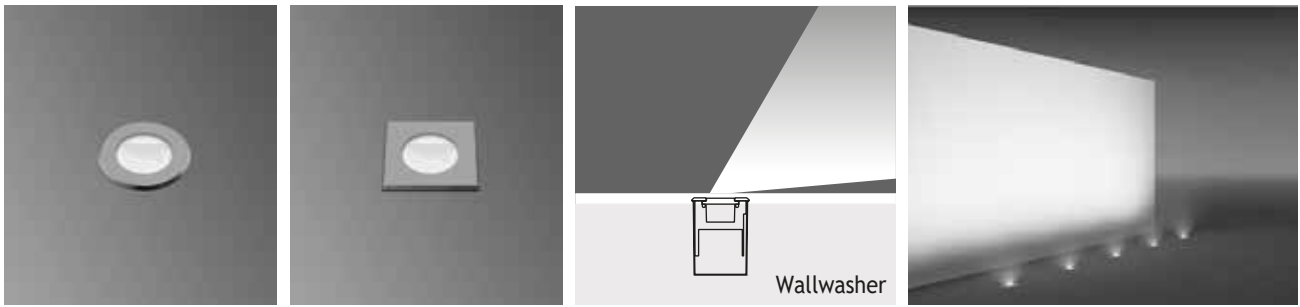




PATNOS 2 RECESSED LED FIXTURES

Class I IP67 IK10

Asymmetrical Wallwasher PATNOS 2 Fix to Recessing Tube with Silicone



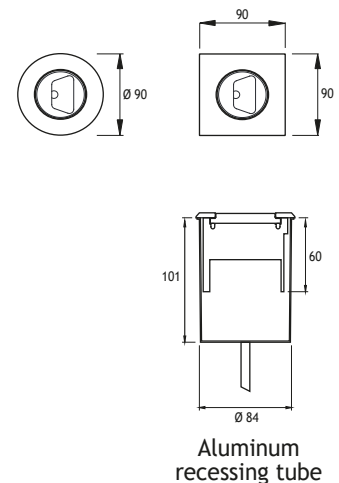
1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

		Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀️ Warm White	3000 K	89 lm	210 lm	161601	161611	161641	161651
☁️ Natural White	4500 K	89 lm	210 lm	161602	161612	161642	161652
❄️ Cool White	6000 K	101 lm	230 lm	161603	161613	161643	161653
🌊 Blue				161604	161614	161644	161654
🔴 Red				161605	161615	161645	161655
🟡 Amber				161606	161616	161646	161656
🟢 Green				161607	161617	161647	161657

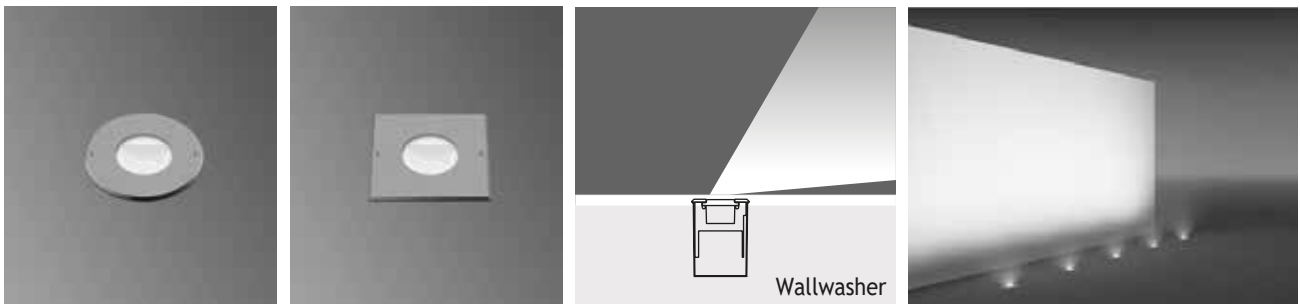
Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



Asymmetrical Wallwasher PATNOS 2 Fix to Recessing Tube with Screws



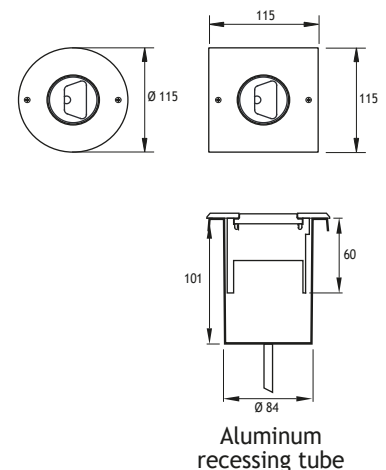
1 x 350 mA (3 W) LED or 1 x 700 mA (3 W) LED

		Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀️ Warm White	3000 K	89 lm	210 lm	161621	161631	161661	161671
☁️ Natural White	4500 K	89 lm	210 lm	161622	161632	161662	161672
❄️ Cool White	6000 K	101 lm	230 lm	161623	161633	161663	161673
🌊 Blue				161624	161634	161664	161674
🔴 Red				161625	161635	161665	161675
🟡 Amber				161626	161636	161666	161676
🟢 Green				161627	161637	161667	161677

Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

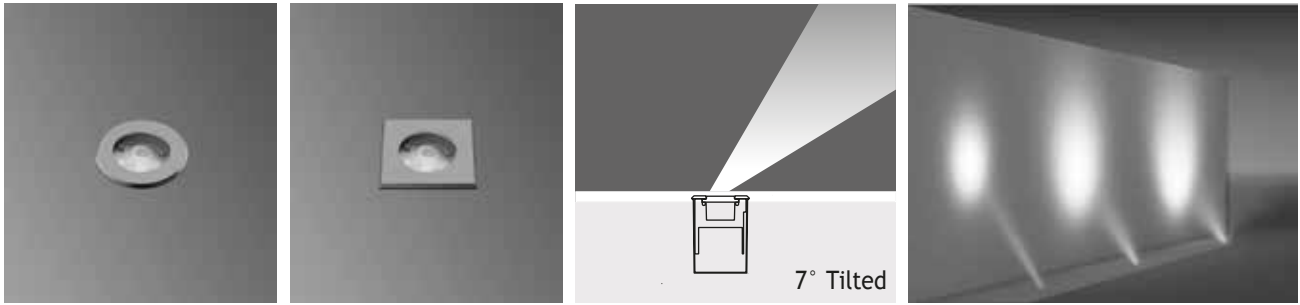
Cable : Potted 5 m 3x0,75 H03 VV-F



PATNOS 2 RECESSED LED FIXTURES

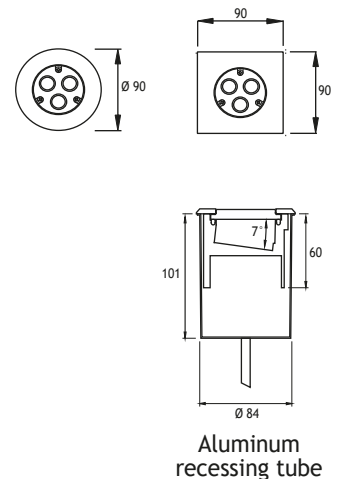
Class I IP67 IK10

Asymmetrical 7° Tilted PATNOS 2 Fix to Recessing Tube with Silicone



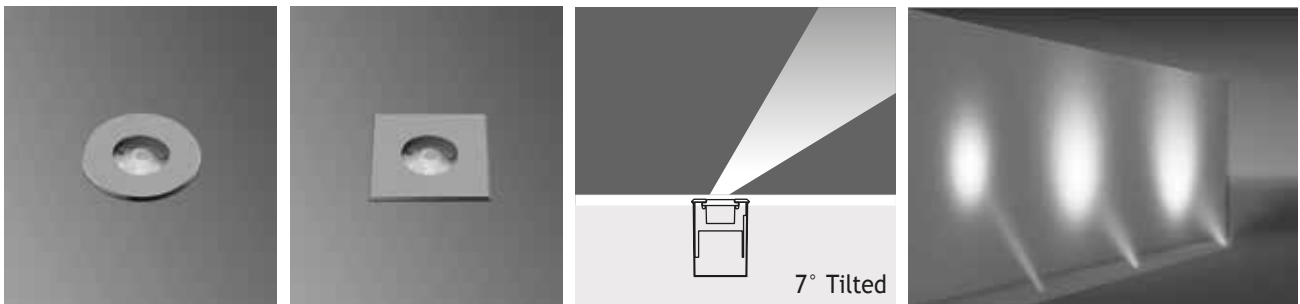
3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

	Total Lighting Output	3W		3W	3W	9W	9W
		3W	9W	Round	Square	Round	Square
☀ Warm White	3000 K	255 lm	675 lm	161201	161211	161241	161251
☀ Natural White	4500 K	266 lm	675 lm	161202	161212	161242	161252
☀ Cool White	6000 K	306 lm	810 lm	161203	161213	161243	161253
🌊 Blue				161204	161214	161244	161254
🔴 Red				161205	161215	161245	161255
🟡 Amber				161206	161216	161246	161256
🟢 Green				161207	161217	161247	161257



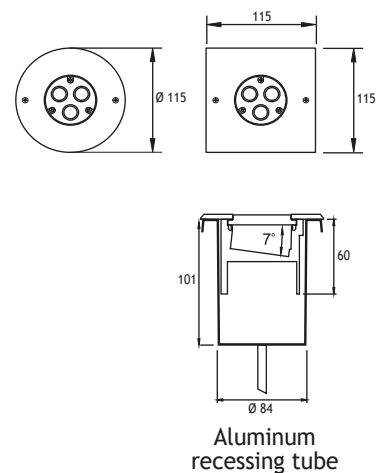
- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 7° Tilted PATNOS 2 Fix to Recessing Tube with Screws



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

	Total Lighting Output	3W		3W	3W	9W	9W
		3W	9W	Round	Square	Round	Square
☀ Warm White	3000 K	255 lm	675 lm	161221	161231	161261	161271
☀ Natural White	4500 K	266 lm	675 lm	161222	161232	161262	161272
☀ Cool White	6000 K	306 lm	810 lm	161223	161233	161263	161273
🌊 Blue				161224	161234	161264	161274
🔴 Red				161225	161235	161265	161275
🟡 Amber				161226	161236	161266	161276
🟢 Green				161227	161237	161267	161277

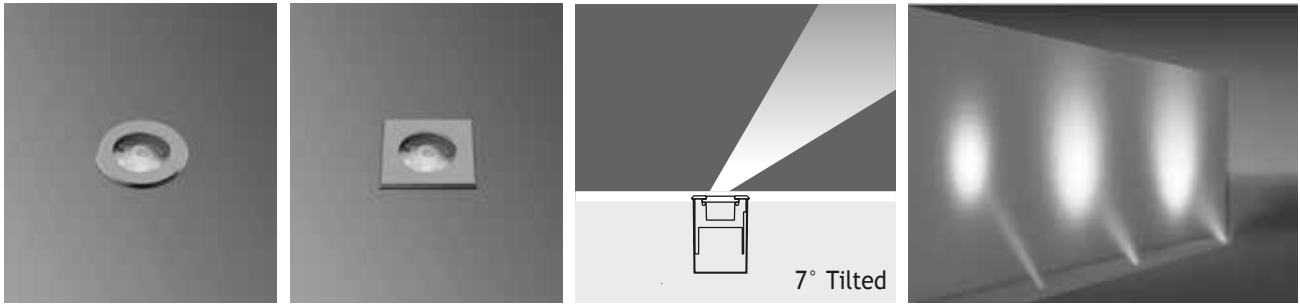


- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

PATNOS 2 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Asymmetrical 7° Tilted PATNOS 2 Fix to Recessing Tube with Silicone

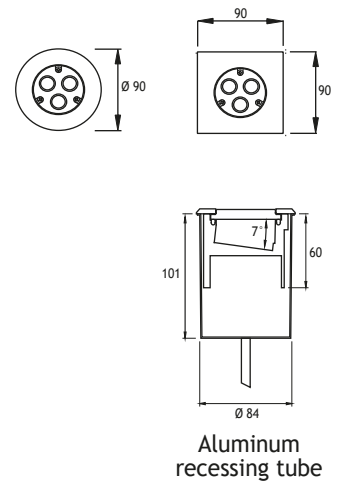


9 x 350 mA (9 W) RGB LED

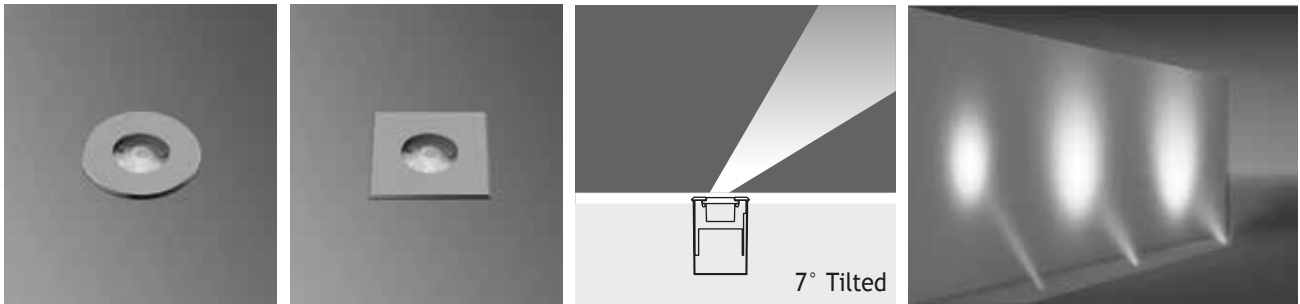
- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control** by DMX, remote control, or push button



	Code No	
	Round	Square
	161281	161291



Asymmetrical 7° Tilted PATNOS 2 Fix to Recessing Tube with Screws

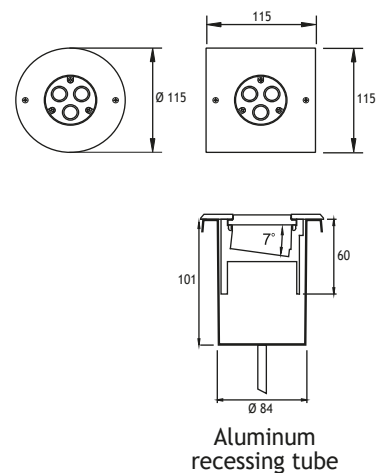


9 x 350 mA (9 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control** by DMX, remote control, or push button



	Code No	
	Round	Square
	161301	161311

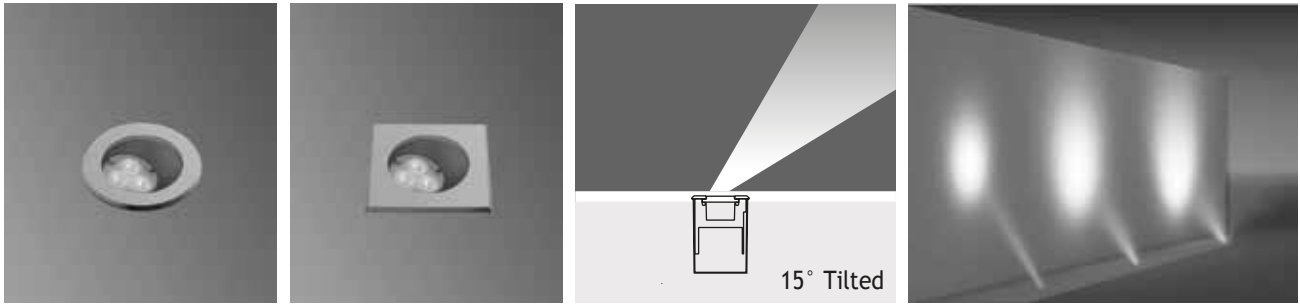




PATNOS 2 RECESSED LED FIXTURES

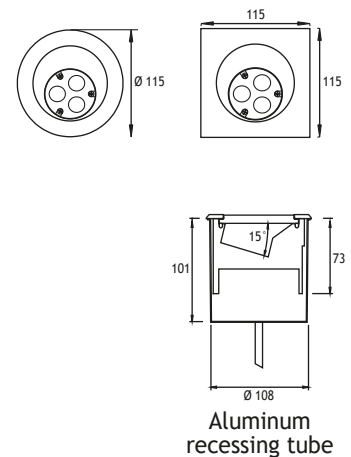
Class I IP67 IK10

Asymmetrical 15° Tilted PATNOS 2 Fix to Recessing Tube with Silicone



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀️ Warm White	3000 K	255 lm	675 lm	161321	161331	161361	161371
☀️ Natural White	4500 K	266 lm	675 lm	161322	161332	161362	161372
☀️ Cool White	6000 K	306 lm	810 lm	161323	161333	161363	161373
🌊 Blue				161324	161334	161364	161374
🔴 Red				161325	161335	161365	161375
🟡 Amber				161326	161336	161366	161376
🟢 Green				161327	161337	161367	161377



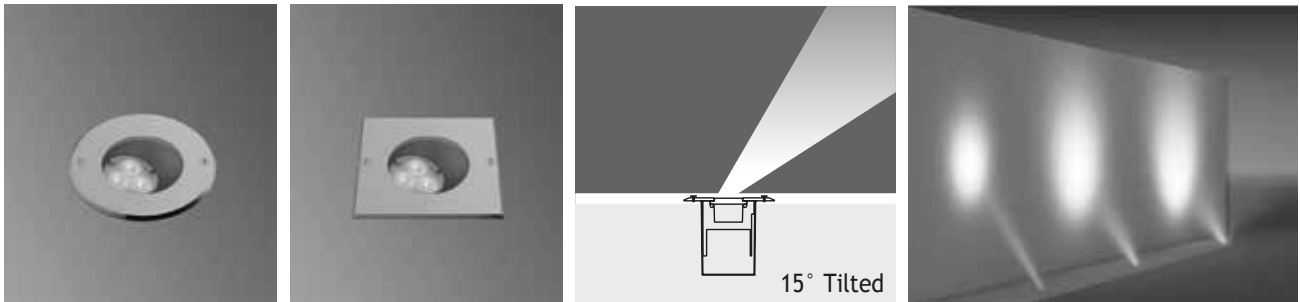
Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

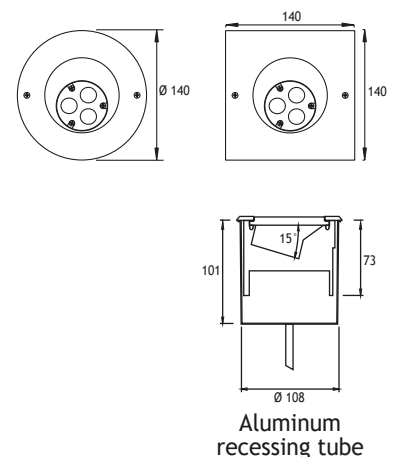
Cable : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 15° Tilted PATNOS 2 Fix to Recessing Tube with Screws



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀️ Warm White	3000 K	255 lm	675 lm	161341	161351	161381	161391
☀️ Natural White	4500 K	266 lm	675 lm	161342	161352	161382	161392
☀️ Cool White	6000 K	306 lm	810 lm	161343	161353	161383	161393
🌊 Blue				161344	161354	161384	161394
🔴 Red				161345	161355	161385	161395
🟡 Amber				161346	161356	161386	161396
🟢 Green				161347	161357	161387	161397



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

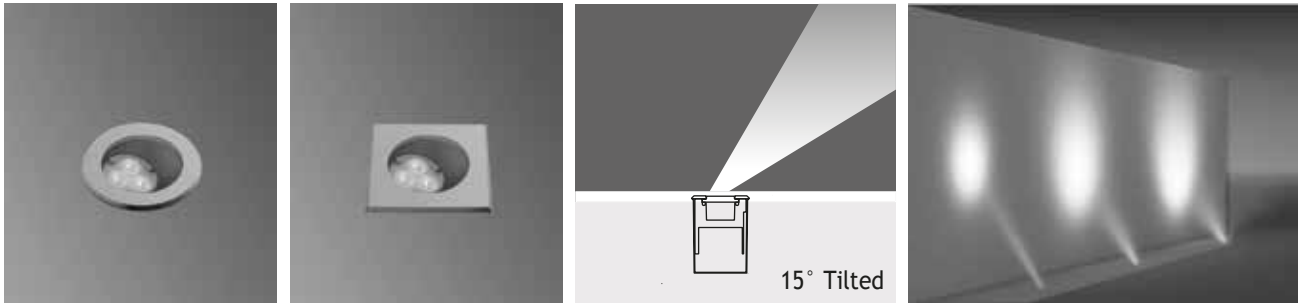
Cable : Potted 5 m 3x0,75 H03 VV-F



PATNOS 2 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Asymmetrical 15° Tilted PATNOS 2 Fix to Recessing Tube with Silicone

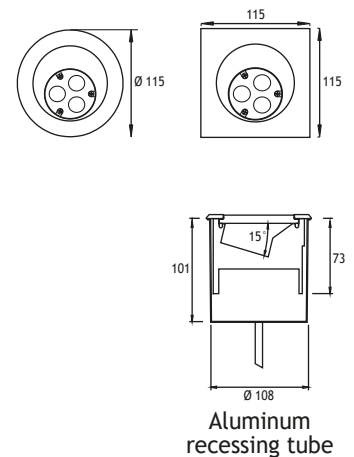


9 x 350 mA (9 W) RGB LED

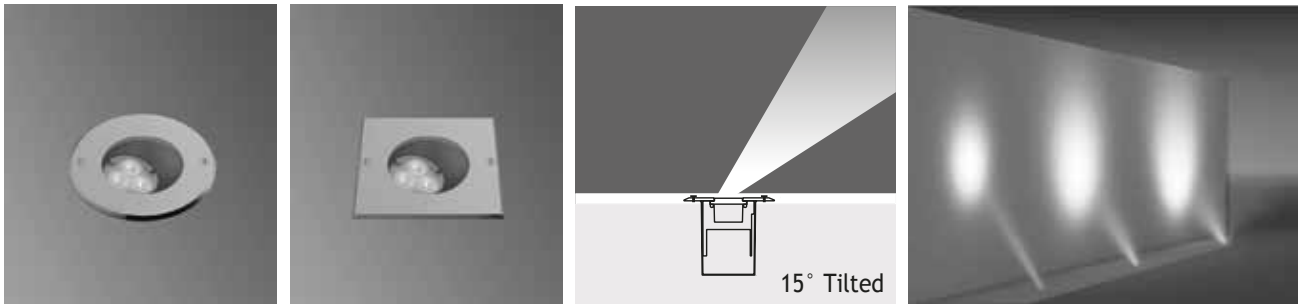
- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control** by DMX, remote control, or push button



	Code No
Round	Square
161401	161411



Asymmetrical 15° Tilted PATNOS 2 Fix to Recessing Tube with Screws

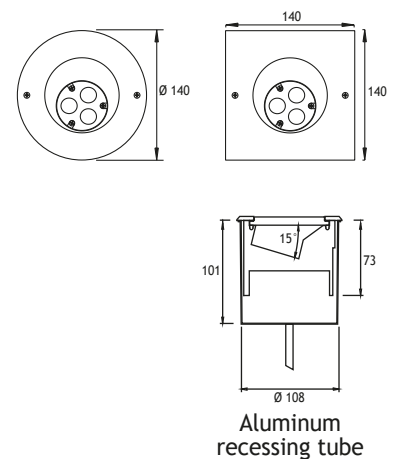


9 x 350 mA (9 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control** by DMX, remote control, or push button



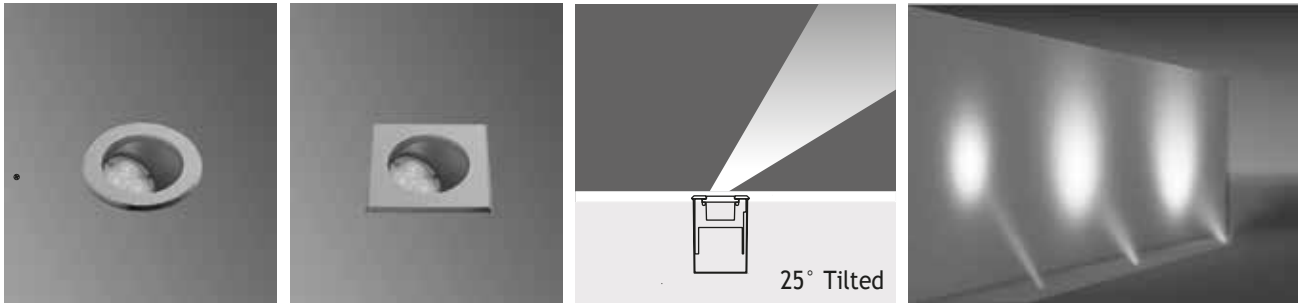
	Code No
Round	Square
161421	161431



PATNOS 2 RECESSED LED FIXTURES

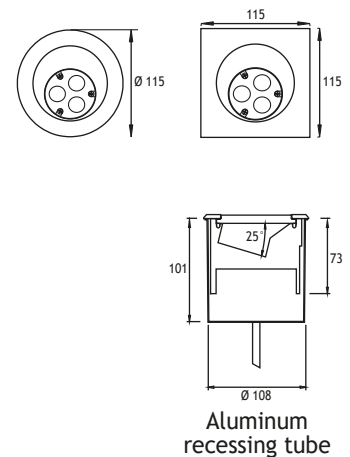
Class I IP67 IK10

Asymmetrical 25° Tilted PATNOS 2 Fix to Recessing Tube with Silicone



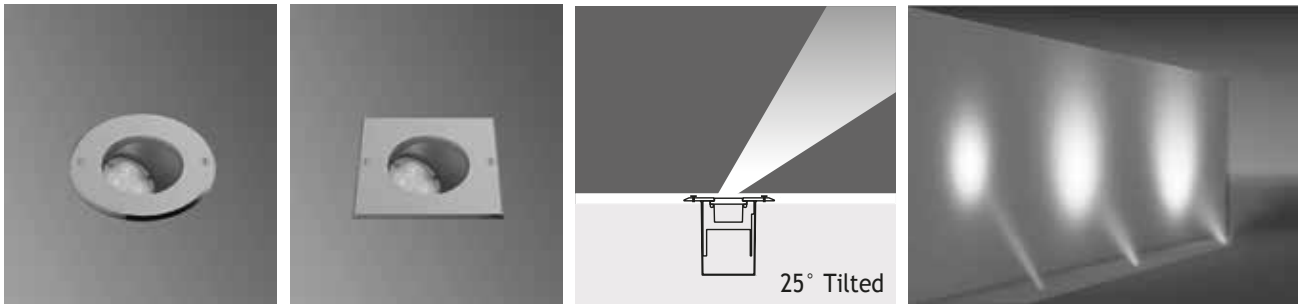
3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	161441	161451	161481	161491
☀ Natural White	4500 K	255 lm	675 lm	161442	161452	161482	161492
☀ Cool White	6000 K	310 lm	810 lm	161443	161453	161483	161493
🌊 Blue				161444	161454	161484	161494
🔴 Red				161445	161455	161485	161495
🟡 Amber				161446	161456	161486	161496
🟢 Green				161447	161457	161487	161497



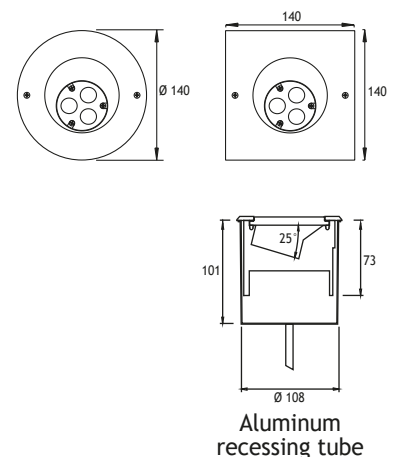
- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 25° Tilted PATNOS 2 Fix to Recessing Tube with Screws



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	161461	161471	161501	161511
☀ Natural White	4500 K	255 lm	675 lm	161462	161472	161502	161512
☀ Cool White	6000 K	310 lm	810 lm	161463	161473	161503	161513
🌊 Blue				161464	161474	161504	161514
🔴 Red				161465	161475	161505	161515
🟡 Amber				161466	161476	161506	161516
🟢 Green				161467	161477	161507	161517



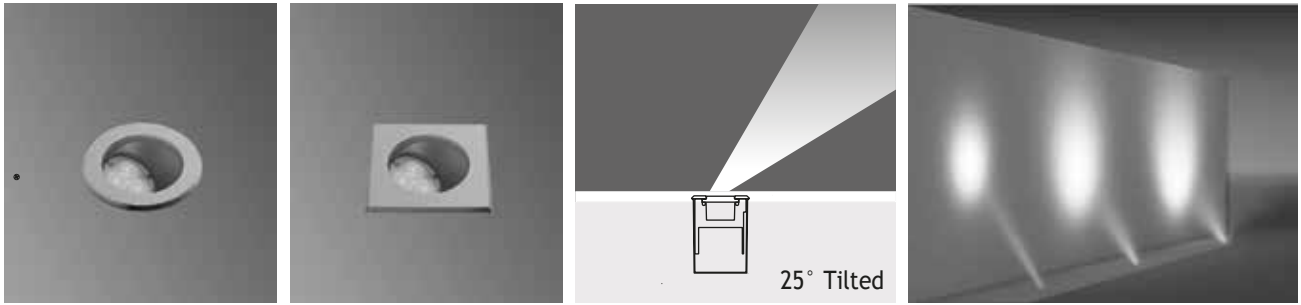
- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



PATNOS 2 RECESSED RGB LED FIXTURES

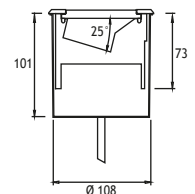
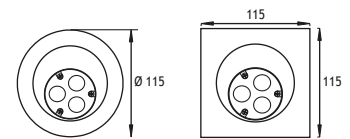
Class I IP67 IK10

Asymmetrical 25° Tilted PATNOS 2 Fix to Recessing Tube with Silicone



9 x 350 mA (9 W) RGB LED

- Voltage : 240V A.C with remote driver
- Lens : 25° or 40°
- Diffuser : Clear Glass
8 mm (Frosted Glass on request)
- Cable : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button

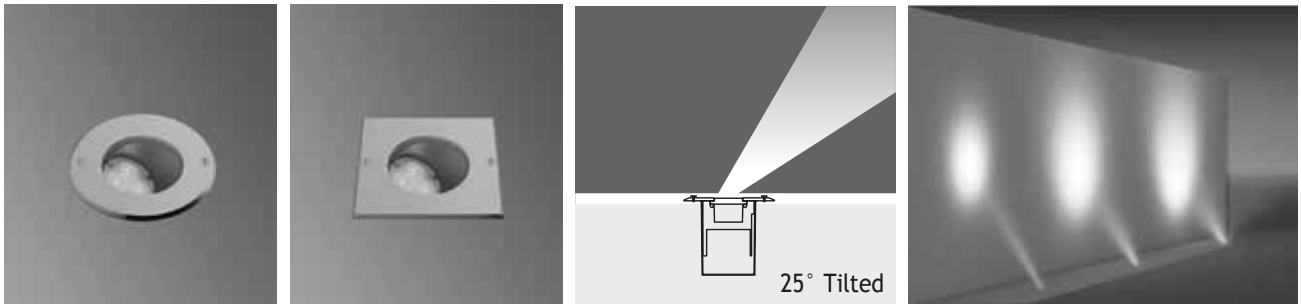


Aluminum recessing tube



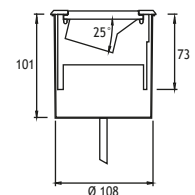
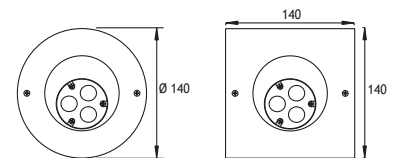
	Code No
Round	Square
161521	161531

Asymmetrical 25° Tilted PATNOS 2 Fix to Recessing Tube with Screws



9 x 350 mA (9 W) RGB LED

- Voltage : 240V A.C with remote driver
- Lens : 25° or 40°
- Diffuser : Clear Glass
8 mm (Frosted Glass on request)
- Cable : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



Aluminum recessing tube

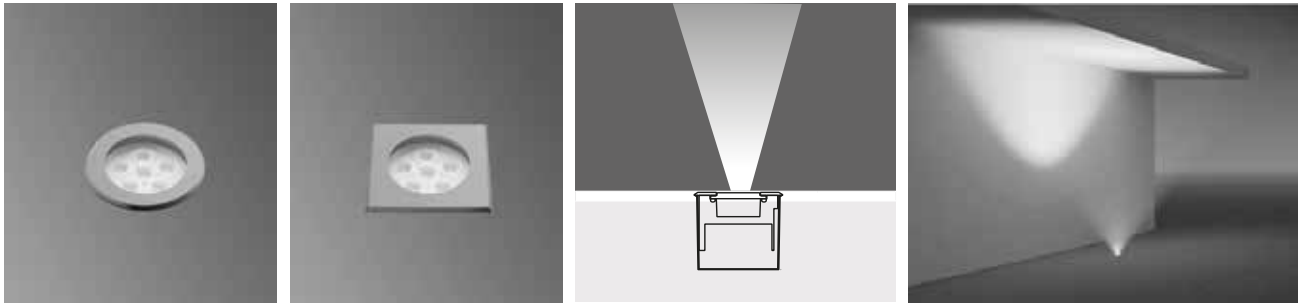


	Code No
Round	Square
161541	161551

PATNOS 3 RECESSED LED FIXTURES

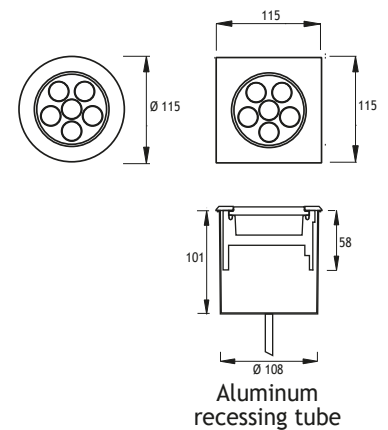
Class I IP67 IK10

Symmetrical PATNOS 3 Fix to Recessing Tube with Silicone

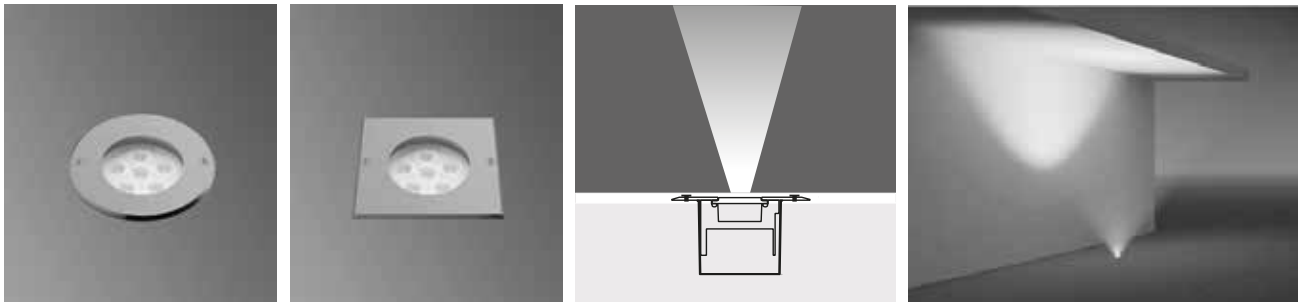


6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
		Round	Square
Warm White 3000 K	510 lm	162001	162011
Natural White 4500 K	510 lm	162002	162012
Cool White 6000 K	612 lm	162003	162013
Blue		162004	162014
Red		162005	162015
Amber		162006	162016
Green		162007	162017

Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F

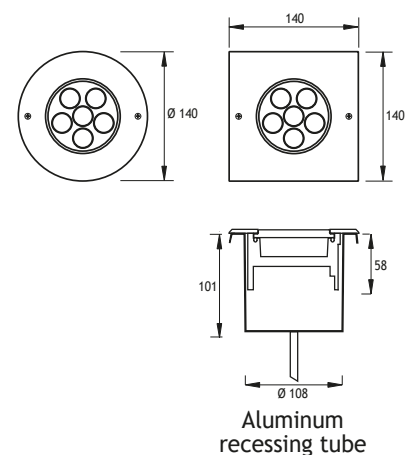


Symmetrical PATNOS 3 Fix to Recessing Tube with Screws



6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
		Round	Square
Warm White 3000 K	510 lm	162021	162031
Natural White 4500 K	510 lm	162022	162032
Cool White 6000 K	612 lm	162023	162033
Blue		162024	162034
Red		162025	162035
Amber		162026	162036
Green		162027	162037

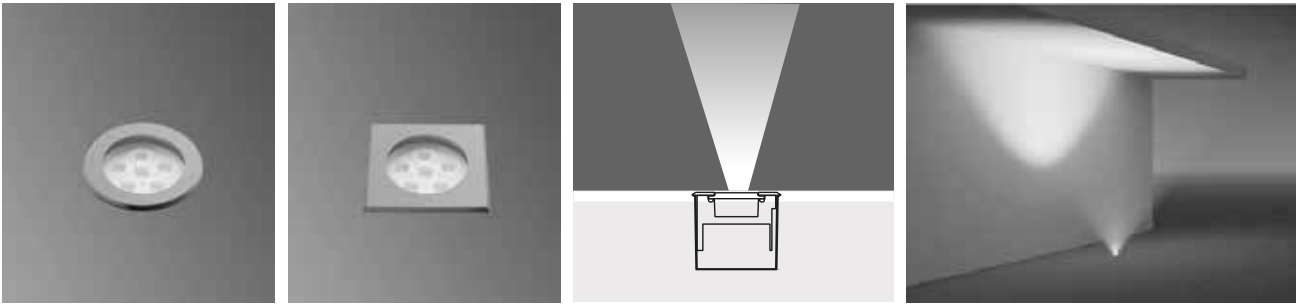
Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F



PATNOS 3 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Symmetrical
PATNOS 3 Fix to Recessing Tube with Silicone

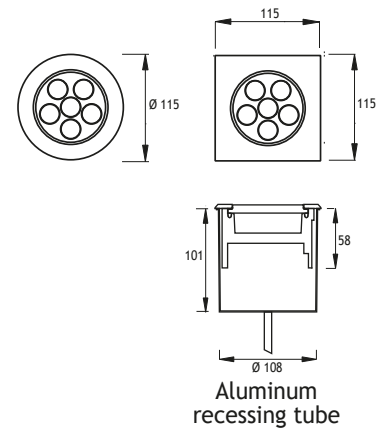


18 x 350 mA (18 W) RGB LED

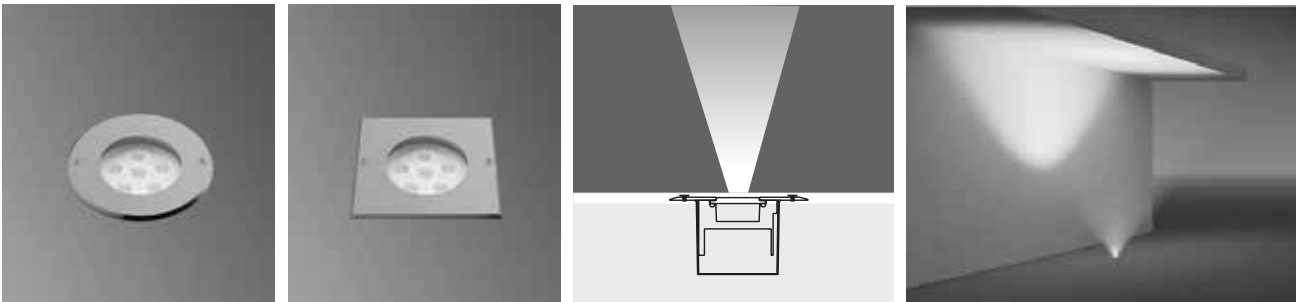
Voltage : 240V A.C with remote driver
Lens : 25° or 40°
Diffuser : Clear Glass
 8 mm (Frosted Glass on request)
Cable : Potted 10 m 4x0,75 H03 VV-F
Control by DMX, remote control, or push button



Code No
 Round Square
 162041 162051



Symmetrical
PATNOS 3 Fix to Recessing Tube with Screws

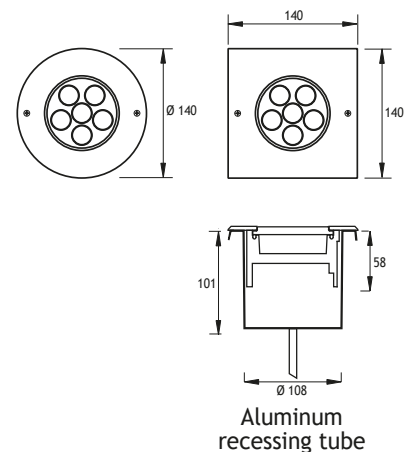


18 x 350 mA (18 W) RGB LED

Voltage : 240V A.C with remote driver
Lens : 25° or 40°
Diffuser : Clear Glass
 8 mm (Frosted Glass on request)
Cable : Potted 10 m 4x0,75 H03 VV-F
Control by DMX, remote control, or push button



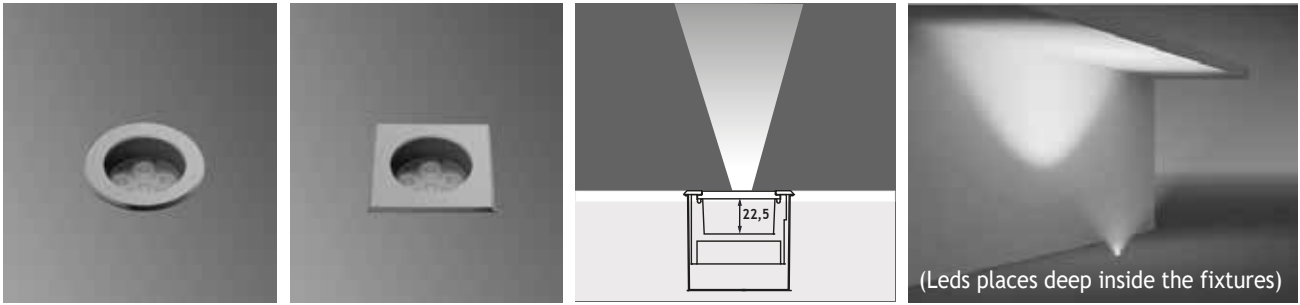
Code No
 Round Square
 162061 162071



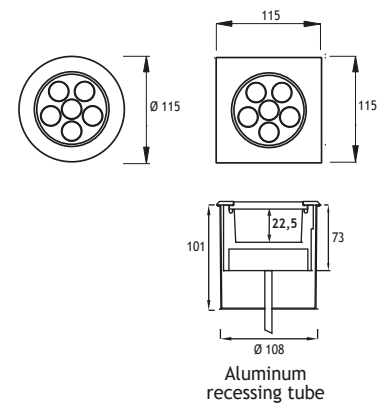
PATNOS 3 RECESSED UPLIGHT LOW GLARE LED FIXTURES

Class I IP67 IK10

Symmetrical PATNOS 3 Fix to Recessing Tube with Silicone

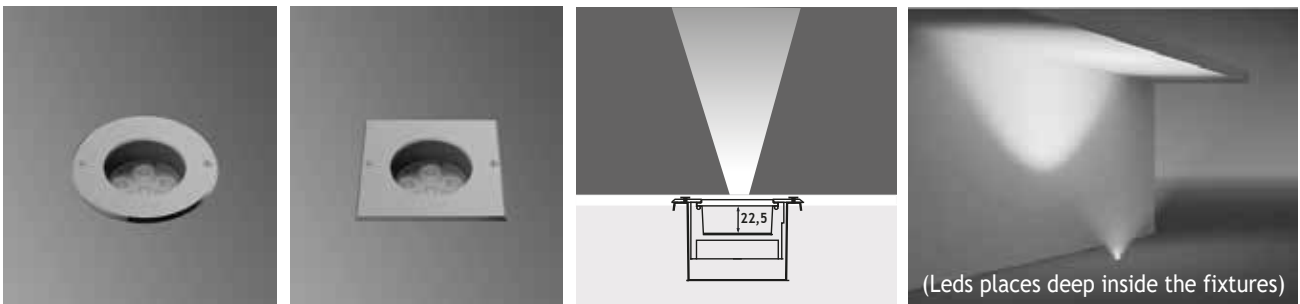


6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
		Round	Square
Warm White 3000 K	510 lm	162401	162411
Natural White 4500 K	510 lm	162402	162412
Cool White 6000 K	612 lm	162403	162413
Blue		162404	162414
Red		162405	162415
Amber		162406	162416
Green		162407	162417

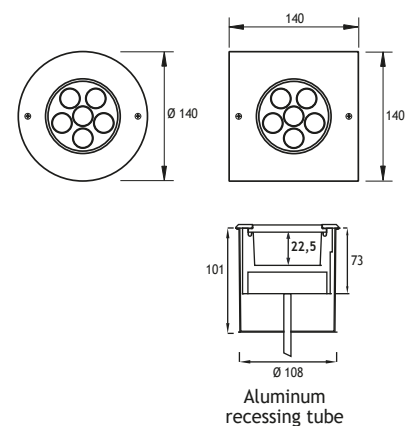


Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F

Symmetrical PATNOS 3 Fix to Recessing Tube with Screws



6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
		Round	Square
Warm White 3000 K	510 lm	162421	162431
Natural White 4500 K	510 lm	162422	162432
Cool White 6000 K	612 lm	162423	162433
Blue		162424	162434
Red		162425	162435
Amber		162426	162436
Green		162427	162437

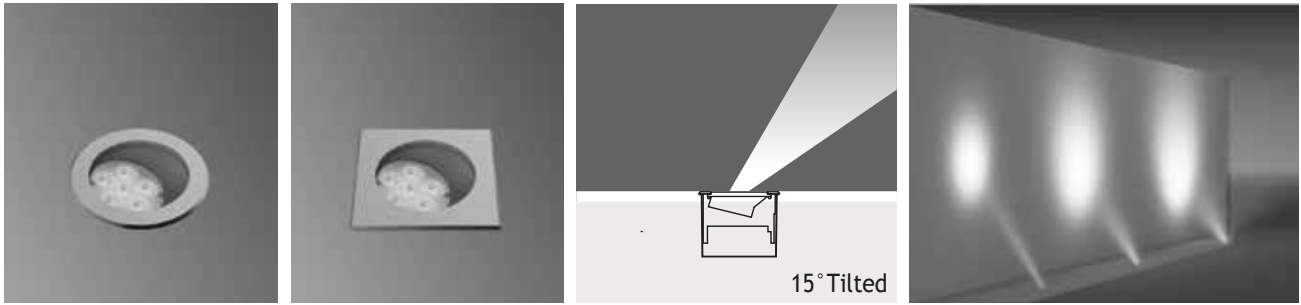


Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F

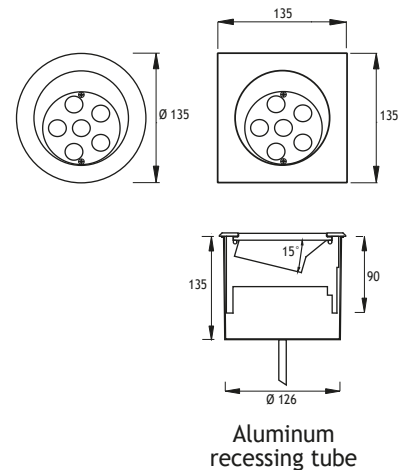
PATNOS 3 RECESSED LED FIXTURES

Class I IP67 IK10

Asymmetrical 15° Tilted PATNOS 3 Fix to Recessing Tube with Silicone



6 x 350 mA (6 W) LED		Total Lighting Output	Code No	
			Round	Square
☀ Warm White	3000 K	510 lm	162201	162211
☀ Natural White	4500 K	510 lm	162202	162212
☀ Cool White	6000 K	612 lm	162203	162213
🌊 Blue			162204	162214
🔴 Red			162205	162215
🟡 Amber			162206	162216
🟢 Green			162207	162217



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

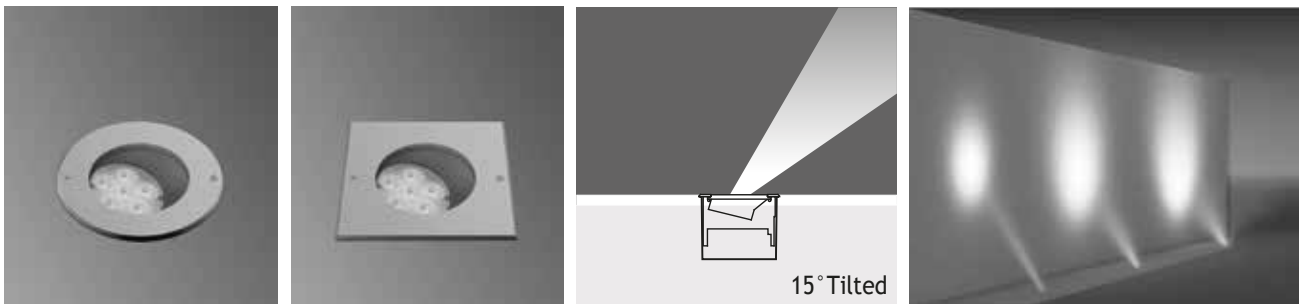
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

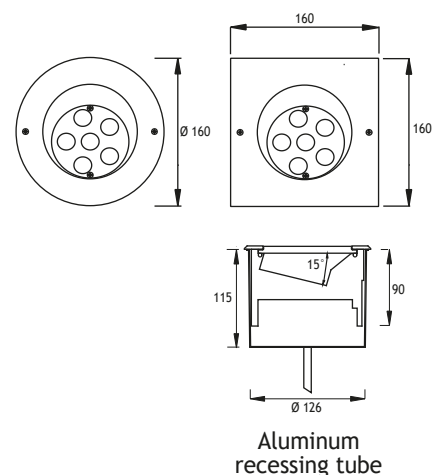
Cable : Potted 5 m 3x0,75 H03 VV-F

Available with springs for false ceiling.

Asymmetrical 15° Tilted PATNOS 3 Fix to Recessing Tube with Screws



6 x 350 mA (6 W) LED		Total Lighting Output	Code No	
			Round	Square
☀ Warm White	3000 K	510 lm	162221	162231
☀ Natural White	4500 K	510 lm	162222	162232
☀ Cool White	6000 K	612 lm	162223	162233
🌊 Blue			162224	162234
🔴 Red			162225	162235
🟡 Amber			162226	162236
🟢 Green			162227	162237



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

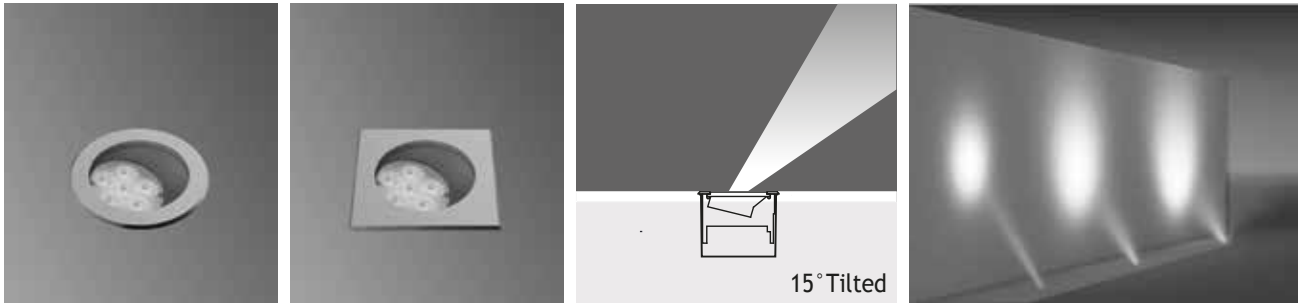
Cable : Potted 5 m 3x0,75 H03 VV-F

Available with springs for false ceiling.

PATNOS 3 RECESSED RGB LED FIXTURES

Class I IP67 IK10

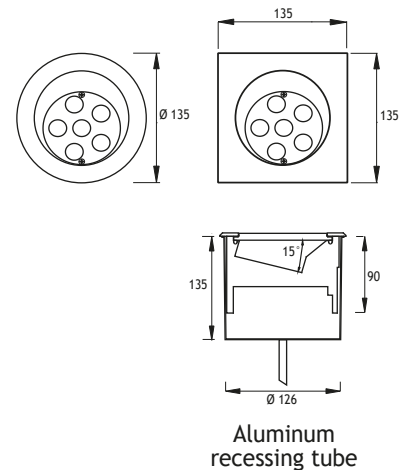
Asymmetrical 15° Tilted PATNOS 3 Fix to Recessing Tube with Silicone



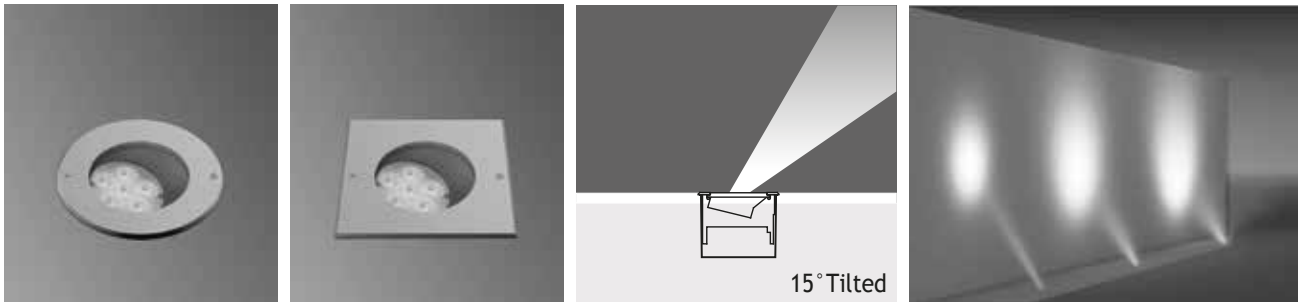
18 x 350 mA (18 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button

	Code No
Round	Square
162241	162251



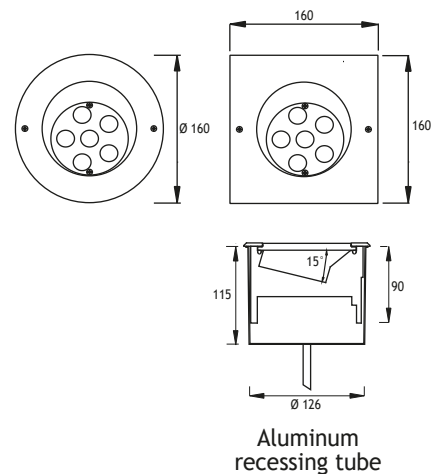
Asymmetrical 15° Tilted PATNOS 3 Fix to Recessing Tube with Screws



18 x 350 mA (18 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button

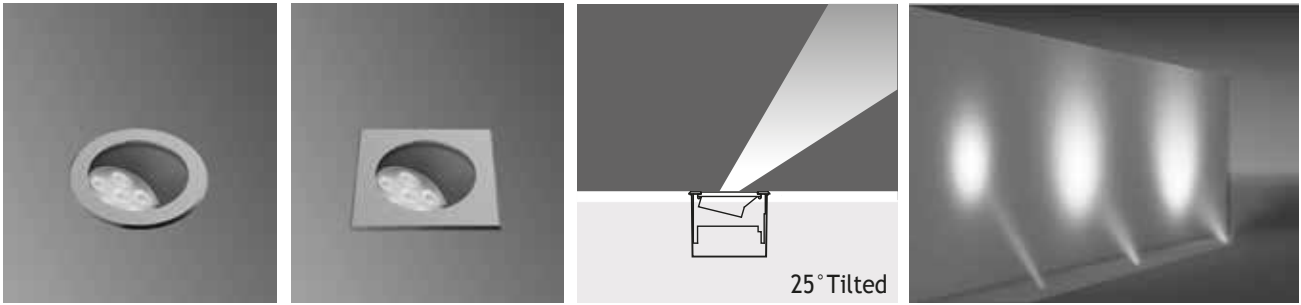
	Code No
Round	Square
162261	162271



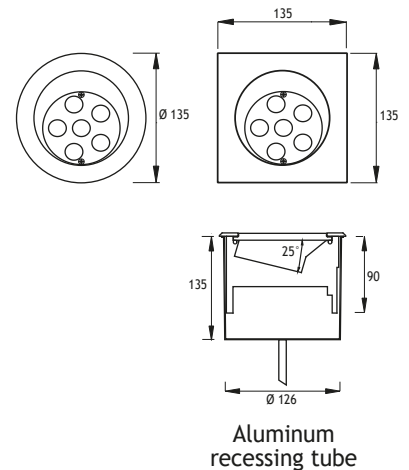
PATNOS 3 RECESSED LED FIXTURES

Class I IP67 IK10

Asymmetrical 25° Tilted PATNOS 3 Fix to Recessing Tube with Silicone



	6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
			Round	Square
☀️	Warm White 3000 K	510 lm	162281	162291
☀️	Natural White 4500 K	510 lm	162282	162292
☀️	Cool White 6000 K	612 lm	162283	162293
🌊	Blue		162284	162294
🔴	Red		162285	162295
🟡	Amber		162286	162296
🟢	Green		162287	162297



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

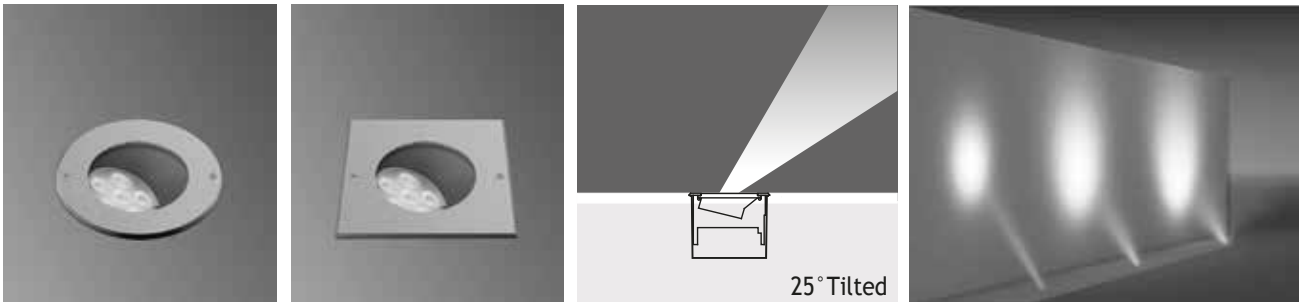
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

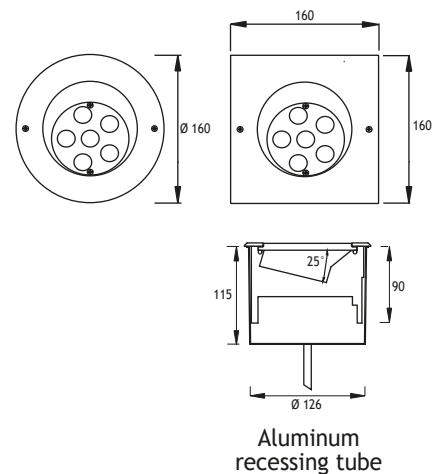
Cable : Potted 5 m 3x0,75 H03 VV-F

Available with springs for false ceiling.

Asymmetrical 25° Tilted PATNOS 3 Fix to Recessing Tube with Screws



	6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
			Round	Square
☀️	Warm White 3000 K	510 lm	162301	162311
☀️	Natural White 4500 K	510 lm	162302	162312
☀️	Cool White 6000 K	612 lm	162303	162313
🌊	Blue		162304	162314
🔴	Red		162305	162315
🟡	Amber		162306	162316
🟢	Green		162307	162317



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

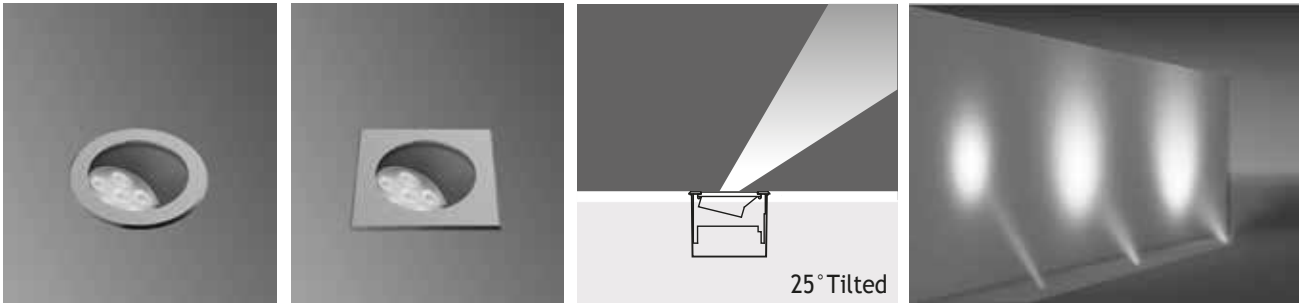
Cable : Potted 5 m 3x0,75 H03 VV-F

Available with springs for false ceiling.

PATNOS 3 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Asymmetrical 25° Tilted PATNOS 3 Fix to Recessing Tube with Silicone

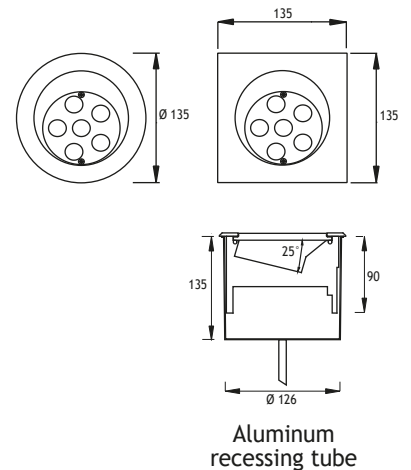


18 x 350 mA (18 W) RGB LED

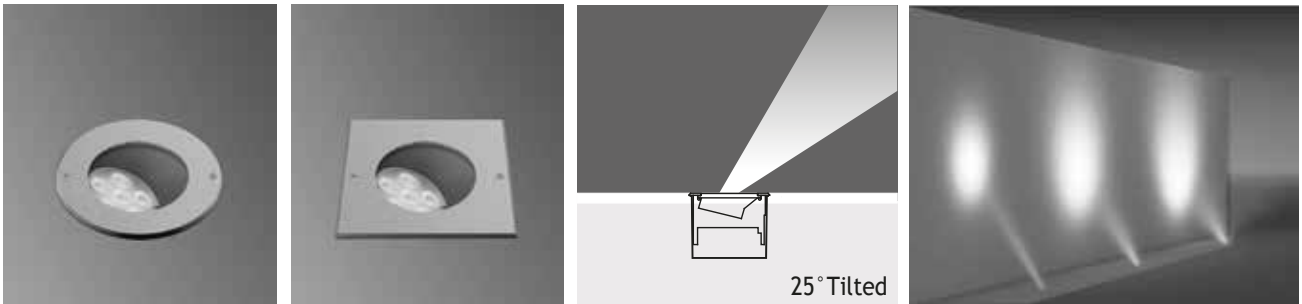
- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



	Code No
Round	Square
162321	162331



Asymmetrical 25° Tilted PATNOS 3 Fix to Recessing Tube with Screws

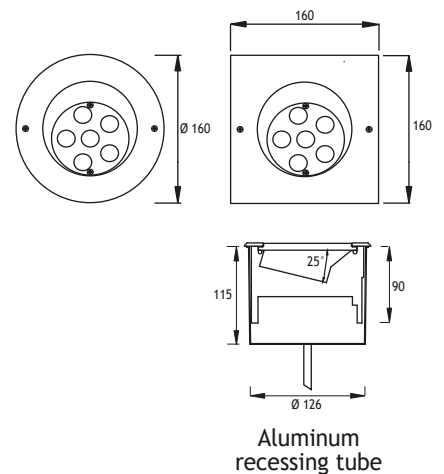


18 x 350 mA (18 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



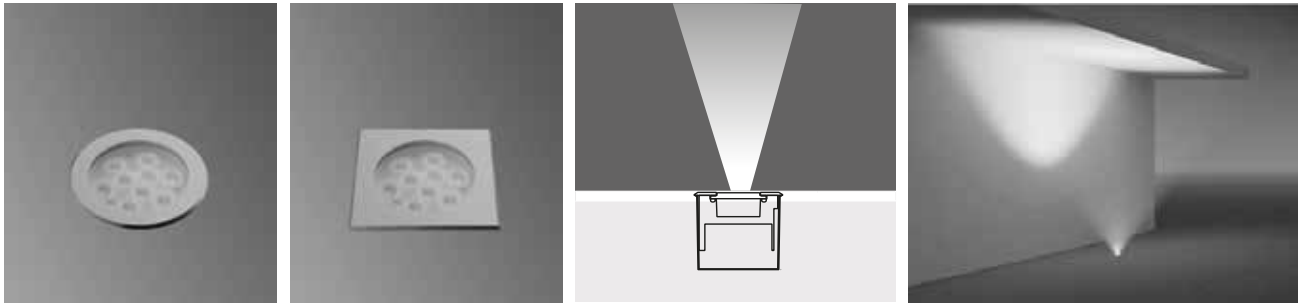
	Code No
Round	Square
162341	162351



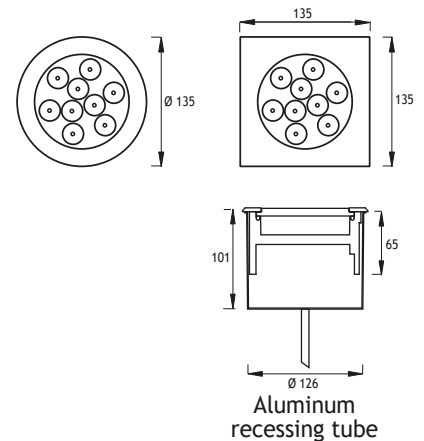
PATNOS 4 RECESSED LED FIXTURES

Class I IP67 IK10

Symmetrical PATNOS 4 Fix to Recessing Tube with Silicone

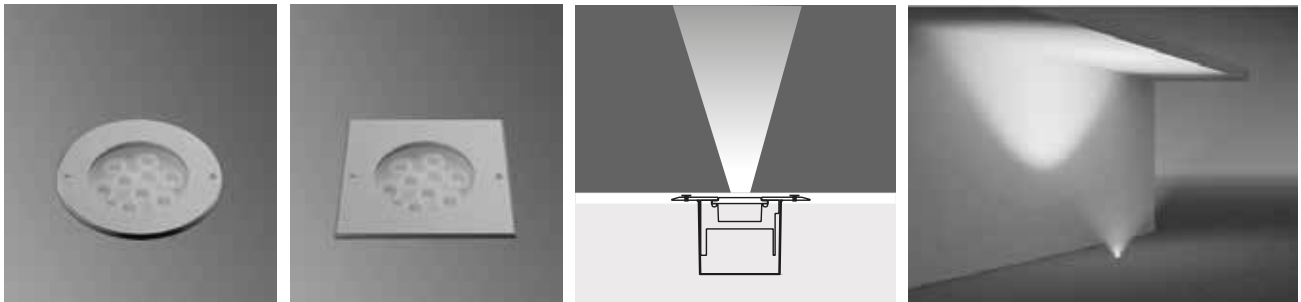


	9 x 350 mA (9 W) LED	Total Lighting Output	Code No	
			Round	Square
☀️	Warm White 3000 K	765 lm	163001	163011
☀️	Natural White 4500 K	765 lm	163002	163012
☀️	Cool White 6000 K	918 lm	163003	163013
🌊	Blue		163004	163014
🔴	Red		163005	163015
🟡	Amber		163006	163016
🟢	Green		163007	163017

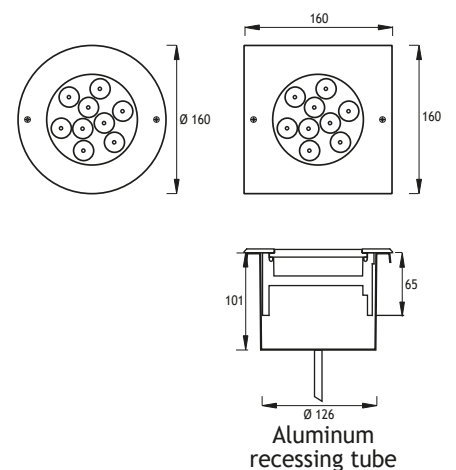


Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F

Symmetrical PATNOS 4 Fix to Recessing Tube with Screws



	9 x 350 mA (9 W) LED	Total Lighting Output	Code No	
			Round	Square
☀️	Warm White 3000 K	765 lm	163021	163031
☀️	Natural White 4500 K	765 lm	163022	163032
☀️	Cool White 6000 K	918 lm	163023	163033
🌊	Blue		163024	163034
🔴	Red		163025	163035
🟡	Amber		163026	163036
🟢	Green		163027	163037



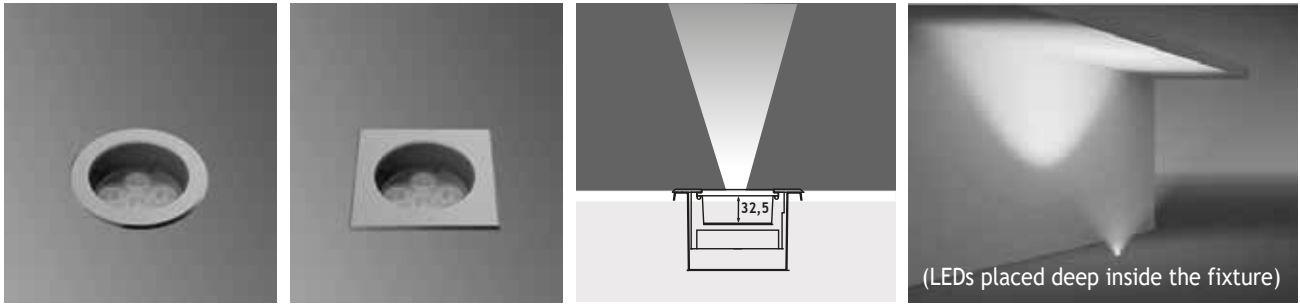
Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F



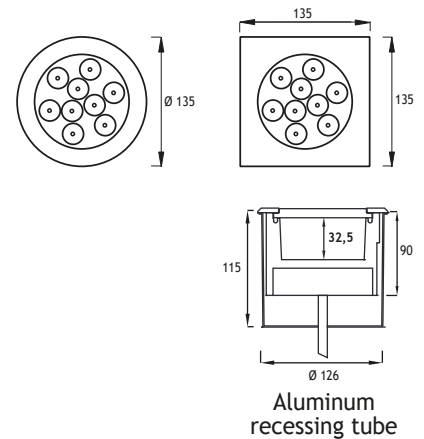
PATNOS 4 RECESSED UPLIGHT LOW GLARE LED FIXTURES

Class I IP67 IK10

Symmetrical PATNOS 4 Fix to Recessing Tube with Silicone

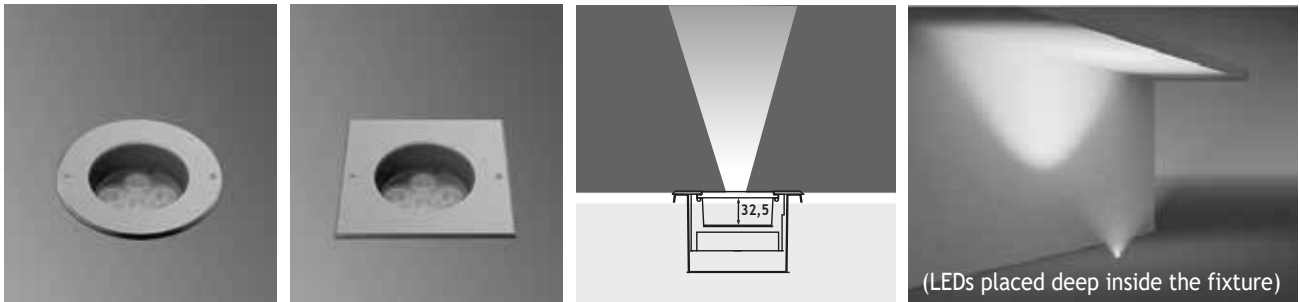


6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
		Round	Square
☀ Warm White 3000 K	510 lm	163101	163111
☀ Natural White 4500 K	510 lm	163102	163112
☀ Cool White 6000 K	612 lm	163103	163113
🌊 Blue		163104	163114
🔴 Red		163105	163115
🟡 Amber		163106	163116
🟢 Green		163107	163117

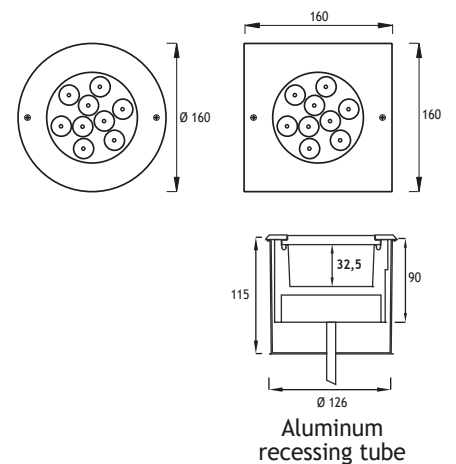


Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F

Symmetrical PATNOS 4 Fix to Recessing Tube with Screws



6 x 350 mA (6 W) LED	Total Lighting Output	Code No	
		Round	Square
☀ Warm White 3000 K	510 lm	163121	163131
☀ Natural White 4500 K	510 lm	163122	163132
☀ Cool White 6000 K	612 lm	163123	163133
🌊 Blue		163124	163134
🔴 Red		163125	163135
🟡 Amber		163126	163136
🟢 Green		163127	163137

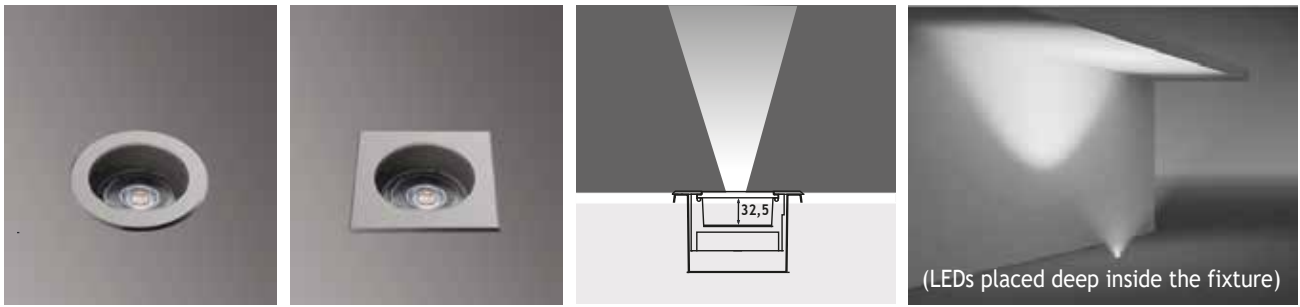


Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F

PATNOS 4 RECESSED UPLIGHT LOW GLARE LED FIXTURES

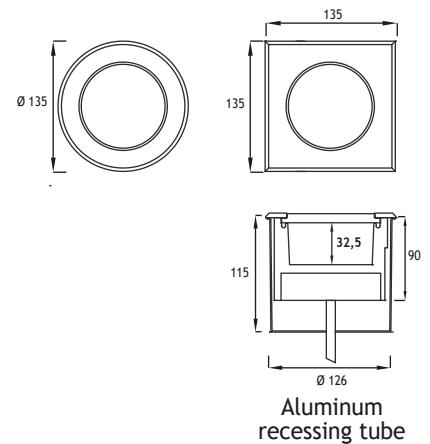
Class I IP67 IK10

Symmetrical
PATNOS 4 Fix to Recessing Tube with Silicone



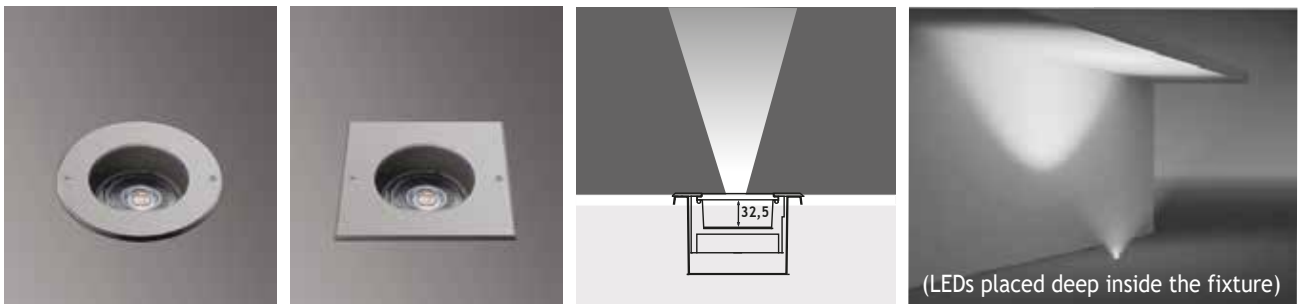
13W x 350 mA

- Led : 350 mA 13W (Nichia)
- Reflector : 24° or 38°
- Gear : 240V Non-Dimmable Driver
- Cable : 0,5 m 2x0,75 mm H03 VV-F



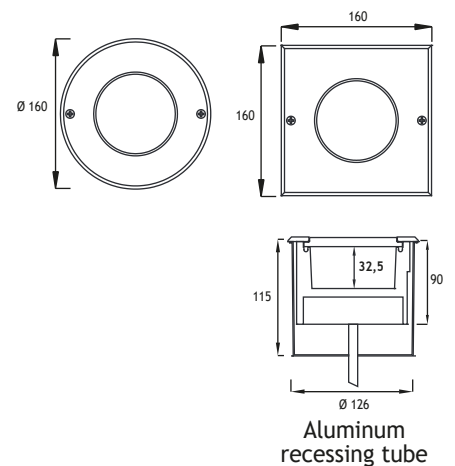
		Total Lighting Output	Code No	
			Round	Square
☀ Warm White	3000 K	1750 lm	163141	163151
☾ Natural White	4000 K	1900 lm	163142	163152

Symmetrical
PATNOS 4 Fix to Recessing Tube with Screws



13W x 350 mA

- Led : 350 mA 13W (Nichia)
- Reflector : 24° or 38°
- Gear : 240V Non-Dimmable Driver
- Cable : 0,5 m 2x0,75 mm H03 VV-F

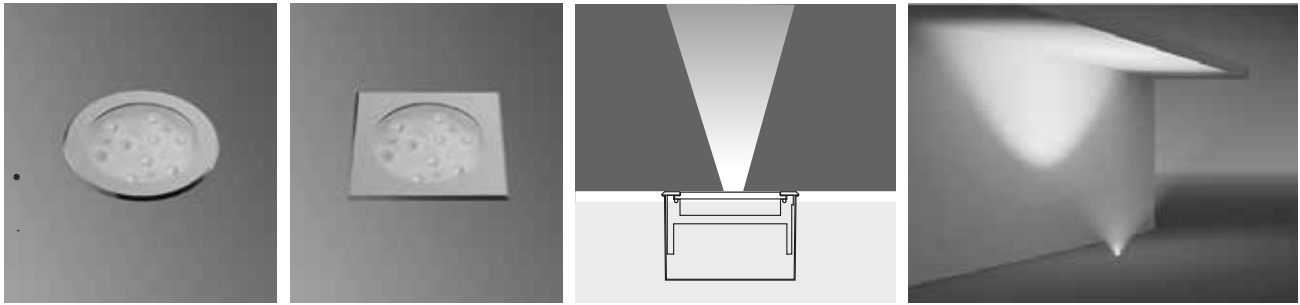


		Total Lighting Output	Code No	
			Round	Square
☀ Warm White	3000 K	1750 lm	163161	163171
☾ Natural White	4000 K	1900 lm	163162	163172

PATNOS 5 RECESSED LED FIXTURES

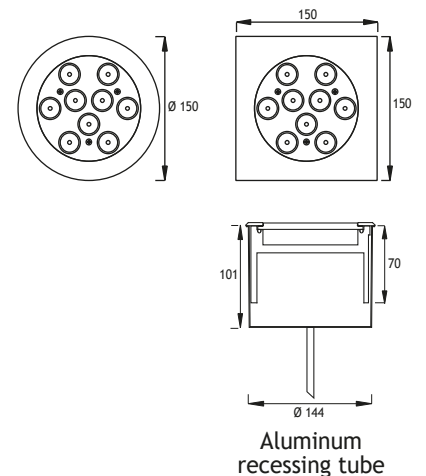
Class I IP67 IK10

Symmetrical PATNOS 5 Fix to Recessing Tube with Silicone



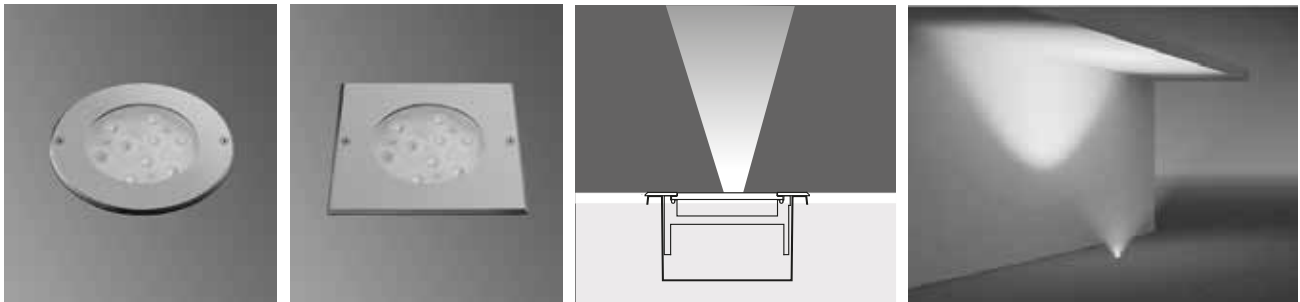
9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W Round	9W Square	27W Round	27W Square
		9W	27W				
☀ Warm White	3000 K	765 lm	2100 lm	164001	164011	164041	164051
☀ Natural White	4500 K	765 lm	2100 lm	164002	164012	164042	164052
☀ Cool White	6000 K	918 lm	2520 lm	164003	164013	164043	164053
🌊 Blue				164004	164014	164044	164054
🔴 Red				164005	164015	164045	164055
🟡 Amber				164006	164016	164046	164056
🟢 Green				164007	164017	164047	164057



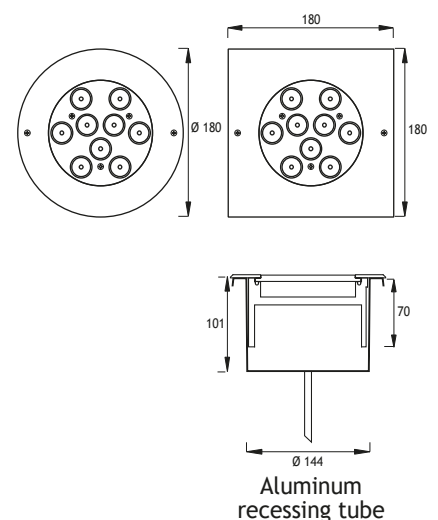
- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

Symmetrical PATNOS 5 Fix to Recessing Tube with Screws



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W Round	9W Square	27W Round	27W Square
		9W	27W				
☀ Warm White	3000 K	765 lm	1350 lm	164021	164031	164061	164071
☀ Natural White	4500 K	765 lm	1350 lm	164022	164032	164062	164072
☀ Cool White	6000 K	918 lm	1620 lm	164023	164033	164063	164073
🌊 Blue				164024	164034	164064	164074
🔴 Red				164025	164035	164065	164075
🟡 Amber				164026	164036	164066	164076
🟢 Green				164027	164037	164067	164077

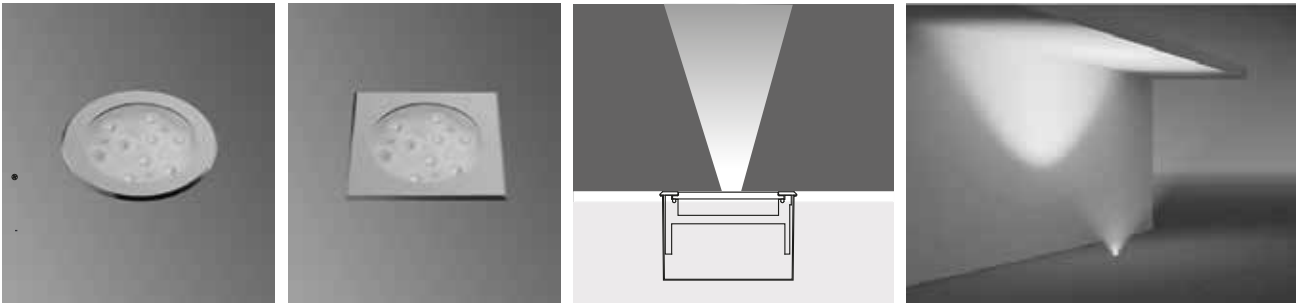


- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

PATNOS 5 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Symmetrical
PATNOS 5 Fix to Recessing Tube with Silicone

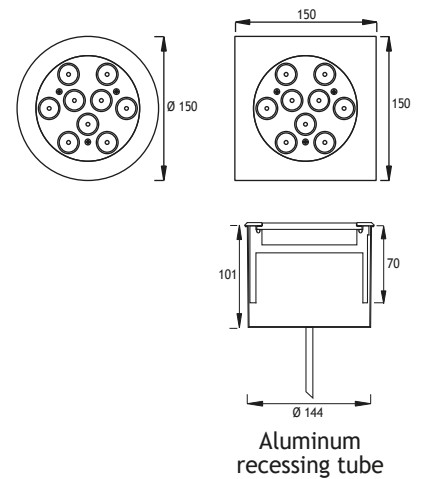


27 x 350 mA (27 W) RGB LED

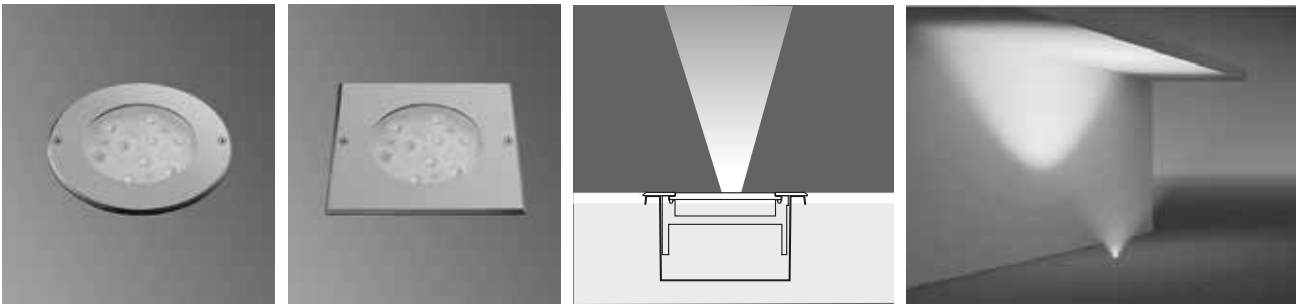
- Voltage : 240V A.C with remote driver
- Lens : 25° or 40°
- Diffuser : Clear Glass
8 mm (Frosted Glass on request)
- Cable : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



Code No
Round Square
164081 164091



Symmetrical
PATNOS 5 Fix to Recessing Tube with Screws

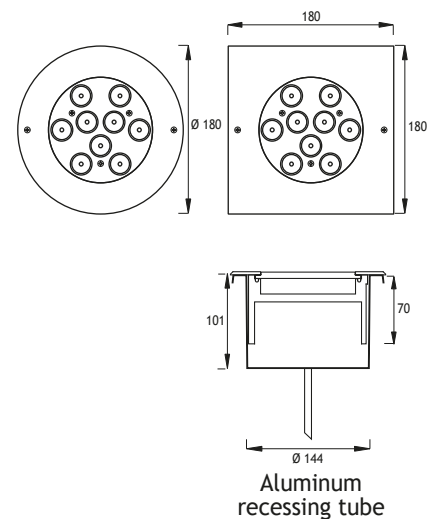


27 x 350 mA (27 W) RGB LED

- Voltage : 240V A.C with remote driver
- Lens : 25° or 40°
- Diffuser : Clear Glass
8 mm (Frosted Glass on request)
- Cable : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



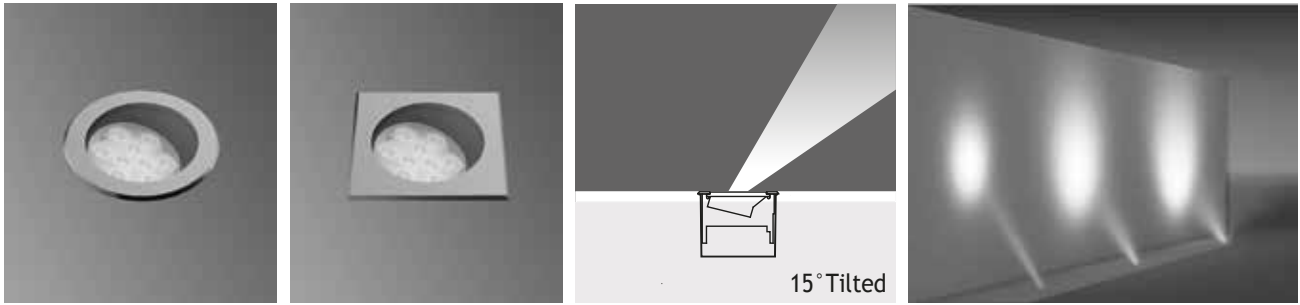
Code No
Round Square
164101 164111



PATNOS 5 RECESSED LED FIXTURES

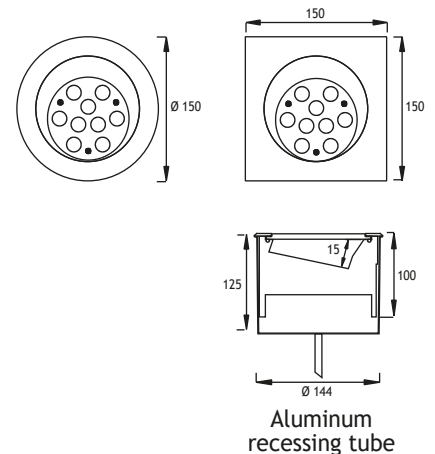
Class I IP67 IK10

Asymmetrical 15° Tilted PATNOS 5 Fix to Recessing Tube with Silicone



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W Round	9W Square	27W Round	27W Square
		9W	27W				
☀ Warm White	3000 K	765 lm	2100 lm	164201	164211	164701	164711
☀ Natural White	4500 K	765 lm	2100 lm	164202	164212	164702	164712
☀ Cool White	6000 K	918 lm	2520 lm	164203	164213	164703	164713
🌊 Blue				164204	164214	164704	164714
🔴 Red				164205	164215	164705	164715
🟡 Amber				164206	164216	164706	164716
🟢 Green				164207	164217	164707	164717



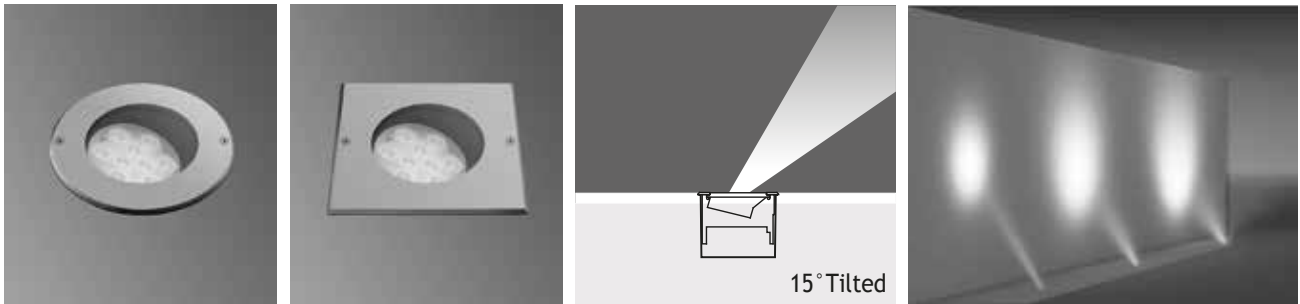
Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

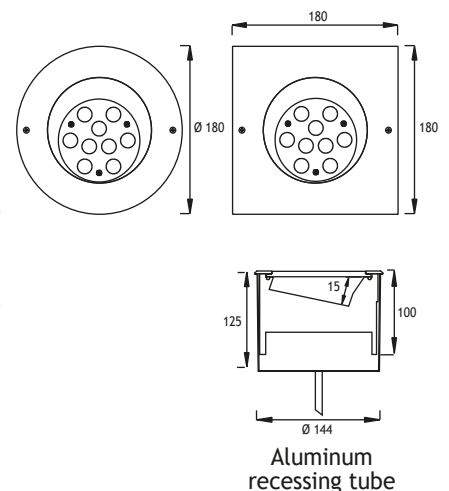
Cable : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 15° Tilted PATNOS 5 Fix to Recessing Tube with Screws



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W Round	9W Square	27W Round	27W Square
		9W	27W				
☀ Warm White	3000 K	765 lm	2100 lm	164221	164231	164721	164731
☀ Natural White	4500 K	765 lm	2100 lm	164222	164232	164722	164732
☀ Cool White	6000 K	918 lm	2520 lm	164223	164233	164723	164733
🌊 Blue				164224	164234	164724	164734
🔴 Red				164225	164235	164725	164735
🟡 Amber				164226	164236	164726	164736
🟢 Green				164227	164237	164727	164737



Voltage : 240V A.C with integrated driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

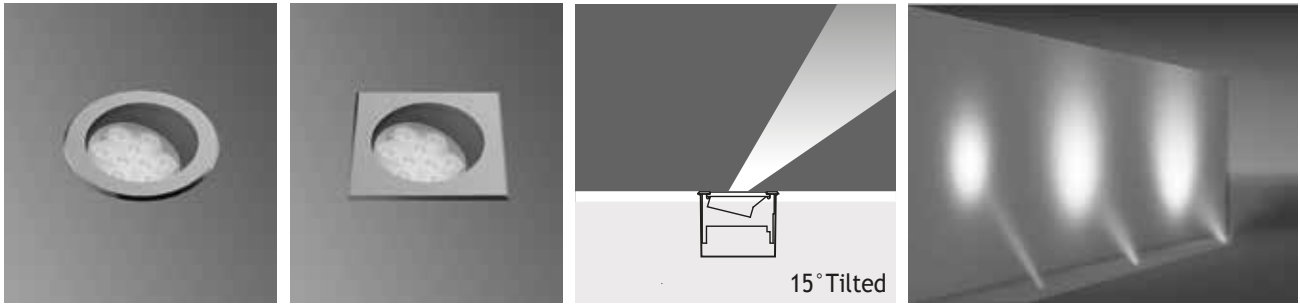
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

PATNOS 5 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Asymmetrical 15° Tilted PATNOS 5 Fix to Recessing Tube with Silicone

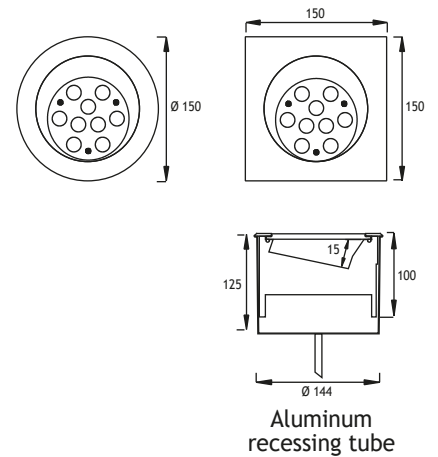


27 x 350 mA (27 W) RGB LED

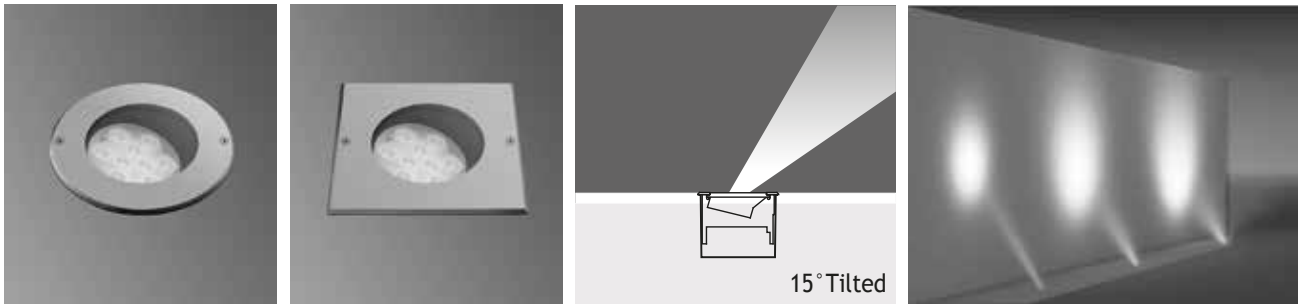
- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



	Code No
Round	Square
164241	164251



Asymmetrical 15° Tilted PATNOS 5 Fix to Recessing Tube with Screws

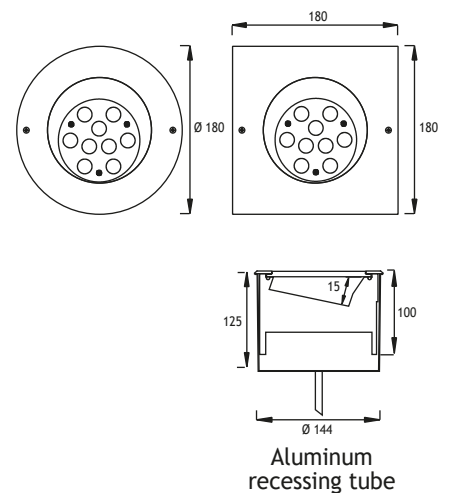


27 x 350 mA (27 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



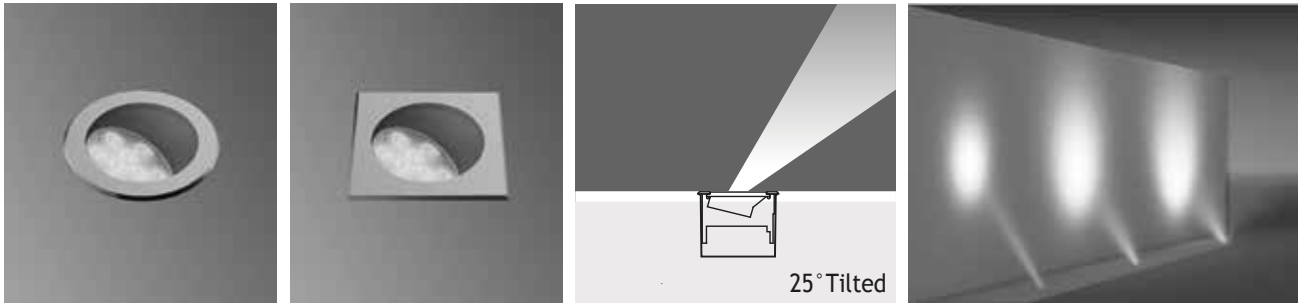
	Code No
Round	Square
164261	164271



PATNOS 5 RECESSED LED FIXTURES

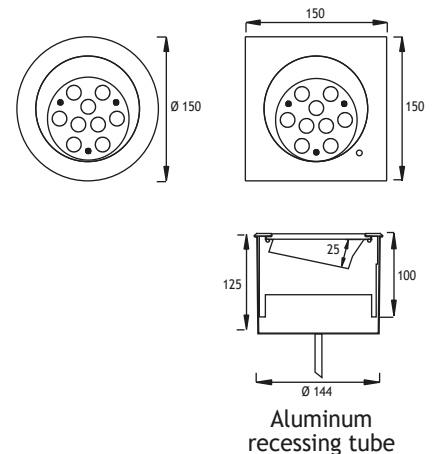
Class I IP67 IK10

Asymmetrical 25° Tilted PATNOS 5 Fix to Recessing Tube with Silicone



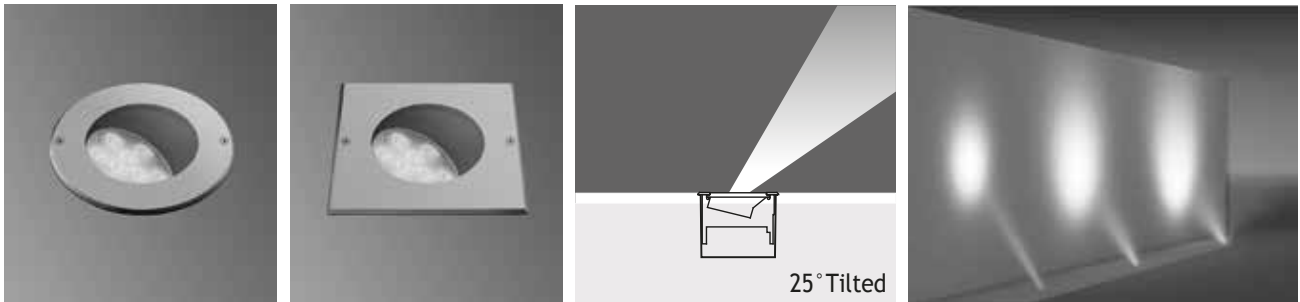
9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W Round	9W Square	27W Round	27W Square
		9W	27W				
☀ Warm White	3000 K	765 lm	2100 lm	164281	164291	164741	164751
☀ Natural White	4500 K	765 lm	2100 lm	164282	164292	164742	164752
☀ Cool White	6000 K	918 lm	2520 lm	164283	164293	164743	164753
🌊 Blue				164284	164294	164744	164754
🔴 Red				164285	164295	164745	164755
🟡 Amber				164286	164296	164746	164756
🟢 Green				164287	164297	164747	164757



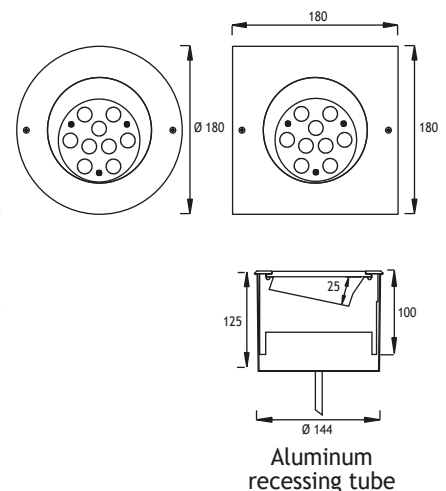
- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 25° Tilted PATNOS 5 Fix to Recessing Tube with Screws



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W Round	9W Square	27W Round	27W Square
		9W	27W				
☀ Warm White	3000 K	765 lm	2100 lm	164301	164311	164761	164771
☀ Natural White	4500 K	765 lm	2100 lm	164302	164312	164762	164772
☀ Cool White	6000 K	918 lm	2520 lm	164303	164313	164763	164773
🌊 Blue				164304	164314	164764	164774
🔴 Red				164305	164315	164765	164775
🟡 Amber				164306	164316	164766	164776
🟢 Green				164307	164317	164767	164777

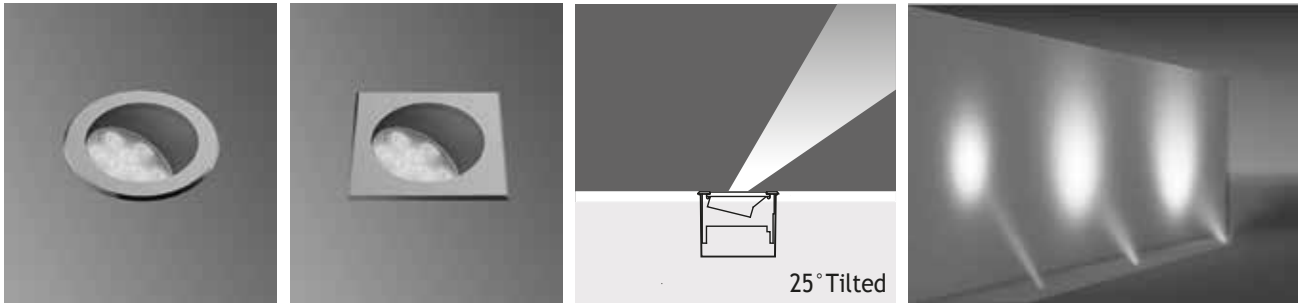


- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

PATNOS 5 RECESSED RGB LED FIXTURES

Class I IP67 IK10

Asymmetrical 25° Tilted PATNOS 5 Fix to Recessing Tube with Silicone

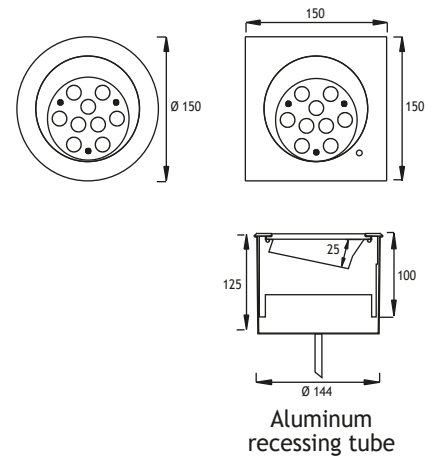


27 x 350 mA (27 W) RGB LED

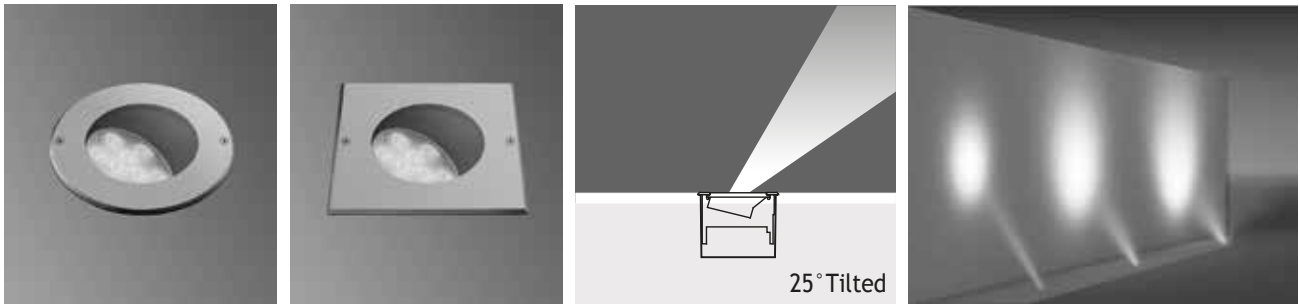
- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



	Code No
Round	Square
164321	164331



Asymmetrical 25° Tilted PATNOS 5 Fix to Recessing Tube with Screws

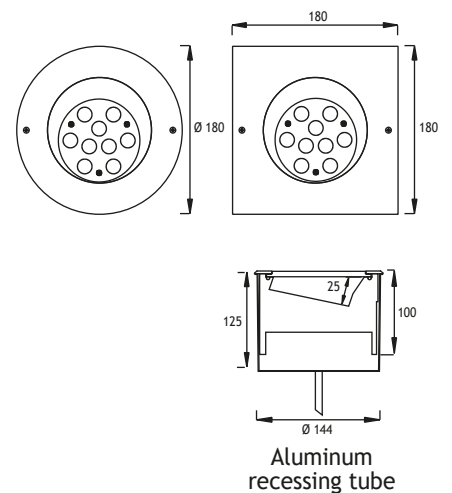


27 x 350 mA (27 W) RGB LED

- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass
8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button



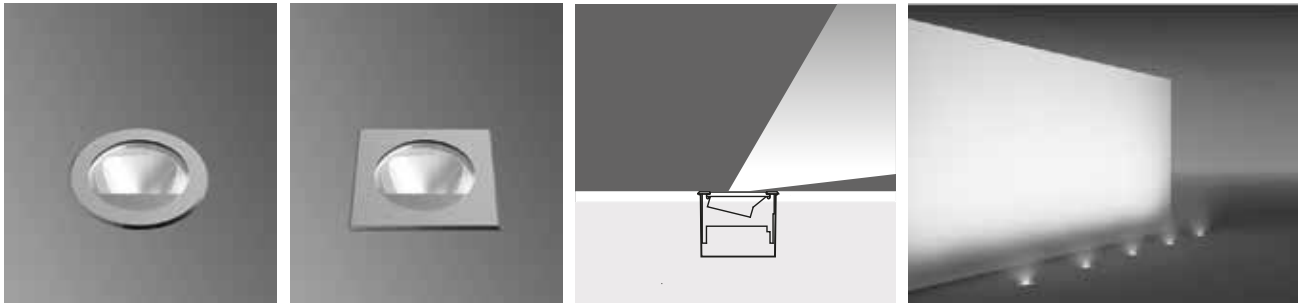
	Code No
Round	Square
164341	164351



PATNOS 5 RECESSED LED FIXTURES

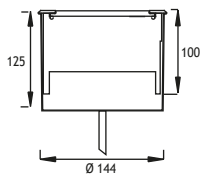
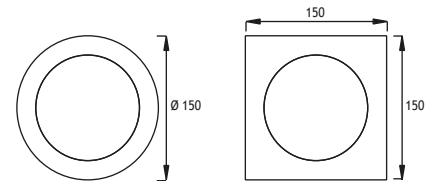
Class I IP67 IK10

Asymmetrical Wallwasher PATNOS 5 Fix to Recessing Tube with Silicone



1 x 350 mA (12 W) LED or 1 x 700 mA (25 W) LED

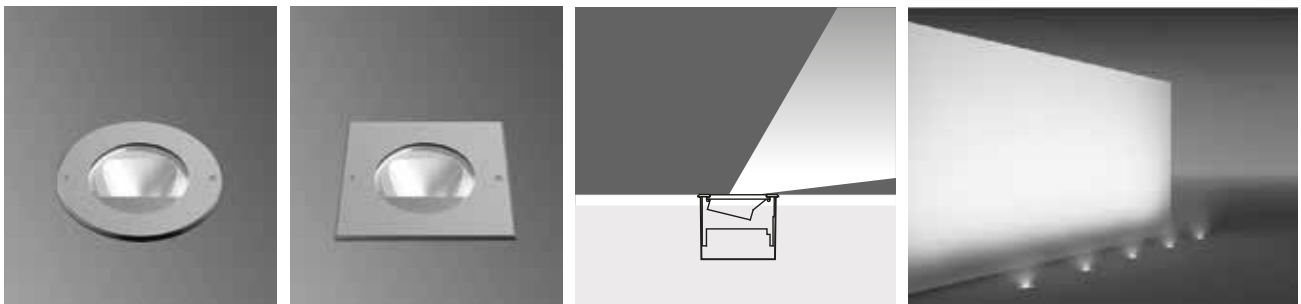
		Total Lighting Output		12W Round	12W Square	25W Round	25W Square
		12W	25W				
☀ Warm White	2700 K	1005 lm	1848 lm	164801	164811	164901	164911
☀ Warm White	3000 K	1005 lm	1848 lm	164802	164812	164902	164912
☀ Natural White	4000 K	1078 lm	1919 lm	164803	164813	164903	164913



Aluminum recessing tube

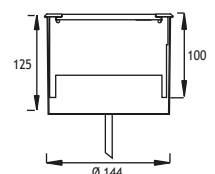
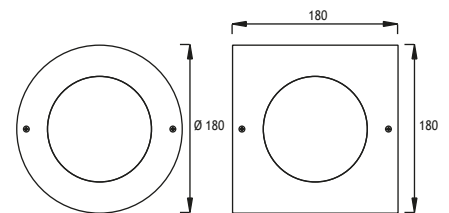
- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical Wallwasher PATNOS 5 Fix to Recessing Tube with Screws



1 x 350 mA (12 W) LED or 1 x 700 mA (25 W) LED

		Total Lighting Output		12W Round	12W Square	25W Round	25W Square
		12W	25W				
☀ Warm White	2700 K	1005 lm	1848 lm	164821	164831	164921	164931
☀ Warm White	3000 K	1005 lm	1848 lm	164822	164832	164922	164932
☀ Natural White	4000 K	1078 lm	1919 lm	164823	164833	164923	164933



Aluminum recessing tube

- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

GORDION RECESSED LED FIXTURES

Load 5 kN | Class I IP67 IK08

The Gordion series is an adaption of the Belkis Recessed series without the stainless steel cover. Merely a painted glass finishes the look of the fixture. Once placed inside the stainless steel tube, the fixture can only be removed with a special tool. The Gordion series is designed to light walls, facades, columns, monuments, and trees. The fixtures are made of die cast aluminium body painted with electrostatic powder paint. Tempered glass, silicone gaskets and cast resin complete the fixture to make it IP67 IK10 and withstand rough environments. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired light effect.

Body

Die cast aluminium

Recessing Tube

316L Stainless steel

Gaskets

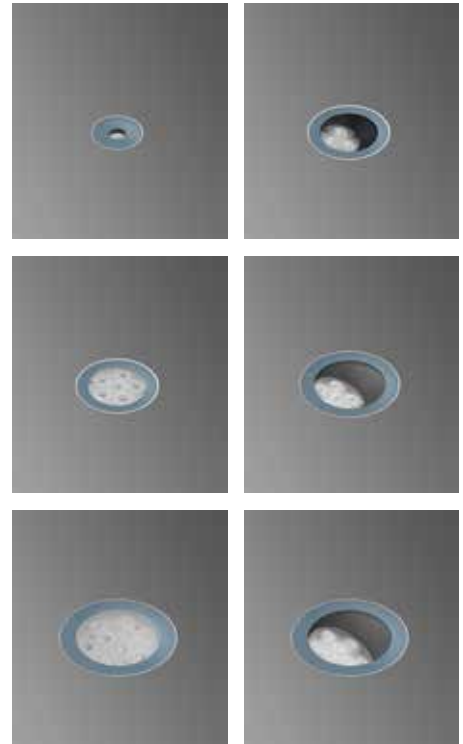
Silicone

Diffusers

Tempered Glass with painted circumference

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



Honeycomb Louvre

	Code No
Belkis 1	953521
Belkis 2	953522
Belkis 3	953523
Belkis 4	953524
Belkis 5	953525



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

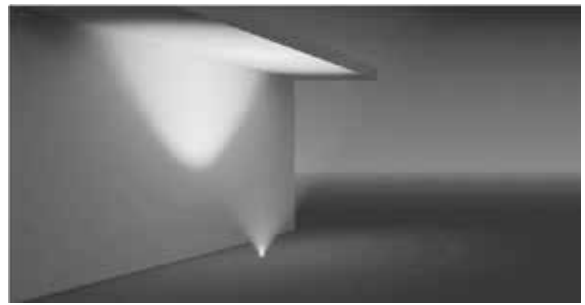
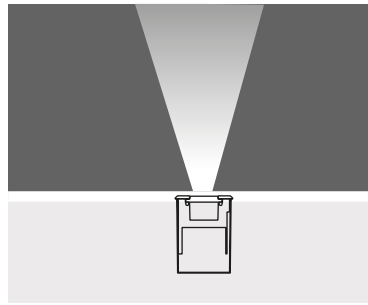
Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

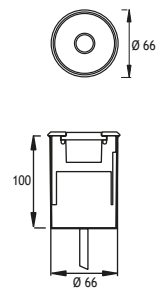
GORDION 1 RECESSED LED FIXTURES

Class I IP67 IK08

Symmetrical GORDION 1

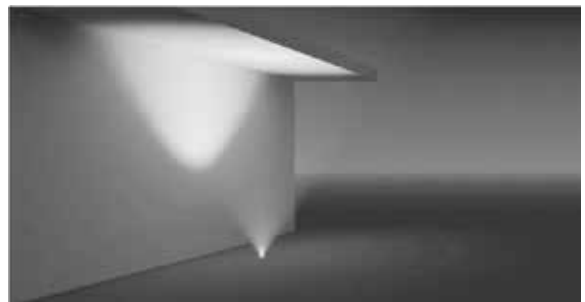
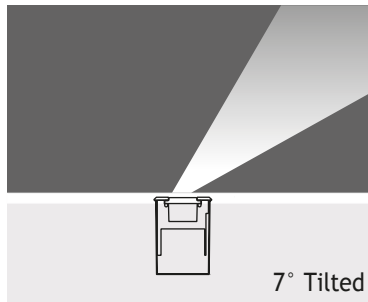


1 x 350 mA (1 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	85 lm	170001
☀ Natural White	4500 K	85 lm	170002
☀ Cool White	6000 K	102 lm	170003
🟦 Blue			170004
🟥 Red			170005
🟡 Amber			170006
🟢 Green			170007

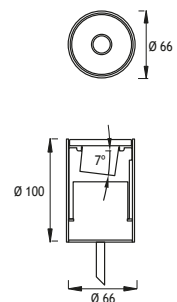


- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 7° Tilted GORDION 1



1 x 350 mA (1 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	85 lm	170011
☀ Natural White	4500 K	85 lm	170012
☀ Cool White	6000 K	102 lm	170013
🟦 Blue			170014
🟥 Red			170015
🟡 Amber			170016
🟢 Green			170017

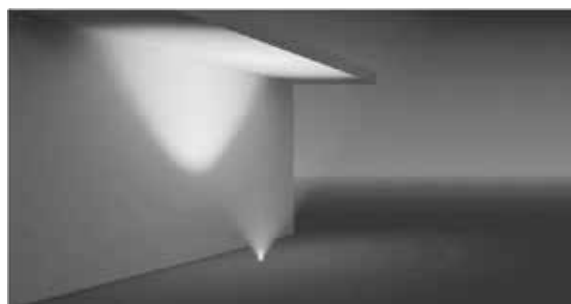
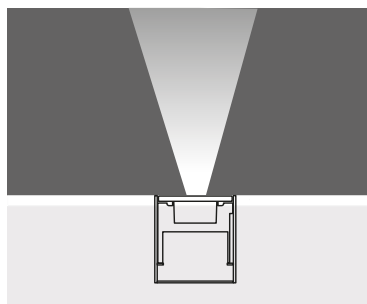


- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

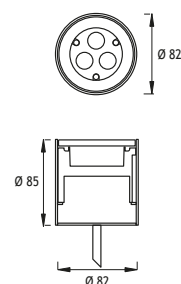
GORDION 2 RECESSED LED FIXTURES

Class I IP67 IK08

Symmetrical GORDION 2

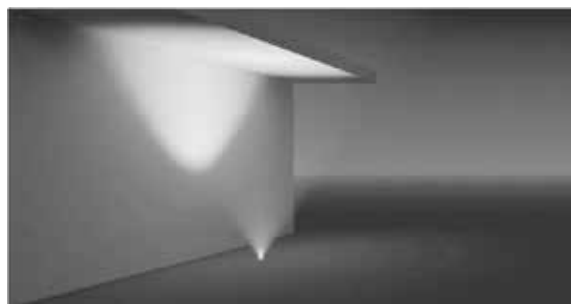
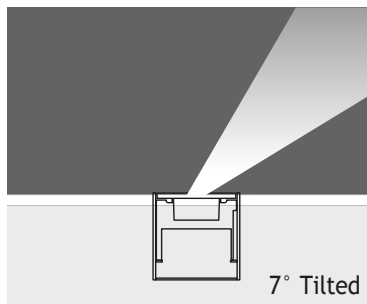


3 x 350 mA (3 W) LED		Total Lighting Output	Code No
☀️ Warm White	3000 K	255 lm	170101
☀️ Natural White	4500 K	255 lm	170102
☀️ Cool White	6000 K	306 lm	170103
🟦 Blue			170104
🟥 Red			170105
🟡 Amber			170106
🟢 Green			170107

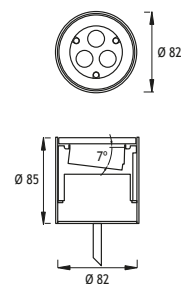


Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 7° Tilted GORDION 2



3 x 350 mA (3 W) LED		Total Lighting Output	Code No
☀️ Warm White	3000 K	255 lm	170111
☀️ Natural White	4500 K	255 lm	170112
☀️ Cool White	6000 K	306 lm	170113
🟦 Blue			170114
🟥 Red			170115
🟡 Amber			170116
🟢 Green			170117

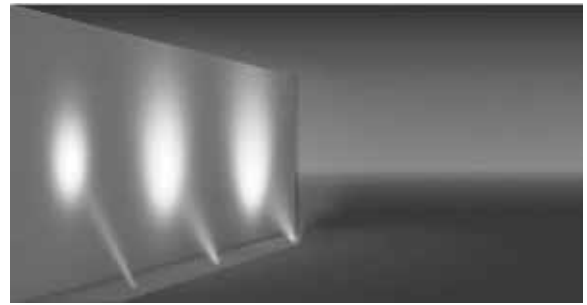
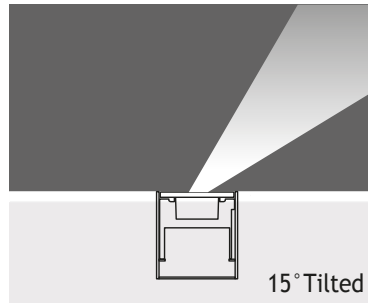


Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass with painted circumference

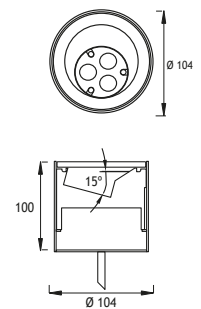
GORDION 2 RECESSED LED FIXTURES

Class I IP67 IK08

Asymmetrical 15° Tilted GORDION 2

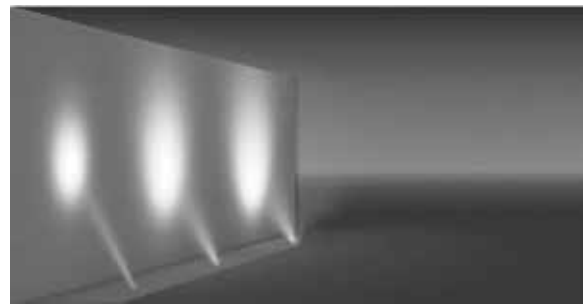
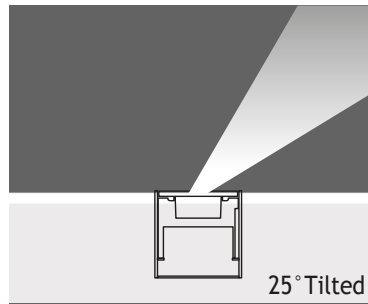


3 x 350 mA (3 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	255 lm	170141
☀ Natural White	4500 K	255 lm	170142
☀ Cool White	6000 K	306 lm	170143
🟦 Blue			170144
🟥 Red			170145
🟡 Amber			170146
🟢 Green			170147

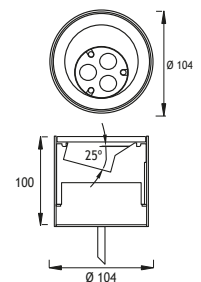


Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 25° Tilted GORDION 2



3 x 350 mA (3 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	255 lm	170151
☀ Natural White	4500 K	255 lm	170152
☀ Cool White	6000 K	306 lm	170153
🟦 Blue			170154
🟥 Red			170155
🟡 Amber			170156
🟢 Green			170157

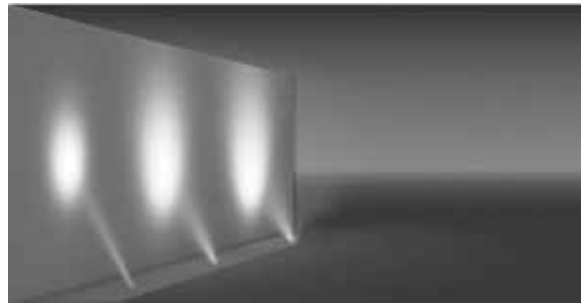
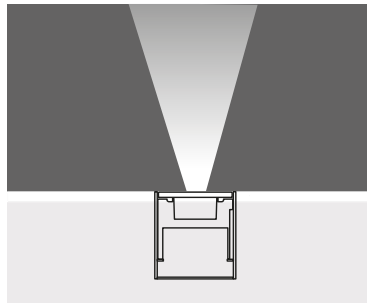


Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass with painted circumference

GORDION 2 RECESSED RGB LED FIXTURES

Class I IP67 IK08

Symmetrical GORDION 2

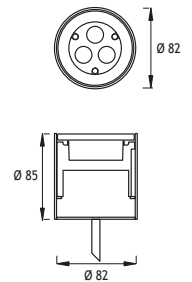


- Voltage** : 240V A.C with remote driver
- Lens** : 25° or 40°
- Diffuser** : Clear Glass with painted circumference 8 mm
(Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 mm H03 VV-F
- Control by DMX, remote control, or push button

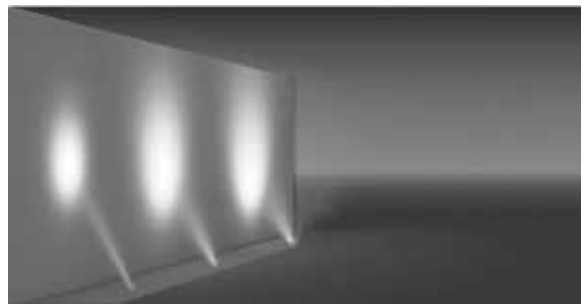
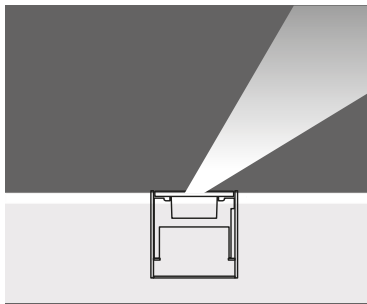
9 x 350 mA (9 W) RGB LED



Code No
170121



Asymmetrical 7° / 15° / 25° Tilted GORDION 2

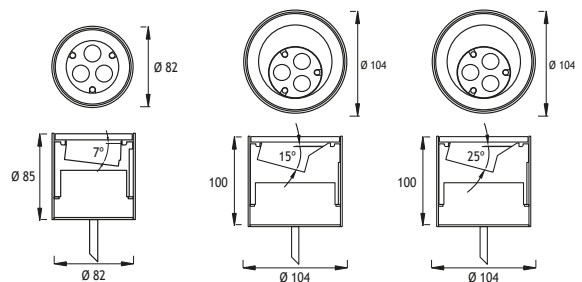


- Voltage** : 240V A.C with remote driver
(24V AC or DC on request)
- Lens** : 25° or 40°
- Diffuser** : Clear Glass with painted circumference 8 mm
(Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 mm H03 VV-F
- Control by DMX, remote control, or push button

9 x 350 mA (9 W) RGB LED



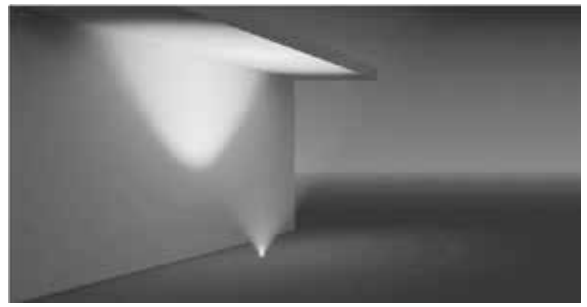
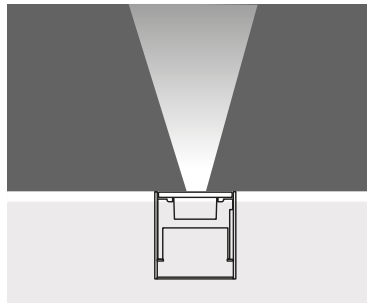
7° Tilted	15° Tilted	25° Tilted
170131	170161	170171



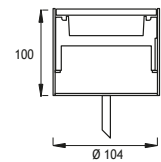
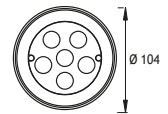
GORDION 3 RECESSED LED FIXTURES

Class I IP67 IK08

Symmetrical GORDION 3

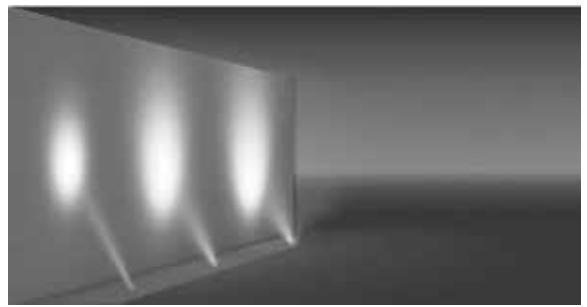
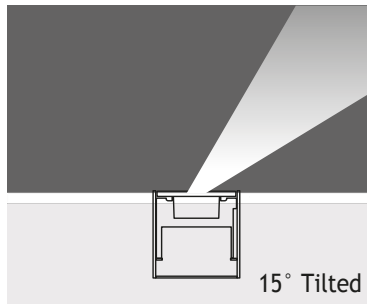


6 x 350 mA (6 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	510 lm	170201
☀ Natural White	4500 K	510 lm	170202
☀ Cool White	6000 K	612 lm	170203
🟦 Blue			170204
🟥 Red			170205
🟡 Amber			170206
🟢 Green			170207

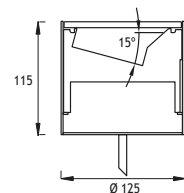
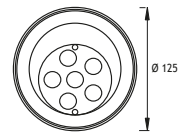


- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 15° Tilted GORDION 3



6 x 350 mA (6 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	510 lm	170211
☀ Natural White	4500 K	510 lm	170212
☀ Cool White	6000 K	612 lm	170213
🟦 Blue			170214
🟥 Red			170215
🟡 Amber			170216
🟢 Green			170217

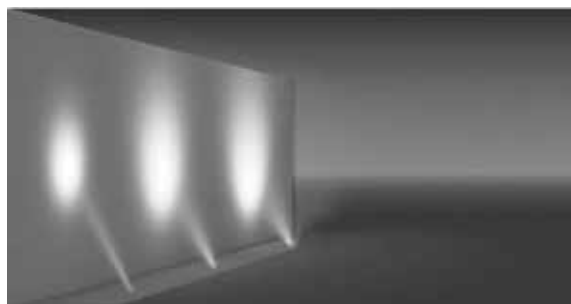
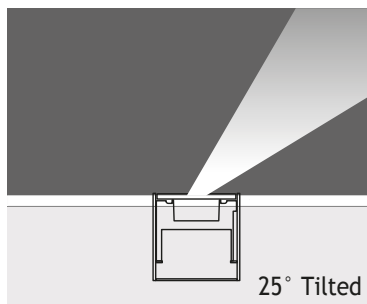


- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass with painted circumference

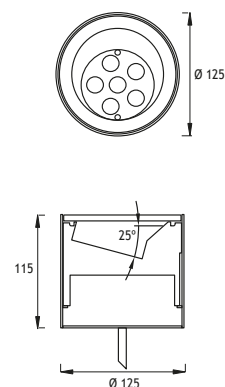
GORDION 3 RECESSED LED FIXTURES

Class I IP67 IK08

Asymmetrical 25° Tilted GORDION 3



6 x 350 mA (6 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	420 lm	170221
☀ Natural White	4500 K	420 lm	170222
☀ Cool White	6000 K	505 lm	170223
🟦 Blue			170224
🟥 Red			170225
🟡 Amber			170226
🟢 Green			170227



Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

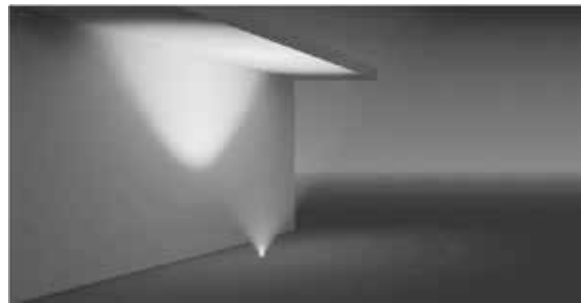
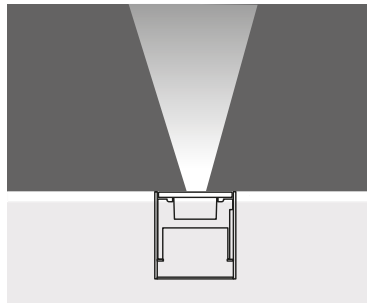
Diffuser : Clear Glass with painted circumference 8 mm
(Frosted Glass on request)

Cable : Potted 5 m 3x0,75 mm H03 VV-F

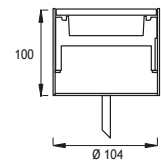
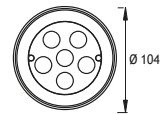
GORDION 3 RECESSED RGB LED FIXTURES

Class I IP67 IK08

Symmetrical GORDION 3



Voltage : 240V A.C with remote driver
Lens : 25°, 40°
Diffuser : Clear Glass with painted circumference 8 mm
 (Frosted Glass on request)
Cable : Potted 10 m 4x0,75 mm H03 VV-F
 Control by DMX, remote control, or push button

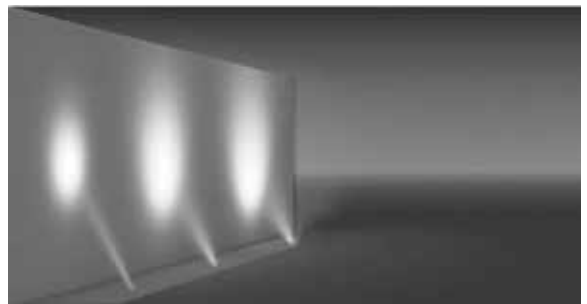
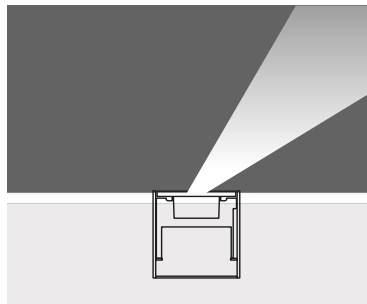


9 x 350 mA (9 W) RGB LED

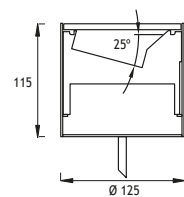
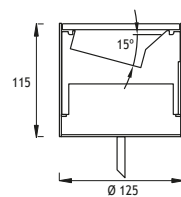
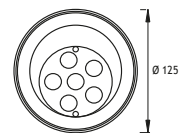
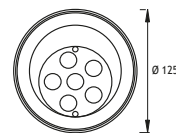


Code No
170231

Asymmetrical 15° / 25° Tilted GORDION 3



Voltage : 240V A.C with remote driver
Lens : 25° or 40°
Diffuser : Clear Glass with painted circumference 8 mm
 (Frosted Glass on request)
Cable : Potted 10 m 4x0,75 mm H03 VV-F
 Control by DMX, remote control, or push button



9 x 350 mA (9 W) RGB LED

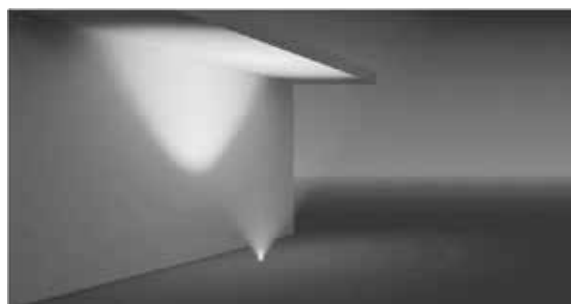
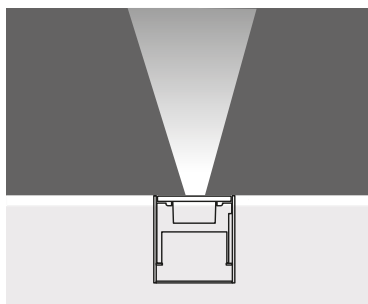


15° Tilted 25° Tilted
170241 170251

GORDION 4 RECESSED LED FIXTURES

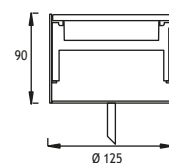
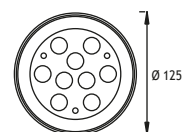
Class I IP67 IK08

Symmetrical GORDION 4



9 x 350 mA (9 W) LED

		Total Lighting Output	Code No
☀ Warm White	3000 K	765 lm	170301
☀ Natural White	4500 K	765 lm	170302
☀ Cool White	6000 K	918 lm	170303
🟦 Blue			170304
🟥 Red			170305
🟡 Amber			170306
🟢 Green			170307



Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

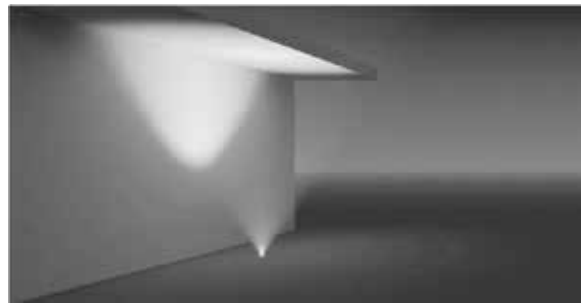
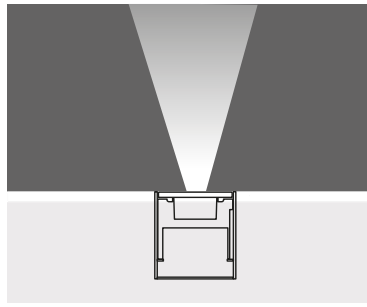
Diffuser : Clear Glass with painted circumference 8 mm
(Frosted Glass on request)

Cable : Potted 5 m 3x0,75 mm H03 VV-F

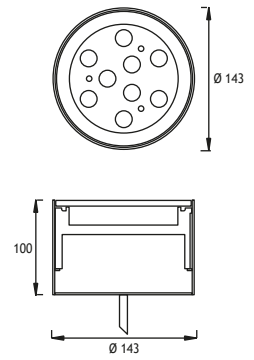
GORDION 5 RECESSED LED FIXTURES

Class I IP67 IK08

Symmetrical GORDION 5

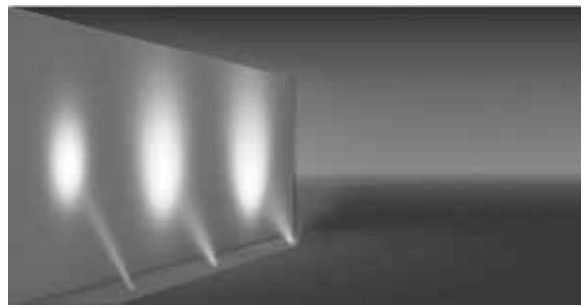
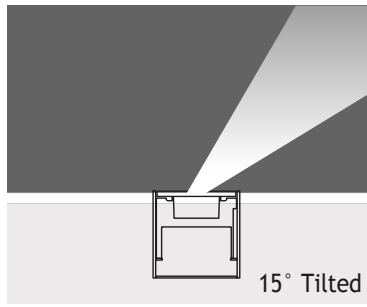


9 x 350 mA (9 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	765 lm	170401
☀ Natural White	4500 K	765 lm	170402
☀ Cool White	6000 K	918 lm	170403
🟦 Blue			170404
🔴 Red			170405
🟡 Amber			170406
🟢 Green			170407

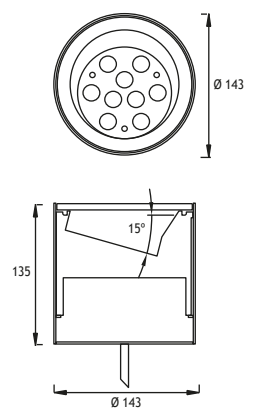


Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
Cable : Potted 5 m 3x0,75 H03 VV-F

Asymmetrical 15° Tilted GORDION 5



9 x 350 mA (9 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	765 lm	170411
☀ Natural White	4500 K	765 lm	170412
☀ Cool White	6000 K	918 lm	170413
🟦 Blue			170414
🔴 Red			170415
🟡 Amber			170416
🟢 Green			170417

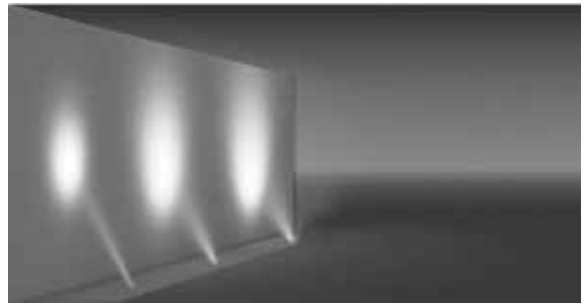
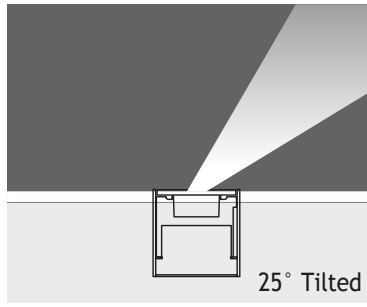


Voltage : 240V A.C with integrated driver (24V AC or DC on request)
Lens : 10°, 25°, 40°
Diffuser : Clear Glass with painted circumference

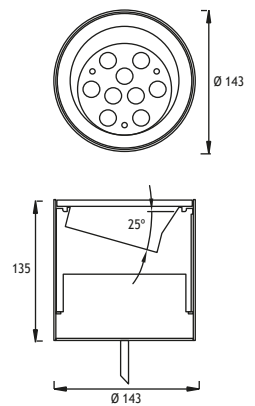
GORDION 5 RECESSED LED FIXTURES

Class I IP67 IK08

Asymmetrical 25° Tilted GORDION 5

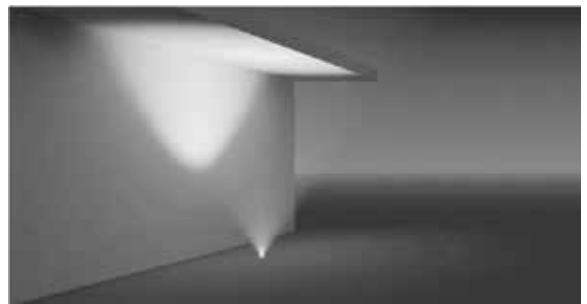
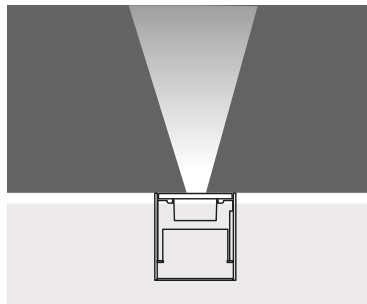


9 x 350 mA (9 W) LED		Total Lighting Output	Code No
☀️ Warm White	3000 K	765 lm	170421
☀️ Natural White	4500 K	765 lm	170422
☀️ Cool White	6000 K	918 lm	170423
🔵 Blue			170424
🔴 Red			170425
🟡 Amber			170426
🟢 Green			170427

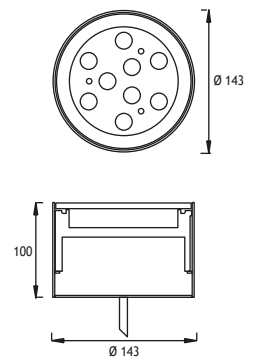


- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

Symmetrical GORDION 5



- Voltage** : 240V A.C with remote driver
- Lens** : 25°, 40°
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 mm H03 VV-F
- Control by DMX, remote control, or push button



27 x 350 mA (27 W) RGB LED	Code No
🔴 🟢 🔵	170431

Wall Recessed





EMFA

MILET ANI WALL RECESSED

Class I IP55 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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EMFA's Ani wall recessed series is specially designed to deliver low-glare lighting to facades, walkways, pathways and driveways with minimal installation depth and narrow trim. The fixture is made of a combination of 316L stainless steel and die cast aluminium. The tilted design reduces the glare of the LED's. The Linear LEDs with special lenses gives excellent wallwashing effect. An anti-slip glass is available upon request.

Cover

316L Stainless steel or Aluminium

Body

Die cast aluminium

Gaskets

Silicone

Diffusers

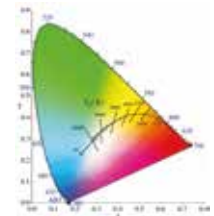
4 mm Tempered Glass

Screws

316L Stainless Steel

Glands

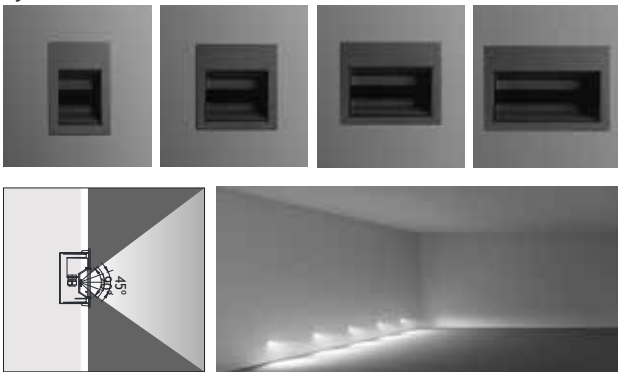
PG 11



"Customization" is EMFA's standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

Symmetrical



Galvanized Recessing Box

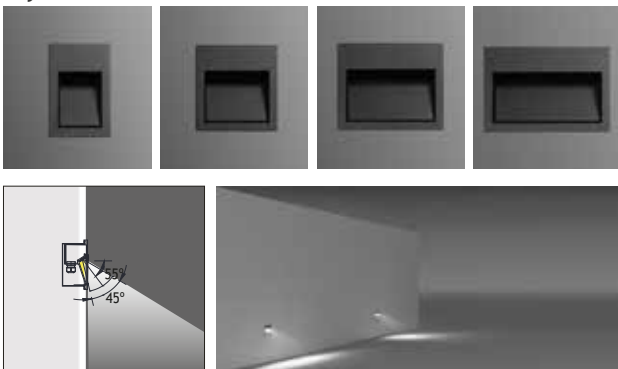


end of the code number "s" add for Screw mounting option for

LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Asymmetrical



Asym. Glass



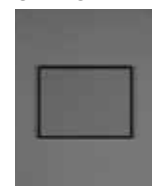
Trenched Glass



Milky Glass



Clear Glass



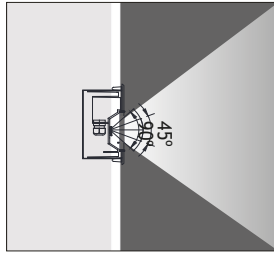
ANI INOX WALL RECESSED Class I IP55 IK08

Available in any of these RAL colors

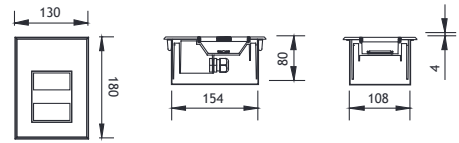
7004	7016	9005	9016	6002	1015
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Symmetrical

- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : >80
- L.O.R %** : %70



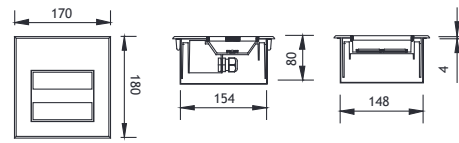
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	456001	3000 K	600 lm	850 lm
12W	456011	3000 K	1020 lm	1460 lm
6W	456002	4000 K	690 lm	977 lm
12W	456012	4000 K	1173 lm	1679 lm



Galvanized Recessing Box



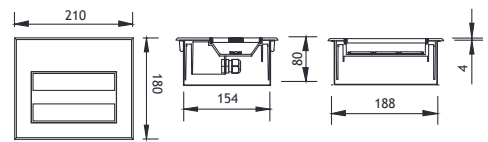
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
12W	456101	3000 K	1020 lm	1460 lm
24W	456111	3000 K	1780 lm	2550 lm
12W	456102	4000 K	1173 lm	1679 lm
24W	456112	4000 K	2047 lm	2932 lm



Galvanized Recessing Box



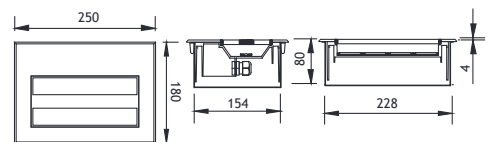
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
18W	456201	3000 K	1200 lm	1700 lm
36W	456211	3000 K	2300 lm	3300 lm
18W	456202	4000 K	1380 lm	1955 lm
36W	456212	4000 K	2645 lm	2932 lm



Galvanized Recessing Box



Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	456301	3000 K	1780 lm	2550 lm
48W	456311	3000 K	3080 lm	4300 lm
24W	456302	4000 K	2047 lm	2932 lm
48W	456312	4000 K	3542 lm	5060 lm



Galvanized Recessing Box

ANI INOX WALL RECESSED

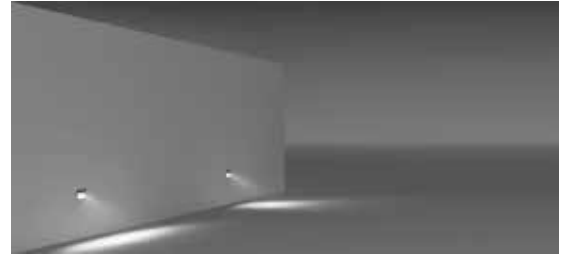
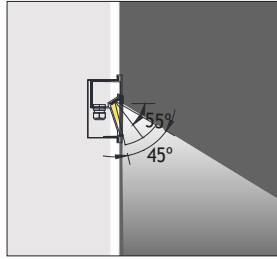
Class I IP67 IK08

Available in any of these RAL colors

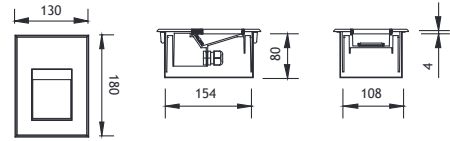
7004	7016	9005	9016	6002	1015
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Asymmetrical

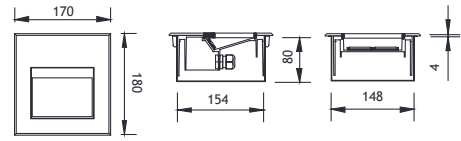
- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : 80
- L.O.R %** : %64



Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	456501	3000 K	600 lm	850 lm
12W	456511	3000 K	1020 lm	1460 lm
6W	456502	4000 K	690 lm	977 lm
12W	456512	4000 K	1173 lm	1679 lm



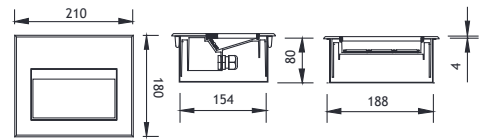
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
12W	456601	3000 K	1020 lm	1460 lm
24W	456611	3000 K	1780 lm	2550 lm
12W	456602	4000 K	1173 lm	1679 lm
24W	456612	4000 K	2047 lm	2932 lm



Galvanized Recessing Box



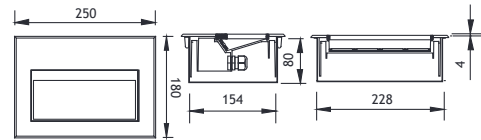
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
18W	456701	3000 K	1200 lm	1700 lm
36W	456711	3000 K	2300 lm	3300 lm
18W	456702	4000 K	1380 lm	1955 lm
36W	456712	4000 K	2645 lm	2932 lm



Galvanized Recessing Box



Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	456801	3000 K	1780 lm	2550 lm
48W	456811	3000 K	3080 lm	4300 lm
24W	456802	4000 K	2047 lm	2932 lm
48W	456812	4000 K	3542 lm	5060 lm



Galvanized Recessing Box

ANI ALUM WALL RECESSED

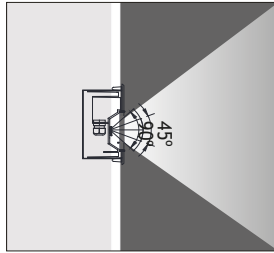
Class I IP55 IK08

Available in any of these RAL colors

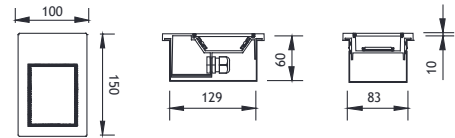
7004	7016	9005	9016	6002	1015
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Symmetrical

- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : >80
- L.O.R %** : %70



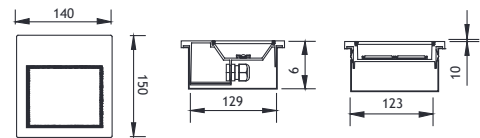
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	455001	3000 K	600 lm	850 lm
12W	455011	3000 K	1020 lm	1460 lm
6W	455002	4000 K	690 lm	977 lm
12W	455012	4000 K	1173 lm	1679 lm



Galvanized Recessing Box



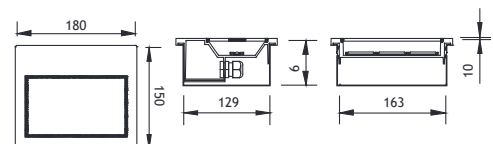
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
12W	455101	3000 K	1020 lm	1460 lm
24W	455111	3000 K	1780 lm	2550 lm
12W	455102	4000 K	1173 lm	1679 lm
24W	455112	4000 K	2047 lm	2932 lm



Galvanized Recessing Box



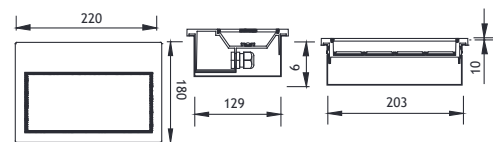
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
18W	455201	3000 K	1200 lm	1700 lm
36W	455211	3000 K	2300 lm	3300 lm
18W	455202	4000 K	1380 lm	1955 lm
36W	455212	4000 K	2645 lm	2932 lm



Galvanized Recessing Box



Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	455301	3000 K	1780 lm	2550 lm
48W	455311	3000 K	3080 lm	4300 lm
24W	455302	4000 K	2047 lm	2932 lm
48W	455312	4000 K	3542 lm	5060 lm



Galvanized Recessing Box

ANI ALUM WALL RECESSED

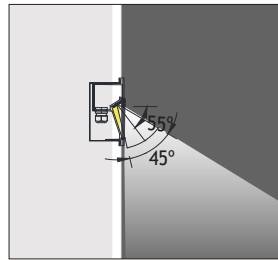
Class I IP55 IK08

Available in any of these RAL colors

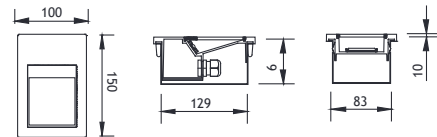
7004	7016	9005	9016	6002	1015
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Asymmetrical

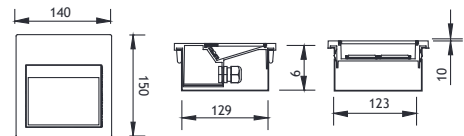
- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : 80
- L.O.R %** : %64



Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	455501	3000 K	600 lm	850 lm
12W	455511	3000 K	1020 lm	1460 lm
6W	455502	4000 K	690 lm	977 lm
12W	455512	4000 K	1173 lm	1679 lm



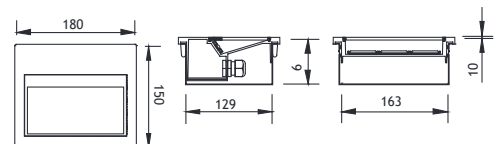
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
12W	455601	3000 K	1020 lm	1460 lm
24W	455611	3000 K	1780 lm	2550 lm
12W	455602	4000 K	1173 lm	1679 lm
24W	455612	4000 K	2047 lm	2932 lm



Galvanized Recessing Box



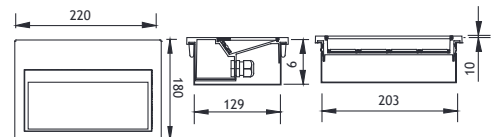
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
18W	455701	3000 K	1200 lm	1700 lm
36W	455711	3000 K	2300 lm	3300 lm
18W	455702	4000 K	1380 lm	1955 lm
36W	455712	4000 K	2645 lm	2932 lm



Galvanized Recessing Box



Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	455801	3000 K	1780 lm	2550 lm
48W	455811	3000 K	3080 lm	4300 lm
24W	455802	4000 K	2047 lm	2932 lm
48W	455812	4000 K	3542 lm	5060 lm



Galvanized Recessing Box

SANTOS 6 WALL RECESSED FIXTURES

Class I IP67 IK10

EMFA's Santos 6 Wall Recessed Fixture is specially designed to deliver glare-free lighting in open areas and pathways. The combination of the ribbed glass, which creates a horizontal elliptical light output and the lamp cover, which hides the source of light, allows for an unobtrusive comfortable lighting effect. The fixture is made of a combination of 316L stainless steel and aluminium. The narrow depth of 159 mm allows the fixture to be installed in most walls. The electronic ballast is housed in the thermally separated base of the fixture.



Cover

316L Stainless steel

Body

Die cast aluminium or aluminium profile with die cast aluminium bottom and connection box.

Gaskets

Silicone

Diffusers

5 mm ribbed tempered Glass

Screws

316L Stainless steel

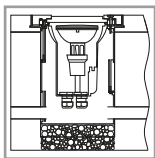
Glands

2 x PG 13.5

Recessing Tube

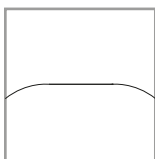
Polyamide 6

Mounting Feature



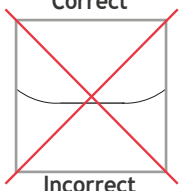
Provide at least 30 cm of drainage gravel to avoid the accumulation of water under the fixture.

To make the fixture drive over, the recessing tube should be mounted flush to the ground.



Correct

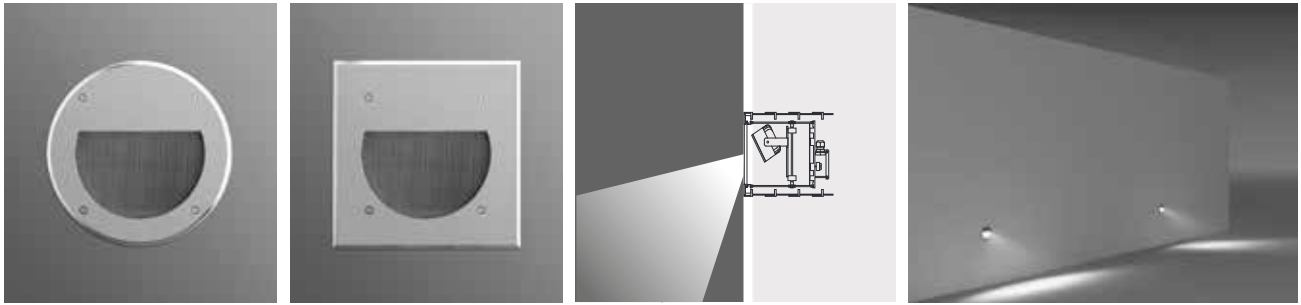
When mounting the fixture on uneven surfaces, place so that the water does not accumulate on the surface of the fixture.



Incorrect

SANTOS 6

WALL RECESSED FIXTURES Class I IP67 IK10



12W LED - 350 mA

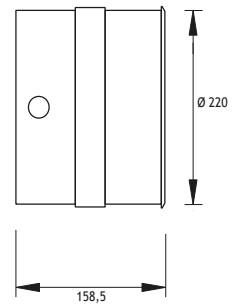
Voltage : 240V AC with integrated driver
(12V DC or 24V DC on request)

Reflector : -

Temp : 45°C

☀ Warm White	3000 K	Code No	
		Round	Square
		552121	552221

☀ Natural White	4000 K	Code No	
		Round	Square
		552122	552222



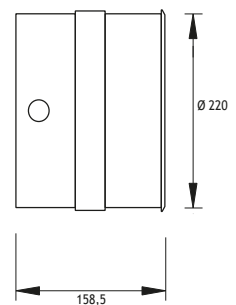
HALOGEN PAR 30 75W

Lampholder : E27

Reflector : -

Temp : 129°C

Code No	
Round	Square
552101	552201



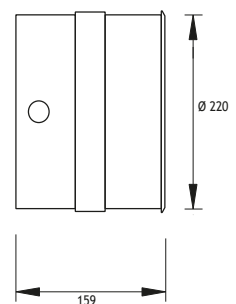
METAL HALIDE 20W

Lampholder : G 8.5

Reflector : 36°

Temp : 63°C, 100°C

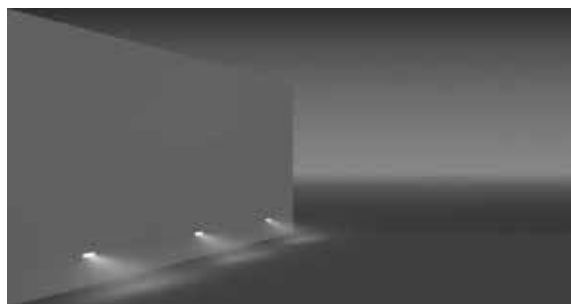
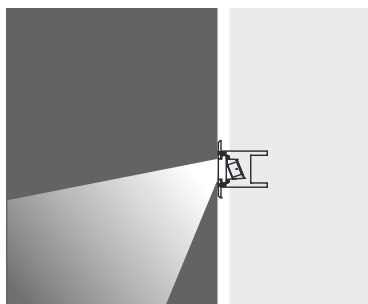
Code No	
Round	Square
552111	552211



MIRA 1 RECESSED LED FIXTURES

Load 20 kN | Class II IP67 IK10

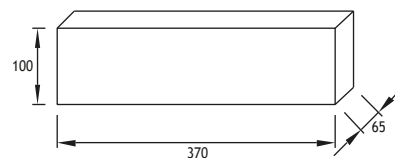
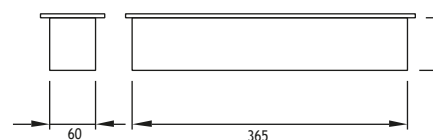
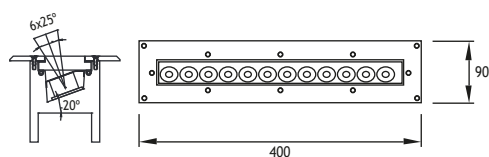
Asymmetrical



12 x 350 mA (12 W) LED

- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 25°, 6x25°
- Diffuser** : Clear Glass 12 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

		Total Lighting Output	Code No
☀ Warm White	3000 K	1020 lm	430371
☁ Natural White	4500 K	1020 lm	430372
☀ Cool White	6000 K	1224 lm	430373
🟦 Blue			430374
🟥 Red			430375
🟡 Amber			430376
🟢 Green			430377



Stainless Steel Recessing Box

- Voltage** : 240V A.C with remote driver
- Lens** : 25°, 6x25°
- Diffuser** : Clear Glass 12 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F

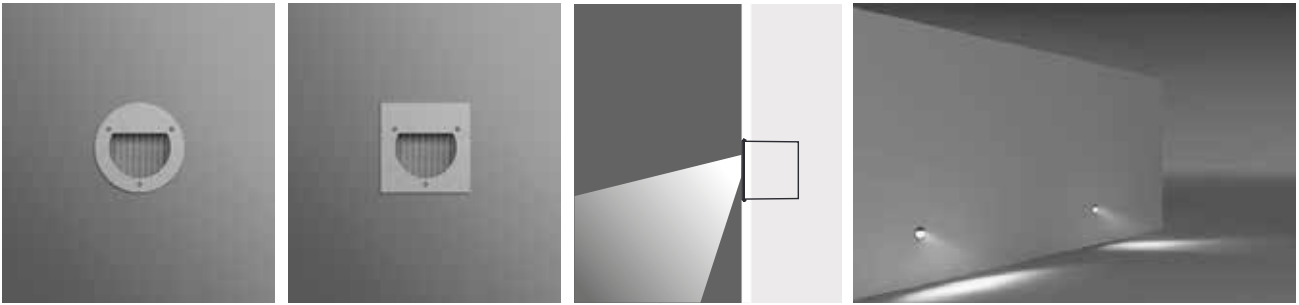
27 x 350 mA (27 W) RGB LED	Code No
🟠 🟢 🟡 RGB	430381



BELKIS 3 WALL RECESSED LED FIXTURES

Class II IP67 IK10

Fix to Recessing Tube with Silicone

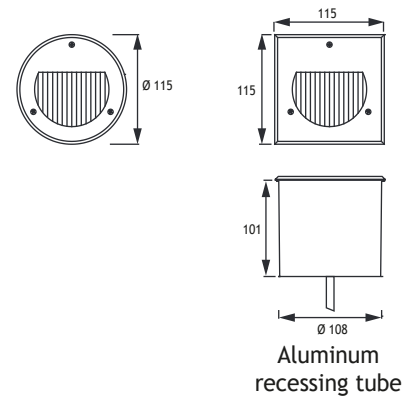


250 mA (7 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

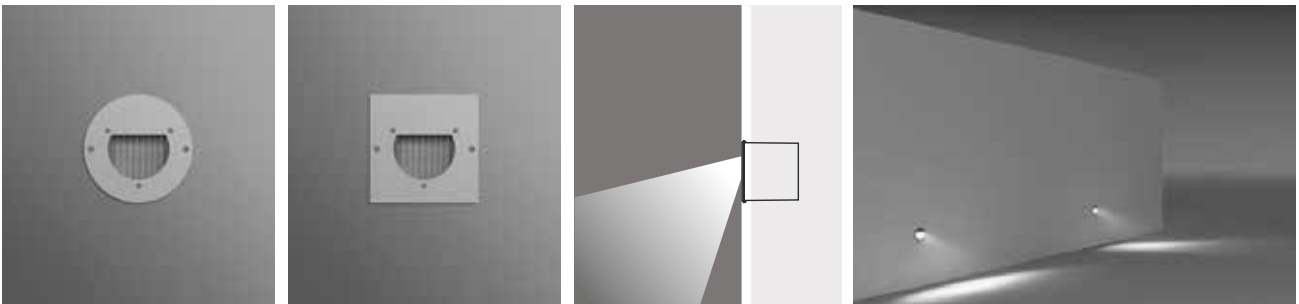
Diffuser : Rillen Glass

Cable : Potted 5 m 3x0,75 H03 VV-F



		Code No	
		Round	Square
☀	Warm White 3000 K	423261	423281
☾	Natural White 4000 K	423262	423282

Fix to Recessing Tube with Screws

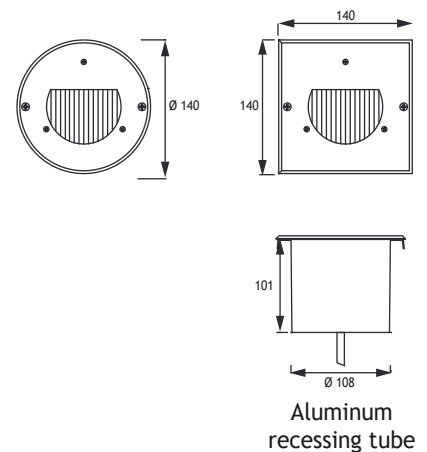


250 mA (7 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Diffuser : Rillen Glass

Cable : Potted 5 m 3x0,75 H03 VV-F

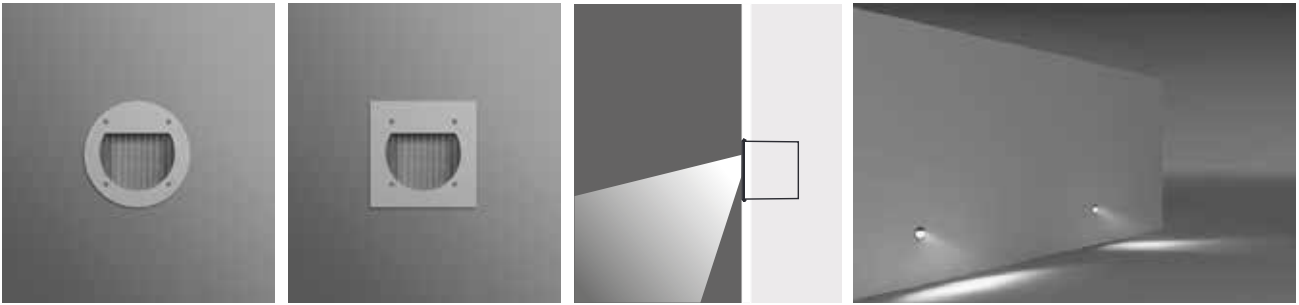


		Code No	
		Round	Square
☀	Warm White 3000 K	423271	423291
☾	Natural White 4000 K	423272	423292

BELKIS 4 WALL RECESSED LED FIXTURES

Class II IP67 IK10

Fix to Recessing Tube with Silicone

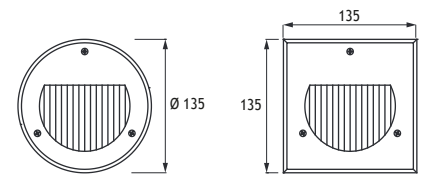


320 mA (11 W) LED

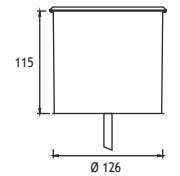
Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Diffuser : Rillen Glass

Cable : Potted 5 m 3x0,75 H03 VV-F

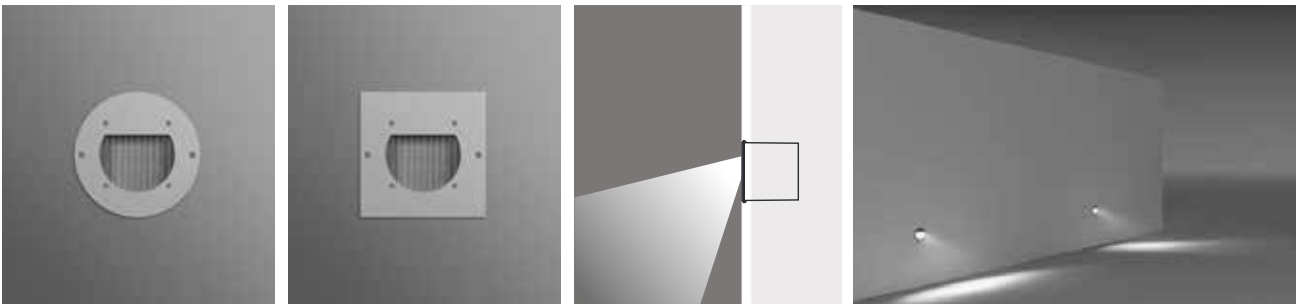


		Code No	
		Round	Square
☀	Warm White 3000 K	423901	423921
☾	Natural White 4000 K	423902	423922



Aluminum recessing tube

Fix to Recessing Tube with Screws

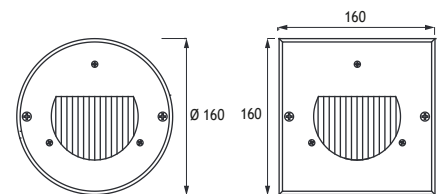


320 mA (11 W) LED

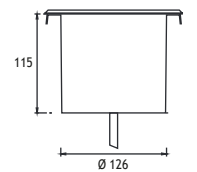
Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Diffuser : Rillen Glass

Cable : Potted 5 m 3x0,75 H03 VV-F



		Code No	
		Round	Square
☀	Warm White 3000 K	423911	423931
☾	Natural White 4000 K	423912	423932



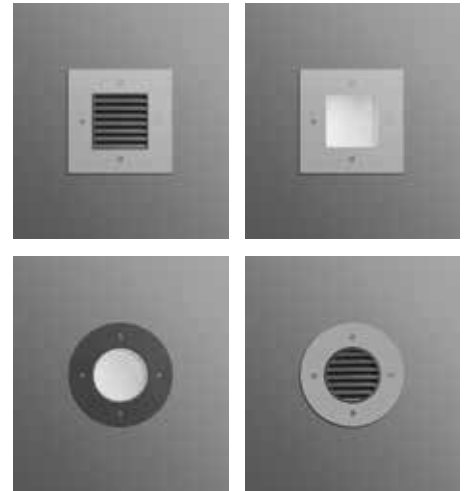
Aluminum recessing tube

MILET WALL RECESSED FIXTURES IP55 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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The Milet Recessed Wall Series is specially designed to deliver low glare halogen lighting to steps, open areas, corridors and pathways. The fixture has a die cast aluminium body painted with electrostatic powder paint. The slated or open covers come in an aluminium or aluminium / stainless steel finish. A polycarbonate recessing box is included for installation into concrete. The cable on site can be securely connected to the fixture via a PG9 cable gland.



Cover

Die cast aluminium / Inox (Stainless steel)

Paint

Black or grey electrostatic powder

Body

Die cast aluminium

Recessing Box

Polycarbonate

Glands

1 X PG 9

Gaskets

Silicone

Diffusers

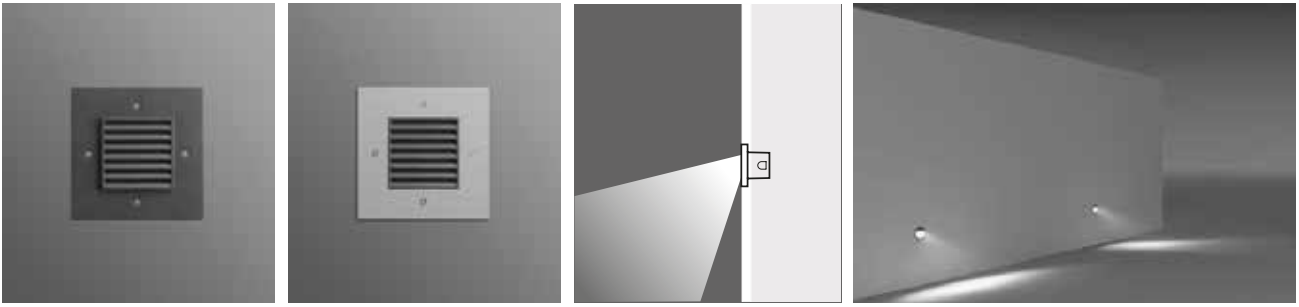
4 mm Tempered Glass



MILET 1 WALL RECESSED FIXTURES IP55 IK10

Available in any of these RAL colors

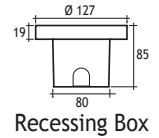
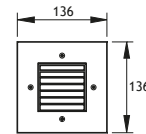
7004	7016	9005	9016	6002	1015
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Lampholder : G4
 Reflector : -
 Diffuser : Clear Glass
 CLASS III

HALOGEN 12V 10-20W

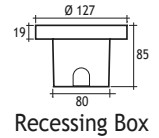
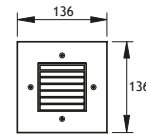
	Code No
Alum	301101
Stainless Steel	305101



Lampholder : Gu 5.3
 Reflector : -
 Diffuser : Clear Glass
 CLASS III

HALOGEN 12V 35W

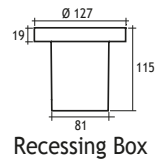
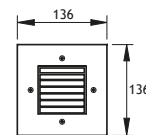
	Code No
Alum	301111
Stainless Steel	305111



Lampholder : G9
 Reflector : 40°
 Diffuser : Clear Glass
 CLASS I

HALOGEN 240V 40W

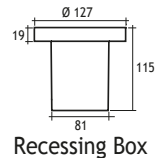
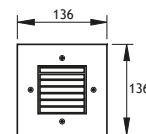
	Code No
Alum	301121
Stainless Steel	305121



Lampholder : Gu 10
 Reflector : -
 Diffuser : Clear Glass
 CLASS I

HALOGEN 240V 50W

	Code No
Alum	301131
Stainless Steel	305131

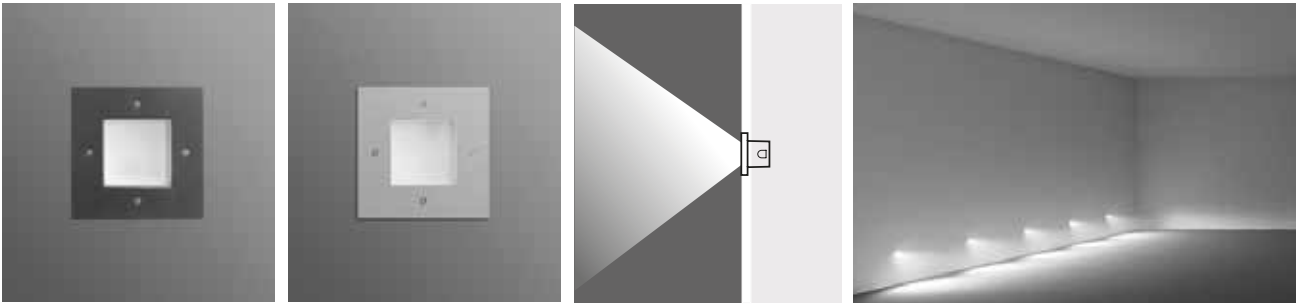


MILET 2 WALL RECESSED FIXTURES

IP55 IK10

Available in any of these RAL colors

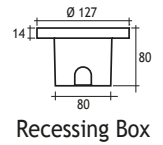
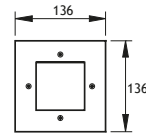
7004	7016	9005	9016	6002	1015
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Lampholder : G4
 Reflector : -
 Diffuser : Clear Glass
 CLASS III

HALOGEN 12V 10-20W

Alum	Code No
	302101
Stainless Steel	306101

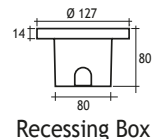
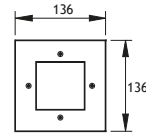


Recessing Box

Lampholder : Gu 5.3
 Reflector : -
 Diffuser : Clear Glass
 CLASS III

HALOGEN 12V 35W

Alum	Code No
	302111
Stainless Steel	306111

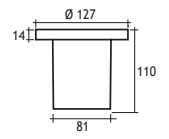
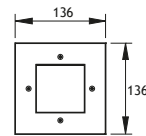


Recessing Box

Lampholder : G9
 Reflector : 40°
 Diffuser : Clear Glass
 CLASS I

HALOGEN 240V 40W

Alum	Code No
	302121
Stainless Steel	306121

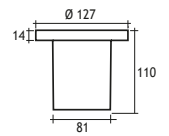
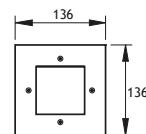


Recessing Box

Lampholder : Gu 10
 Reflector : -
 Diffuser : Clear Glass
 CLASS I

HALOGEN 240V 50W

Alum	Code No
	302131
Stainless Steel	306131

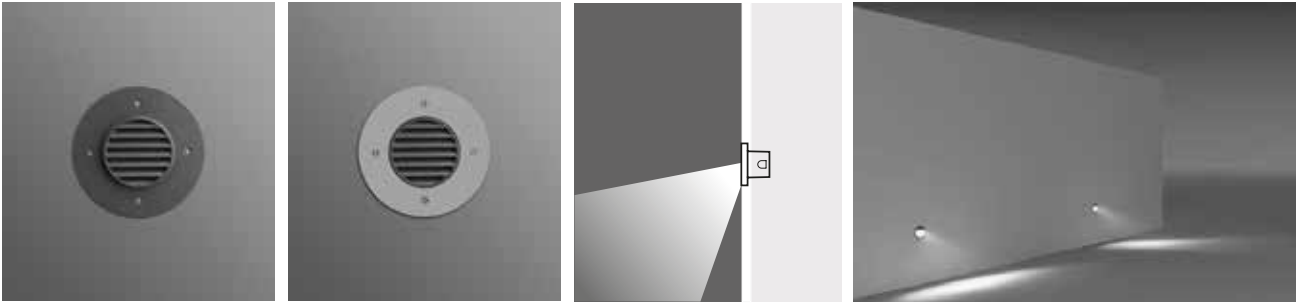


Recessing Box

MILET 3 WALL RECESSED FIXTURES IP55 IK10

Available in any of these RAL colors

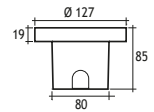
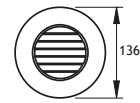
7004	7016	9005	9016	6002	1015
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Lampholder : G4
Reflector : -
Diffuser : Clear Glass
CLASS III

HALOGEN 12V 10-20W

	Code No
Alum	303101
Stainless Steel	307101

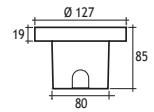
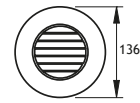


Recessing Box

Lampholder : Gu 5.3
Reflector : -
Diffuser : Clear Glass
CLASS III

HALOGEN 12V 35W

	Code No
Alum	303111
Stainless Steel	307111

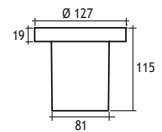
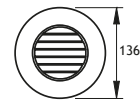


Recessing Box

Lampholder : G9
Reflector : 40°
Diffuser : Clear Glass
CLASS I

HALOGEN 240V 40W

	Code No
Alum	303121
Stainless Steel	307121

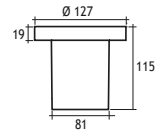
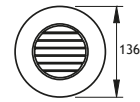


Recessing Box

Lampholder : Gu 10
Reflector : -
Diffuser : Clear Glass
CLASS I

HALOGEN 240V 50W

	Code No
Alum	303131
Stainless Steel	307131

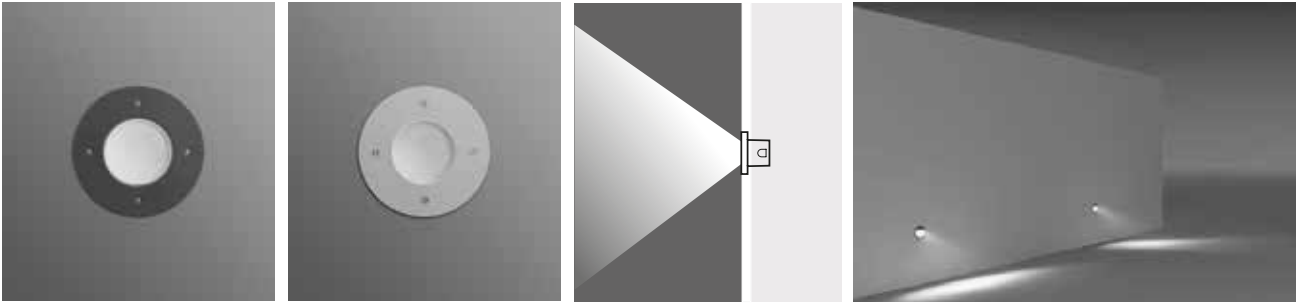


Recessing Box

MILET 4 WALL RECESSED FIXTURES IP55 IK08

Available in any of these RAL colors

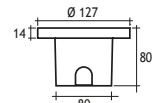
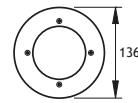
7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



Lampholder : G4
Reflector : -
Diffuser : Clear Glass
CLASS III

HALOGEN 12V 10-20W

	Code No
Alum	304101
Stainless Steel	308101

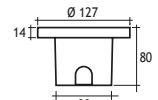
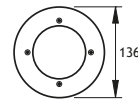


Recessing Box

Lampholder : Gu 5.3
Reflector : -
Diffuser : Clear Glass
CLASS III

HALOGEN 12V 35W

	Code No
Alum	304111
Stainless Steel	308111

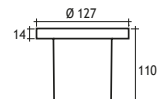
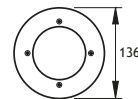


Recessing Box

Lampholder : G9
Reflector : 40°
Diffuser : Clear Glass
CLASS I

HALOGEN 240V 40W

	Code No
Alum	304121
Stainless Steel	308121

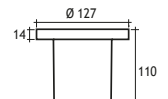
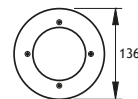


Recessing Box

Lampholder : Gu 10
Reflector : -
Diffuser : Clear Glass
CLASS I

HALOGEN 240V 50W

	Code No
Alum	304131
Stainless Steel	308131



Recessing Box

BELKIS 1 LLA RECESSED LED FIXTURES

Class I IP65 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

The Belkis 1 LLA is specially designed to deliver low glare LED lighting to steps, open areas, corridors and pathways. The fixture has a die cast aluminium body painted with electrostatic powder paint. The narrow depth of 39mm, which also includes the LED driver, allows the fixture to be installed in any wall. A plastic recessing box is included for installation into concrete. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The linear LED used comes in 2 different tones of white, 3000K and 4000K.



Body

Die cast aluminium

Paint

Electrostatic powder

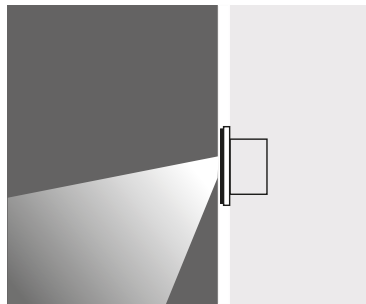
Diffusers

Tempered Glass

Gaskets

Silicone

Asymmetrical



Voltage : 240V AC with integrated driver
(12V DC or 24V DC on request)

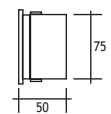
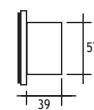
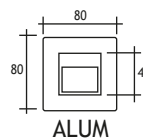
Diffuser : Clear Glass 4 mm

Cable : Potted 5 m 3x0,75 H03 VV-F

1 x 350 mA (4 W) LED

☀ Warm White	3000 K
☀ Natural White	4000 K

Total Lighting Output	Code No
92 lm	424101
107 lm	424102



Plastic Recessing Box for Concrete

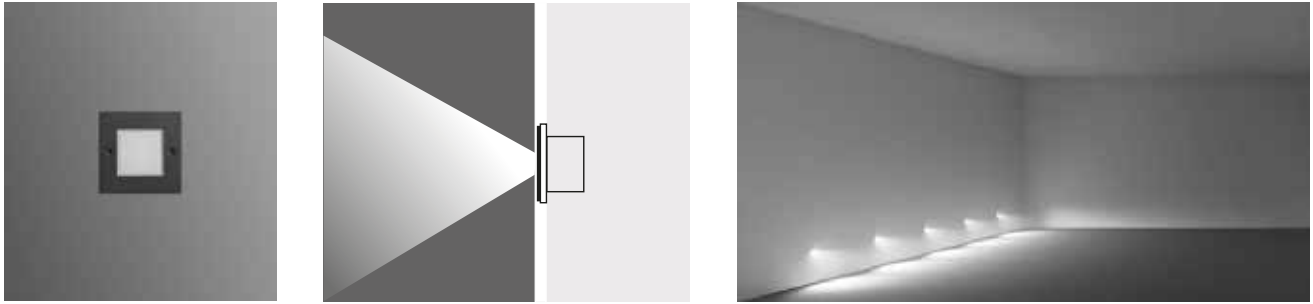
BELKIS 1 LLS RECESSED LED FIXTURES

Class I IP65 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015

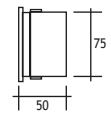
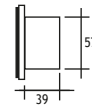
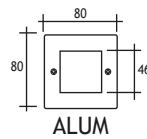
Symmetrical With Milky Glass



Voltage : 240V AC with integrated driver
(12V DC or 24V DC on request)

Diffuser : Clear Glass 4 mm

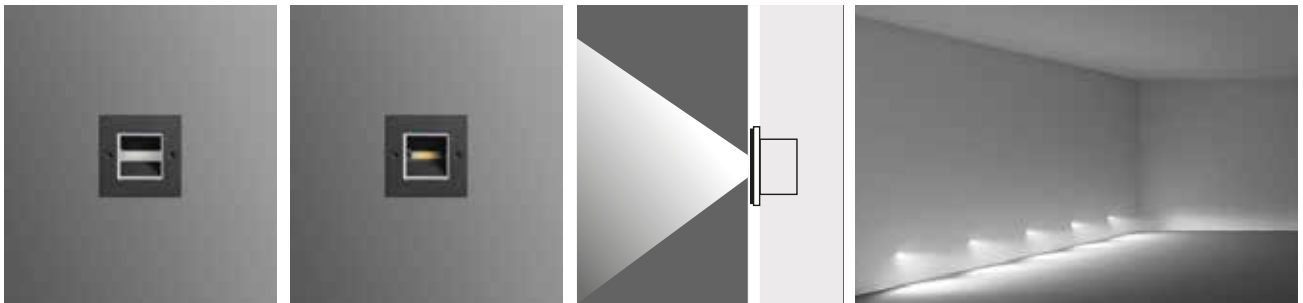
Cable : Potted 5 m 3x0,75 H03 VV-F



Plastic Recessing Box for Concrete

1 x 350 mA (4 W) LED		Total Lighting Output	Code No
	Warm White 3000 K	128 lm	424111
	Natural White 4000 K	148 lm	424112

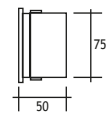
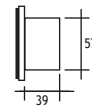
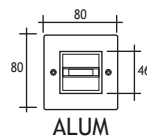
Symmetrical With Anti-Glare Glass or Clear Glass



Voltage : 240V AC with integrated driver
(12V DC or 24V DC on request)

Diffuser : Clear Glass 4 mm

Cable : Potted 5 m 3x0,75 H03 VV-F



Plastic Recessing Box for Concrete

Symmetrical With Anti-Glare Glass

1 x 350 mA (4 W) LED		Total Lighting Output	Code No
	Warm White 3000 K	255 lm	424121
	Natural White 4000 K	295 lm	424122

Symmetrical With Clear Glass

1 x 350 mA (4 W) LED		Total Lighting Output	Code No
	Warm White 3000 K	255 lm	424131
	Natural White 4000 K	295 lm	424132

SATURN WALL RECESSED LED FIXTURES

Class I IP44 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

The Saturn is specially designed to deliver low glare LED lighting to steps, open areas, corridors and pathways. The fixture has a die cast aluminium body painted with electrostatic powder paint. The narrow depth of 25mm, which also includes the LED driver, allows the fixture to be installed in any wall. A plastic recessing box is included for installation into concrete. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The COB LED used comes in 2 different tones of white, 3000K and 4000K.

Body

Die cast aluminium

Paint

Electrostatic powder

Diffusers

Tempered Glass

Gaskets

Silicone

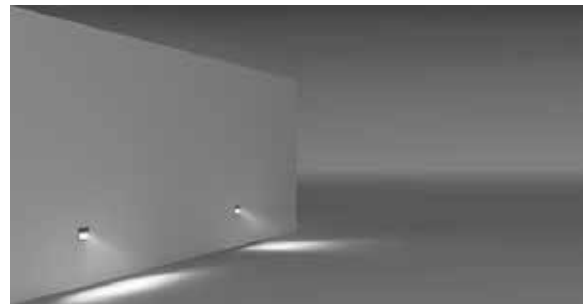
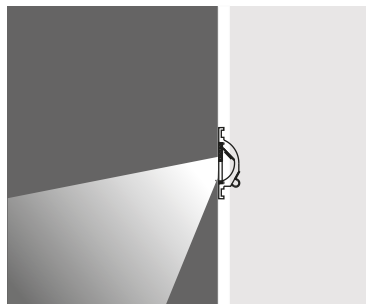
Voltage : 240V

Diffuser : Clear, Frosted And Milky Glass 4 mm

Cable : Potted 5 m 3x0,75 H03 VV-F



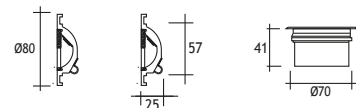
Asymmetrical



3W COB LED

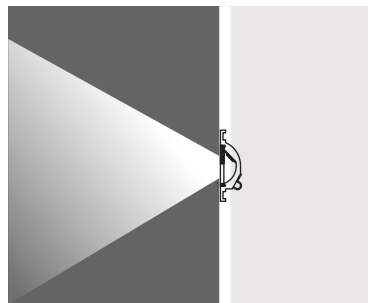
☀ Warm White 3000 K
☾ Natural White 4000 K

Total Lighting Output	Code No
285 lm	527001
313 lm	527002



Plastic Recessing Box for Concrete

Symmetrical With Frosted Glass or Milky Glass



Symmetrical With Frosted Glass

3W COB LED

☀ Warm White 3000 K
☾ Natural White 4000 K

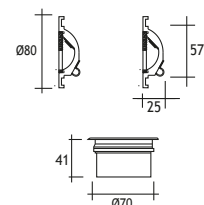
Total Lighting Output	Code No
245 lm	527101
295 lm	527102

Symmetrical With Milky Glass

3W COB LED

☀ Warm White 3000 K
☾ Natural White 4000 K

Total Lighting Output	Code No
195 lm	527201
210 lm	527202



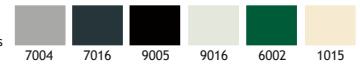
Plastic Recessing Box for Concrete

EMFA

BERGAMA

RECESSED INDOOR FIXTURES IP20 IK06

Available in any
of these RAL colors



Body

Steel or Inox (Stainless Steel)

Paint

Electrostatic powder

Reflector

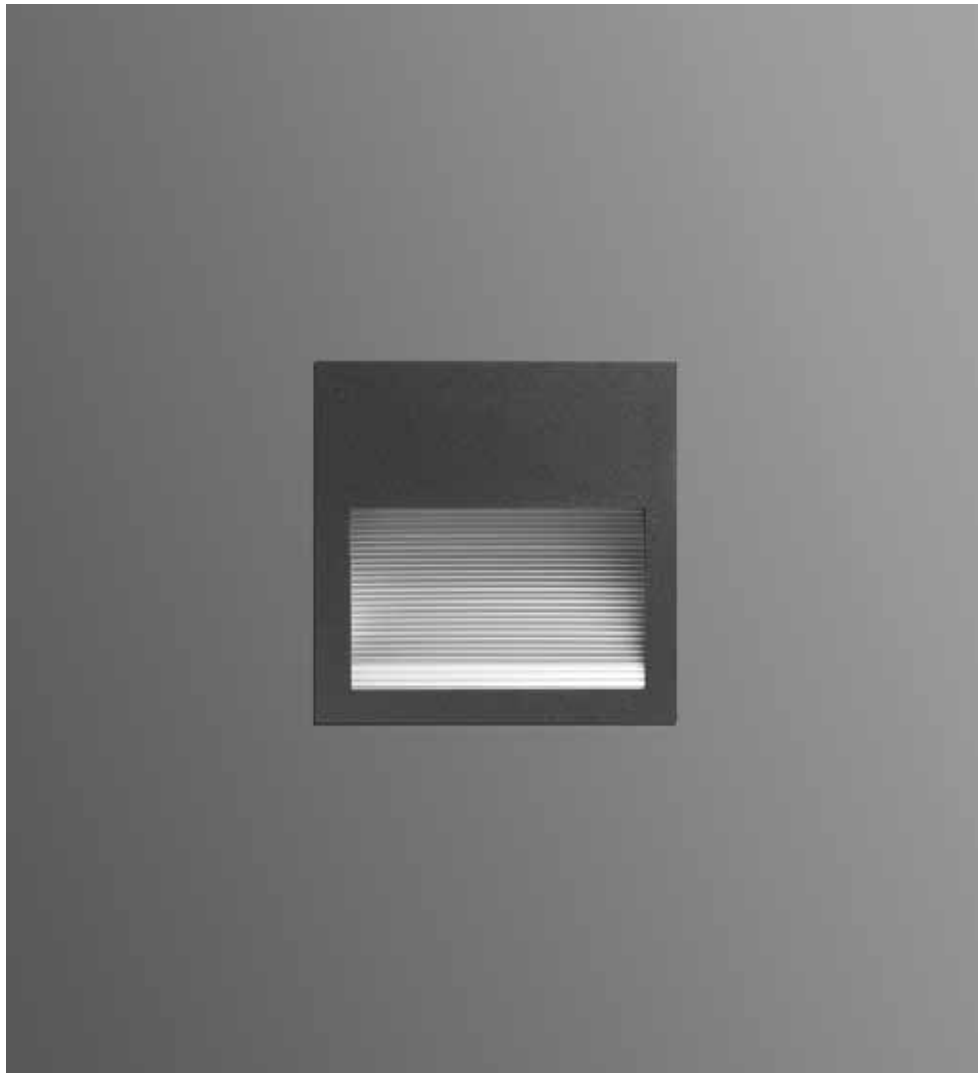
Anodized aluminium

Recessing Box

Galvanized steel
(only for in wall series)

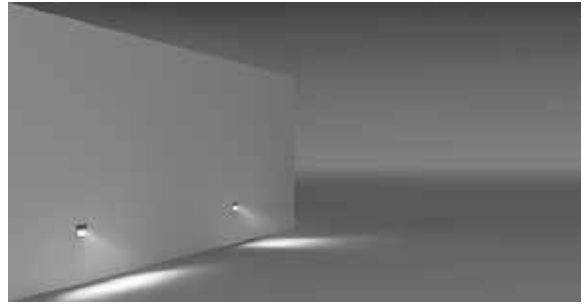
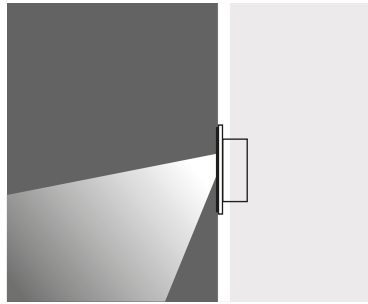
Diffuser

4 mm Clear Glass



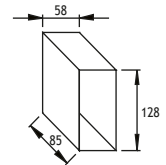
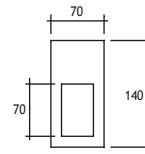


BERGAMA LED 140 X 70



Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

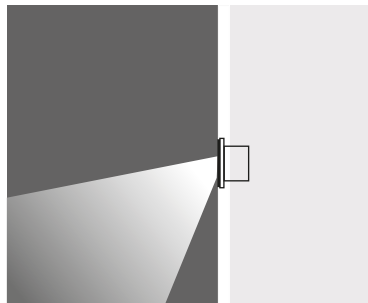


Plastic Recessing Box for Concrete

Steel		Total Lighting Output	Code No
1 x 350 mA (1x1 W) LINEAR LED		350 lm	349001
☀ Warm White	3000 K		

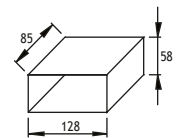
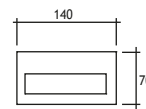
Inox		Total Lighting Output	Code No
1 x 350 mA (1x1 W) LINEAR LED		700 lm	349011
☀ Warm White	3000 K		

BERGAMA LED 70 X 140



Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

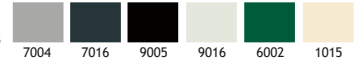


Plastic Recessing Box for Concrete

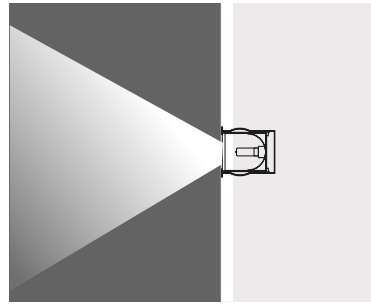
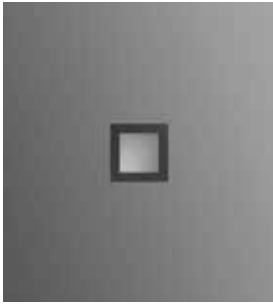
Steel		Total Lighting Output	Code No
2 x 350 mA (2x1 W) LINEAR LED		700 lm	349021
☀ Warm White	3000 K		

Inox		Total Lighting Output	Code No
2 x 350 mA (2x1 W) LINEAR LED		700 lm	349031
☀ Warm White	3000 K		

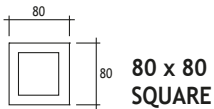
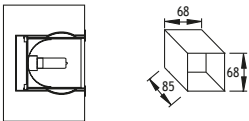
Available in any
of these RAL colors



BERGAMA LED 80 X 80



SERIES 101 : IN WALL



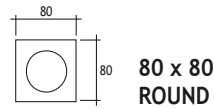
**80 x 80
SQUARE**

Lampholder : Gu 5.3
Reflector : Symmetrical
Diffuser : Clear Glass
Transformer is not included.
Remote transformer should be used.
Class III

HALOGEN 12V 50W

	Code No
Serie 101	350101
Serie 201	370101

SERIES 201 : IN FALSE CEILING

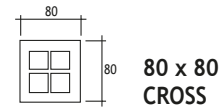


**80 x 80
ROUND**

Lampholder : Gu 5.3
Reflector : Symmetrical
Diffuser : Clear Glass
Transformer is not included.
Remote transformer should be used.
Class III

HALOGEN 12V 50W

	Code No
Serie 101	350201
Serie 201	370201



**80 x 80
CROSS**

Lampholder : Gu 5.3
Reflector : Symmetrical
Diffuser : Clear Glass
Transformer is not included.
Remote transformer should be used.
Class III

HALOGEN 12V 50W

	Code No
Serie 101	350301
Serie 201	370301

Lampholder : G9
Reflector : Symmetrical
Diffuser : Clear Glass
Class I

HALOGEN 240V 25W

	Code No
Serie 101	350111
Serie 201	370111

Lampholder : G9
Reflector : Symmetrical
Diffuser : Clear Glass
Class I

HALOGEN 240V 25W

	Code No
Serie 101	350211
Serie 201	370211

Lampholder : G9
Reflector : Symmetrical
Diffuser : Clear Glass
Class I

HALOGEN 240V 25W

	Code No
Serie 101	350311
Serie 201	370311

Lampholder : Gu10
Reflector : Symmetrical
Diffuser : Clear Glass
Class I

HALOGEN 240V 50W

	Code No
Serie 101	350121
Serie 201	370121

Lampholder : Gu10
Reflector : Symmetrical
Diffuser : Clear Glass
Class I

HALOGEN 240V 50W

	Code No
Serie 101	350221
Serie 201	370221

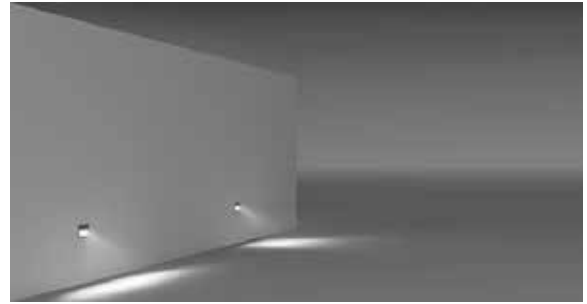
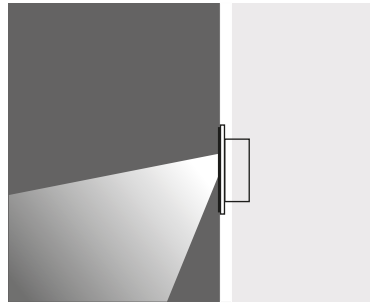
Lampholder : Gu10
Reflector : Symmetrical
Diffuser : Clear Glass
Class I

HALOGEN 240V 50W

	Code No
Serie 101	350321
Serie 201	370321



BERGAMA LED 140 X 70

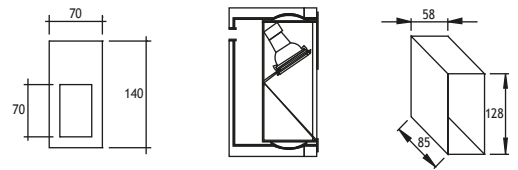


Lampholder : Gu4
 Reflector : Asymmetrical
 Diffuser : Clear Glass
 Transformer is not included.
 Remote transformer should be used.
 Class III

Lampholder : G9
 Reflector : Asymmetrical
 Diffuser : Clear Glass
 Class I

BERGAMA 140x70

SERIES 102 : IN WALL



HALOGEN 12V 20W

Serie 102
 Serie 202

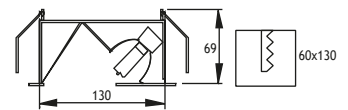
Code No
 355111
 375111

HALOGEN 240V 25W

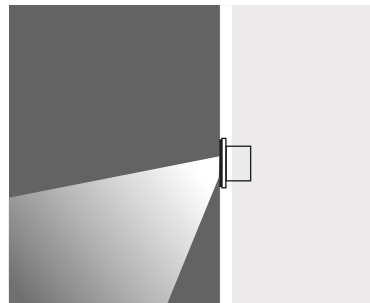
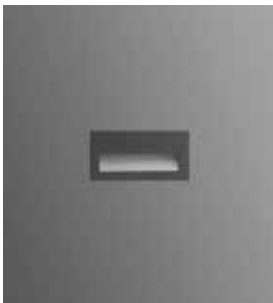
Serie 102
 Serie 202

Code No
 355101
 375101

SERIES 202 : IN FALSE CEILING



BERGAMA LED 70 X 140



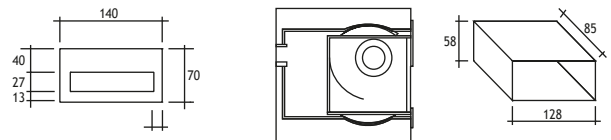
Lampholder : G9
 Reflector : Asymmetrical
 Diffuser : Clear Glass
 Class I

HALOGEN 240V 25W

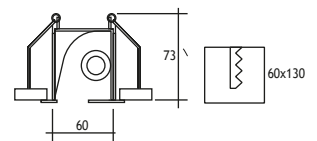
Serie 102
 Serie 202

Code No
 355201
 375201

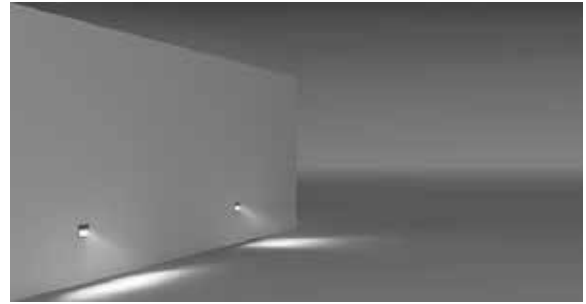
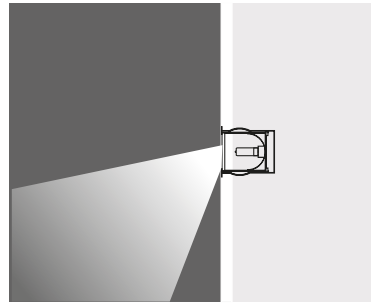
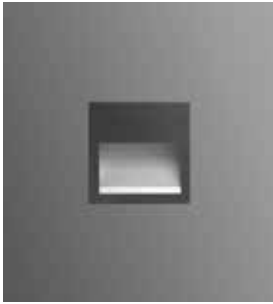
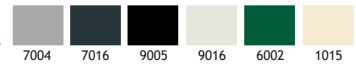
SERIES 102 : IN WALL



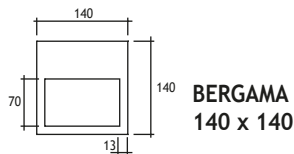
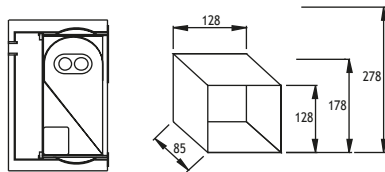
SERIES 202 : IN FALSE CEILING



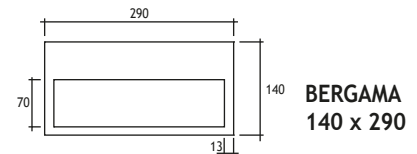
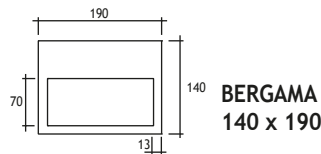
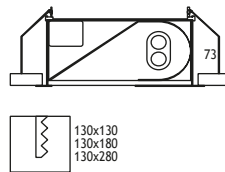
Available in any of these RAL colors



SERIES 103 : IN WALL



SERIES 203 : IN FALSE CEILING



Lampholder : R7 s
Reflector : Asymmetrical
Diffuser : Clear Glass

HALOGEN LINEAR 60W

	Code No
Serie 103	352101
Serie 203	372101

Lampholder : R7 s
Reflector : Asymmetrical
Diffuser : Clear Glass

HALOGEN LINEAR 150W

	Code No
Serie 103	352201
Serie 203	372201

Lampholder : R7 s
Reflector : Asymmetrical
Diffuser : Clear Glass

HALOGEN LINEAR 150W

	Code No
Serie 103	352301
Serie 203	372301

Lampholder : G9
Reflector : Asymmetrical
Diffuser : Clear Glass

HALOGEN 40W

	Code No
Serie 103	352111
Serie 203	372111

Lampholder : G23
Reflector : Asymmetrical
Diffuser : Clear Glass

HALOGEN 7W

	Code No
Serie 103	352211
Serie 203	372211

Lampholder : G23
Reflector : Asymmetrical
Diffuser : Clear Glass

HALOGEN 11W

	Code No
Serie 103	352311
Serie 203	372311

Lampholder : G24 d-1
Reflector : Asymmetrical
Diffuser : Clear Glass
Transformer : Included

COMPACT FLUO. 10W

	Code No
Serie 103	352121
Serie 203	372121

Lampholder : G24 d-2
Reflector : Asymmetrical
Diffuser : Clear Glass
Transformer : Included

COMPACT FLUO. 18W

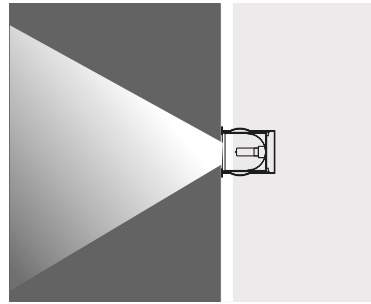
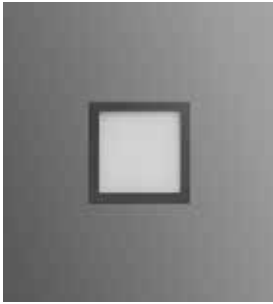
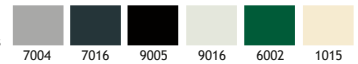
	Code No
Serie 103	352221
Serie 203	372221

Lampholder : G24 d-3
Reflector : Asymmetrical
Diffuser : Clear Glass
Transformer : Included

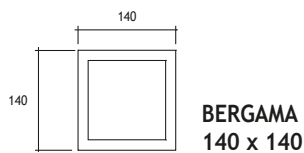
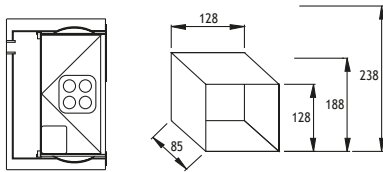
COMPACT FLUO. 26W

	Code No
Serie 103	352321
Serie 203	372321

Available in any
of these RAL colors



SERIES 104 : IN WALL

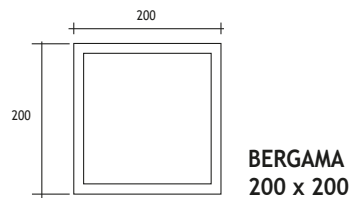
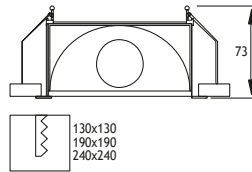


Lampholder : R7 s
Reflector : Symmetrical
Diffuser : Frosted Glass

HALOGEN LINEAR 60W

	Code No
Serie 104	353101
Serie 204	373101

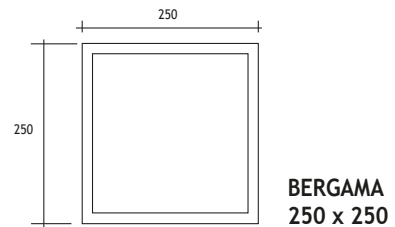
SERIES 204 : IN FALSE CEILING



Lampholder : R7 s
Reflector : Symmetrical
Diffuser : Frosted Glass

HALOGEN LINEAR 150W

	Code No
Serie 104	353201
Serie 204	373201



Lampholder : R7 s
Reflector : Symmetrical
Diffuser : Frosted Glass

HALOGEN LINEAR 150W

	Code No
Serie 104	353301
Serie 204	373301

Lampholder : G9
Reflector : Symmetrical
Diffuser : Frosted Glass

HALOGEN 40W

	Code No
Serie 104	353111
Serie 204	373111

Lampholder : G23
Reflector : Symmetrical
Diffuser : Frosted Glass
Transformer : Included

COMPACT FLUO. 7W

	Code No
Serie 104	353211
Serie 204	373211

Lampholder : G23
Reflector : Symmetrical
Diffuser : Frosted Glass
Transformer : Included

COMPACT FLUO. 11W

	Code No
Serie 104	353311
Serie 204	373311

Lampholder : G24 d-1
Reflector : Asymmetrical
Diffuser : Clear Glass
Transformer : Included

COMPACT FLUO. 10W

	Code No
Serie 104	353121
Serie 204	373121

Lampholder : G24 d-2
Reflector : Asymmetrical
Diffuser : Clear Glass
Transformer : Included

COMPACT FLUO. 18W

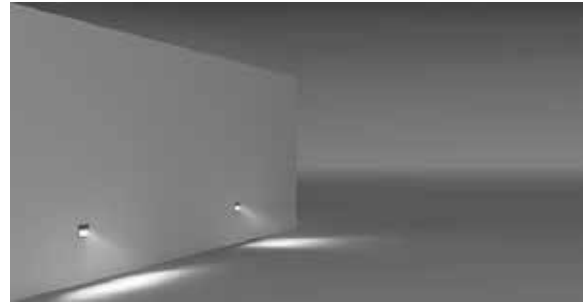
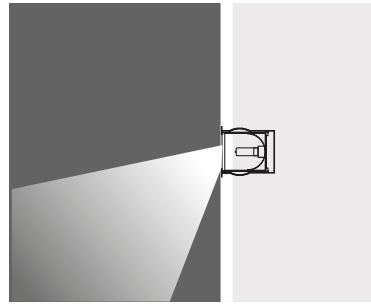
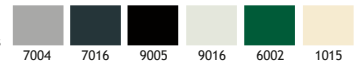
	Code No
Serie 104	353221
Serie 204	373221

Lampholder : G24 d-3
Reflector : Asymmetrical
Diffuser : Clear Glass
Transformer : Included

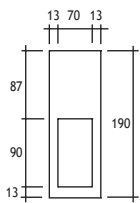
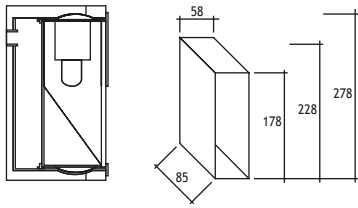
COMPACT FLUO. 26W

	Code No
Serie 104	353321
Serie 204	373321

Available in any
of these RAL colors

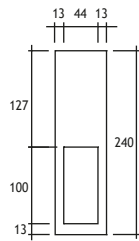
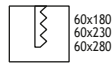


SERIES 105 : IN WALL

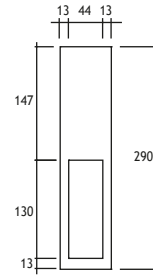


**BERGAMA
190 x 70**

SERIES 205 : IN FALSE CEILING



**BERGAMA
240 x 70**



**BERGAMA
290 x 70**

Lampholder : G9
Reflector : Asymmetrical
Diffuser : Clear Glass

HALOGEN 240V 25W

	Code No
Serie 105	356101
Serie 205	376101

Lampholder : G9
Reflector : Asymmetrical
Diffuser : Clear Glass

HALOGEN 240V 25W

	Code No
Serie 105	356201
Serie 205	376201

Lampholder : G9
Reflector : Asymmetrical
Diffuser : Clear Glass

HALOGEN 240V 25W

	Code No
Serie 105	356301
Serie 205	376301

Lampholder : E14
Reflector : Asymmetrical
Diffuser : Clear Glass

INCANDESCENT 15W

	Code No
Serie 105	356111
Serie 205	376111

Lampholder : E14
Reflector : Asymmetrical
Diffuser : Clear Glass

INCANDESCENT 25W

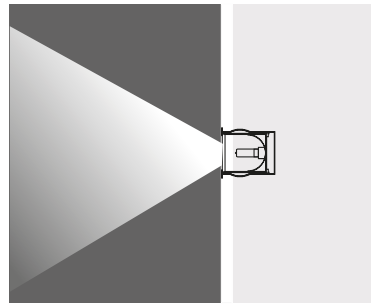
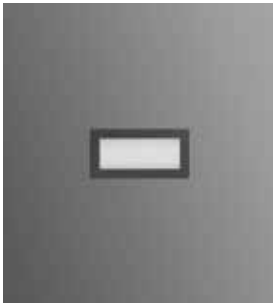
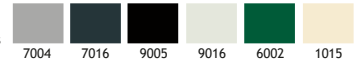
	Code No
Serie 105	356211
Serie 205	376211

Lampholder : E14
Reflector : Asymmetrical
Diffuser : Clear Glass

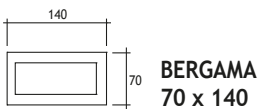
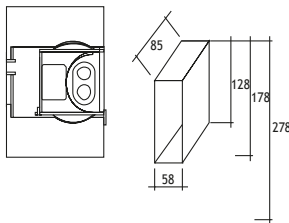
INCANDESCENT 40W

	Code No
Serie 105	356311
Serie 205	376311

Available in any
of these RAL colors

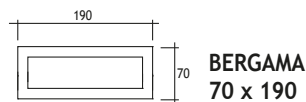
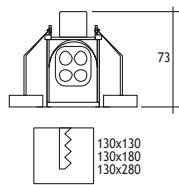


SERIES 106 : IN WALL

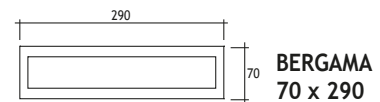


**BERGAMA
70 x 140**

SERIES 206 : IN FALSE CEILING



**BERGAMA
70 x 190**



**BERGAMA
70 x 290**

Lampholder : G9
Reflector : Symmetrical
Diffuser : Frosted Glass

HALOGEN 240V 25W

	Code No
Serie 106	357101
Serie 206	377101

Lampholder : R7 s
Reflector : Symmetrical
Diffuser : Frosted Glass

HALOGEN LINEAR 60W

	Code No
Serie 106	357201
Serie 206	377201

Lampholder : R7 s
Reflector : Symmetrical
Diffuser : Frosted Glass

HALOGEN LINEAR 150W

	Code No
Serie 106	357301
Serie 206	377301

Lampholder : G24 d-1
Reflector : Symmetrical
Diffuser : Frosted Glass
Transformer : Included

COMPACT FLUO. 10W

	Code No
Serie 106	357121
Serie 206	377121

Lampholder : G23
Reflector : Symmetrical
Diffuser : Frosted Glass
Transformer : Included

COMPACT FLUO. 7W

	Code No
Serie 106	357221
Serie 206	377221

Lampholder : G23
Reflector : Symmetrical
Diffuser : Frosted Glass
Transformer : Included

COMPACT FLUO. 11W

	Code No
Serie 106	357321
Serie 206	377321

Lampholder : G24 d-2
Reflector : Symmetrical
Diffuser : Frosted Glass
Transformer : Included

COMPACT FLUO. 18W

	Code No
Serie 106	357231
Serie 206	377231

Lampholder : G24 d-3
Reflector : Symmetrical
Diffuser : Frosted Glass
Transformer : Included

COMPACT FLUO. 26W

	Code No
Serie 106	357331
Serie 206	377331

DYO WALL RECESSED INDOOR FIXTURES

Class III IP20 IK06

Outer Frame & Body

Anodized aluminium

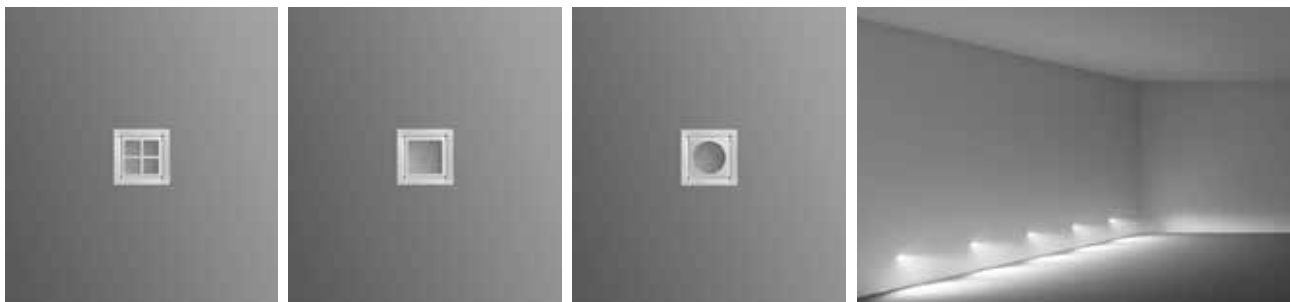
Recessing Box

Galvanized steel

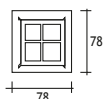
Diffuser

Glass

Symmetrical



HALOGEN 12V 20W



DYO 69 14 K

Lampholder : G4

Reflector : -

Diffuser : Frosted Glass

Code No
132101



DYO 69 14 A

Lampholder : G4

Reflector : -

Diffuser : Frosted Glass

Code No
132201



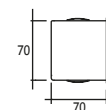
DYO 69 14 R

Lampholder : G4

Reflector : -

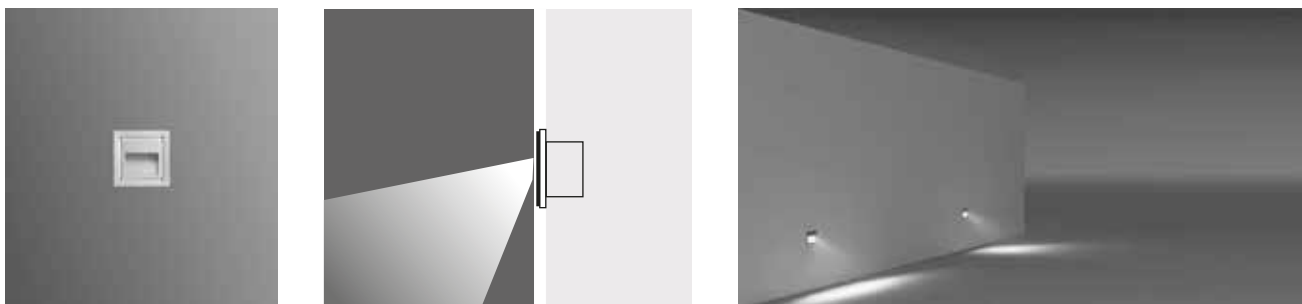
Diffuser : Frosted Glass

Code No
132301

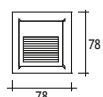


Recessing Box

Asymmetrical



HALOGEN 12V 20W



DYO 69 14 S

Lampholder : G4

Reflector : Asymmetrical

Diffuser : Clear Glass

Code No
132401

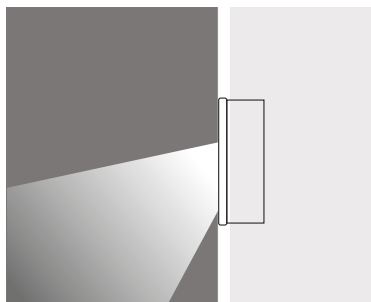
PYRAMID

RECESSED FIXTURES Class II IP55 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

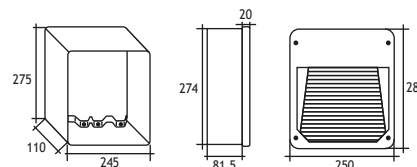
Cover & Body
Glass reinforced polyester
Screws
Inox
Gasket
Silicone
Glass
Tempered
Recessing Box
Galvanized steel



Voltage : 240V A.C with integrated driver

(24V AC or DC on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



Recessing Box

2 x 350 mA (2x3 W) LINEAR LED	Total Lighting Output	Code No
☀ Warm White	3000 K 700 lm	501201

Lampholder: G24 d-2

1 x FLUO. 18W Code No 501101

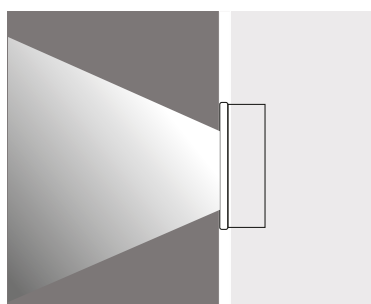
Lampholder: G24 d-3

1 x FLUO. 26W Code No 501111

Lampholder: G8.5

1 x METAL HALIDE 35W Code No 501121

PYRAGLASS

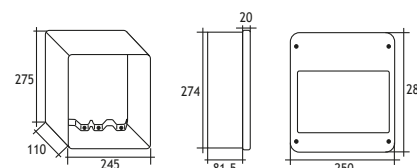


Lampholder: G24 d-1

3 x FLUO. 9W Code No 502101

Lampholder: G24 d-2

2 x FLUO. 18W Code No 502111



Recessing Box

Lampholder: G24 d-3

2 x FLUO. 26W Code No 502121

SLIM PYRAMID

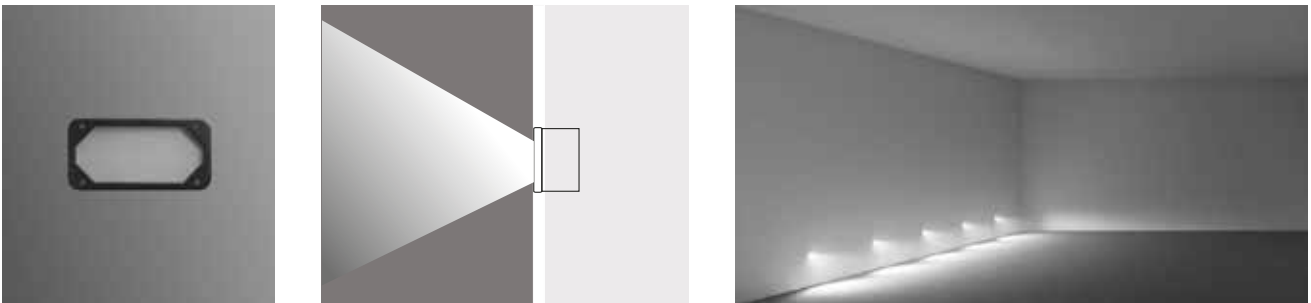
RECESSED FIXTURES Class II IP55 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

- Cover & Body**
- Glass reinforced polyester
- Screws**
- Inox
- Gasket**
- Silicone
- Glass**
- Tempered
- Recessing Box**
- Galvanized steel
- (for recessed types only)

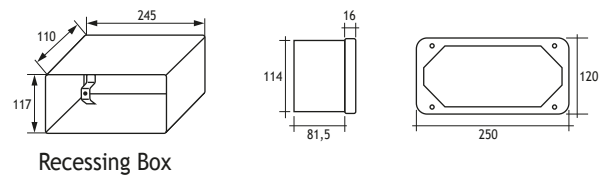
Symmetrical



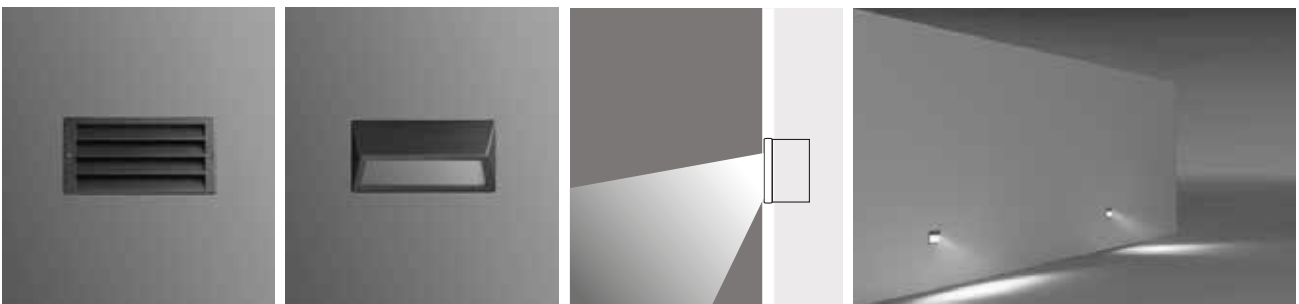
Lampholder : G24 d-3
Diffuser : Frosted Glass

Flat
1 x FLUO 26W

Code No
503101



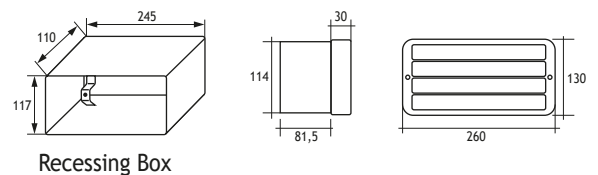
Asymmetrical



Lampholder : G24 d-3
Diffuser : Frosted Glass

Slated
1 x FLUO 26W

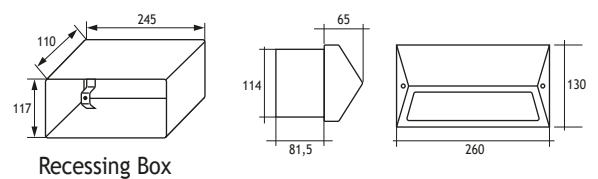
Code No
503201



Lampholder : G24 d-3
Diffuser : Frosted Glass

Asymmetrical
1 x FLUO 26W

Code No
503301



SIDE RECESSED DIE CAST ALUMINIUM BULKHEADS

Class I IP65 IK08

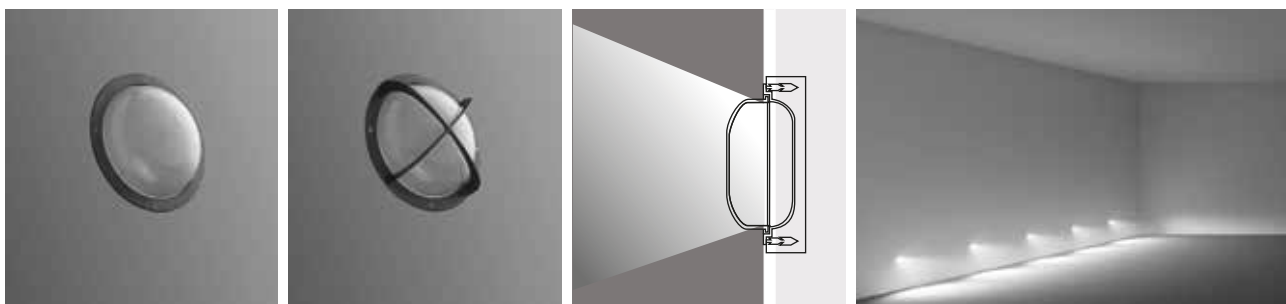
Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

Body
Die Cast Aluminium
Cover
Die Cast Aluminium
Paint
Electrostatic powder paint
Diffuser
Pressed glass or polycarbonate

SIDE 4

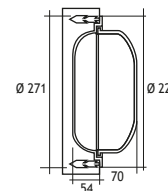
SIDE 6



SIDE 4

Lampholder: E27
INCANDESCENT 75W Code No
Glass Diffuser 510101
P.C. Diffuser 510201

Lampholder: G24 d-2
FLUO. 18W Code No
Glass Diffuser 510121
P.C. Diffuser 510221

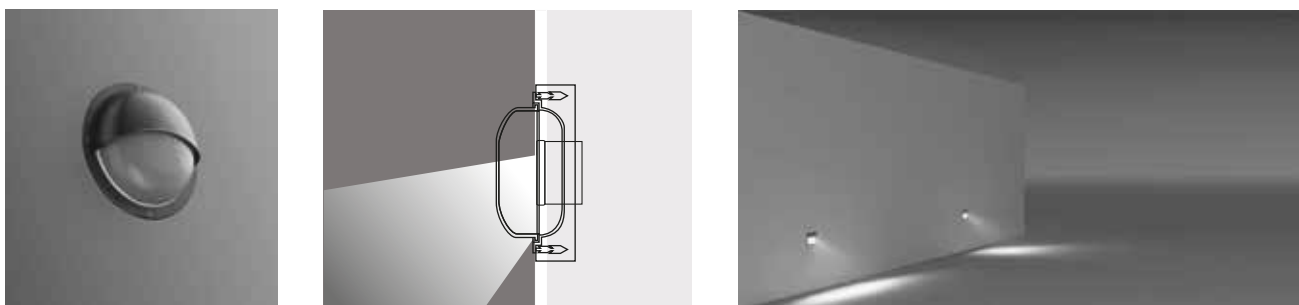


SIDE 6

Lampholder: E27
INCANDESCENT 75W Code No
Glass Diffuser 512101
P.C. Diffuser 512201

Lampholder: G24 d-2
FLUO. 18W Code No
Glass Diffuser 512121
P.C. Diffuser 512221

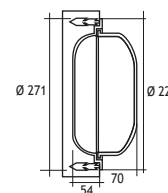
SIDE 5



SIDE 5

Lampholder: E27
INCANDESCENT 75W Code No
Glass Diffuser 511101
P.C. Diffuser 511201

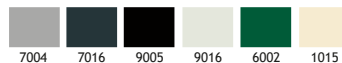
Lampholder: G24 d-2
FLUO. 18W Code No
Glass Diffuser 511121
P.C. Diffuser 511221



PERGE RECESSED DIE CAST ALUMINIUM BULKHEADS

Class I IP65 IK08

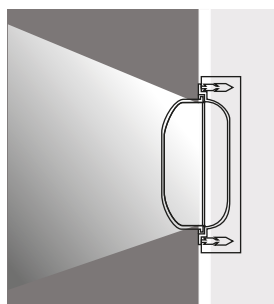
Available in any of these RAL colors



Body
Die Cast Aluminium
Cover
Die Cast Aluminium
Paint
Electrostatic powder paint
Diffuser
Pressed glass or polycarbonate

PERGE 4

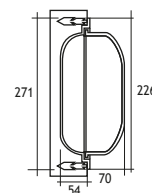
PERGE 6



PERGE 4

Lampholder: E27
INCANDESCENT 75W Code No
Glass Diffuser 520101
P.C. Diffuser 520201

Lampholder: G24 d-2
FLUO. 18W Code No
Glass Diffuser 520121
P.C. Diffuser 520221

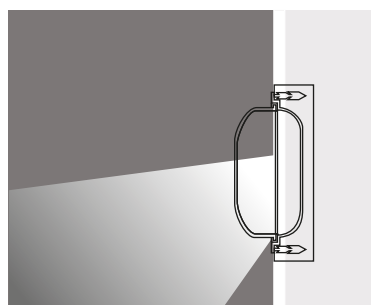


PERGE 6

Lampholder: E27
INCANDESCENT 75W Code No
Glass Diffuser 522101
P.C. Diffuser 522201

Lampholder: G24 d-2
FLUO. 18W Code No
Glass Diffuser 522121
P.C. Diffuser 522221

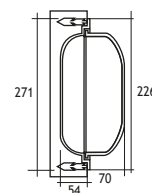
PERGE 5




PERGE 5

Lampholder: E27
INCANDESCENT 75W Code No
Glass Diffuser 521101
P.C. Diffuser 521201

Lampholder: G24 d-2
FLUO. 18W Code No
Glass Diffuser 521121
P.C. Diffuser 521221



 Surface Mounted



KNIDOS SURFACE MOUNTED FIXTURES

Class I IP67 IK10

The Knidos Surface Mounted Uplighter, completely made of 316L stainless steel is ideal for areas where corrosive agents such as salt water or fertilizers would harm aluminium fixtures. The fixture can be mounted without harm to any surface and therefore is ideal for protected and historical sites where mounting recessed fixtures is not permitted.

Cover

316L Stainless steel

Outer Body

316L Stainless steel

Inner Body

Glass reinforced polyester

Diffusers

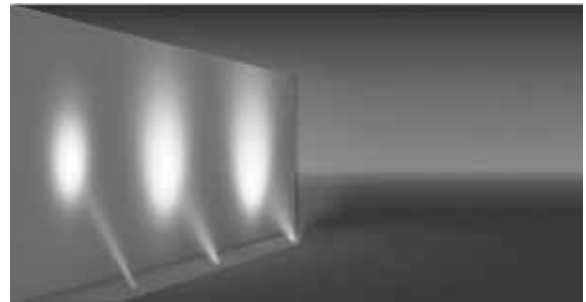
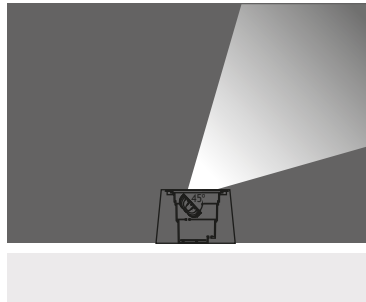
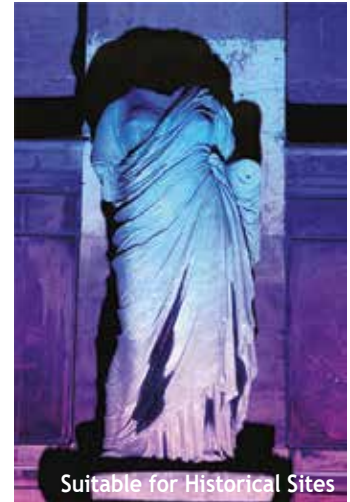
12 mm Tempered Glass

Gaskets

Silicone

Screws

316L Stainless Steel

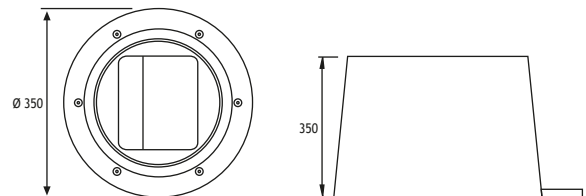


9 x 350 mA (9 W) LED

Voltage : 240V AC with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : 12 mm Clear Glass (Frosted Glass on request)



9 x 350 mA (9 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	765 lm	257241
☁ Natural White	4500 K	765 lm	257242
☀ Cool White	6000 K	918 lm	257243
🟦 Blue			257244
🟥 Red			257245
🟡 Amber			257246
🟢 Green			257247

METAL HALIDE 35W / 70W

Lampholder : Rx 7s-24
Reflector : Asymmetric 50°
Diffuser : Clear Glass
Temp : 176°C

Wall Washer
Code No
257211

METAL HALIDE 35W / 70W

Lampholder : G12
Reflector : 30° or 42°
Diffuser : Clear Glass
Temp : 173°C

Adjustable Spotlighter
Code No
257231

KNIDOS ASYMMETRICAL SURFACE MOUNTED FIXTURES

Class I IP67 IK10

The Knidos Surface Mounted Uplighter, completely made of 316L stainless steel is ideal for areas where corrosive agents such as salt water or fertilizers would harm aluminium fixtures. The fixture can be mounted without harm to any surface and therefore is ideal for protected and historical sites where mounting recessed fixtures is not permitted.

Cover

316L Stainless steel

Outer Body

316L Stainless steel

Inner Body

Glass reinforced polyester

Diffusers

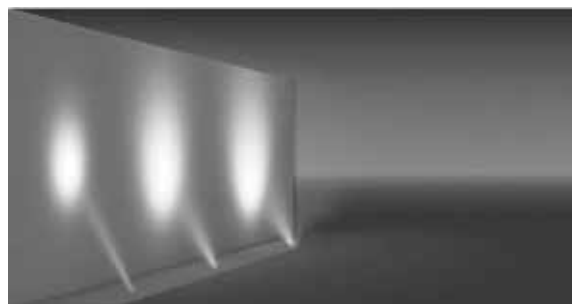
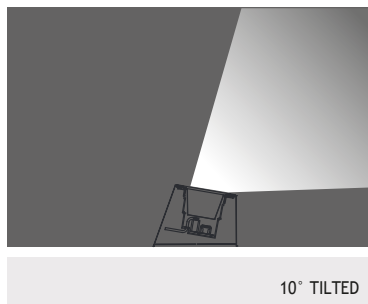
12 mm Tempered Glass

Gaskets

Silicone

Screws

316L Stainless Steel

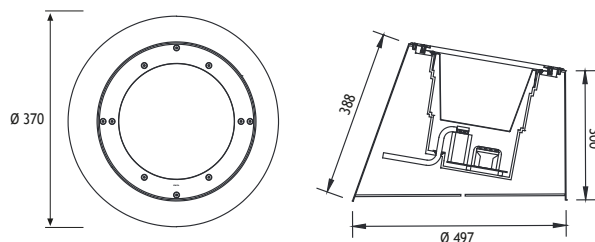


9 x 350 mA (9 W) LED

Voltage : 240V AC with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : 12 mm Clear Glass (Frosted Glass on request)



LED power 9 x 350 mA (9 W)		Total Lighting Output	Code No
☀ Warm White	3000 K	765 lm	256301
☀ Natural White	4500 K	765 lm	256302
☀ Cool White	6000 K	918 lm	256303
🟦 Blue			256304
🟥 Red			256305
🟡 Amber			256306
🟢 Green			256307

METAL HALIDE 35W / 70W

Lampholder : Rx 7s-24
Reflector : Asymmetric 50°
Diffuser : Clear Glass
Temp : 176°C

Wall Washer

Code No
256311

METAL HALIDE 35W / 70W

Lampholder : G12
Reflector : 30° or 42°
Diffuser : Clear Glass
Temp : 173°C

Adjustable Spotlighter

Code No
256321

BELKIS 5 SURFACE MOUNTED FIXTURES

Class I IP67 IK10

The Belkis Surface Mounted Uplighter, completely made of 316L stainless steel is ideal for areas where corrosive agents such as salt water or fertilizers would harm aluminium fixtures. The fixture can be mounted without harm to any surface and therefore is ideal for protected and historical sites where mounting recessed fixtures is not permitted.

Cover

316L Stainless steel

Outer Body

316L Stainless steel

Inner Body

Die cast aluminium

Diffusers

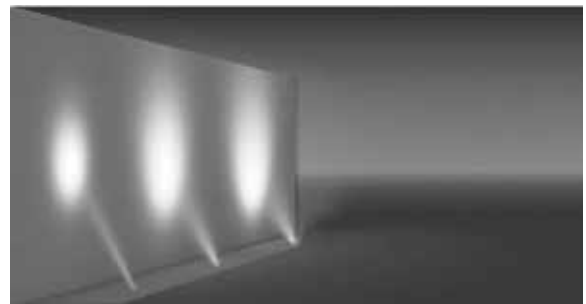
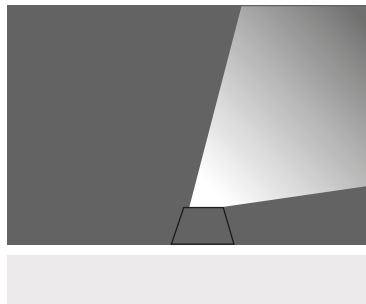
8 mm Tempered Glass

Gaskets

Silicone

Screws

316L Stainless Steel

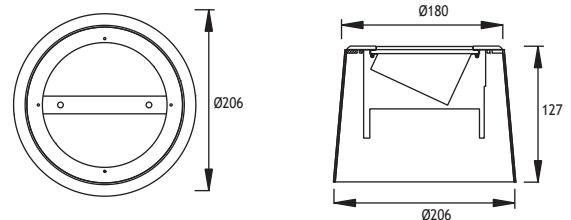


12W or 25W LED

Voltage : 240V AC with integrated driver
(24V AC or DC on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



1 x 350 mA (12 W) LED		Total Lighting Output	Code No	
Color	Temp		Round	Square
☀ Warm White	2700 K	1005 lm	333001	333011
☾ Warm White	3000 K	1005 lm	333002	333012
🌊 Natural White	4000 K	1078 lm	333003	333013

1 x 700 mA (25 W) LED		Total Lighting Output	Code No	
Color	Temp		Round	Square
☀ Warm White	2700 K	1848 lm	333021	333031
☾ Warm White	3000 K	1848 lm	333022	333032
🌊 Natural White	4000 K	1919 lm	333023	333033

TEOS SURFACE MOUNTED DRIVE OVER FIXTURES

Load 50 kN | Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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EMFA's Teos 3 Surface Drive Over LED Fixture is specially designed to deliver high output LED light to ground surfaces of roads, carparks and pathways. This heavy duty fixture is designed to withstand the weight of large vehicles. Its robust construction allows for a maximum static load of 5000kg. The body and head of the fixture are made of die cast aluminium, while the recessing tube is made of steel to withstand the repeated impact of driving vehicles' tires. The high power LEDs are positioned and angled to provide maximum light output. The electronic LED driver is housed in the base of the fixture. The fixture comes with 2 x PG13.5 cable glands and 0.5m cable.

Cover

Die cast aluminium

Body

Die cast aluminium

Gaskets

Silicone

Diffusers

Polycarbonate

Screws

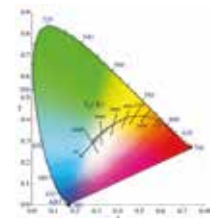
316L Stainless steel

Glands

2 x PG 13.5

Cable

0.5m 3x0,75 mm H05VV-F

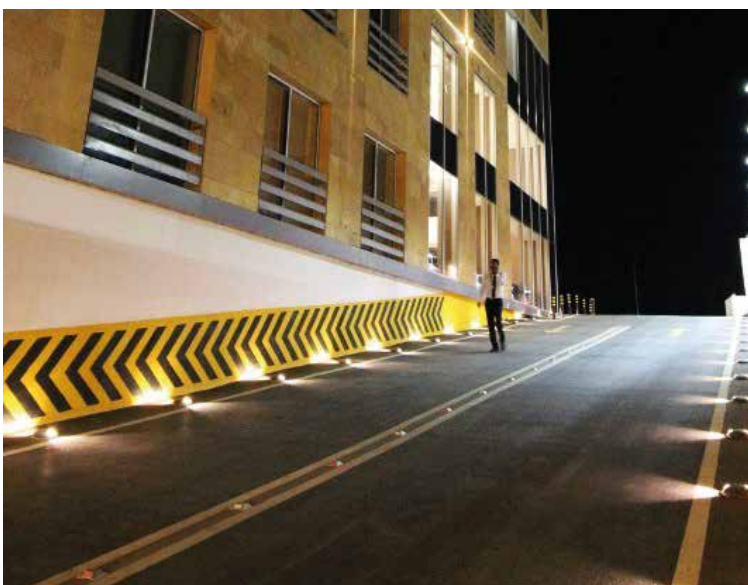


LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

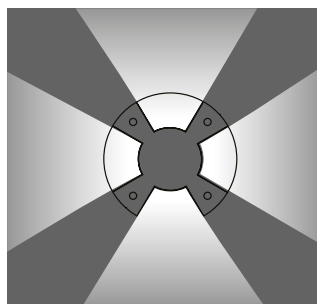
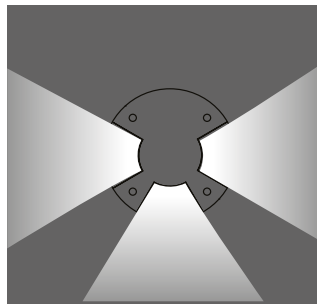
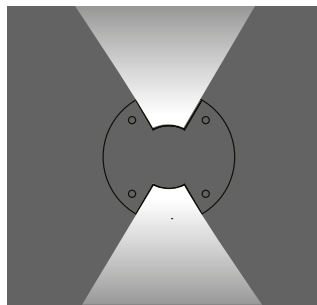
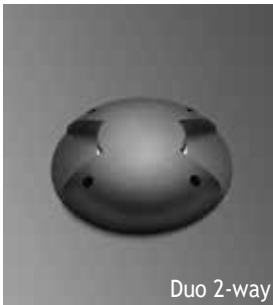
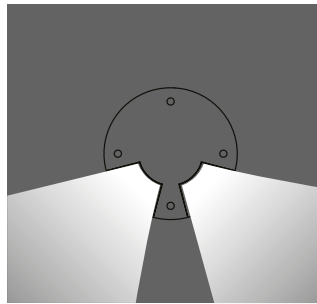
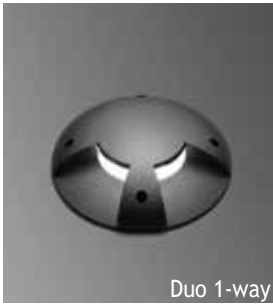
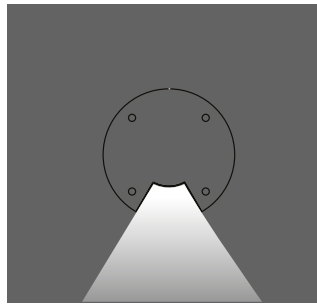
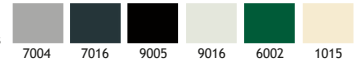
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.



TEOS 3 SURFACE MOUNTED DRIVE OVER FIXTURES

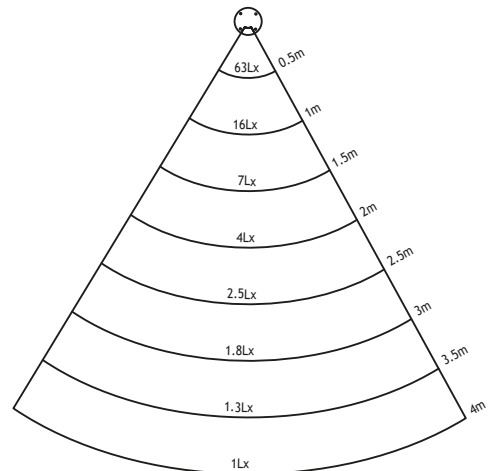
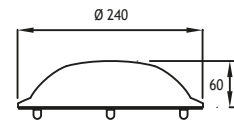
Load 50 kN | Class I IP67 IK10

Available in any of these RAL colors



Led : Linear LEDs
Voltage : 240 VAC with integrated driver (12-24 VDC on request)
Diffuser : Polycarbonate

			Total Lighting Output	Code No
Mono	1 x 350 mA (4W) LED	3000 K	165 lm	180201
Mono	1 x 350 mA (4W) LED	5000 K	192 lm	180202
Duo 1-way	2 x 350 mA (8W) LED	3000 K	330 lm	180211
Duo 1-way	2 x 350 mA (8W) LED	5000 K	384 lm	180212
Duo 2-way	2 x 350 mA (8W) LED	3000 K	330 lm	180221
Duo 2-way	2 x 350 mA (8W) LED	5000 K	384 lm	180222
Trio	3 x 350 mA (12W) LED	3000 K	495 lm	180231
Trio	3 x 350 mA (12W) LED	5000 K	576 lm	180232
Quad	4 x 350 mA (16W) LED	3000 K	660 lm	180241
Quad	4 x 350 mA (16W) LED	5000 K	768 lm	180242



Lux levels for one aperture at 3000K

MIRA SURFACE MOUNTED FIXTURES

Class I IP67 IK10

The Mira series consists of a range of LED, fluorescent and metal halide sources to deliver the desired light effect to facades, columns, bridges, monuments, and signs. The series is made of a die cast aluminium body with electrostatic powder paint finished with a 316L stainless steel cover. The recessed versions are for drive over up to 20 kN including a stainless steel recessing box. The surface mounted versions come with a heavy-duty 316L stainless steel bracket. The fixtures come with integrated electronic ballasts and a specially developed potted power cable to effectively bond with the cast resin and stop any water ingress. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.

Cover

316L Stainless steel

Body

Die cast aluminium

Diffusers

12 mm Tempered Glass

Gaskets

Silicone

Screws

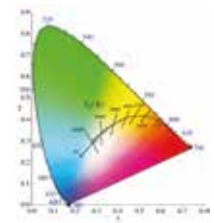
316L Stainless steel

Recessing Box

Stainless steel

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

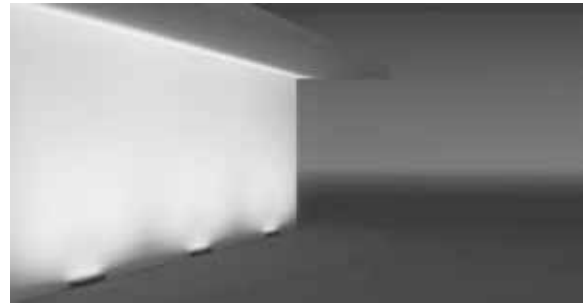
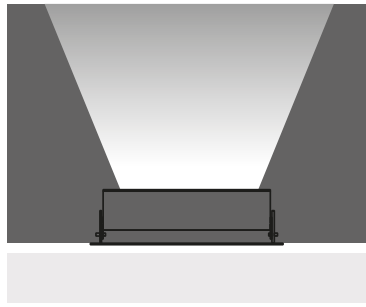
MIRA 1 SURFACE MOUNTED FIXTURES

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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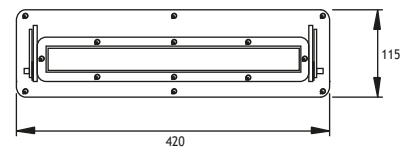


Voltage : 240V AC with integrated driver
(24V AC or DC on request)

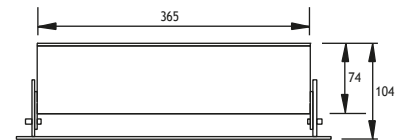
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



12 x 350 mA (12 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	1020 lm	430201
☁ Natural White	4500 K	1020 lm	430206
☀ Cool White	6000 K	1224 lm	430207
🔵 Blue			430202
🔴 Red			430203
🟡 Amber			430204
🟢 Green			430205

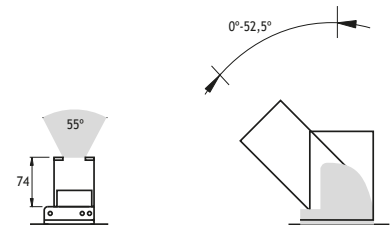


Voltage : 240V AC with remote driver

Lens : 25°, 40°

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F



27 x 350 mA (27 W) RGB LED		Code No
🟠 🟢 🟡	RGB	430241

Voltage : 240V AC with integrated ballast

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Reflector : Symmetrical

Lampholder : W 4,3 x 8,5 d

Ballast : Electronic

Cable : Potted 5 m 3x0,75 H03 VV-F

FLUO T-2 1x8W (included) : Code No 430231

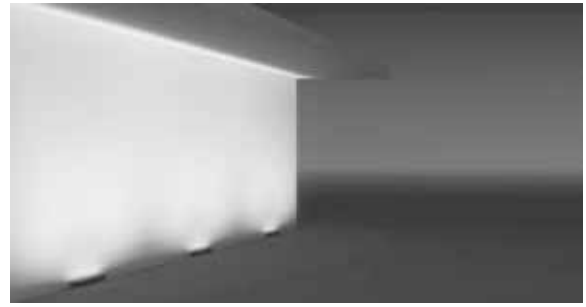
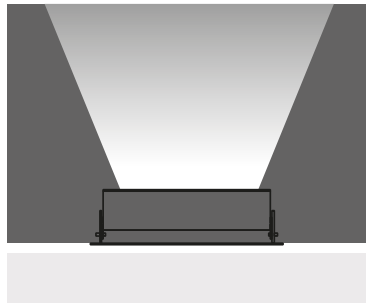
MIRA 1 SURFACE MOUNTED FIXTURES

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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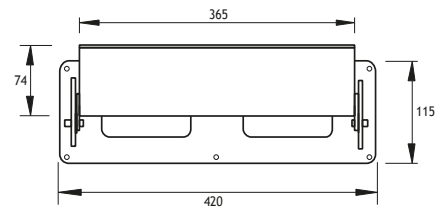


Voltage : 240V AC with integrated driver
(24V AC or DC on request)

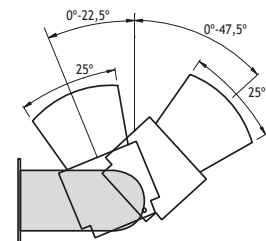
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



		Total Lighting Output	Code No
12 x 350 mA (12 W) LED			
☀ Warm White	3000 K	1020 lm	430301
☀ Natural White	4500 K	1020 lm	430306
☀ Cool White	6000 K	1224 lm	430307
🔵 Blue			430302
🔴 Red			430303
🟡 Amber			430304
🟢 Green			430305



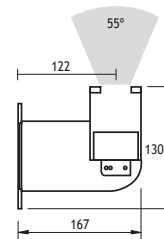
Voltage : 240V AC with remote driver

Lens : 25°, 40°

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

27 x 350 mA (27 W) RGB LED		Code No
🔴 🟢 🟡	RGB	430341



Voltage : 240V AC with integrated ballast

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Reflector : Symmetrical

Lampholder : W 4,3 x 8,5 d

Ballast : Electronic

Cable : Potted 5 m 3x0,75 H03 VV-F

FLUO T-2 1x8W (included) : Code No 430331

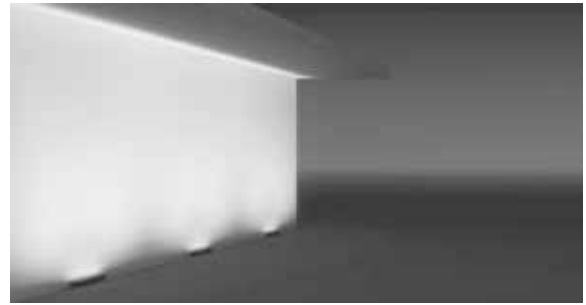
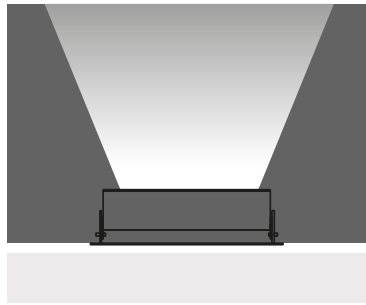
MIRA 2 SURFACE MOUNTED FIXTURES

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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SHORT BRACKET

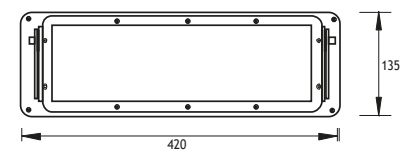


Voltage : 240V AC with integrated driver
(24V AC or DC on request)

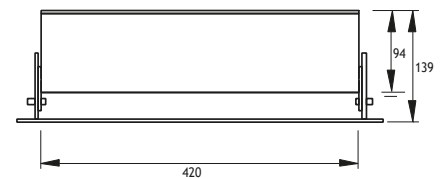
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



36 x 350 mA (36 W) LED		Total Lighting Output	Code No
Warm White	3000 K	3060 lm	430801
Natural White	4500 K	3060 lm	430806
Cool White	6000 K	3672 lm	430807
Blue			430802
Red			430803
Amber			430804
Green			430805

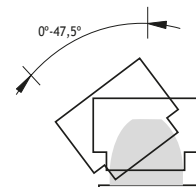


Voltage : 240V AC with remote driver

Lens : 25°, 40°

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F



81 x 350 mA (81 W) RGB LED		Code No
RGB		430821

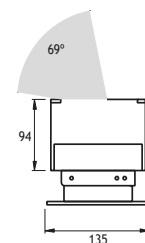
Voltage : 240V AC with integrated ballast

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Reflector : Asymmetrical

Lampholder : G 8,5

Ballast : Electronic



Metal Halide 70W (not included) : Code No 430841

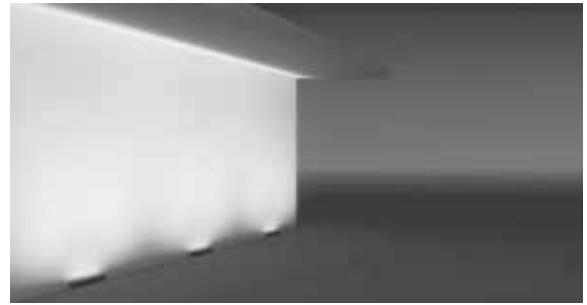
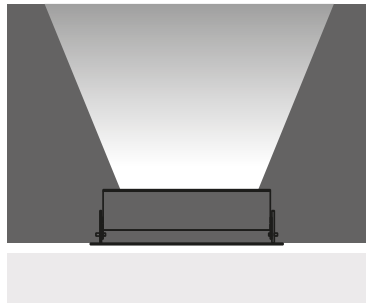
MIRA 2 SURFACE MOUNTED FIXTURES

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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LONG BRACKET

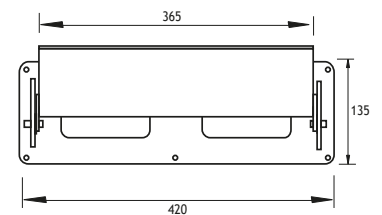


Voltage : 240V AC with integrated driver
(24V AC or DC on request)

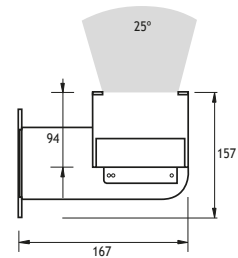
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



		Total Lighting Output	Code No
36 x 350 mA (36 W) LED			
☀ Warm White	3000 K	3060 lm	430901
☀ Natural White	4500 K	3060 lm	430906
☀ Cool White	6000 K	3672 lm	430907
🌊 Blue			430902
🔴 Red			430903
🟡 Amber			430904
🟢 Green			430905



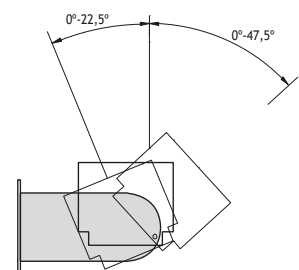
Voltage : 240V AC with remote driver

Lens : 25°, 40°

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

		Code No
81 x 350 mA (81 W) RGB LED		
🔴 🟢 🟡	RGB	430921



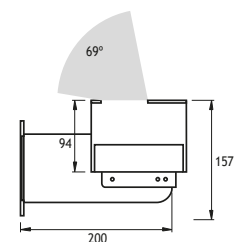
Voltage : 240V AC with integrated ballast

Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Reflector : Asymmetrical

Lampholder : G 8,5

Ballast : Electronic



Metal Halide 70W (not included) Code No 430941

KARIA SURFACE MOUNTED FIXTURES

Class I IP65 IK07

Available in these 2 colors



The Karia series consists of a range of LED and fluorescent sources to deliver the desired light effect to facades, columns, bridges, monuments, and signs. The series is made of an anodized extrusion aluminium body with polyamid side covers. Polyamid brackets are used to mount the fixtures. Stainless steel brackets are also available to increase the distance from the mounting surface if necessary. The fixtures come with integrated electronic ballasts and LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.



Body

Anodized Aluminium profile with polyamid 66 side covers

Mounting Brackets

Polyamide 66 (Stainless Steel on request)

Screws

Stainless steel

Diffusers

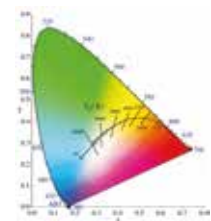
4 mm Tempered Glass

Gaskets

Silicone

Gland

2 cable Gland for 5-8 mm Ø cable



“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

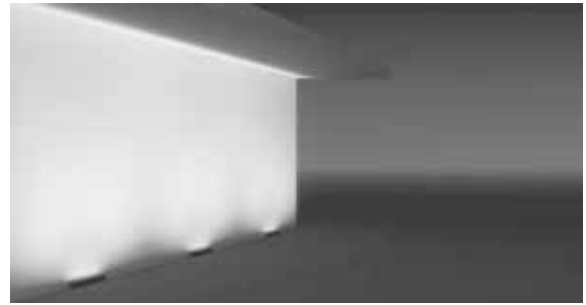
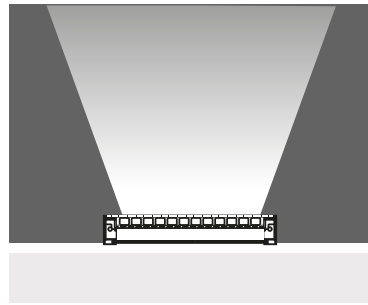
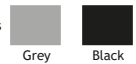
Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

KARIA 1 SURFACE MOUNTED FIXTURES

Class I IP67 IK07

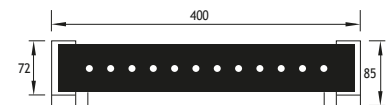
Available in these 2 colors



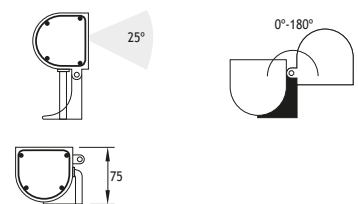
Voltage : 240 VAC with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°, 6x25° elliptic

Diffuser : 4 mm Clear Glass (Frosted Glass on request)



			Total Lighting Output	Code No
12 x 350 mA (12 W) LED				
☀ Warm White	3000 K	1020 lm	431101	
☀ Natural White	4500 K	1020 lm	431106	
☀ Cool White	6000 K	1224 lm	431107	
🌊 Blue			431102	
🔴 Red			431103	
🟡 Amber			431104	
🟢 Green			431105	



KARIA 1 RGB

Voltage : 240 VAC with remote driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°, 6x25° elliptic

Diffuser : 4 mm Clear Glass (Frosted Glass on request)

12 x 350 mA (12 W) LED

CODE NO 431111

KARIA 27 RGB

Voltage : 240 V AC with remote driver

Lens : 25°, 40°

Diffuser : 4 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 mm 3x0,75 H03 VV-F

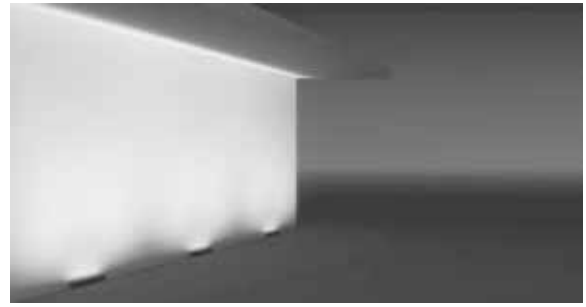
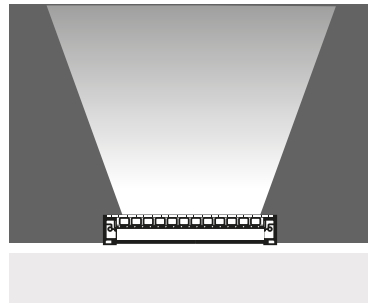
27 x 350 mA (27 W) RGB LED

CODE NO 431601

KARIA 2 SURFACE MOUNTED LED FIXTURES

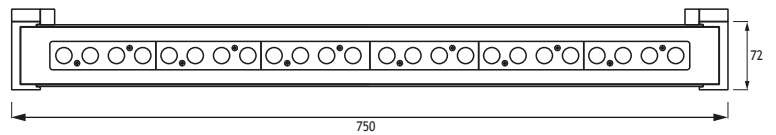
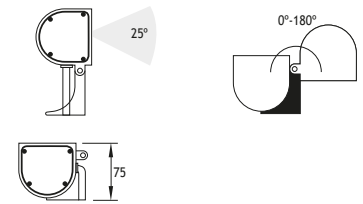
Class I IP67 IK07

Available in these 2 colors



KARIA 2 24W

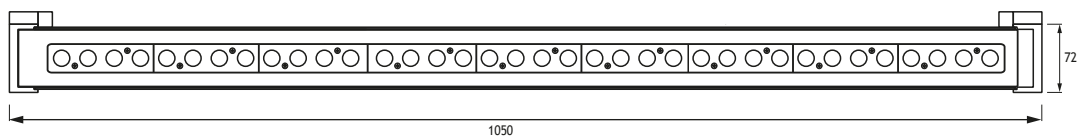
24 x 350 mA (24 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	2040 lm	431211
☁ Natural White	4500 K	2040 lm	431216
☁ Cool White	6000 K	2448 lm	431217
🟦 Blue			431212
🟥 Red			431213
🟡 Amber			431214
🟢 Green			431215



KARIA 2 36W

- Voltage** : 240 VAC with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 12 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

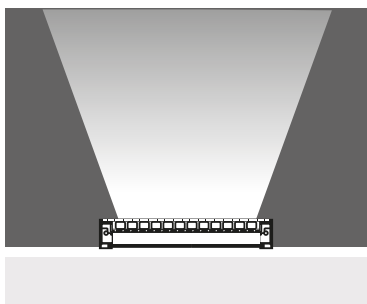
36 x 350 mA (36 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	3060 lm	431241
☁ Natural White	4500 K	3060 lm	431242
☁ Cool White	6000 K	3672 lm	431243
🟦 Blue			431244
🟥 Red			431245
🟡 Amber			431246
🟢 Green			431247



KARIA SURFACE MOUNTED FLUO.FIXTURES

Class I IP44 IK07

Available in these 2 colors  Grey  Black

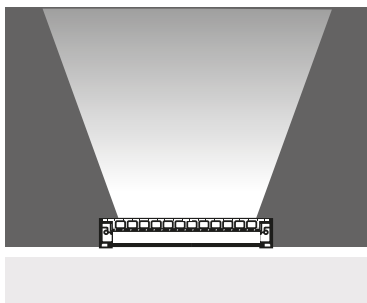
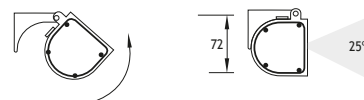
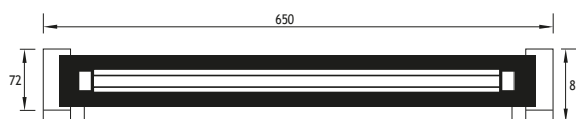


KARIA 2 14W/24W

Voltage : 240V AC with integrated ballast
Diffuser : 4 mm Clear Glass
Lampholder : G5
Ballast : Electronic

T5 14W / 24W

Code No
431201

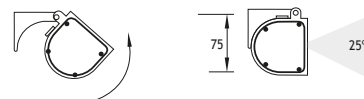
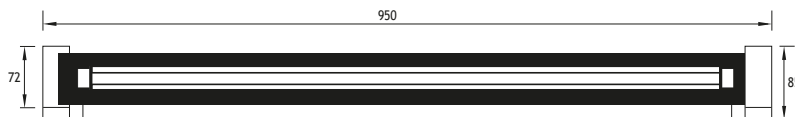


KARIA 3 21W/39W

Voltage : 240V AC with integrated ballast
Diffuser : 4 mm Clear Glass
Lampholder : G5
Ballast : Electronic

T5 21W / 39W

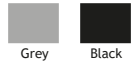
Code No
431301



MILET SLIM WALLWASHER SURFACE MOUNTED

Class I IP65 IK07

Available in these 2 colors



The Milet series consists of a range of LED and fluorescent sources to deliver the desired light effect to facades, columns, bridges, monuments, and signs. The series is made of an anodized extrusion aluminium body with polyamid side covers. Polyamid brackets are used to mount the fixtures. Stainless steel brackets are also available to increase the distance from the mounting surface if necessary. The fixtures come with integrated electronic ballasts and LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired light effect.

Body

Anodized Aluminium profile with polyamid 66 side covers

Mounting Brackets

Polyamide 66 (Stainless Steel on request)

Screws

Stainless Steel

Diffusers

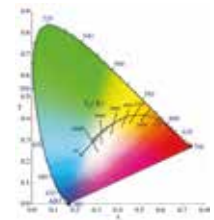
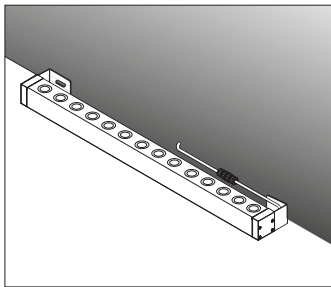
4 mm Tempered Glass

Gaskets

Silicone

Gland

2 cable Gland for 5-8 mm Ø cable



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

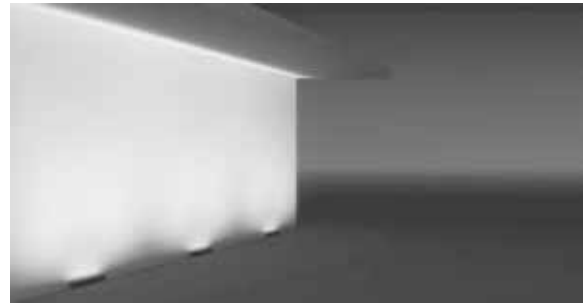
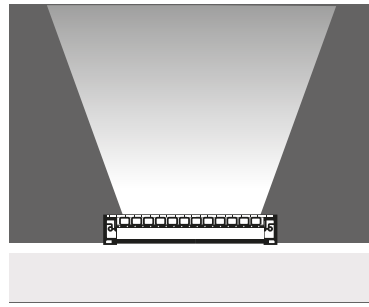
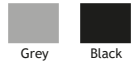
Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



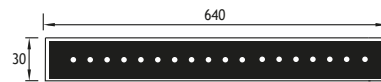
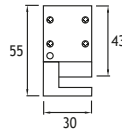


Voltage : 240V AC with integrated driver
(24V AC or DC on request)
Lens : 10°, 25°, 40°, 6x25° elliptic
Diffuser : 4 mm Clear Glass (Frosted Glass on request)



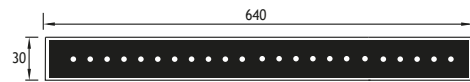
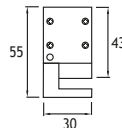
640 mm 18W POWERLED

		Total Lighting Output	Code No
☀ Warm White	3300 K	1071 lm	299001
☀ Natural White	4500 K	1185 lm	299002
☀ Cool White	6000 K	1245 lm	299003
🟦 Blue			299004
🟥 Red			299005
🟡 Amber			299006
🟢 Green			299007



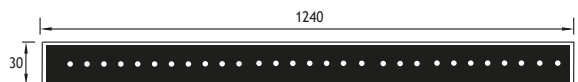
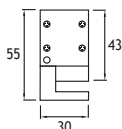
940 mm 24W POWERLED

		Total Lighting Output	Code No
☀ Warm White	3300 K	1608 lm	299101
☀ Natural White	4500 K	1723 lm	299102
☀ Cool White	6000 K	1871 lm	299103
🟦 Blue			299104
🟥 Red			299105
🟡 Amber			299106
🟢 Green			299107



1240 mm 36W POWERLED

		Total Lighting Output	Code No
☀ Warm White	3300 K	2620 lm	299201
☀ Natural White	4500 K	2840 lm	299202
☀ Cool White	6000 K	2985 lm	299203
🟦 Blue			299204
🟥 Red			299205
🟡 Amber			299206
🟢 Green			299207



SIDE SURFACE MOUNTED BULKHEADS

Class I IP65 IK08

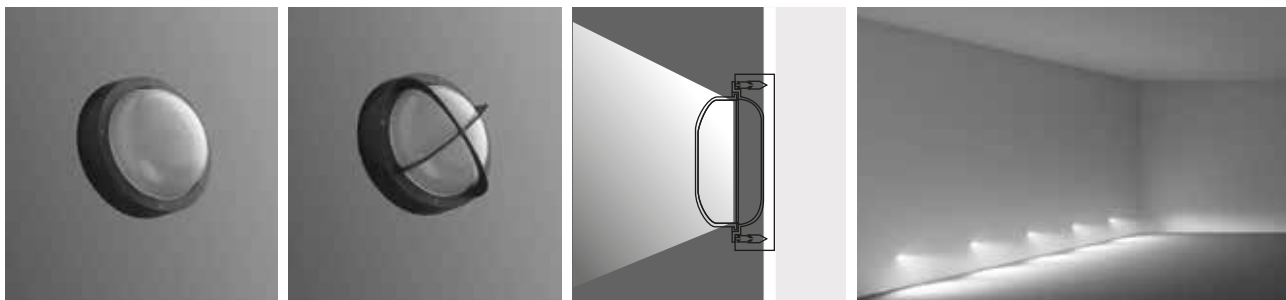
Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

Body
Die Cast Aluminium
Cover
Die Cast Aluminium
Paint
Electrostatic powder paint
Diffuser
Pressed glass or polycarbonate

SIDE 1

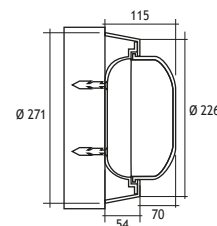
SIDE 3



SIDE 1

Lampholder: E27
INCANDESCENT 75W Code No
Glass Diffuser 505101
P.C. Diffuser 505201

Lampholder: G24 d-2
FLUO. 18W Code No
Glass Diffuser 505121
P.C. Diffuser 505221

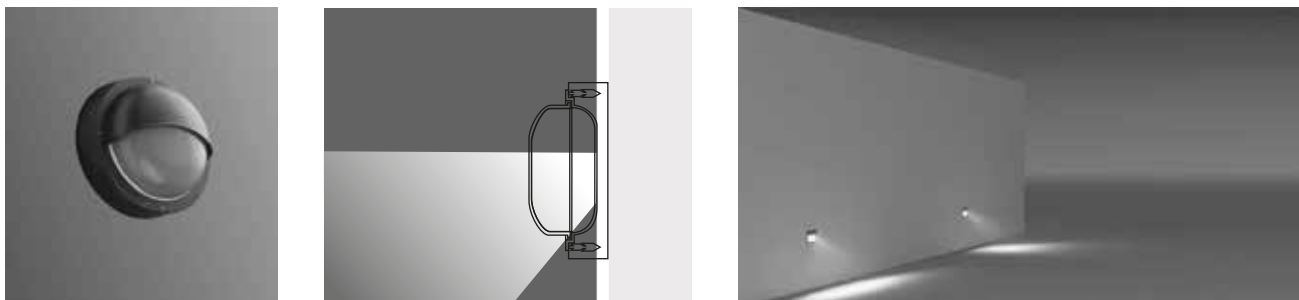


SIDE 3

Lampholder: E27
INCANDESCENT 75W Code No
Glass Diffuser 507101
P.C. Diffuser 507201

Lampholder: G24 d-2
FLUO. 18W Code No
Glass Diffuser 507121
P.C. Diffuser 507221

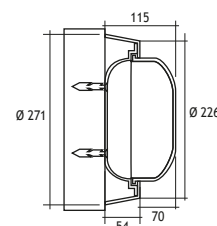
SIDE 2



SIDE 2

Lampholder: E27
INCANDESCENT 75W Code No
Glass Diffuser 506101
P.C. Diffuser 506201

Lampholder: G24 d-2
FLUO. 18W Code No
Glass Diffuser 506121
P.C. Diffuser 506221



PERGE SURFACE MOUNTED BULKHEADS

Class I IP67 IK08

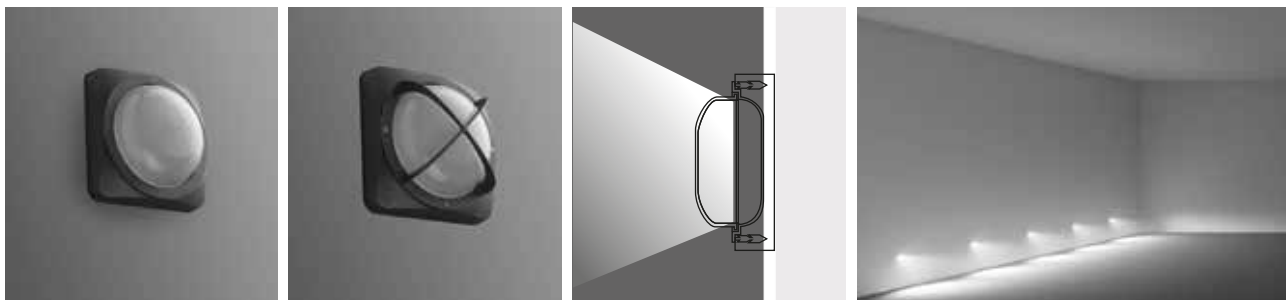
Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

Body
Die Cast Aluminium
Cover
Die Cast Aluminium
Paint
Electrostatic powder paint
Diffuser
Pressed glass or polycarbonate

PERGE 1

PERGE 3



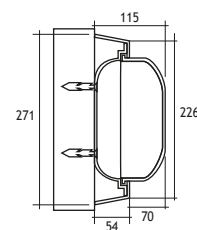
PERGE 1

Lampholder: E27
INCANDESCENT 75W
Glass Diffuser
P.C. Diffuser

Code No
515101
515201

Lampholder: G24 d-2
FLUO. 18W
Glass Diffuser
P.C. Diffuser

Code No
515121
515221



PERGE 3

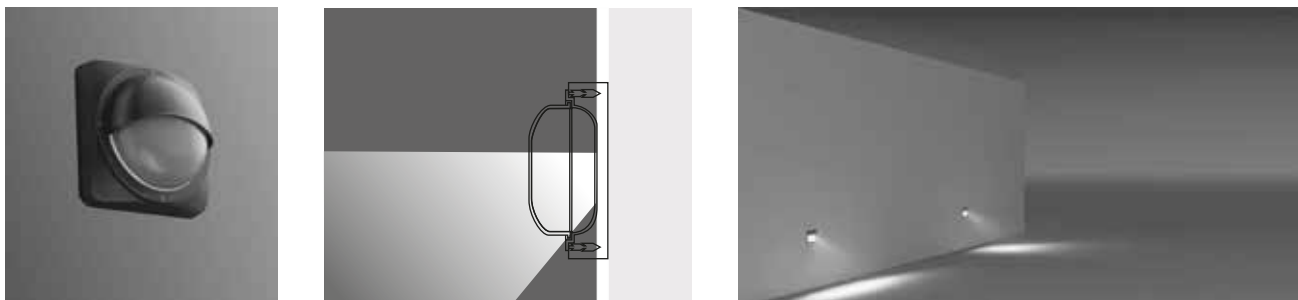
Lampholder: E27
INCANDESCENT 75W
Glass Diffuser
P.C. Diffuser

Code No
517101
517201

Lampholder: G24 d-2
FLUO. 18W
Glass Diffuser
P.C. Diffuser

Code No
517121
517221

PERGE 2



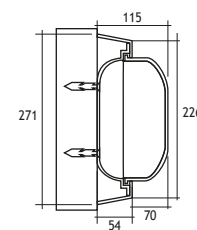
PERGE 2

Lampholder: E27
INCANDESCENT 75W
Glass Diffuser
P.C. Diffuser

Code No
516101
516201

Lampholder: G24 d-2
FLUO. 18W
Glass Diffuser
P.C. Diffuser

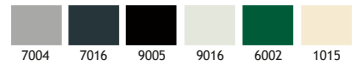
Code No
516121
516221



SLIM PYRAMID

SURFACE MOUNTED FIXTURES Class II IP44 IK08

Available in any
of these RAL colors



Cover & Body

Glass reinforced polyester

Screws

Inox

Gasket

Silicone

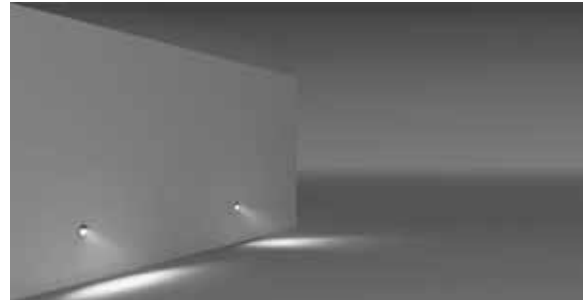
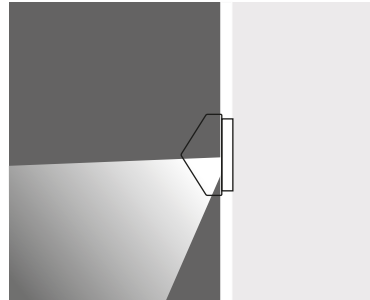
Glass

Tempered

Recessing Box

Galvanized steel

(for recessed types only)



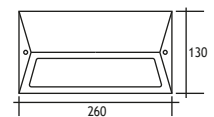
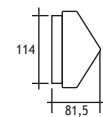
Lampholder : G24 d-1

Diffuser : Frosted Glass

Asymmetrical

1 x FLUO 9W

Code No
503501



MILET SURFACE MOUNTED FIXTURES IP54

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015

The Milet Surface Mounted Series is specially designed to deliver low glare halogen lighting to steps, open areas, corridors and pathways. The fixture has a die cast aluminium body painted with electrostatic powder paint. The slated or open covers come in an aluminium or aluminium / stainless steel finish. The cable on site can be securely connected to the fixture via a sealed crimp splice.

Cover

Die cast aluminium / Inox (Stainless steel)

Paint

Black or grey electrostatic powder

Body

Die cast aluminium

Connection

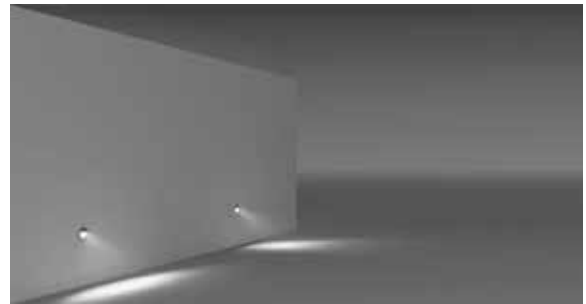
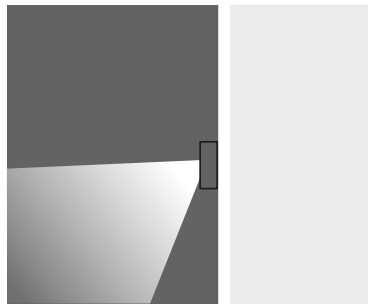
Sealed crimp splices

Gaskets

Silicone

Diffusers

4 mm Tempered Glass



HALOGEN 240V 25-40W

Lampholder : G9

Reflector : -

Diffuser : Clear Glass

Class III

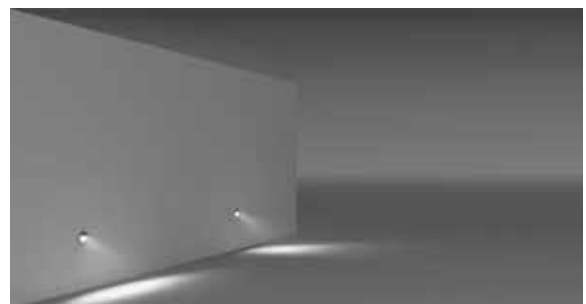
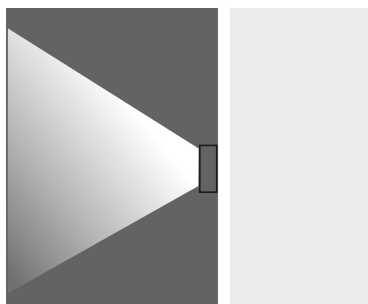
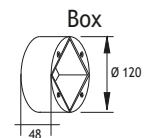
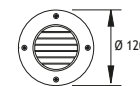
Alum

Inox

Code No

310111

311111



HALOGEN 240V 25-40W

Lampholder : G9

Reflector : -

Diffuser : Frosted Glass

Class III

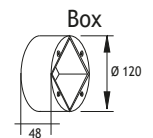
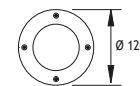
Alum

Inox

Code No

312111

314111



MILET

INDIRECT SURFACE MOUNTED FIXTURE

Class I IP55 IK08

The Milet Indirect series consists of an on-wall fixture and a bollard using LED, halogen or fluorescent. The fixtures are made of a combination of a die cast aluminium head and an aluminium pipe painted with electrostatic powder paint. The wall fixture allows for a custom made sign showing room numbers or names. For the LED versions, a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. For the halogen and fluorescent versions, an IP connection box is provided to allow for a secure connection of the on-site cable.

Cover

Die cast aluminium

Paint

Black or grey electrostatic powder

Body

Die cast aluminium

Connection

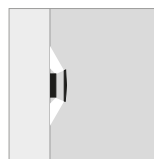
IP connection box

Gaskets

Silicone

Diffusers

Polycarbonate



Special Application

For room numbers, names, signs etc. The acrylic part inside can be colour of choice.



CODE NO 295115
ELECTR. CIR. FLUO. 6W



Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 40°

Diffuser : Polycarbonate

Cable : Potted 5 m 3x0,75 H03 VV-F

320 mA (11W) LED 3000 K

Code No
290101

Lampholder : G9

Reflector : -

Diffuser : Polycarbonate

HALOGEN 240V 40W

Code No
290201

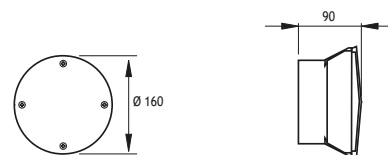
Lampholder : Gx53

Reflector : -

Diffuser : Polycarbonate

ELECTRONIC CIRCULAR FLUO. 6W

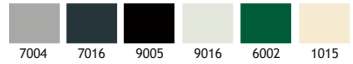
Code No
290211



BELKIS 1 LLA SURFACE MOUNTED LED FIXTURES

Class I IP67 IK08

Available in any of these RAL colors



The Belkis 1 LLS is specially designed to deliver low glare LED lighting to steps, open areas, corridors and pathways where recessing the fixture is not possible. The fixture has a die cast aluminium body painted with electrostatic powder paint. The narrow depth of 39mm, which also includes the LED driver, allows the fixture to be installed in any wall. A plastic recessing box is included for installation into concrete. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The linear LED used comes in 2 different tones of white, 3000K and 4000K.



Body

Die cast aluminium

Paint

Electrostatic powder

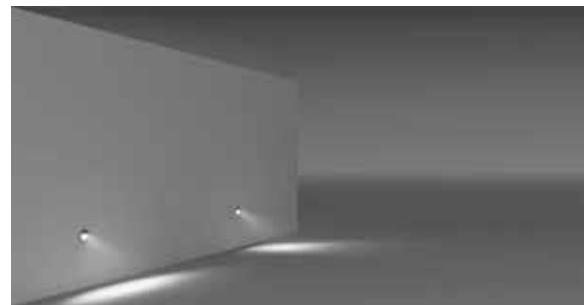
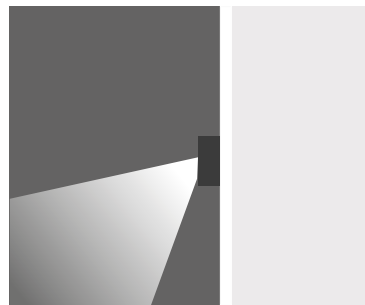
Diffusers

Tempered Glass 4 mm

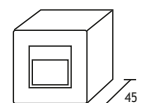
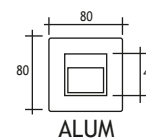
Gaskets

Silicone

Asymmetrical



- Voltage** : 240V AC with integrated driver
(12V DC or 24V DC on request)
- Diffuser** : Clear Glass 12 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



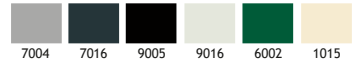
ALUM

1 x 350 mA (4 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	92 lm	424141
☁ Natural White	4000 K	107 lm	424142

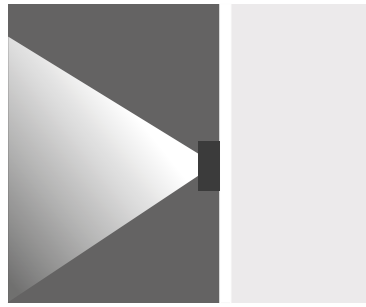
BELKIS 1 LLS

SURFACE MOUNTED LED FIXTURES Class I IP67 IK08

Available in any
of these RAL colors

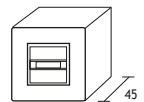
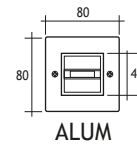


Symmetrical With Milky Glass



Voltage : 240V AC with integrated driver
(12V DC or 24V DC on request)
Diffuser : Milky Glass
Cable : Potted 5 m 3x0,75 H03 VV-F

1 x 350 mA (4 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	128 lm	424151
☾ Natural White	4000 K	148 lm	424152

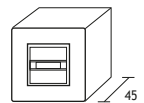
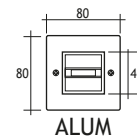


ALUM

Symmetrical With Glare-Glass or Clear Glass



Voltage : 240V AC with integrated driver
(12V DC or 24V DC on request)
Diffuser : Anti-Glare Glass 4 mm
Cable : Potted 5 m 3x0,75 H03 VV-F



ALUM

Symmetrical With Anti-Glare Glass

1 x 350 mA (4 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	255 lm	424161
☾ Natural White	4000 K	295 lm	424162

Symmetrical With Clear Glass

1 x 350 mA (4 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	255 lm	424171
☾ Natural White	4000 K	295 lm	424172

SATURN SURFACE MOUNTED LED FIXTURES

Class I IP65 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

The Saturn is specially designed to deliver low glare LED lighting to steps, open areas, corridors and pathways. The fixture has a die cast aluminium body painted with electrostatic powder paint. The narrow depth of 25mm, which also includes the LED driver, allows the fixture to be installed in any wall. A plastic recessing box is included for installation into concrete. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The COB LED used comes in 2 different tones of white, 3000K and 4000K.

Body

Die cast aluminium

Paint

Electrostatic powder

Diffusers

Tempered Glass

Gaskets

Silicone

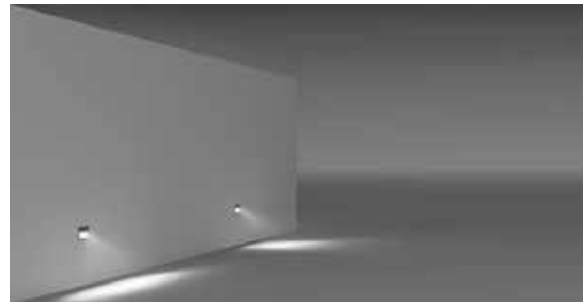
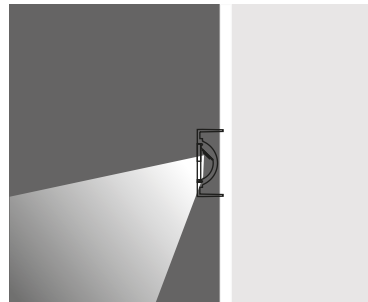
Voltage : 240V

Diffuser : Clear, Frosted And Milky Glass 4 mm

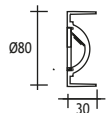
Cable : Potted 5 m 3x0,75 H03 VV-F



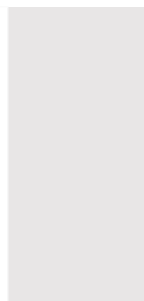
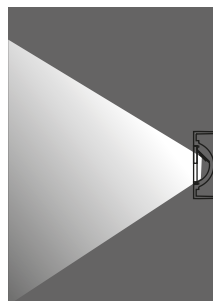
Asymmetrical



3W COB LED		Total Lighting Output	Code No
☀ Warm White 3000 K	285 lm	526001	
☁ Natural White 4000 K	313 lm	526002	



Symmetrical With Frosted Glass or Milky Glass

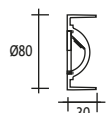


Symmetrical With Frosted Glass

3W COB LED		Total Lighting Output	Code No
☀ Warm White 3000 K	245 lm	526101	
☁ Natural White 4000 K	295 lm	526102	

Symmetrical With Milky Glass

3W COB LED		Total Lighting Output	Code No
☀ Warm White 3000 K	195 lm	526201	
☁ Natural White 4000 K	210 lm	526202	



LYKIA LL SURFACE MOUNTED LED FIXTURES

Class I IP65 IK08



The LYKIA LL is specially designed to deliver low glare LED lighting to steps, open areas, corridors and pathways where recessing the fixture is not possible. The fixture has a die cast aluminium body painted with electrostatic powder paint. The narrow depth of 39mm, which also includes the LED driver, allows the fixture to be installed in any wall. A plastic recessing box is included for installation into concrete. A specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The linear LED used comes in 2 different tones of white, 3000K and 4000K.

Body

Die cast aluminium

Paint

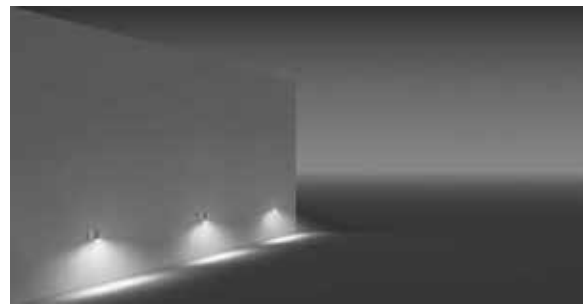
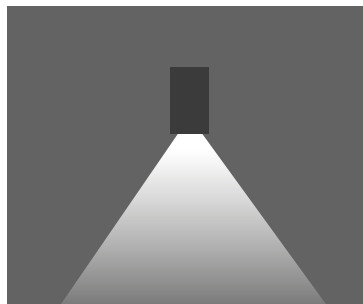
Electrostatic powder

Diffusers

Pmma

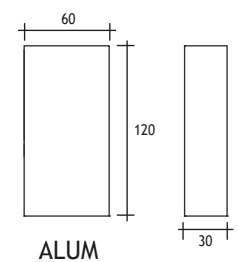
Gaskets

Silicone



- Voltage** : 240V AC with integrated driver
(12V DC or 24V DC on request)
- Diffuser** : Clear Glass 12 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

1 x 350 mA (3 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	92 lm	424201





EMFA

MILET ANI WALL SURFACE RECESSED

Class I IP55 IK08



EMFA's Ani surface mounted series is specially designed to deliver low-glare lighting to facades, walkways, pathways and driveways with minimal installation depth and narrow trim. The fixture is made of a combination of 316L stainless steel and die cast aluminium. The tilted design reduces the glare of the LED's. The Linear LEDs with special lenses gives excellent wallwashing effect. An anti-slip glass is available upon request.

Body

Die cast aluminium

Gaskets

Silicone

Diffusers

4 mm Tempered Glass

Screws

316L Stainless Steel

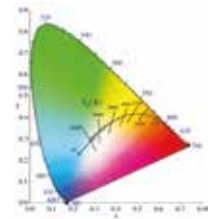
Glands

PG 11

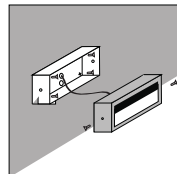


"Customization" is EMFA's standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



Symmetrical



Galvanized Recessing Box

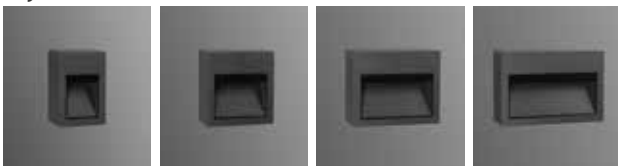


end of the code number "s" add for Screw mounting option for

LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

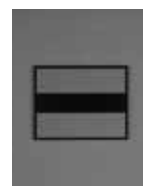
Asymmetrical



Asym. Glass



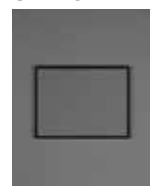
Trenched Glass



Milky Glass



Clear Glass



ANI WALL SURFACE MOUNTED

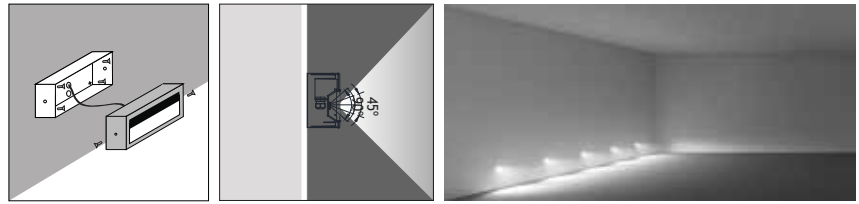
Class I IP55 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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Symmetrical

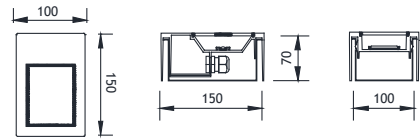
- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : >80
- L.O.R %** : %70



Galvanized Mounting Box



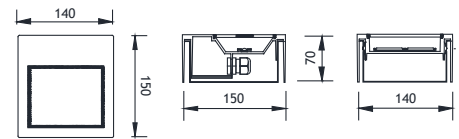
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	457001	3000 K	600 lm	850 lm
12W	457011	3000 K	1020 lm	1460 lm
6W	457002	4000 K	690 lm	977 lm
12W	457012	4000 K	1173 lm	1679 lm



Galvanized Mounting Box



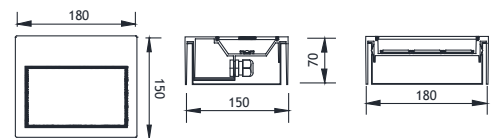
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
12W	457101	3000 K	1020 lm	1460 lm
24W	457111	3000 K	1780 lm	2550 lm
12W	457102	4000 K	1173 lm	1679 lm
24W	457112	4000 K	2047 lm	2932 lm



Galvanized Mounting Box



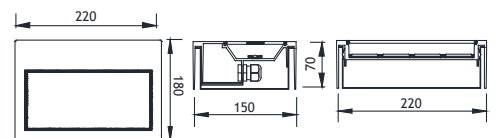
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
18W	457201	3000 K	1200 lm	1700 lm
36W	457211	3000 K	2300 lm	3300 lm
18W	457202	4000 K	1380 lm	1955 lm
36W	457212	4000 K	2645 lm	2932 lm



Galvanized Mounting Box



Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	457301	3000 K	1780 lm	2550 lm
48W	457311	3000 K	3080 lm	4300 lm
24W	457302	4000 K	2047 lm	2932 lm
48W	457312	4000 K	3542 lm	5060 lm



Galvanized Mounting Box

ANI WALL SURFACE MOUNTED

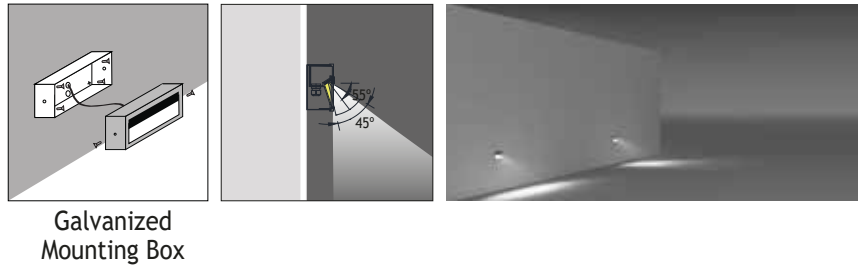
Class I IP55 IK08

Available in any of these RAL colors

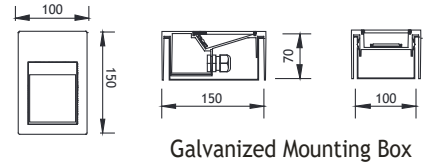
7004	7016	9005	9016	6002	1015
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Asymmetrical

- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : 80
- L.O.R %** : %70



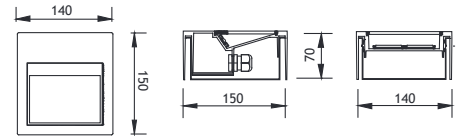
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	457501	3000 K	600 lm	850 lm
12W	457511	3000 K	1020 lm	1460 lm
6W	457502	4000 K	690 lm	977 lm
12W	457512	4000 K	1173 lm	1679 lm



Galvanized Mounting Box



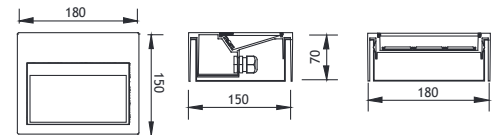
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
12W	457601	3000 K	1020 lm	1460 lm
24W	457611	3000 K	1780 lm	2550 lm
12W	457602	4000 K	1173 lm	1679 lm
24W	457612	4000 K	2047 lm	2932 lm



Galvanized Mounting Box



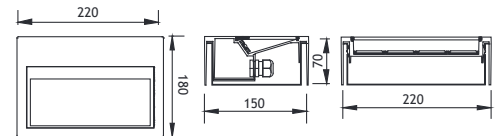
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
18W	457701	3000 K	1200 lm	1700 lm
36W	457711	3000 K	2300 lm	3300 lm
18W	457702	4000 K	1380 lm	1955 lm
36W	457712	4000 K	2645 lm	2932 lm



Galvanized Mounting Box



Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	457801	3000 K	1780 lm	2550 lm
48W	457811	3000 K	3080 lm	4300 lm
24W	457802	4000 K	2047 lm	2932 lm
48W	457812	4000 K	3542 lm	5060 lm



Galvanized Mounting Box



EMFA

MILET ANI WALLWASHER LED SPOTS

Class I IP55 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

EMFA's Ani wallwasher series is specially designed to deliver low-glare lighting to facades, walkways, pathways and driveways with minimal installation depth and narrow trim. The fixture is made of a combination of 316L stainless steel and die cast aluminium. The tilted design reduces the glare of the LED's. The Linear LEDs with special lenses gives excellent wallwashing effect. An anti-slip glass is available upon request.

Body

Die cast aluminium

Gaskets

Silicone

Diffusers

4 mm Tempered Glass

Screws

316L Stainless Steel

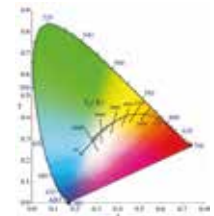
Glands

PG 11

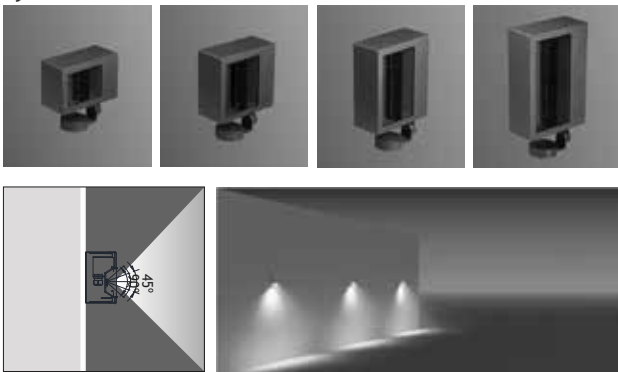


“Customization” is EMFA’s standard

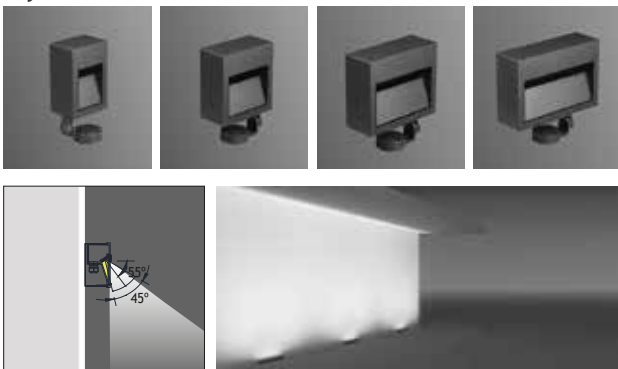
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



Symmetrical



Asymmetrical



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Asym. Glass



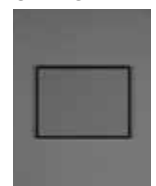
Trenched Glass



Milky Glass



Clear Glass



ANI WALLWASHER LED SPOTS

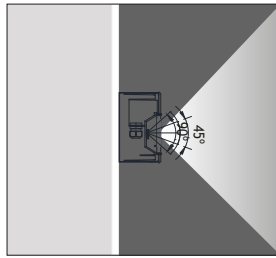
Class I IP55 IK08

Available in any of these RAL colors

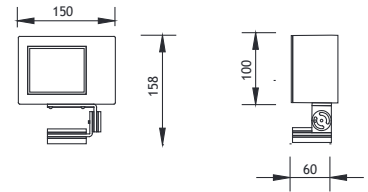
7004	7016	9005	9016	6002	1015
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Symmetrical

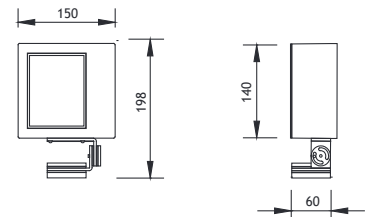
- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : >80
- L.O.R %** : %70



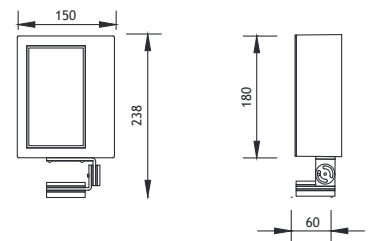
ANI 1			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
6W	454001	3000 K	600 lm	850 lm
12W	454011	3000 K	1020 lm	1460 lm
6W	454002	4000 K	690 lm	977 lm
12W	454012	4000 K	1173 lm	1679 lm



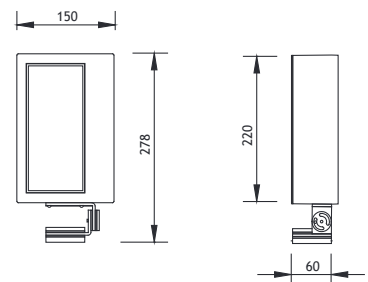
ANI 2			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
12W	454101	3000 K	1020 lm	1460 lm
24W	454111	3000 K	1780 lm	2550 lm
12W	454102	4000 K	1173 lm	1679 lm
24W	454112	4000 K	2047 lm	2932 lm



ANI 3			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
18W	454201	3000 K	1200 lm	1700 lm
36W	454211	3000 K	2300 lm	3300 lm
18W	454202	4000 K	1380 lm	1955 lm
36W	454212	4000 K	2645 lm	2932 lm



ANI 4			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
24W	454301	3000 K	1780 lm	2550 lm
48W	454311	3000 K	3080 lm	4300 lm
24W	454302	4000 K	2047 lm	2932 lm
48W	454312	4000 K	3542 lm	5060 lm



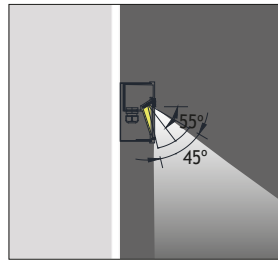
ANI WALLWASHER LED SPOTS

Class I IP55 IK08

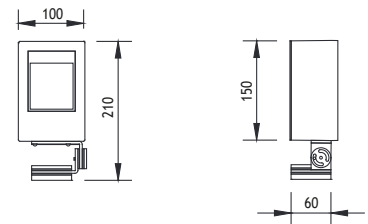
Available in any of these RAL colors

Asymmetrical

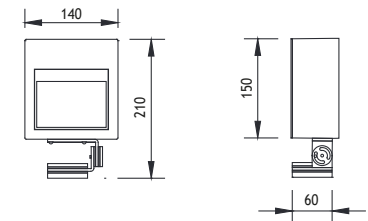
- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : 80
- L.O.R %** : %64



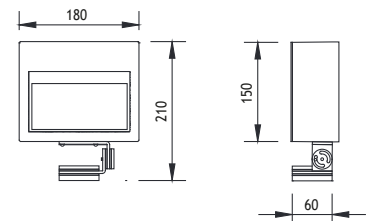
ANI 1				Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin			
6W	454501	3000 K	☀	600 lm	850 lm
12W	454511	3000 K	☀	1020 lm	1460 lm
6W	454502	4000 K	☾	690 lm	977 lm
12W	454512	4000 K	☾	1173 lm	1679 lm



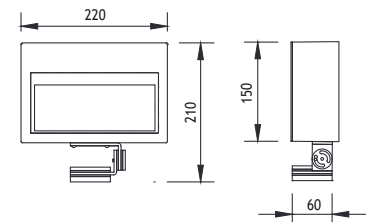
ANI 2				Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin			
12W	454601	3000 K	☀	1020 lm	1460 lm
24W	454611	3000 K	☀	1780 lm	2550 lm
12W	454602	4000 K	☾	1173 lm	1679 lm
24W	454612	4000 K	☾	2047 lm	2932 lm



ANI 3				Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin			
18W	454701	3000 K	☀	1200 lm	1700 lm
36W	454711	3000 K	☀	2300 lm	3300 lm
18W	454702	4000 K	☾	1380 lm	1955 lm
36W	454712	4000 K	☾	2645 lm	2932 lm



ANI 4				Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin			
24W	454801	3000 K	☀	1780 lm	2550 lm
48W	454811	3000 K	☀	3080 lm	4300 lm
24W	454802	4000 K	☾	2047 lm	2932 lm
48W	454812	4000 K	☾	3542 lm	5060 lm



BELKIS APPLIQUES

Class I IP55 IK08

The Belkis Applique series consists of a range of LED, metal halide and halogen sources to deliver the desired light effect to facades and columns. The series is made of die cast aluminium and extrusion aluminium painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.

Body

Aluminium Profile

Cover

Die cast aluminium

Paint

Electrostatic powder

Bracket

Die cast aluminium

Diffusers

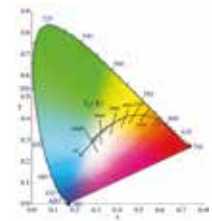
Tempered Glass

Gaskets

Silicone

Connection

IP connection box



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



BELKIS ONE-WAY APPLIQUES

Class I IP55 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

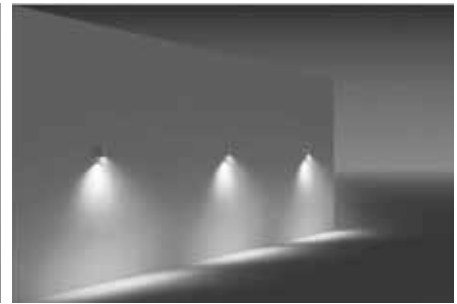
Belkis 1



Belkis 2



Belkis 5

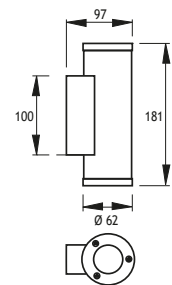


BELKIS 1

Lampholder : G9
 Reflector : 40°
 Diffuser : 8 mm Frosted Glass

HALOGEN 240V 25W

Code No
 340101

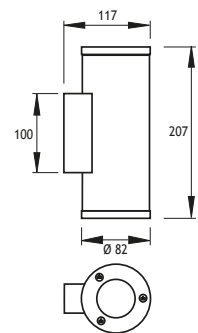


BELKIS 2

Lampholder : Gu10
 Reflector : -
 Diffuser : 8 mm Clear Glass

HALOGEN 240V 50W (25° or 50°)

Code No
 341111

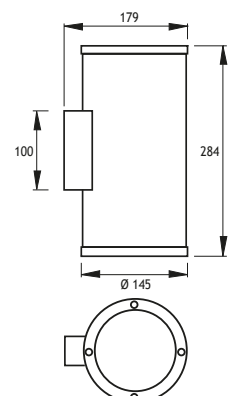


BELKIS 5

Lampholder : E27
 Reflector : -
 Diffuser : 8 mm Clear Glass

HALOGEN PAR 30 75W (10° or 30°)

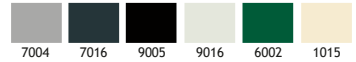
Code No
 342111



BELKIS ONE-WAY LED APPLIQUES

Class I IP55 IK08

Available in any of these RAL colors



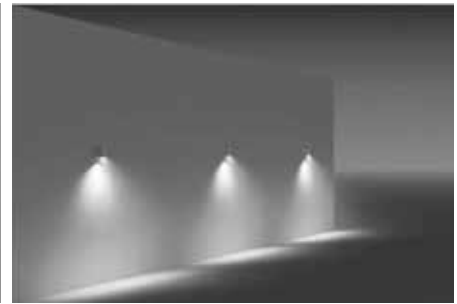
Belkis 1



Belkis 2



Belkis 5

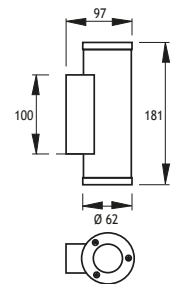


Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

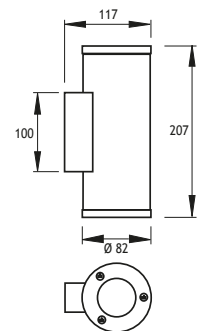
Lens : 25° (10° - 40° or without lens on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

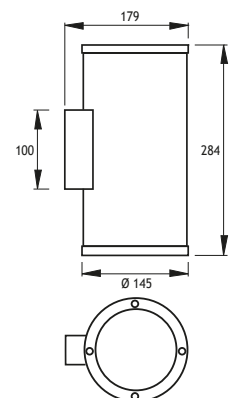
BELKIS 1		Total Lighting Output	Code No
1 x 350 mA (1 W) LED			
☀ Warm White	3000 K	85 lm	425101
☁ Natural White	4500 K	85 lm	425106
☁ Cool White	6000 K	102 lm	425107
🌊 Blue			425102
🔴 Red			425103
🟡 Amber			425104
🟢 Green			425105



BELKIS 2		Total Lighting Output	Code No
3 x 350 mA (3 W) LED			
☀ Warm White	3000 K	255 lm	425121
☁ Natural White	4500 K	255 lm	425126
☁ Cool White	6000 K	270 lm	425127
🌊 Blue			425122
🔴 Red			425123
🟡 Amber			425124
🟢 Green			425125



BELKIS 5		Total Lighting Output	Code No
6 x 350 mA (6 W) LED			
☀ Warm White	3000 K	510 lm	425141
☁ Natural White	4500 K	510 lm	425146
☁ Cool White	6000 K	612 lm	425147
🌊 Blue			425142
🔴 Red			425143
🟡 Amber			425144
🟢 Green			425145





BELKIS TWO-WAY APPLIQUES

Class I IP55 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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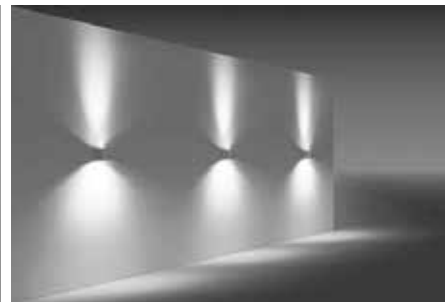
Belkis 1



Belkis 2



Belkis 5

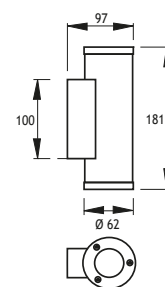


BELKIS 1

Lampholder : 2 x G9
 Reflector : 40°
 Diffuser : 8 mm Frosted Glass

2 x HALOGEN 240V 25W

Code No
 343101

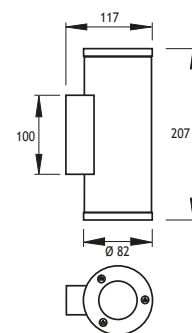


BELKIS 2

Lampholder : 2 x Gu10
 Reflector : -
 Diffuser : 8 mm Frosted Glass

2 x HALOGEN 240V 50W (25° or 50°)

Code No
 344111

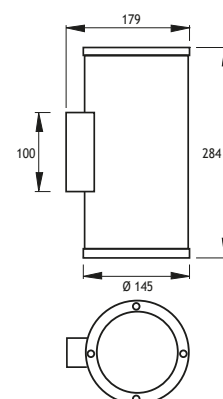


BELKIS 5

Lampholder : 2 x E27
 Reflector : -
 Diffuser : 8 mm Frosted Glass

2 x HALOGEN PAR 30 75W (10° or 30°)

Code No
 345111



BELKIS TWO-WAY LED APPLIQUES

Class I IP55 IK08

Available in any of these RAL colors

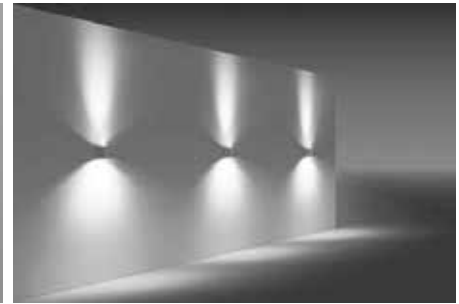
Belkis 1



Belkis 2



Belkis 5

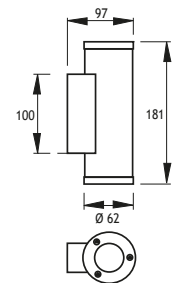


Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

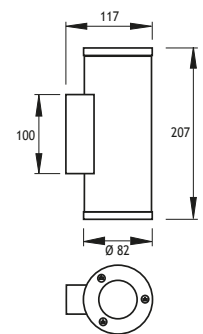
Lens : 25° (10° - 40° or without lens on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

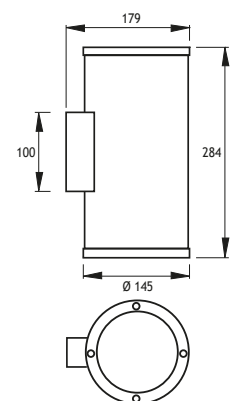
BELKIS 1		Total Lighting Output	Code No
2 x 1 x 350 mA (2 W) LED			
☀ Warm White	3000 K	85 lm	425111
☁ Natural White	4500 K	85 lm	425116
☀ Cool White	6000 K	102 lm	425117
🌊 Blue			425112
🔴 Red			425113
🟡 Amber			425114
🟢 Green			425115



BELKIS 2		Total Lighting Output	Code No
2 x 3 x 350 mA (6 W) LED			
☀ Warm White	3000 K	255 lm	425131
☁ Natural White	4500 K	255 lm	425136
☀ Cool White	6000 K	270 lm	425137
🌊 Blue			425132
🔴 Red			425133
🟡 Amber			425134
🟢 Green			425135



BELKIS 5		Total Lighting Output	Code No
2 x 6 x 350 mA (12 W) LED			
☀ Warm White	3000 K	510 lm	425151
☁ Natural White	4500 K	510 lm	425156
☀ Cool White	6000 K	612 lm	425157
🌊 Blue			425152
🔴 Red			425153
🟡 Amber			425154
🟢 Green			425155

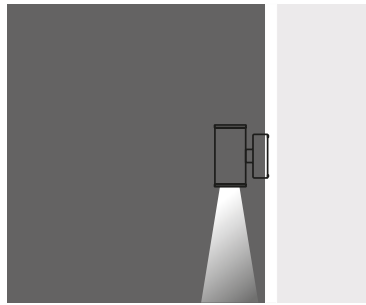
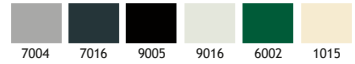




BELKIS 5

ONE-WAY APPLIQUES WITH GEARBOX Class I IP55 IK08

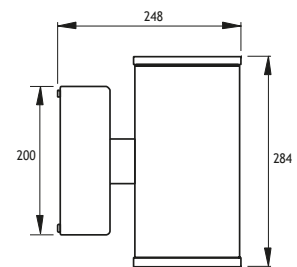
Available in any
of these RAL colors



Lampholder : G12
Reflector : 15°, 55°
Diffuser : 8 mm Clear Glass

METAL HALIDE 35W

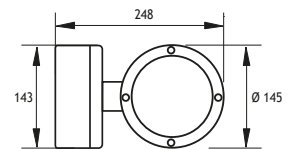
Code No
346401



Lampholder : G12
Reflector : 15°, 55°
Diffuser : 8 mm Clear Glass

METAL HALIDE 70W

Code No
346411



Lampholder : Gx8.5
Reflector : -
Diffuser : 8 mm Clear Glass

METAL HALIDE CDM-R111 35W
(10° or 40°)

Code No
346421

Lampholder : Gx8.5
Reflector : -
Diffuser : 8 mm Clear Glass

METAL HALIDE CDM-R111 70W
(10° or 40°)

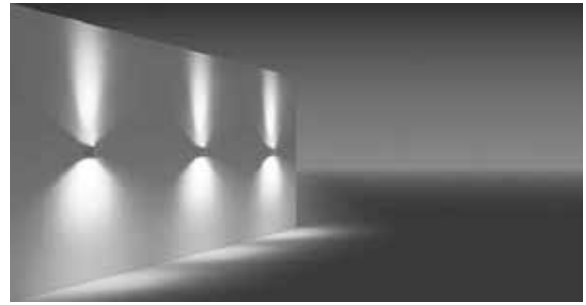
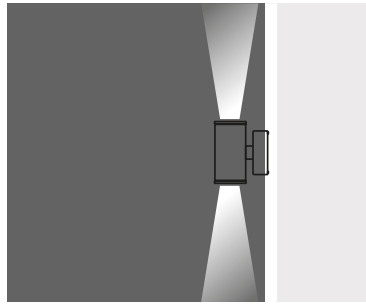
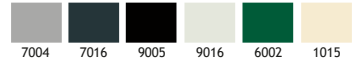
Code No
346431

BELKIS 5

TWO-WAY APPLIQUES WITH GEARBOX

Class I IP55 IK08

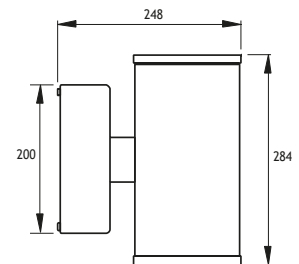
Available in any
of these RAL colors



Lampholder : 2 x G12
 Reflector : 15°, 55°
 Diffuser : 8 mm Clear Glass

2 x METAL HALIDE 35W

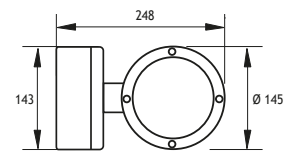
Code No
346501



Lampholder : 2 x G12
 Reflector : 15°, 55°
 Diffuser : 8 mm Clear Glass

2 x METAL HALIDE 70W

Code No
346511



Lampholder : 2 x Gx8.5
 Reflector : -
 Diffuser : 8 mm Clear Glass

2 x METAL HALIDE CDM-R111 35W
 (10° or 40°)

Code No
346521

Lampholder : 2 x Gx8.5
 Reflector : -
 Diffuser : 8 mm Clear Glass

2 x METAL HALIDE CDM-R111 70W
 (10° or 40°)

Code No
346531

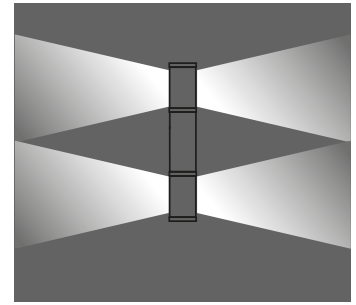
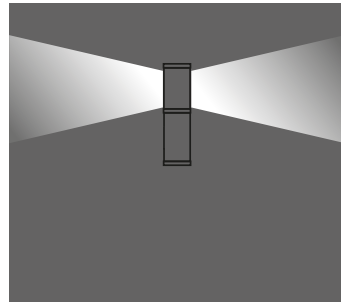


BELKIS 1 APPLIQUES

Class I IP55

Available in any of these RAL colors

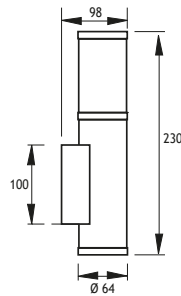
7004	7016	9005	9016	6002	1015



Lampholder : G24 q - 1
 Reflector : -
 Diffuser : Acrylic Pipe
 Transformer : Electronic

COMPACT FLUO. 13W

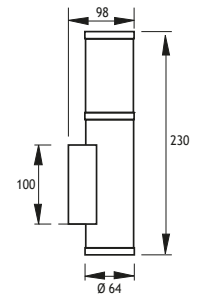
Code No
293301



Lampholder : 2 x G24 q - 1
 Reflector : -
 Diffuser : Acrylic Pipe
 Transformer : Electronic

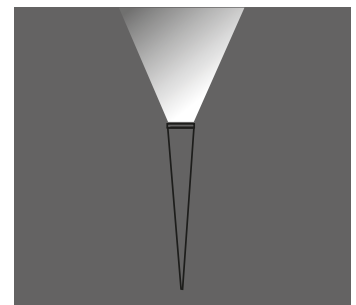
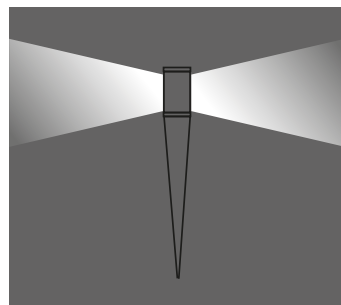
2 x COMPACT FLUO. 13W

Code No
293401



BELKIS 1 TORCH APPLIQUES

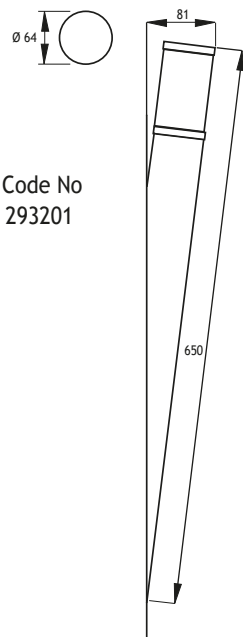
Class I IP44



Lampholder : G24 q - 1
 Reflector : -
 Diffuser : Acrylic Pipe
 Transformer : Electronic

COMPACT FLUO. 13W

Code No
293201

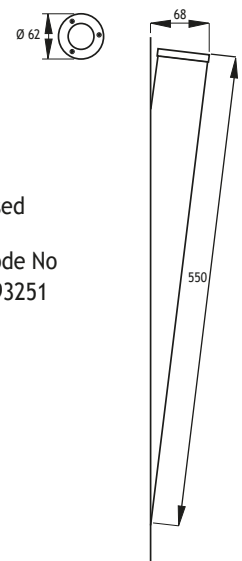


Lampholder : Gu4
 Reflector : -
 Diffuser : Acrylic Pipe

Transformer is not included
 Remote transformer should be used

HALOGEN 12V 20W 38°

Code No
293251





SQUARE LED APPLIQUE

Class I IP65

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

Body
Die cast aluminium

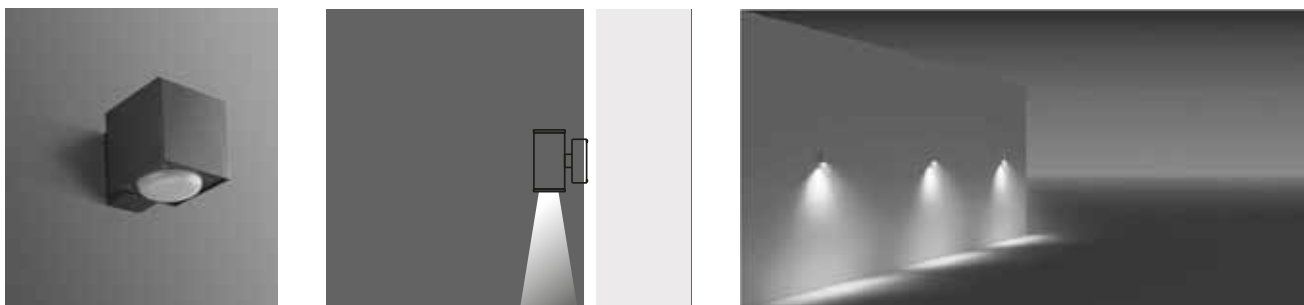
Paint
Electrostatic powder

Bracket
Die cast aluminium

Diffuser
Tempered Glass or acrylic

Gaskets
Silicone

Connection
IP connection box

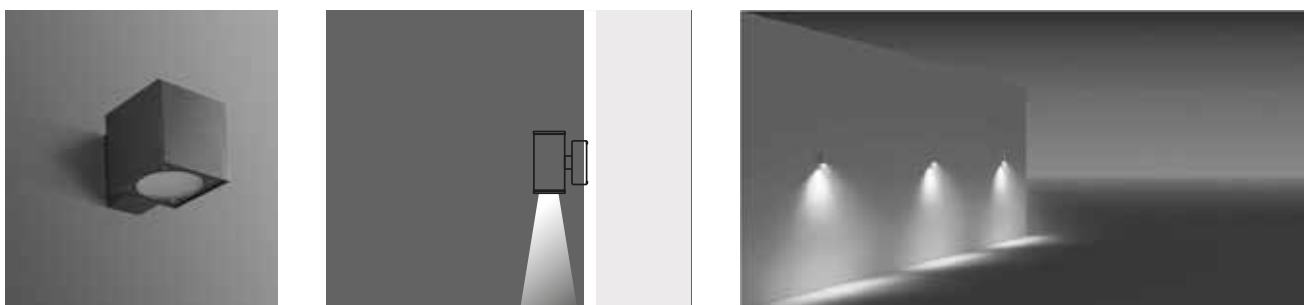
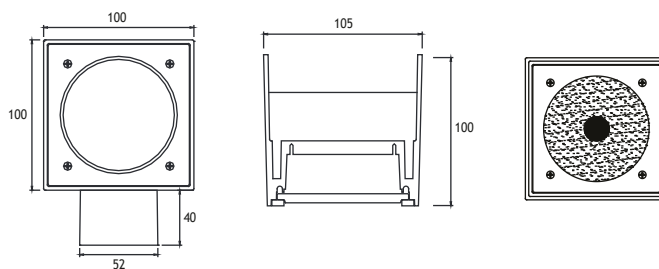


Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

DOM LED		Total Lighting Output	Code No
320 mA (11 W) LED			
☀ Warm White	3000 K	925 lm	434001
☾ Natural White	4000 K	975 lm	434002

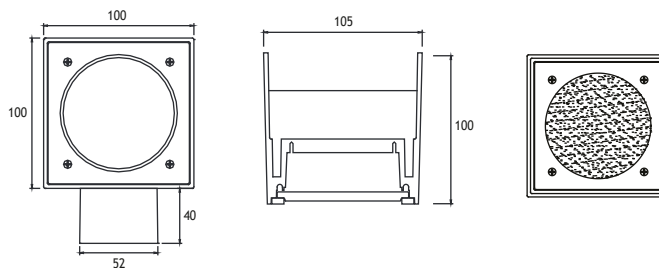


Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

OSRAM SMD LED		Total Lighting Output	Code No
350 mA (6W) LED			
☀ Warm White	3000 K	640 lm	434011
☾ Natural White	4000 K	640 lm	434012





SQUARE LED APPLIQUE

Class I IP65

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

Body
Die cast aluminium

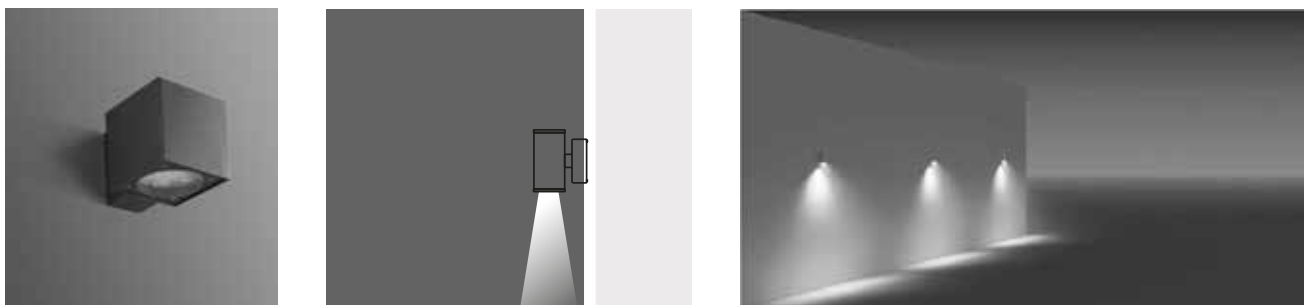
Paint
Electrostatic powder

Bracket
Die cast aluminium

Diffuser
Tempered Glass or acrylic

Gaskets
Silicone

Connection
IP connection box

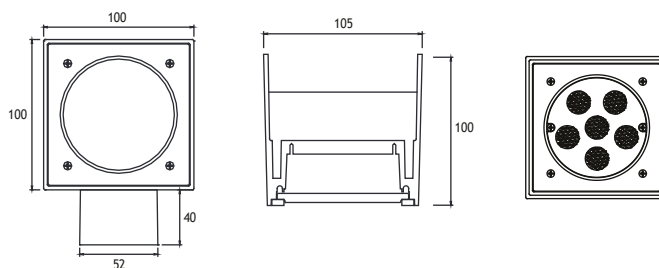


Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

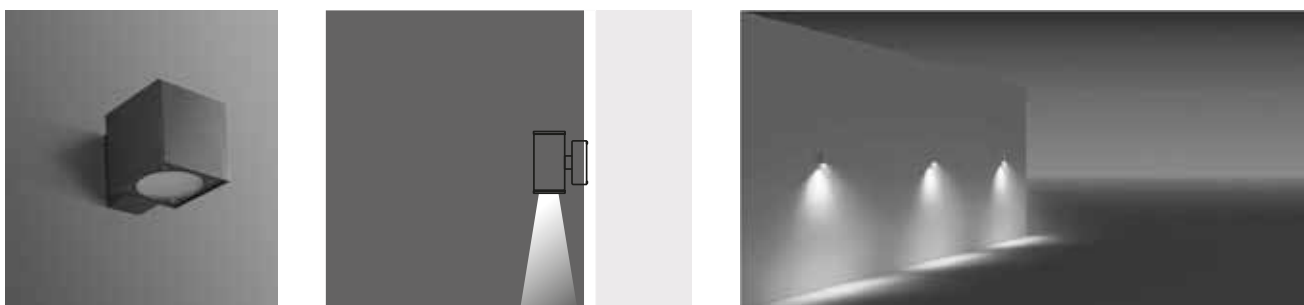
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



POWERLED		Total Lighting Output	Code No
350 mA (6W) LED			
☀ Warm White	3000 K	510 lm	434021
☾ Natural White	4500 K	510 lm	434022
☁ Cool White	6000 K	612 lm	434023

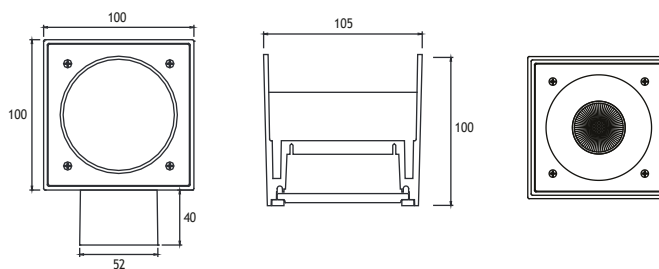


Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 20°, 32°, 52°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



Multichip LED		Total Lighting Output	Code No
350 mA (9W)			
☀ Warm White	3000 K	672 lm	434031
☾ Natural White	4000 K	756 lm	434032

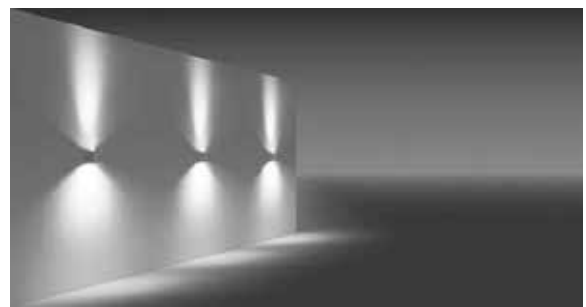
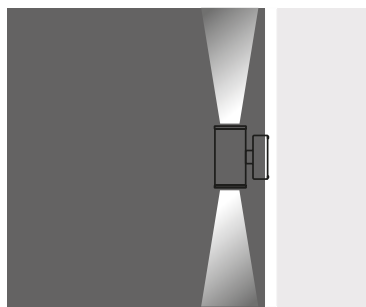
PEDESA ROUND APPLIQUES

Class I IP55

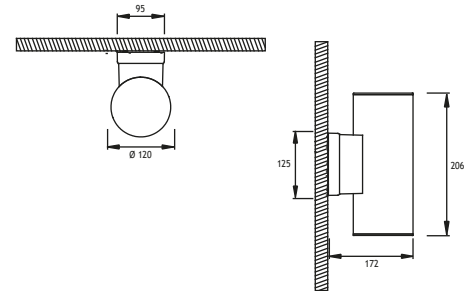
Available in any of these RAL colors

7004	7016	9005	9016	6002	1015

- Body**
- Aluminium profile
- Paint**
- Electrostatic powder
- Bracket**
- Die cast aluminium
- Diffusers**
- Acrylic
- Gaskets**
- Silicone
- Connection**
- IP connection box



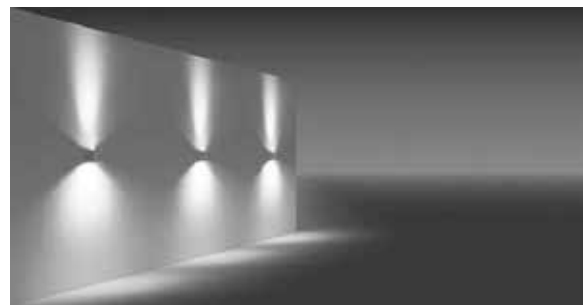
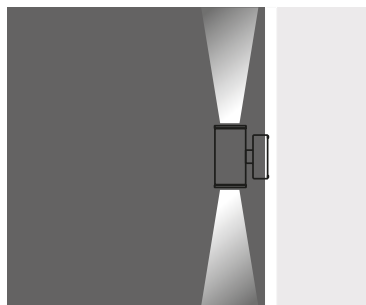
- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Diffuser** : Acrylic
- Cable** : Potted 5 m 3x0,75 H03 VV-F



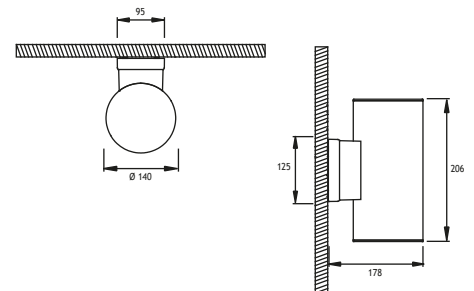
PEDESA 1 ROUND APPLIQUE

320 mA (11W) LED

		Code No
	Warm White 3000 K	504001
	Natural White 4000 K	504002



- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Diffuser** : Acrylic
- Cable** : Potted 5 m 3x0,75 H03 VV-F



PEDESA 2 ROUND APPLIQUE

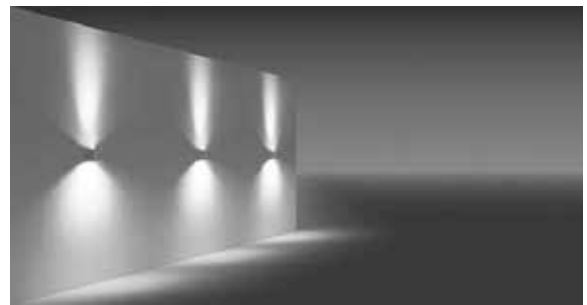
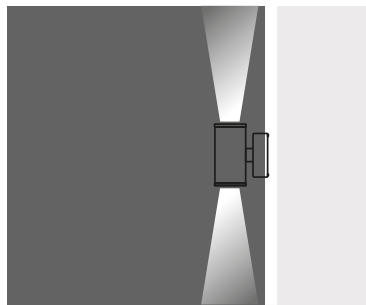
320 mA (11W) LED

		Code No
	Warm White 3000 K	504011
	Natural White 4000 K	504012

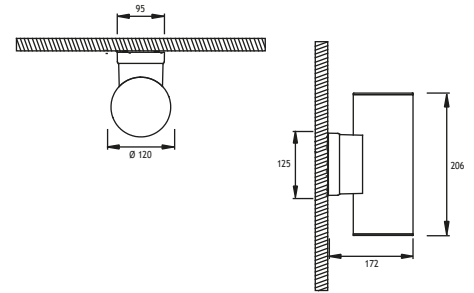
PEDESA ROUND ACRYLIC APPLIQUES

Class I IP55

Body
 Acrylic
Paint
 Electrostatic powder
Bracket
 Die cast aluminium
Diffusers
 Acrylic
Gaskets
 Silicone
Connection
 IP connection box



Voltage : 240V A.C with integrated driver
 (24V AC or DC on request)
Diffuser : Acrylic
Cable : Potted 5 m 3x0,75 H03 VV-F

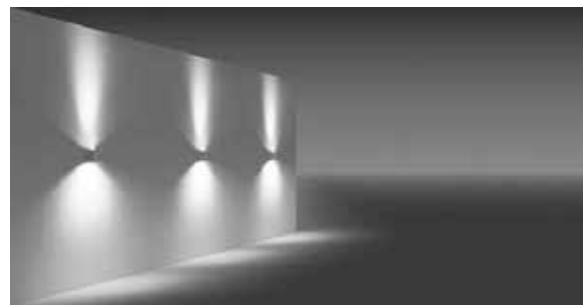
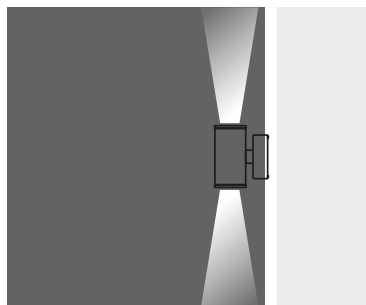


PEDESA 1 ROUND APPLIQUE

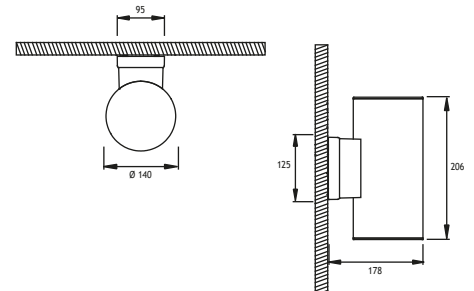
320 mA (11W) LED

Code No

☀ Warm White	3000 K	504021
☾ Natural White	4000 K	504022



Voltage : 240V A.C with integrated driver
 (24V AC or DC on request)
Diffuser : Acrylic
Cable : Potted 5 m 3x0,75 H03 VV-F



PEDESA 2 ROUND APPLIQUE

320 mA (11W) LED

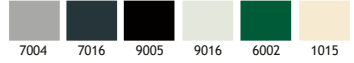
Code No

☀ Warm White	3000 K	504031
☾ Natural White	4000 K	504032

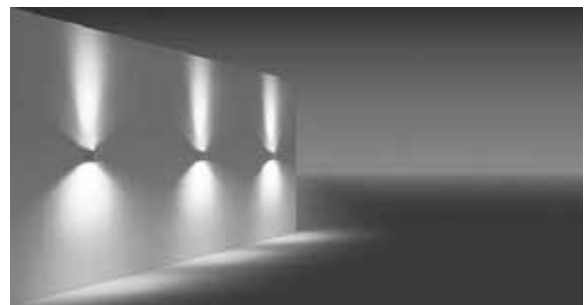
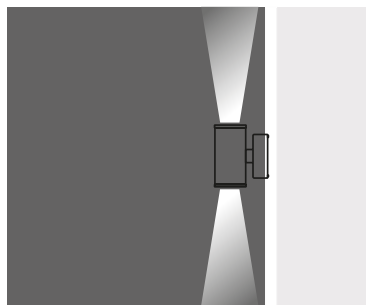
PEDESA SQUARE APPLIQUES

Class I IP55

Available in any of these RAL colors



- Body**
Aluminium profile
- Paint**
Electrostatic powder
- Bracket**
Die cast aluminium
- Diffusers**
Acrylic
- Gaskets**
Silicone
- Connection**
IP connection box

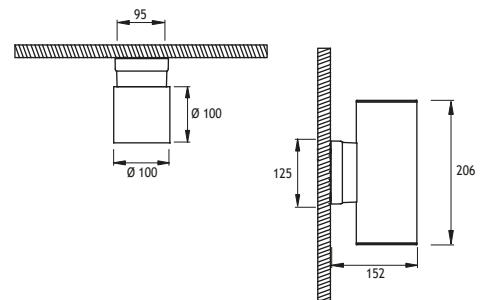


- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Diffuser** : Acrylic
- Cable** : Potted 5 m 3x0,75 H03 VV-F

ALUMINIUM PEDESA SQUARE APPLIQUE

320 mA (11W) LED

- | | | Code No |
|-----------------|--------|---------|
| ☀ Warm White | 3000 K | 504041 |
| ☾ Natural White | 4000 K | 504042 |



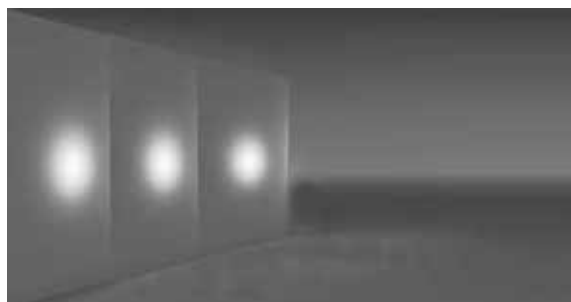
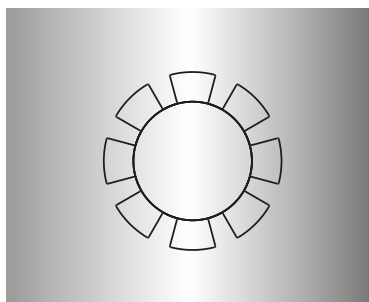
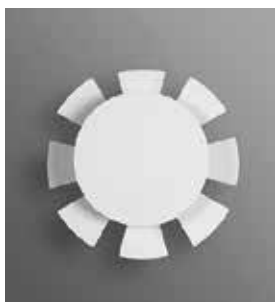
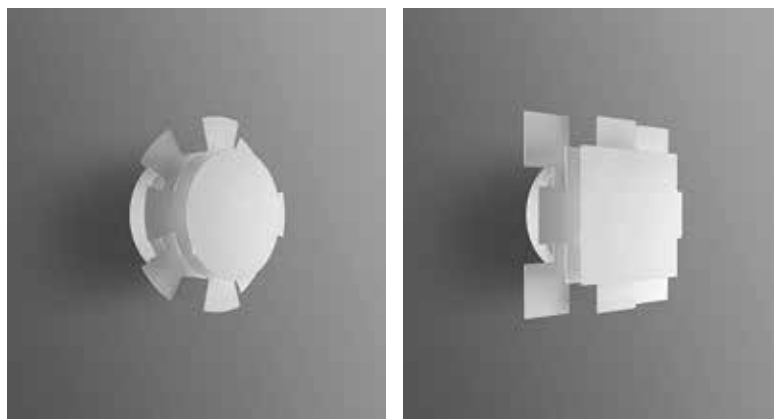
IPSOS LED APPLIQUES

Class I IP44

Available in any of these RAL colors

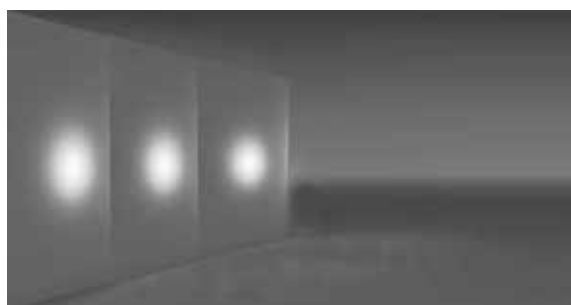
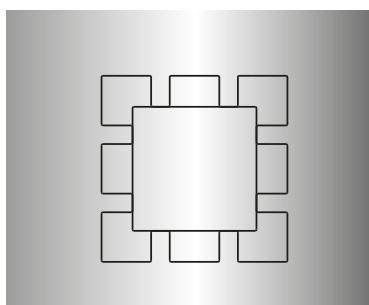
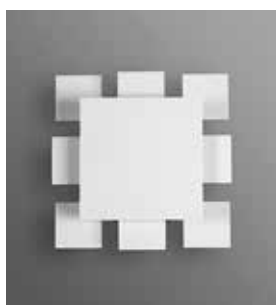
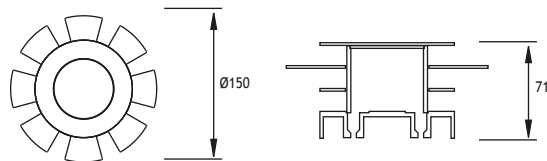
7004	7016	9005	9016	6002	1015
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Body
Steel
Cover
Steel
Paint
Electrostatic powder paint
Diffuser
Acrylic



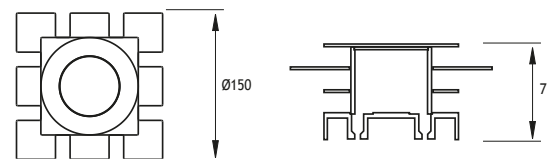
Voltage : 240V A.C with integrated driver
(24V AC or DC on request)
Diffuser : Polycarbonate
Cable : Potted 5 m 3x0,75 H03 VV-F

Code No
320 mA (11W) LED 3000 K 131001



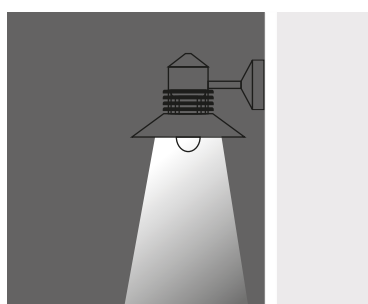
Voltage : 240V A.C with integrated driver
(24V AC or DC on request)
Diffuser : Polycarbonate
Cable : Potted 5 m 3x0,75 H03 VV-F

Code No
320 mA (11W) LED 3000 K 131011



SATURN APPLIQUES

Inner Body
 Die cast aluminium
Rings
 Aluminium plate
Diffuser
 Polycarbonate
Gaskets
 Silicone
Head & Reflector
 Anodized aluminium

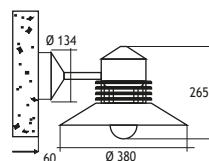


SATURN 1

Lampholder : E27

INCANDESCENT 60W

Code No
525101



Lampholder : E27

ELECTRONIC FLUO. DEL 23W

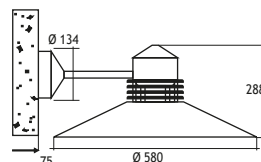
Code No
525111

SATURN 2

Lampholder : G24 d-3

FLUO. 26W

Code No
525201

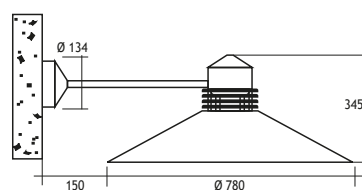


SATURN 3

Lampholder : G24 q-4

FLUO. 42W

Code No
525301



 Spots



SQUARE LED SPOT WITH TIR LENS LED DRIVER IN HEAD Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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The Square Spot series consists of a range of LED, metal halide, fluorescent and halogen sources to deliver the desired light effect to facades, columns, bridges, monuments, signs, and trees. The series is made of die cast aluminium and painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment (grey, anthracite, black, white, green and beige). The spots can be mounted on surfaces, in the ground or concrete with a picket, or on a pole with the addition of a simple adaptor. Two adaptors are available for two sizes of poles. Once installed, the special joint system allows for 100° horizontal and 180° vertical adjustment. The gearboxes are either filled with cast resin and have a pre-potted cable for IP67. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 10 to 30 degrees are available to choose from to achieve the desired the light effect.

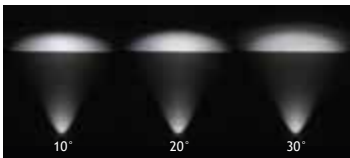


- Body**
- Die cast aluminium
- Paint**
- Electrostatic powder
- Gaskets**
- Silicone
- Diffusers**
- Tempered Glass

Picket



Honeycomb



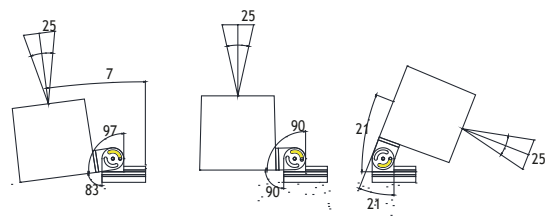
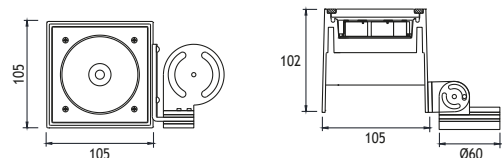
“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

6W or 12W COB LED

		6W	12W
☀ Warm White	3000 K	434101	434111
☀ Natural White	4000 K	434102	434112

- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



BELKIS SPOTS

The Belkis Spot series consists of a range of LED, metal halide, fluorescent and halogen sources to deliver the desired light effect to facades, columns, bridges, monuments, signs, and trees. The series is made of die cast aluminium and painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment (grey, anthracite, black, white, green and beige). The spots can be mounted on surfaces, in the ground or concrete with a picket, or on a pole with the addition of a simple adaptor. Two adaptors are available for two sizes of poles. Once installed, the special joint system allows for 100° horizontal and 180° vertical adjustment. The gearboxes are either filled with cast resin and have a pre-potted cable for IP67, or have a stainless steel cover and cable glands for IP55. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.

Body

Die cast aluminium

Paint

Electrostatic powder

Gearbox Cover

Stainless steel

Gaskets

Silicone

Diffusers

Tempered Glass



“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

Accessories



Picket and pole mounting options are available for most spots



Visor for Belkis Spots

Electrostatic Powder Painted Aluminium

	Code No
Belkis 1	953531
Belkis 2	953532
Belkis 3	953533
Belkis 4	953534
Belkis 5	953535
Belkis 6	953536



Steel Arm

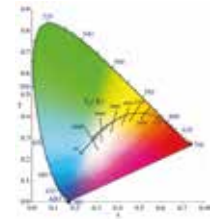
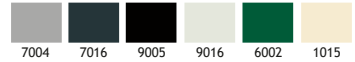
The painted steel arm is available for all Belkis Spot fixtures.



Honeycomb Louvre

	Code No
Belkis 1	953521
Belkis 2	953522
Belkis 3	953523
Belkis 4	953524
Belkis 5	953525

Available in any of these RAL colors



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

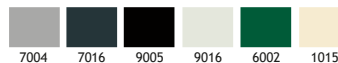
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted to the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

BELKIS MINI LED SPOT

LED DRIVER IN HADE

Class I IP67 IK10

Available in any of these RAL colors



“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

Body

Die cast aluminium

Paint

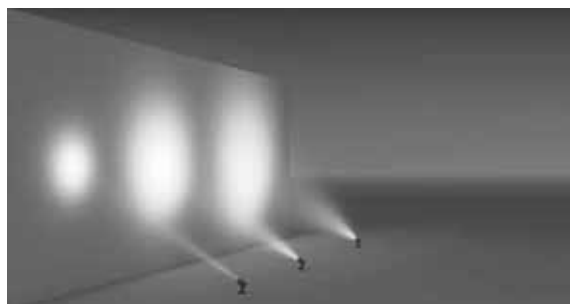
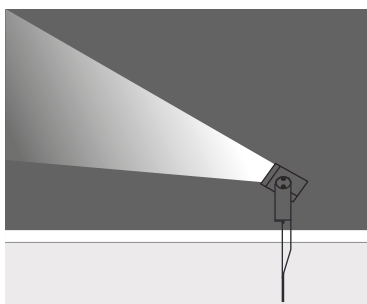
Electrostatic powder

Gaskets

Silicone

Diffusers

Tempered Glass



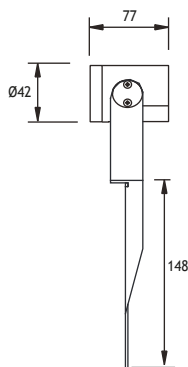
1 x 350 mA (1 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

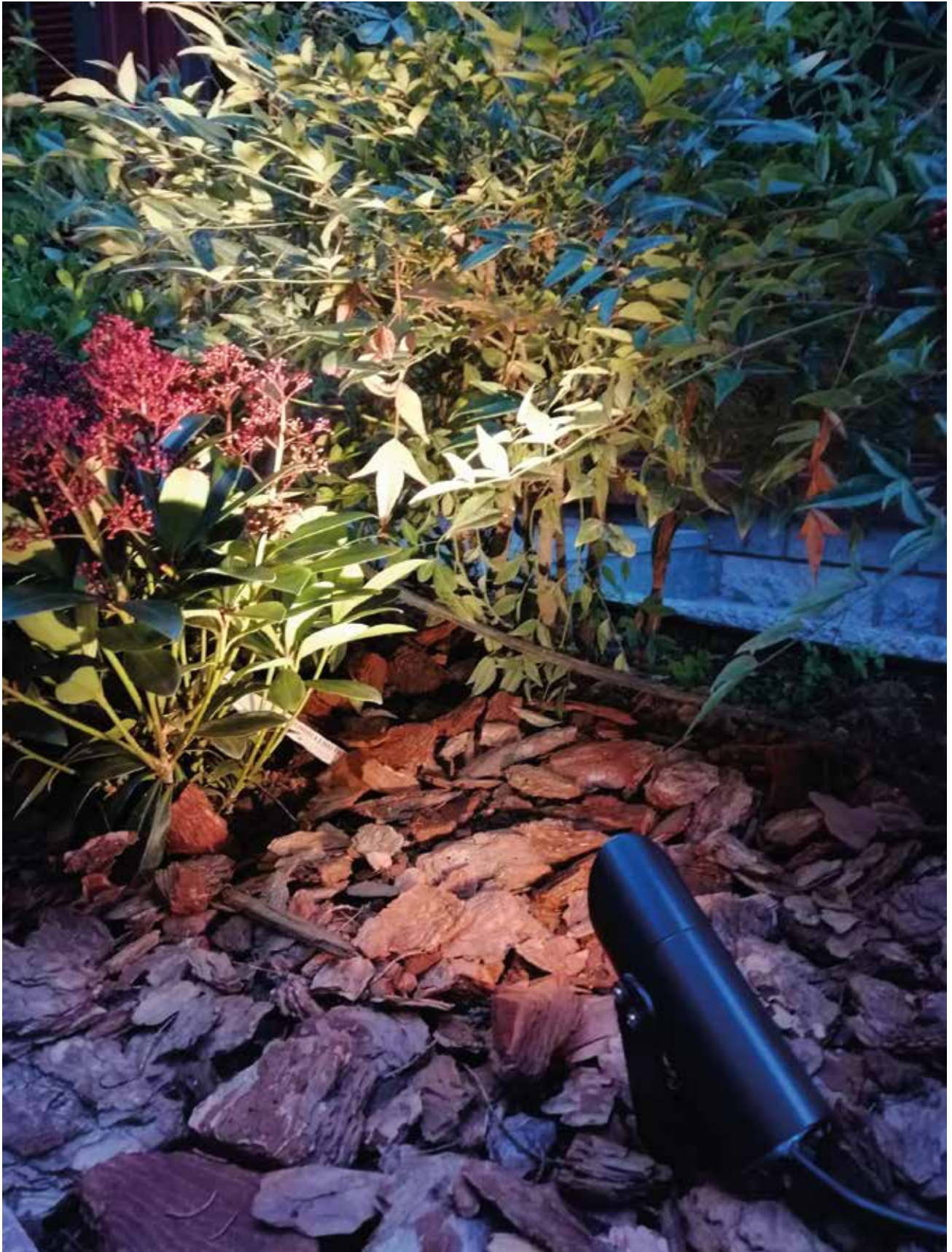


Visor for Belkis Spot



Picket for Belkis Spots

	Color	Temp	Total Lighting Output	Code No	
				1W	3W
☀	Warm White	3000 K	85 lm	297101	297111
☀	Natural White	4500 K	85 lm	297102	297112
☀	Cool White	6000 K	102 lm	297103	297113
🌊	Blue			297104	297114
🔴	Red			297105	297115
🟡	Amber			297106	297116
🟢	Green			297107	297117



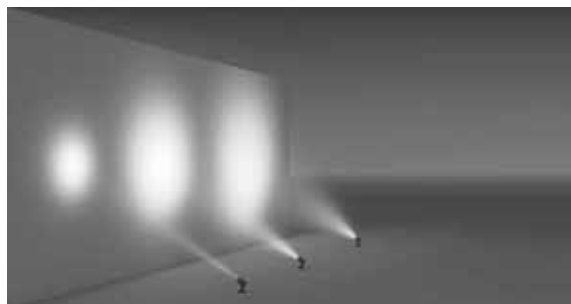
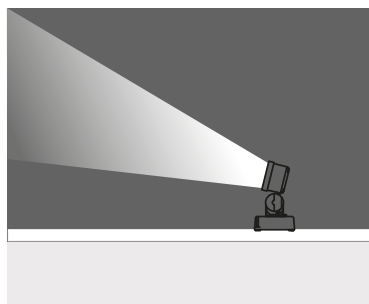
BELKIS 1 LED SPOT

LED DRIVER IN BASE

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



For mounting on surface or in ground with picket or on pole (with adaptor)

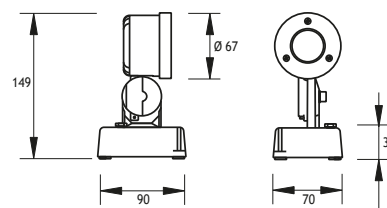
1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

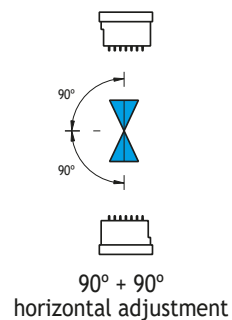
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



POWERLED

	Total Lighting Output	Total Lighting Output		Code No	
		1W	3W	1W	3W
☀ Warm White	3000 K	85 lm	225 lm	330211	330221
☁ Natural White	4500 K	85 lm	225 lm	330216	330222
☀ Cool White	6000 K	102 lm	270 lm	330217	330223
🌊 Blue				330212	330224
🔴 Red				330213	330225
🟡 Amber				330214	330226
🟢 Green				330215	330227



Picket



Code No: 953805

Visor



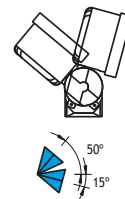
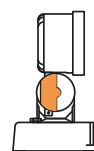
Code No: 953531

Honeycomb

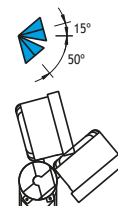
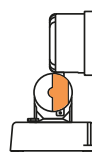


Code No: 953521

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



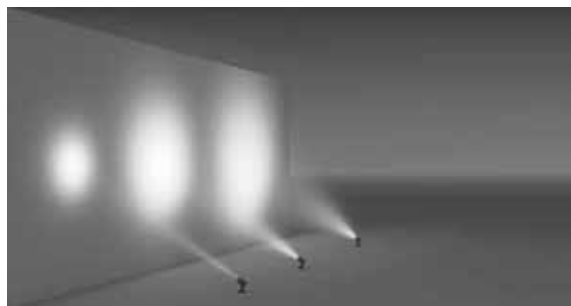
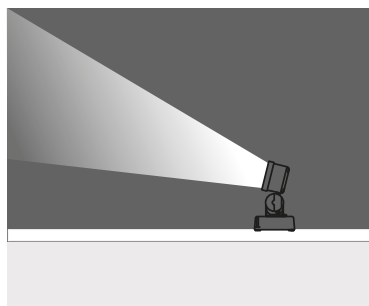
BELKIS 1 LED SPOT

LED DRIVER IN BASE

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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For mounting on surface or in ground with picket or on pole (with adaptor)

1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

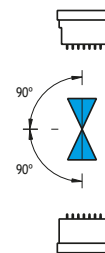
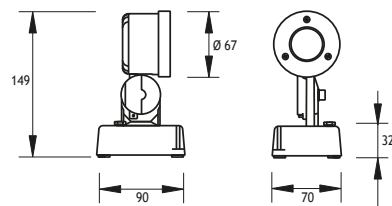
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

Gearbox : Equipped with 1xPG 11 cable gland and stainless steel cover

Available with 2xPG 11 cable gland for through cabling on request



90° + 90°
horizontal adjustment

POWERLED

	Total Lighting Output	Code No			
		1W	3W	1W	3W
☀ Warm White	3000 K	85 lm	225 lm	330231	330241
☁ Natural White	4500 K	85 lm	225 lm	330232	330242
☁ Cool White	6000 K	102 lm	270 lm	330233	330243
🌊 Blue				330234	330244
🔴 Red				330235	330245
🟡 Amber				330236	330246
🟢 Green				330237	330247

Picket



Code No: 953805

Visor



Code No: 953531

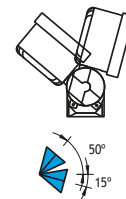
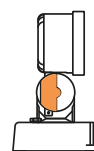
Honeycomb



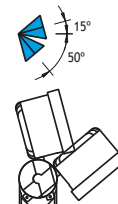
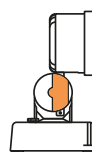
Code No: 953521



During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.

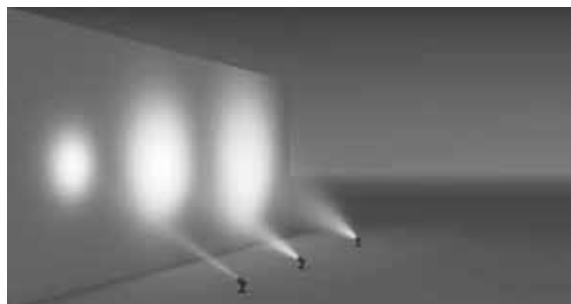
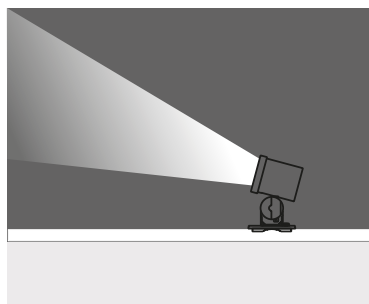
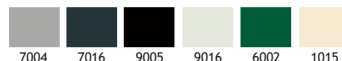


BELKIS 1 LED SPOT

LED DRIVER IN HEAD

Class I IP67 IK10

Available in any of these RAL colors



For mounting on surface or in ground with picket or on pole (with adaptor)

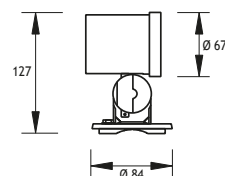
1 x 350 mA (1 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

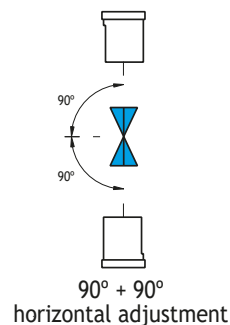
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



POWERLED

		Total Lighting Output	Code No
☀️ Warm White	3000 K	85 lm	330201
☁️ Natural White	4500 K	85 lm	330206
❄️ Cool White	6000 K	102 lm	330207
🟦 Blue			330202
🟥 Red			330203
🟡 Amber			330204
🟢 Green			330205



Picket



Code No: 953805

Visor



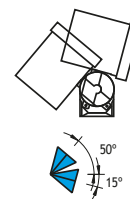
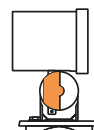
Code No: 953531

Honeycomb

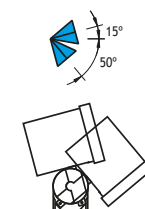
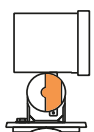


Code No: 953521

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.

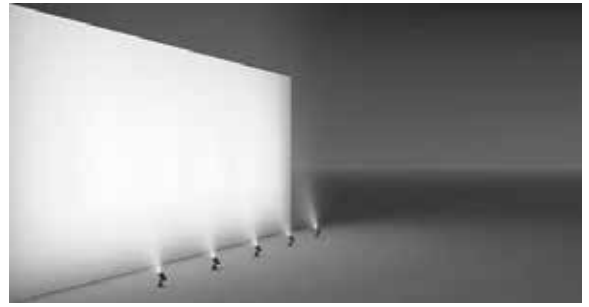
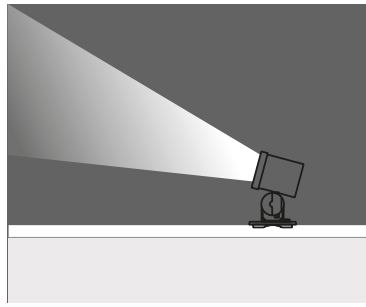


BELKIS 1 LOW VOLTAGE HALOGEN SPOTS

Class III IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



WITH CENTRAL ARM & GEAR BOX

For mounting on surface or in ground with picket or on pole (with adaptor)

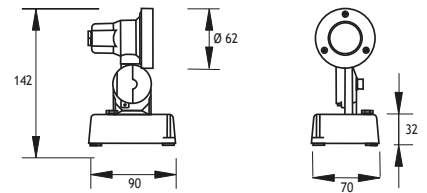
Lampholder : Gu4

Reflector : -

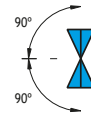
Diffuser : 8 mm Glass

Cable : Potted 5 m 3x0,75 H03 VV-F

Transformer potted in base.



HALOGEN 12V 20W (10° or 38°) Code No 330121



90° + 90° horizontal adjustment

Picket



Code No: 953805

Visor



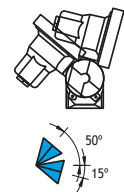
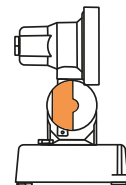
Code No: 953531

Honeycomb

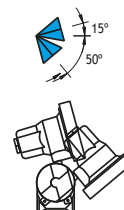
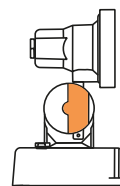


Code No: 953521

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.

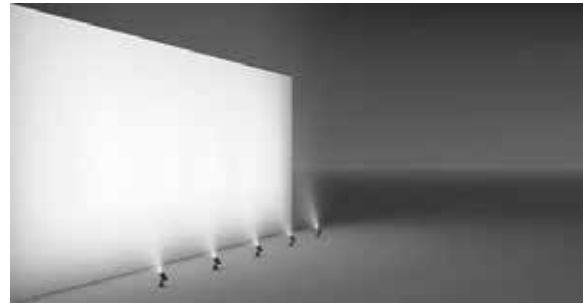
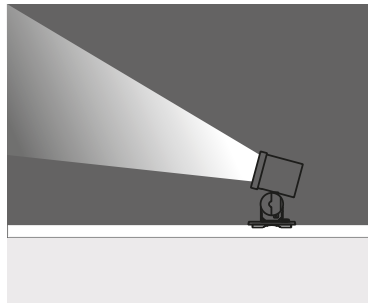


BELKIS 1 LOW VOLTAGE HALOGEN SPOTS

Class III IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015



WITH SIDE ARM

For mounting on surface or in ground with picket

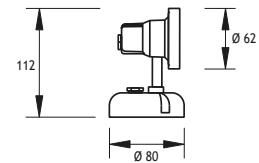
Lampholder : Gu4

Reflector : -

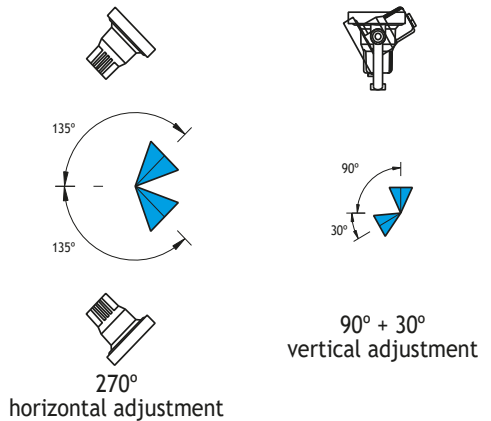
Diffuser : 8 mm Glass

Transformer is not included.

Remote transformer should be used.



HALOGEN 12V 20W (10° or 38°) Code No 330101



Picket



Code No: 953805

Visor



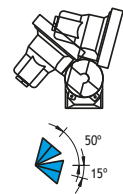
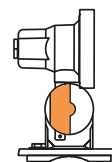
Code No: 953531

Honeycomb

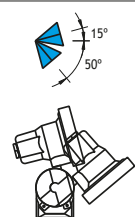
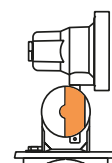


Code No: 953521

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



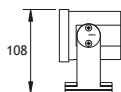
BELKIS Mounting Accessories for BELKIS 1 SPOTS

Alternate Arms (to aluminium side or central arms)

Electrostatic powder painted steel

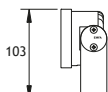
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953801



Vertically adjustable $\pm 45^\circ$
Horizontally adjustable $\pm 60^\circ$

CODE NO 953802



Only vertically adjustable $\pm 45^\circ$

CODE NO 953803



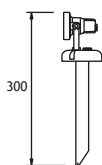
Vertically adjustable $\pm 45^\circ$
Horizontally adjustable $\pm 90^\circ$

Pickets

Electrostatic powder painted steel

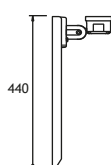
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953804



Pickets for round base
300 mm

CODE NO 953805



Picket for gear box base
440 mm

CODE NO 953806



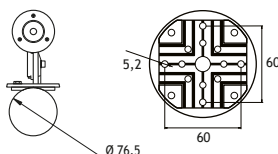
Picket mounted on body
459 mm

Pole

Die cast aluminium

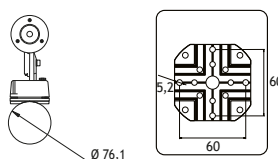
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953807



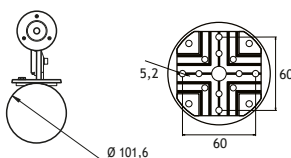
Pole adaptor in place of round base
For 76.1 mm (3 inch) pole thickness

CODE NO 953808



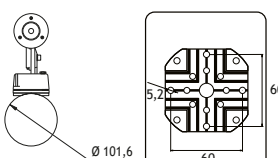
Pole adaptor for gear box
For 76.1 mm (3 inch) pole thickness

CODE NO 953809

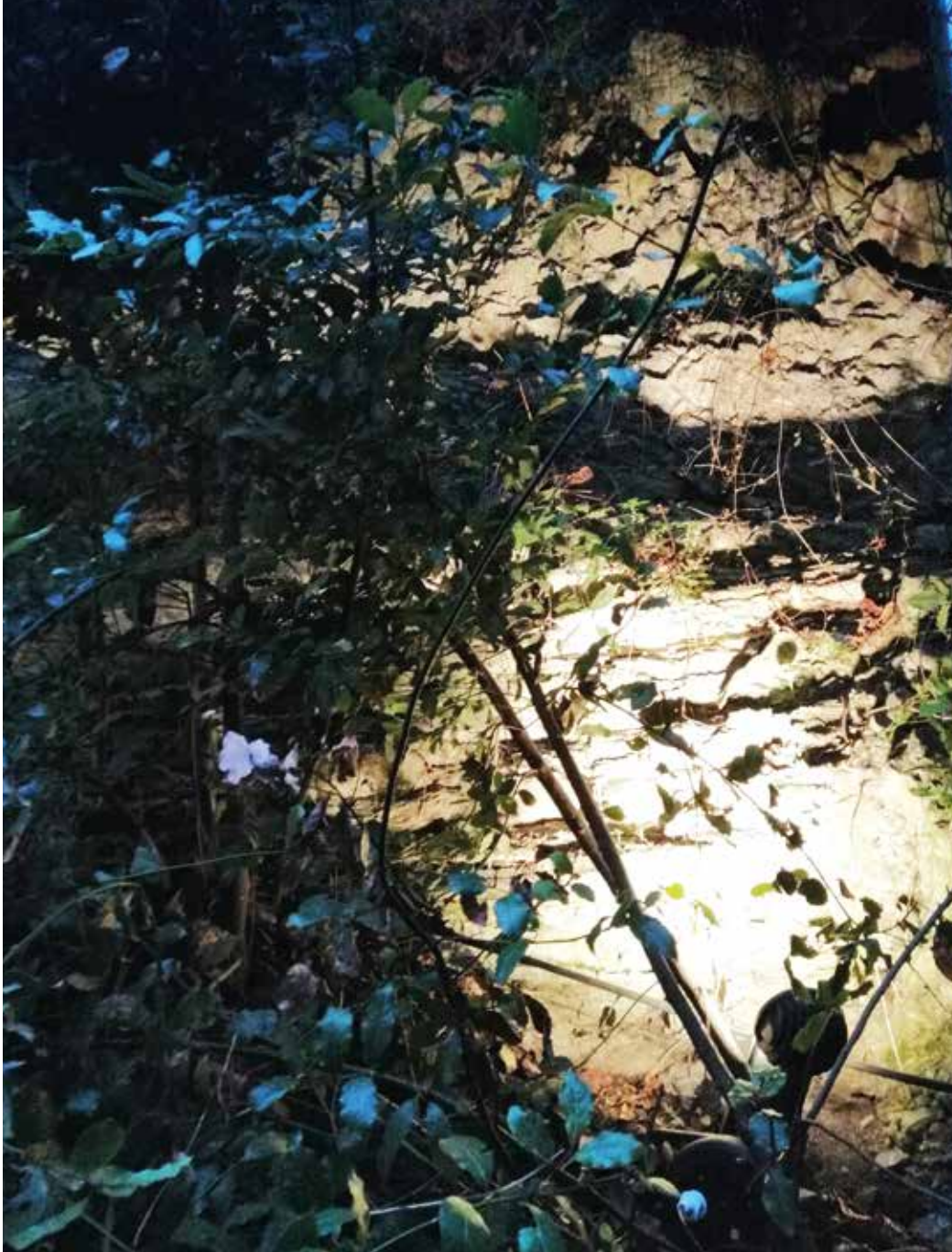


Pole adaptor in place of round base
For 101.6 mm (4 inch) pole thickness

CODE NO 953810



Pole adaptor for gear box
For 101.6 mm (4 inch) pole thickness



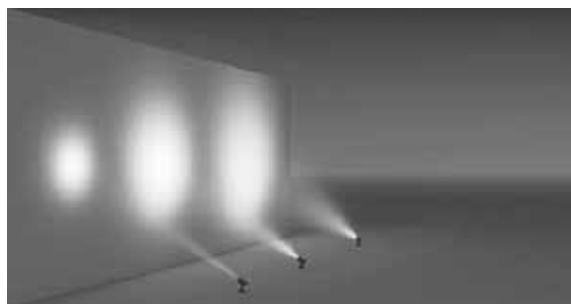
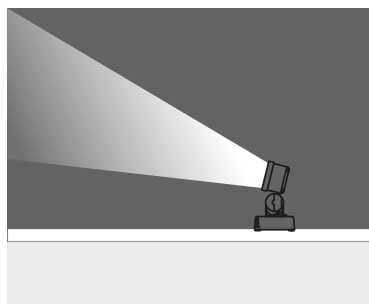
BELKIS 2 LED SPOTS

LED DRIVER IN BASE

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



For mounting on surface or in ground with picket or on pole (with adaptor)

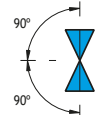
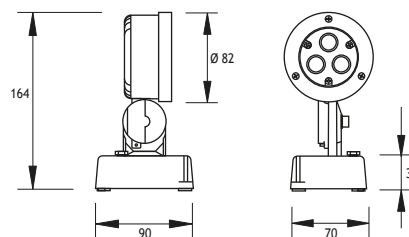
3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



90° + 90°
horizontal adjustment

POWERLED

	Total Lighting Output	Total Lighting Output		Code No	
		3W	9W	3W	9W
☀ Warm White	3000 K	255 lm	675 lm	331211	331231
☁ Natural White	4500 K	255 lm	675 lm	331216	331232
☀ Cool White	6000 K	306 lm	810 lm	331217	331233
🌊 Blue				331212	331234
🔴 Red				331213	331235
🟡 Amber				331214	331236
🟢 Green				331215	331237

Picket



Code No: 953825

Visor



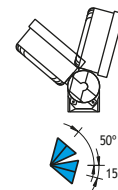
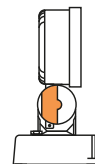
Code No: 953532

Honeycomb

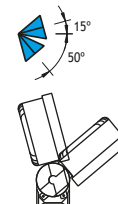
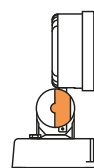


Code No: 953522

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.





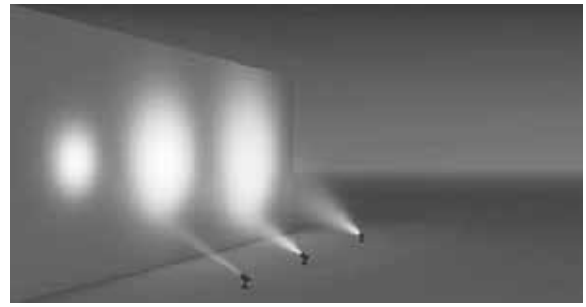
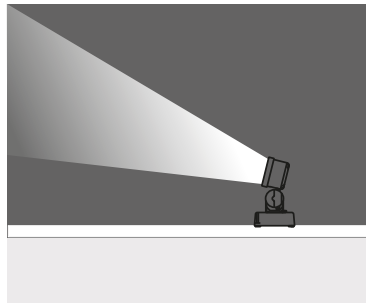
BELKIS 2 LED SPOTS

LED DRIVER IN BASE

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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For mounting on surface or in ground with picket or on pole (with adaptor)

3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

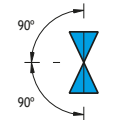
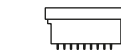
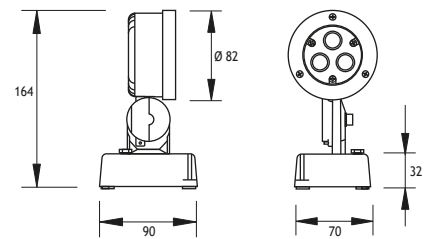
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

Gearbox : Equipped with 1xPG 11 cable gland and stainless steel cover

Available with 2xPG 11 cable gland for through cabling on request



90° + 90°
horizontal adjustment

POWERLED

	Total Lighting Output	Code No			
		3W	9W		
Warm White	3000 K	255 lm	675 lm	331241	331251
Natural White	4500 K	255 lm	675 lm	331242	331252
Cool White	6000 K	306 lm	810 lm	331243	331253
Blue				331244	331254
Red				331245	331255
Amber				331246	331256
Green				331247	331257

Picket



Code No: 953825

Visor



Code No: 953532

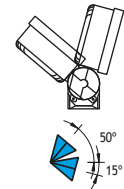
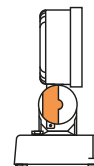
Honeycomb



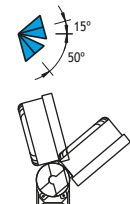
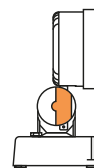
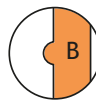
Code No: 953522



During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



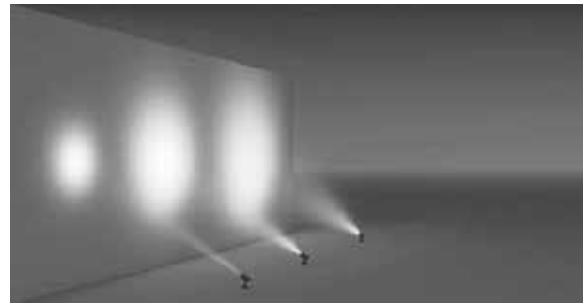
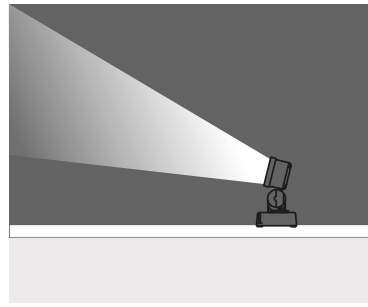
BELKIS 2 LED SPOT WITH TIR LENS FIXTURES

LED DRIVER IN BASE

Class I IP67 IK10

Available in any of these RAL colors

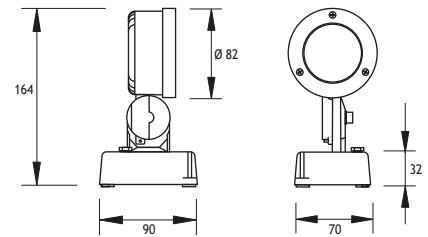
7004	7016	9005	9016	6002	1015
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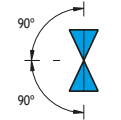
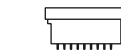
For mounting on surface or in ground with picket or on pole (with adaptor)

1 x 350 mA (3 W) LED or 1 x 350 mA (11 W) LED

	Total Lighting Output	Code No		
		3W	11W	3W
☀ Warm White 3000 K	198 lm	655 lm	121001	121011
☀ Natural White 4000 K	237 lm	786 lm	121002	121012



- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



90° + 90° horizontal adjustment

Picket



Code No: 953825

Visor



Code No: 953532

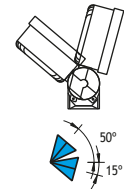
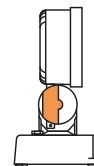
Honeycomb



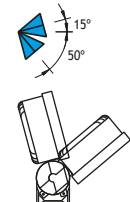
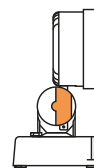
Code No: 953522

	10°	20°	30°
2m	∅ 0,35m 0,10m ²	∅ 0,71m 0,39m ²	∅ 0,90m 1,49m ²
4m	∅ 0,70m 0,38m ²	∅ 1,41m 1,56m ²	∅ 3,61m 5,97m ²
6m	∅ 1,05m 0,87m ²	∅ 2,12m 3,52m ²	∅ 8,13m 13,40m ²
8m	∅ 1,40m 1,54m ²	∅ 2,82m 6,26m ²	∅ 14,45m 23,84m ²
10m	∅ 1,75m 2,40m ²	∅ 3,53m 9,78m ²	∅ 5,36m 22,58m ²

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



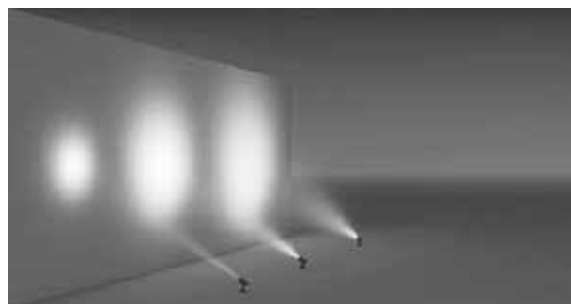
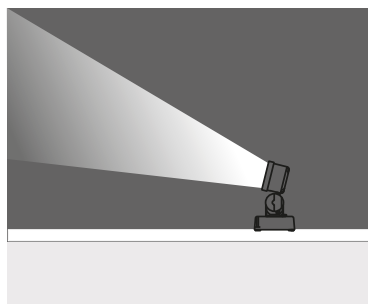
BELKIS 2 LED SPOT

LED DRIVER IN BASE

Class I IP67 IK10

Available in any of these RAL colors

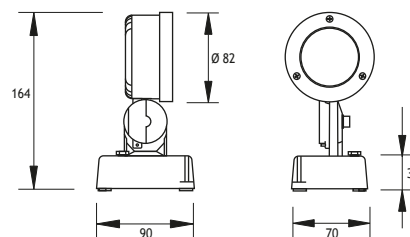
7004	7016	9005	9016	6002	1015
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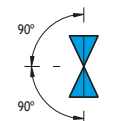
For mounting on surface or in ground with picket or on pole (with adaptor)

1 x 350 mA (11 W) LED or 1 x 500 mA (18 W) LED

	Total Lighting Output	Code No	
		11W	18W
☀ Warm White 3000 K	696 lm	1224 lm	331262 331271
☁ Natural White 4000 K	835 lm	1469 lm	331263 331272



- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



90° + 90° horizontal adjustment

Picket



Code No: 953825

Visor



Code No: 953532

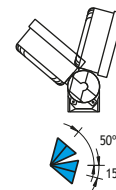
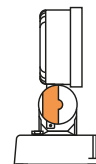
Honeycomb



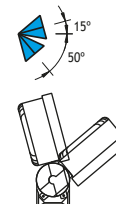
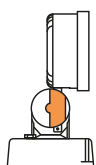
Code No: 953522

	10°	23°	38°
2m	Ø 0,35m 0,01m ²	Ø 0,81m 0,52m ²	Ø 1,38m 1,49m ²
4m	Ø 0,70m 0,38m ²	Ø 1,63m 2,08m ²	Ø 2,76m 5,97m ²
6m	Ø 1,05m 0,87m ²	Ø 2,44m 4,68m ²	Ø 4,13m 13,40m ²
8m	Ø 1,40m 1,54m ²	Ø 3,26m 8,33m ²	Ø 5,51m 23,84m ²
10m	Ø 1,75m 2,40m ²	Ø 4,07m 13,02m ²	Ø 6,89m 37,29m ²

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



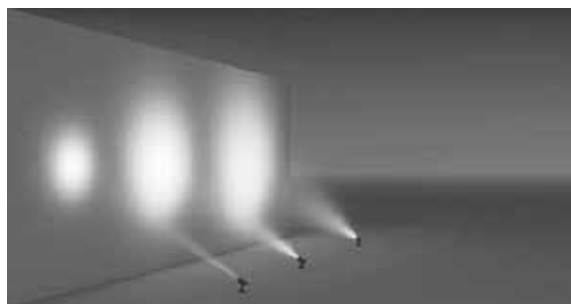
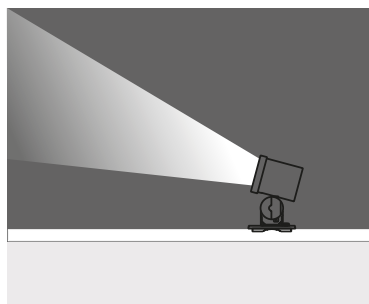
BELKIS 2 LED SPOTS

LED DRIVER IN HEAD

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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For mounting on surface or in ground with picket or on pole (with adaptor)

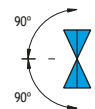
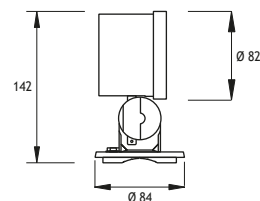
3 x 350 mA (3 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



90° + 90°
horizontal adjustment

		Total Lighting Output	Code No
☀ Warm White	3000 K	255 lm	331201
☀ Natural White	4500 K	255 lm	331206
☀ Cool White	6000 K	306 lm	331207
🟦 Blue			331202
🟥 Red			331203
🟡 Amber			331204
🟢 Green			331205

Picket



Code No: 953825

Visor



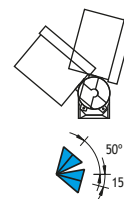
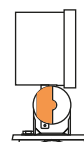
Code No: 953532

Honeycomb

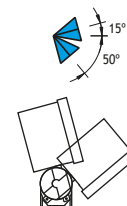
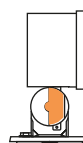


Code No: 953522

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.

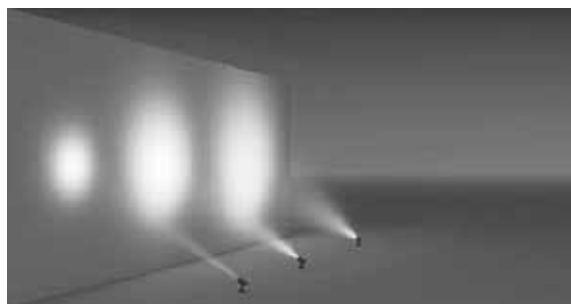
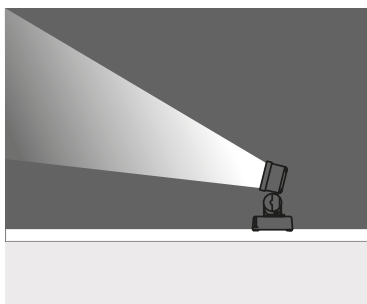




BELKIS 2 RGB LED SPOT LED DRIVER IN BASE Class I IP67 IK10

Available in any of these RAL colors

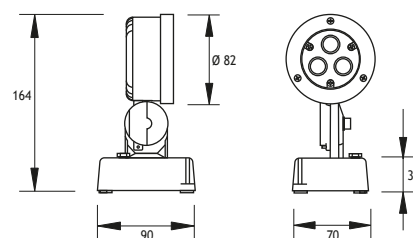
7004	7016	9005	9016	6002	1015
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For mounting on surface or in ground with picket or on pole (with adaptor)

9W 350 mA RGB LED

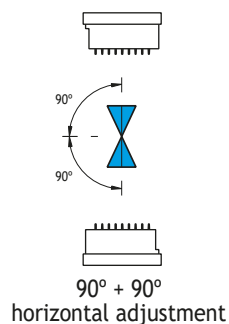
- Voltage** : 240V A.C with remote driver
- Lens** : 25° (40° on request)
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F cable
- Control** by DMX, remote control, or push button



9 x 350 mA (9 W) RGB LED



Code No
331221



Picket



Code No: 953825

Visor



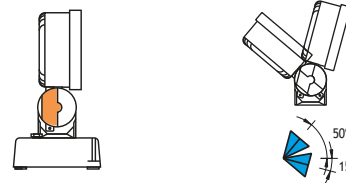
Code No: 953532

Honeycomb

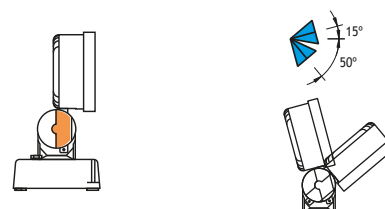


Code No: 953522

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.

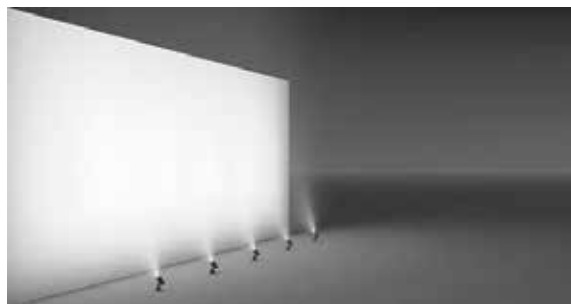
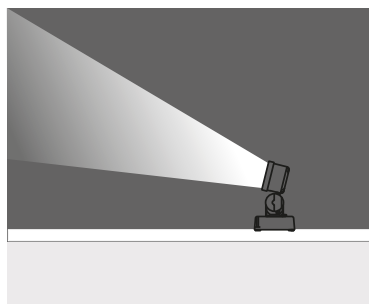


BELKIS 2 LOW VOLTAGE HALOGEN SPOTS

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015



WITH SIDE ARM

For mounting on surface or in ground with picket

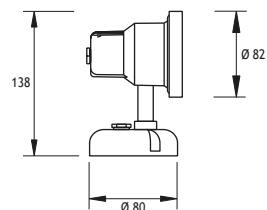
Lampholder : Gu 5,3

Reflector : -

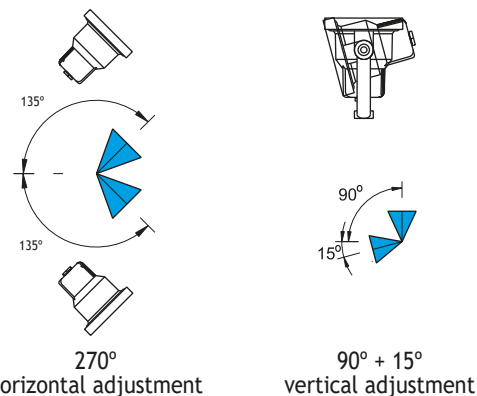
Diffuser : 8 mm Glass

Transformer is not included

Remote transformer should be used



Code No
HALOGEN 12V 35W/50W (10° or 38°) 331101



Picket



Code No: 953825

Visor



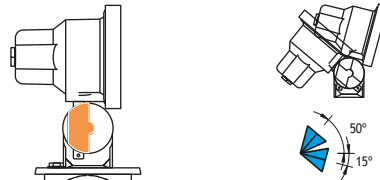
Code No: 953532

Honeycomb

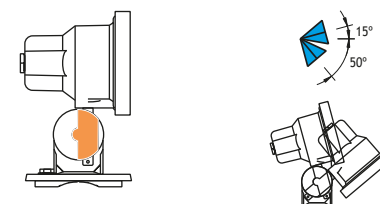
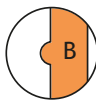


Code No: 953522

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.

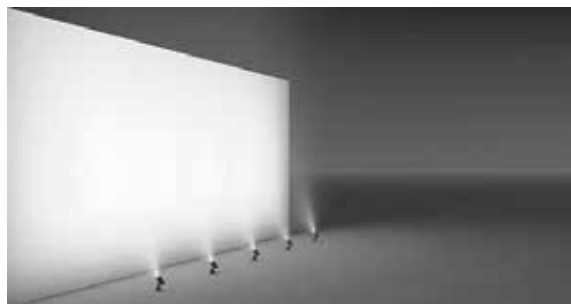
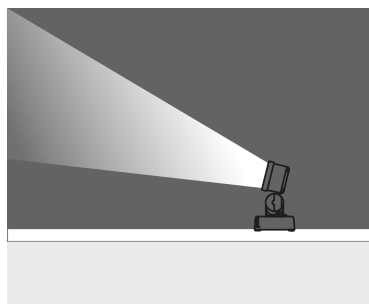


BELKIS 2 LOW VOLTAGE HALOGEN SPOTS

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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WITH CENTRAL ARM

For mounting on surface or on pole

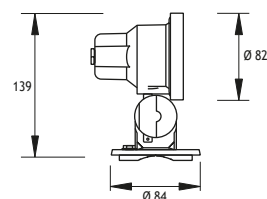
Lampholder : Gu 5,3

Reflector : -

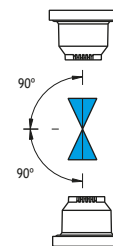
Diffuser : 8 mm Glass

Transformer is not included

Remote transformer should be used



Code No
HALOGEN 12V 35W/50W (10° or 38°) 331111



90° + 90°
horizontal adjustment

Picket



Code No: 953825

Visor



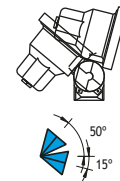
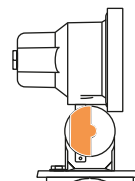
Code No: 953532

Honeycomb

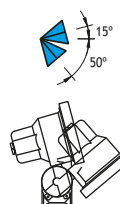
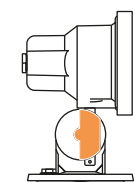


Code No: 953522

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



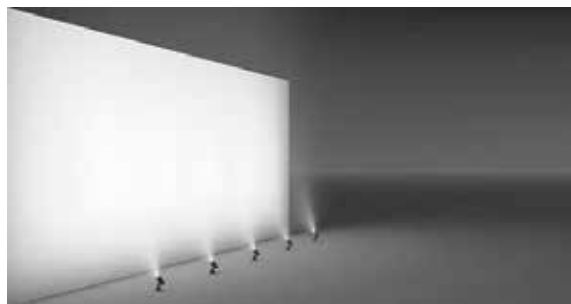
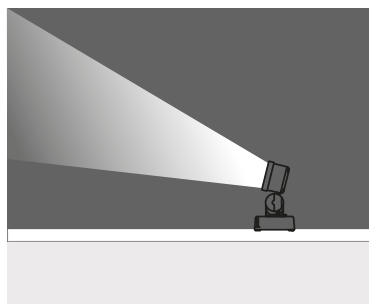


BELKIS 2 LOW VOLTAGE HALOGEN SPOTS

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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WITH CENTRAL ARM & GEAR BOX

For mounting on surface or in ground with picket or on pole (with adaptor)

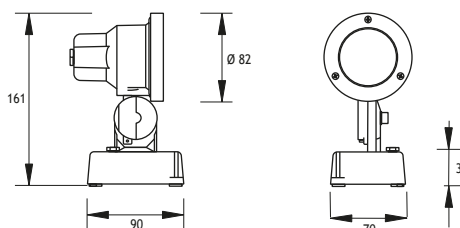
Lampholder : Gu 5.3

Reflector : -

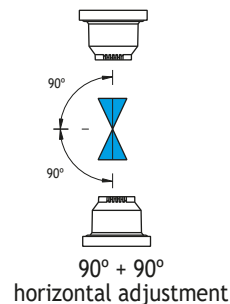
Diffuser : 8 mm Glass

Cable : Potted 5 m 3x0,75 H03 VV-F

Transformer potted in base.



Code No
HALOGEN 12V 35W/50W (25° or 50°) 331131



Picket



Code No: 953825

Visor



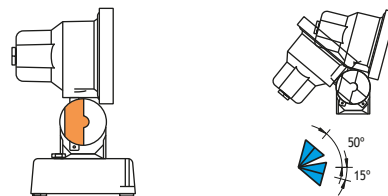
Code No: 953532

Honeycomb

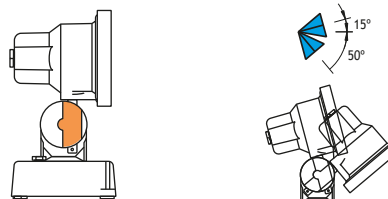


Code No: 953522

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



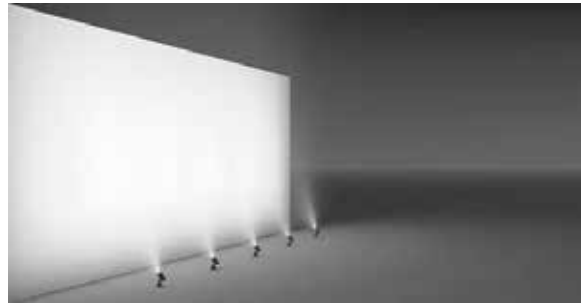
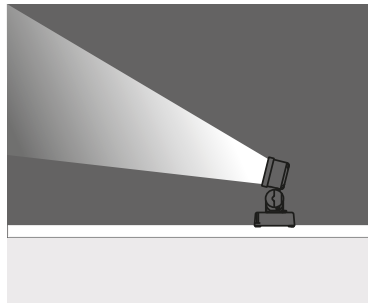
Page 225 for Mounting Accessories

BELKIS 2 HALOGEN SPOT

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



WITH SIDE ARM

For mounting on surface or in ground with picket

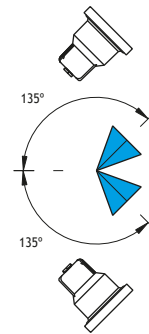
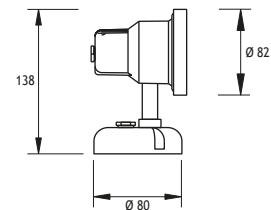
Lampholder : Gu 10

Reflector : -

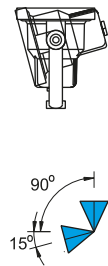
Diffuser : 8 mm Glass

Code No

HALOGEN 240V 35W/50W (25° or 50°) 331121



270° horizontal adjustment



90° + 15° vertical adjustment

Picket



Code No: 953825

Visor



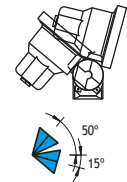
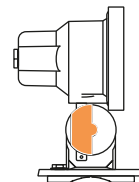
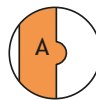
Code No: 953532

Honeycomb

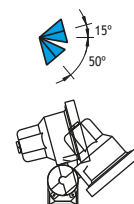
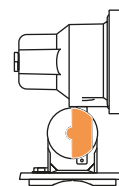
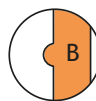


Code No: 953522

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.

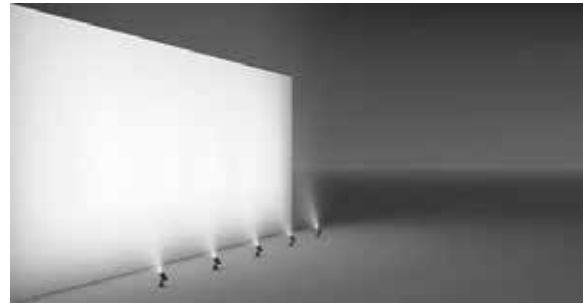
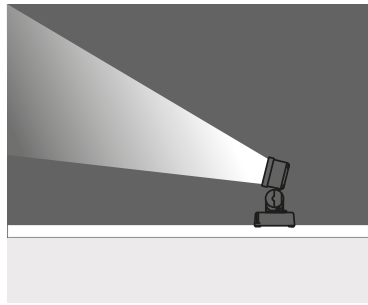


BELKIS 2 HALOGEN SPOT

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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WITH CENTRAL ARM

For mounting on surface or on pole

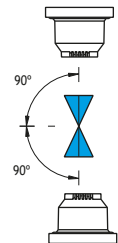
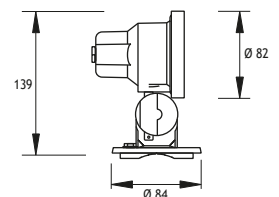
Lampholder : Gu 10

Reflector : -

Diffuser : 8 mm Glass

Code No

HALOGEN 240V 35W/50W (25° or 50°) 331141



90° + 90° horizontal adjustment

Picket



Code No: 953825

Visor



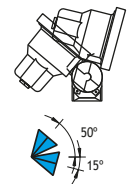
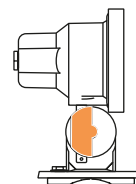
Code No: 953532

Honeycomb

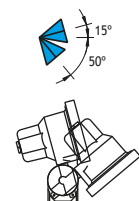
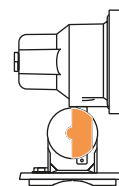
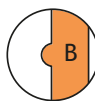


Code No: 953522

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



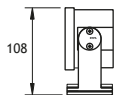
BELKIS Mounting Accessories for BELKIS 2 SPOTS

Alternate Arms (to aluminium side or central arms)

Electrostatic powder painted steel

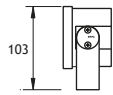
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953821



Vertically adjustable $\pm 45^\circ$
Horizontally adjustable $\pm 60^\circ$

CODE NO 953822



Only vertically adjustable $\pm 45^\circ$

CODE NO 953823



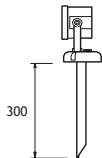
Vertically adjustable $\pm 45^\circ$
Horizontally adjustable $\pm 90^\circ$

Pickets

Electrostatic powder painted steel

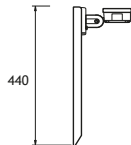
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953824



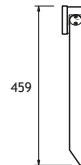
Pickets for round base
300 mm

CODE NO 953825



Picket for gear box base
440 mm

CODE NO 953826



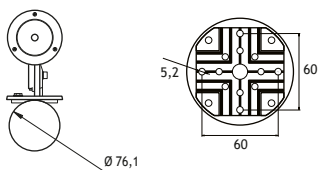
Picket mounted on body
466 mm

Pole

Die cast aluminium

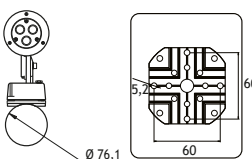
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953827



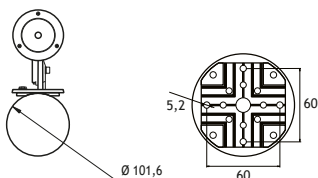
Pole adaptor in place of round base
For 76.1 mm (3 inch) pole thickness

CODE NO 953828



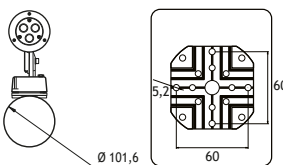
Pole adaptor for gear box
For 76.1 mm (3 inch) pole thickness

CODE NO 953829



Pole adaptor in place of round base
For 101.6 mm (4 inch) pole thickness

CODE NO 953830



Pole adaptor for gear box
For 101.6 mm (4 inch) pole thickness

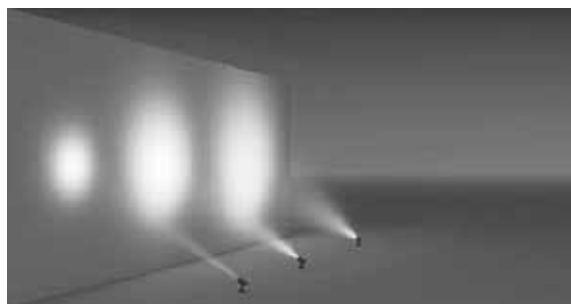
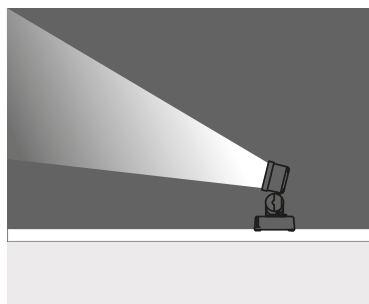
BELKIS 3 LED SPOT

LED DRIVER IN BASE

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



For mounting on surface or in ground with picket or on pole (with adaptor)

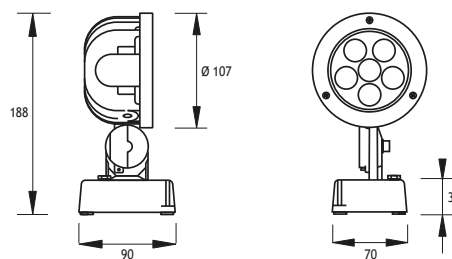
6 x 350 mA (6 W) LED or 6 x 700 mA (18 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

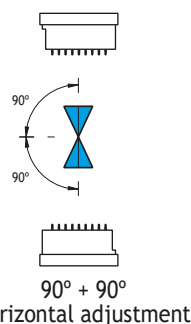
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



POWERLED

	Total Lighting Output	Code No			
		6W	18W		
Warm White	3000 K	510 lm	1350 lm	331311	331331
Natural White	4500 K	510 lm	1350 lm	331316	331332
Cool White	6000 K	612 lm	1620 lm	331317	331333
Blue				331312	331334
Red				331313	331335
Amber				331314	331336
Green				331315	331337



Picket



Code No: 953845

Visor



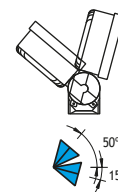
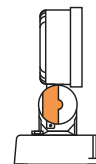
Code No: 953533

Honeycomb

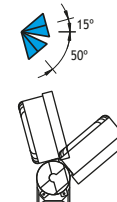
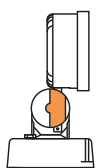
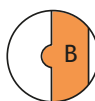


Code No: 953523

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.





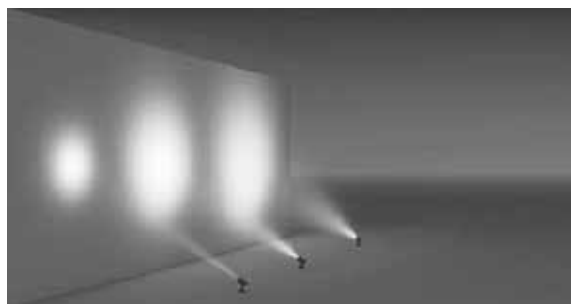
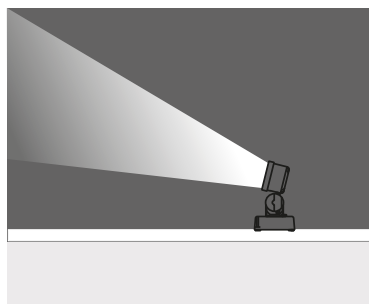
BELKIS 3 LED SPOT

LED DRIVER IN BASE

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



For mounting on surface or in ground with picket or on pole (with adaptor)

6 x 350 mA (6 W) LED or 6 x 700 mA (18 W) LED

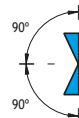
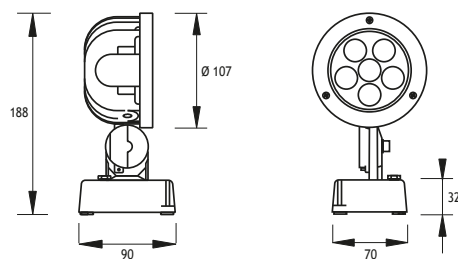
Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Gearbox : Equipped with 1xPG 11 cable gland and stainless steel cover

Available with 2xPG 11 cable gland for through cabling on request



90° + 90°
horizontal adjustment

POWERLED

	Total Lighting Output	Code No			
		6W	18W	6W	18W
☀ Warm White	3000 K	510 lm	1350 lm	331341	331351
☁ Natural White	4500 K	510 lm	1350 lm	331342	331352
☁ Cool White	6000 K	612 lm	1620 lm	331343	331353
🌊 Blue				331344	331354
🔴 Red				331345	331355
🟡 Amber				331346	331356
🟢 Green				331347	331357

Picket



Code No: 953845

Visor



Code No: 953533

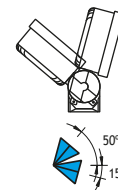
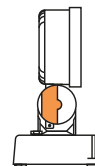
Honeycomb



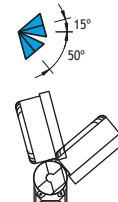
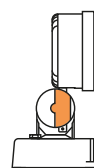
Code No: 953523



During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.

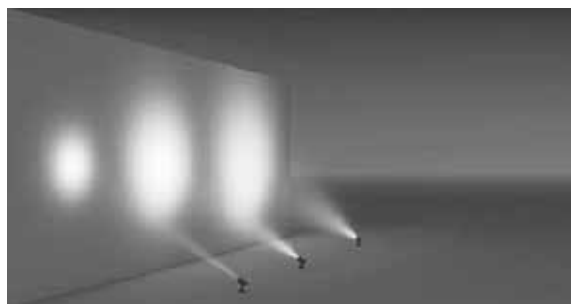
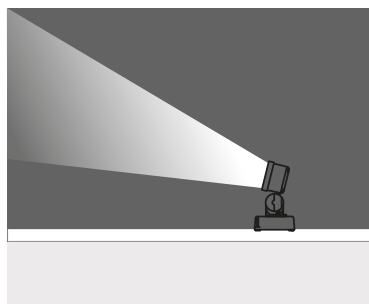


BELKIS 3

RGB LED SPOT LED DRIVER IN REMOTE DRIVER Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



For mounting on surface or in ground with picket or on pole (with adaptor)

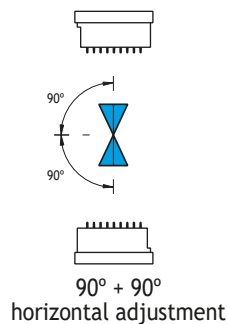
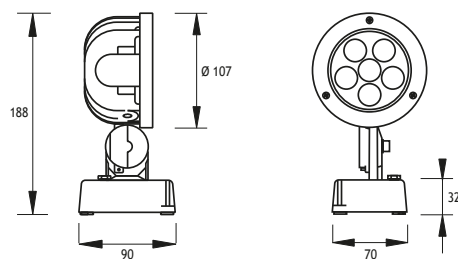
18 x 350 mA (18 W) RGB LED

- Voltage** : 240V A.C with remote driver
 - Lens** : 25° (40° on request)
 - Diffuser** : Clear Glass 8 mm
 - Cable** : Potted 10 m 4x0,75 H03 VV-F
- Control by DMX, remote control, or push button

RGB POWERLED



Code No
331321



Picket



Code No: 953845

Visor



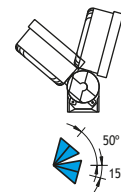
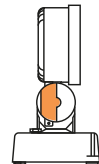
Code No: 953533

Honeycomb

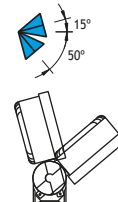
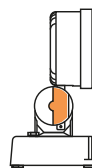
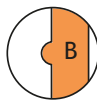


Code No: 953523

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



Page 232 for Mounting Accessories



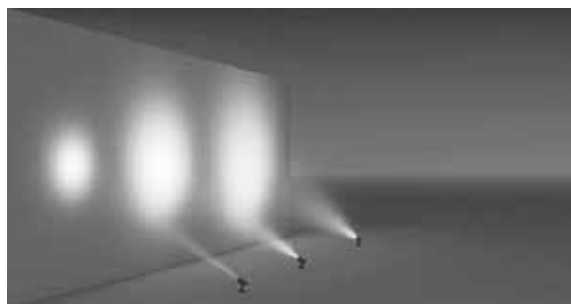
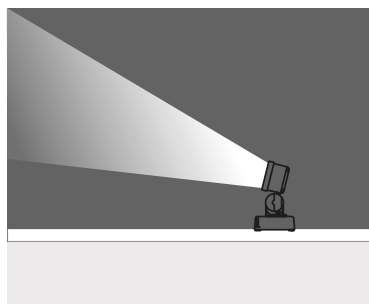
BELKIS 3 LED SPOT WITH TIR LENS FIXTURES

LED DRIVER IN BASE

Class I IP67 IK10

Available in any of these RAL colors

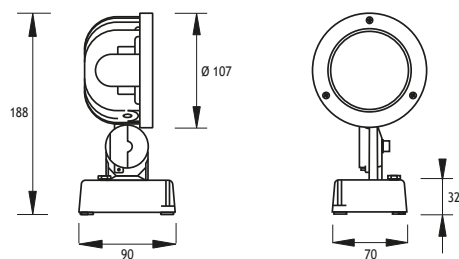
7004	7016	9005	9016	6002	1015
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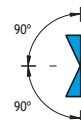
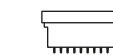
For mounting on surface or in ground with picket or on pole (with adaptor)

1 x 350 mA (12 W) LED or 1 x 500 mA (18 W) LED

	Total Lighting Output	Code No	
		12W	18W
☀ Warm White 3000 K	655 lm	121101	121111
☀ Natural White 4000 K	786 lm	121102	121112



- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



90° + 90° horizontal adjustment

Picket



Code No: 953845

Visor



Code No: 953533

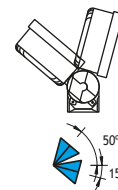
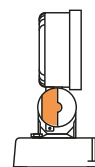
Honeycomb



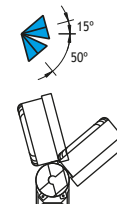
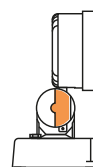
Code No: 953523

	10°	20°	30°
2m	∅ 0,35m 0,10m ²	∅ 0,71m 0,39m ²	∅ 1,07m 0,90m ²
4m	∅ 0,70m 0,38m ²	∅ 1,41m 1,56m ²	∅ 2,14m 3,61m ²
6m	∅ 1,05m 0,87m ²	∅ 2,12m 3,52m ²	∅ 3,22m 8,13m ²
8m	∅ 1,40m 1,54m ²	∅ 2,82m 6,26m ²	∅ 4,29m 14,45m ²
10m	∅ 1,75m 2,40m ²	∅ 3,53m 9,78m ²	∅ 5,36m 22,58m ²

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



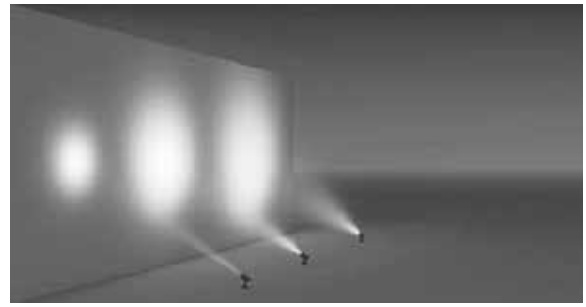
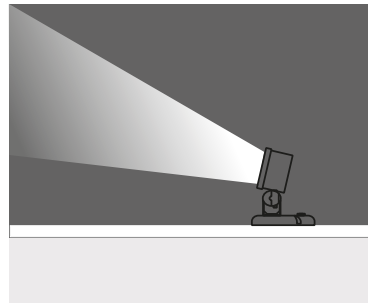
BELKIS 3 LED SPOT

LED DRIVER IN HEAD

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



For mounting on surface or on pole

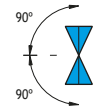
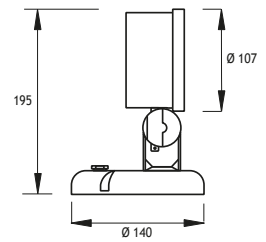
6 x 350 mA (6 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



90° + 90°
horizontal adjustment

		Total Lighting Output	Code No
☀ Warm White	3000 K	510 lm	331301
☀ Natural White	4500 K	510 lm	331306
☀ Cool White	6000 K	612 lm	331307
🔵 Blue			331302
🔴 Red			331303
🟡 Amber			331304
🟢 Green			331305

Picket



Code No: 953845

Visor



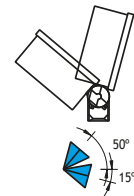
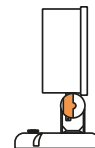
Code No: 953533

Honeycomb

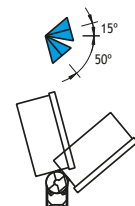
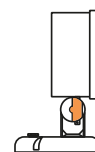


Code No: 953523

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.





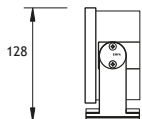
BELKIS Mounting Accessories for BELKIS 3 SPOTS

Alternate Arms (to aluminium side or central arms)

Electrostatic powder painted steel

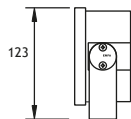
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953841



Vertically adjustable $\pm 45^\circ$
Horizontally adjustable $\pm 60^\circ$

CODE NO 953842



Only vertically adjustable $\pm 45^\circ$

CODE NO 953843



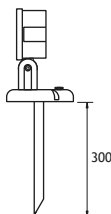
Vertically adjustable $\pm 45^\circ$
Horizontally adjustable $\pm 90^\circ$

Pickets

Electrostatic powder painted steel

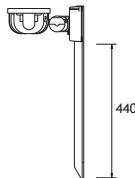
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953844



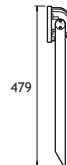
Pickets for round base
300 mm

CODE NO 953845



Picket for gear box base
440 mm

CODE NO 953846



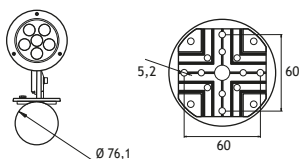
Picket mounted on body
479 mm

Pole Adaptors

Die cast aluminium

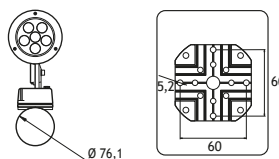
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953847



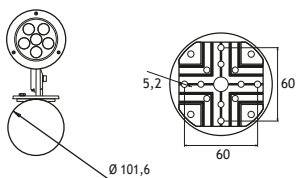
Pole adaptor in place of round base
For 76.1 mm (3 inch) pole thickness

CODE NO 953848



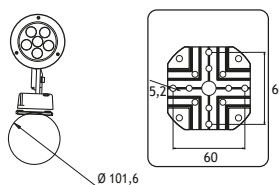
Pole adaptor for gear box
For 76.1 mm (3 inch) pole thickness

CODE NO 953849



Pole adaptor in place of round base
For 101.6 mm (4 inch) pole thickness

CODE NO 953850



Pole adaptor for gear box
For 101.6 mm (4 inch) pole thickness

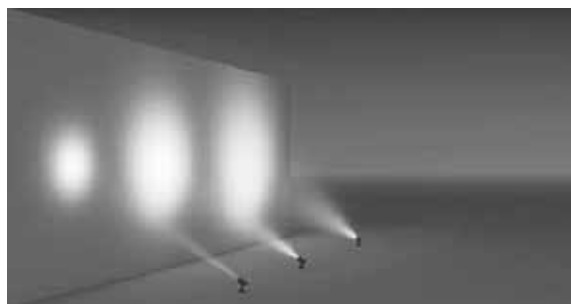
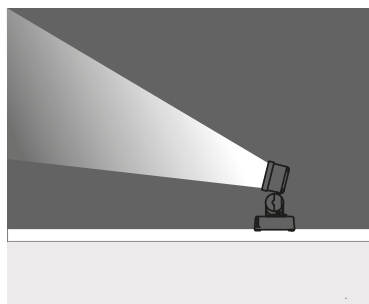
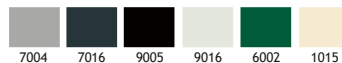


BELKIS 4 LED SPOT

LED DRIVER IN BASE

Class I IP67 IK10

Available in any of these RAL colors



For mounting on surface or in ground with picket or on pole (with adaptor)

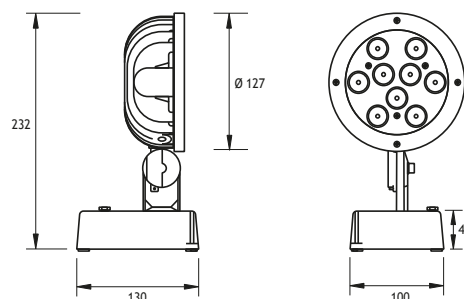
9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

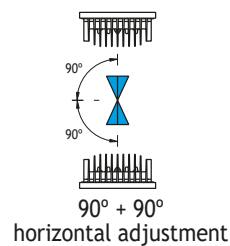
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



	Total Lighting Output	Code No			
		9W	27W	9W	27W
☀ Warm White	3000 K	765 lm	2100 lm	331411	331421
☁ Natural White	4500 K	765 lm	2100 lm	331416	331422
☁ Cool White	6000 K	810 lm	2520 lm	331417	331423
🌊 Blue				331412	331424
🔴 Red				331413	331425
🟡 Amber				331414	331426
🟢 Green				331415	331427



Picket



Code No: 953865

Visor



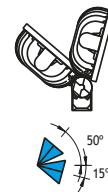
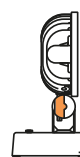
Code No: 953534

Honeycomb

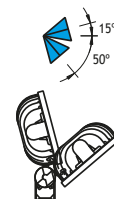
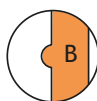


Code No: 953524

During installation, place disc in depicted position (A) to allow an upward tilt of 50° and a downward tilt of 15°.



During installation, place disc in depicted position (B) to allow an upward tilt of 15° and a downward tilt of 50°.



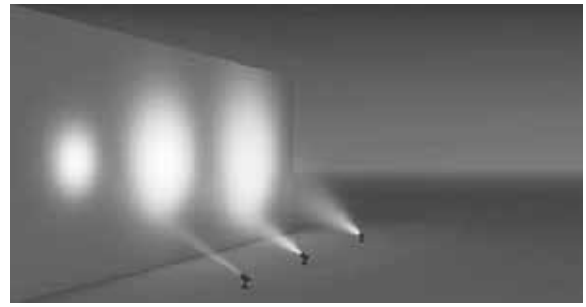
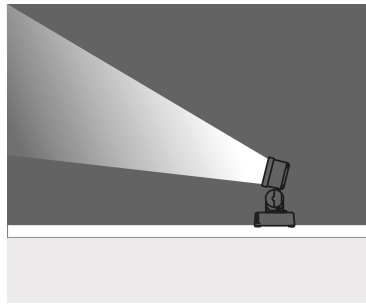
BELKIS 4 LED SPOT

LED DRIVER IN BASE

Class I IP55 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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For mounting on surface or in ground with picket

9 x 350 mA (9 W) LED

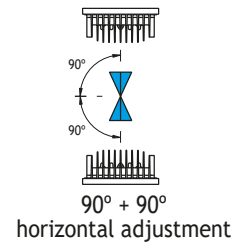
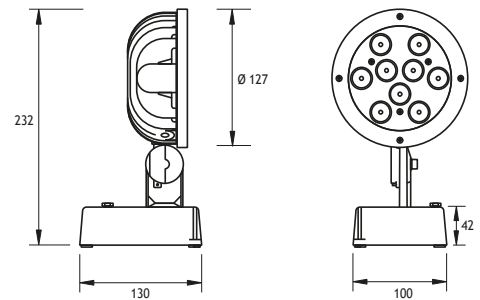
Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Gearbox : Equipped with 1xPG 11 cable gland and stainless steel cover

Available with 2xPG 11 cable gland for through cabling on request



	POWERLED	Total Lighting Output	Code No			
			9W	27W	9W	27W
☀️	Warm White	3000 K	765 lm	2100 lm	331431	331441
☁️	Natural White	4500 K	765 lm	2100 lm	331432	331442
🌊	Cool White	6000 K	810 lm	2520 lm	331433	331443
🌊	Blue				331434	331444
🔴	Red				331435	331445
🟡	Amber				331436	331446
🟢	Green				331437	331447

Picket



Code No: 953865

Visor



Code No: 953534

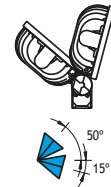
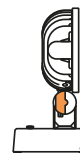
Honeycomb



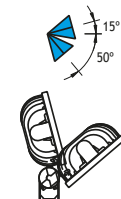
Code No: 953524



During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.





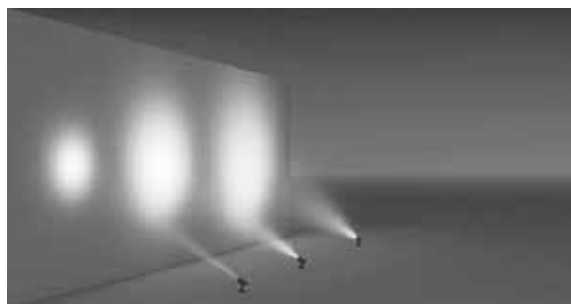
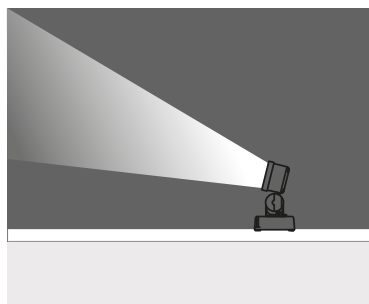
BELKIS 4 LED SPOT WITH TIR LENS FIXTURES

LED DRIVER IN BASE

Class I IP67 IK10

Available in any of these RAL colors

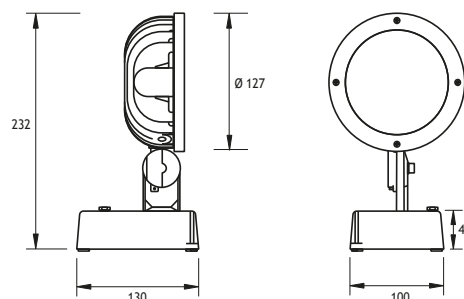
7004	7016	9005	9016	6002	1015
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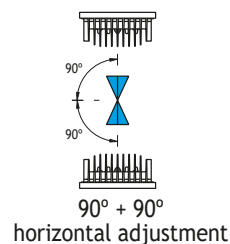
For mounting on surface or in ground with picket or on pole (with adaptor)

1 x 700 mA (25 W) LED or 1 x 900 mA (32 W) LED

	Total Lighting Output	Code No			
		25W	32W		
☀ Warm White	3000 K	1645 lm	2134 lm	121201	121211
☁ Natural White	4000 K	1974 lm	2561 lm	121202	121212



- Voltage** : 240V A.C with integrated driver (24V AC or DC on request)
- Lens** : 10°, 20°, 30° Mirror TIR Lens
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F



Picket



Code No: 953865

Visor



Code No: 953534

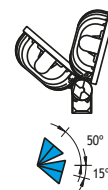
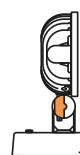
Honeycomb



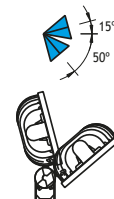
Code No: 953524

	10°	20°	30°
2m	∅ 0,35m 0,10m ²	∅ 0,71m 0,39m ²	∅ 0,90m 1,49m ²
4m	∅ 0,70m 0,38m ²	∅ 1,41m 1,56m ²	∅ 3,61m 5,97m ²
6m	∅ 1,05m 0,87m ²	∅ 2,12m 3,52m ²	∅ 8,13m 13,40m ²
8m	∅ 1,40m 1,54m ²	∅ 2,82m 6,26m ²	∅ 14,45m 23,84m ²
10m	∅ 1,75m 2,40m ²	∅ 3,53m 9,78m ²	∅ 5,36m 22,58m ²

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.





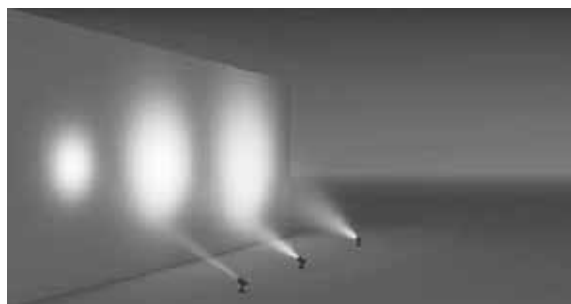
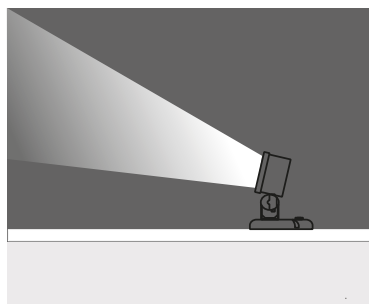
BELKIS 4 LED SPOT

LED DRIVER IN HEAD

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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For mounting on surface or on pole

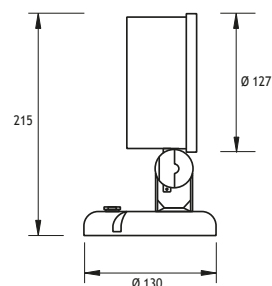
9 x 350 mA (9 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

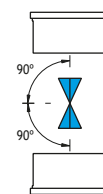
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



		Total Lighting Output	Code No
☀ Warm White	3000 K	765 lm	331401
☀ Natural White	4500 K	765 lm	331406
☀ Cool White	6000 K	810 lm	331407
🟦 Blue			331402
🟥 Red			331403
🟡 Amber			331404
🟢 Green			331405



90° + 90° horizontal adjustment

Picket



Code No: 953864

Visor



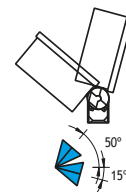
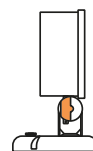
Code No: 953534

Honeycomb

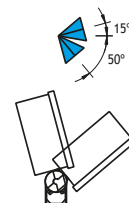
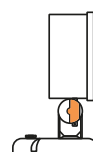


Code No: 953524

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



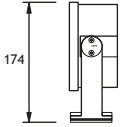
BELKIS Mounting Accessories for BELKIS 4 SPOTS

Alternate Arms (to aluminium side or central arms)

Electrostatic powder painted steel

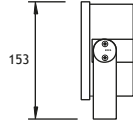
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953861



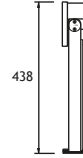
Vertically adjustable $\pm 45^\circ$
Horizontally adjustable $\pm 60^\circ$

CODE NO 953862



Only vertically adjustable $\pm 45^\circ$

CODE NO 953863



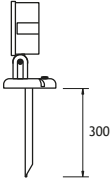
Vertically adjustable $\pm 45^\circ$
Horizontally adjustable $\pm 90^\circ$

Pickets

Electrostatic powder painted steel

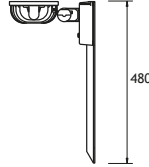
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953864



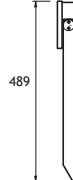
Pickets for round base
300 mm

CODE NO 953865



Picket for gear box base
480 mm

CODE NO 953866



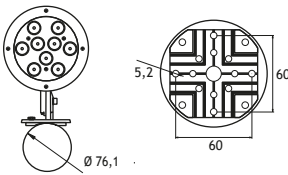
Picket mounted on body
489 mm

Pole Adaptors

Die cast aluminium

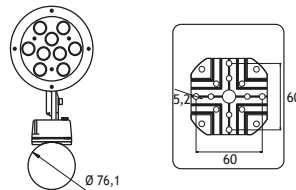
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953867



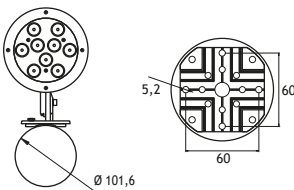
Pole adaptor in place of round base
For 76.1 mm (3 inch) pole thickness

CODE NO 953868



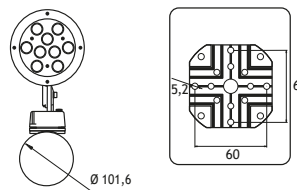
Pole adaptor for gear box
For 76.1 mm (3 inch) pole thickness

CODE NO 953869



Pole adaptor in place of round base
For 101.6 mm (4 inch) pole thickness

CODE NO 953870



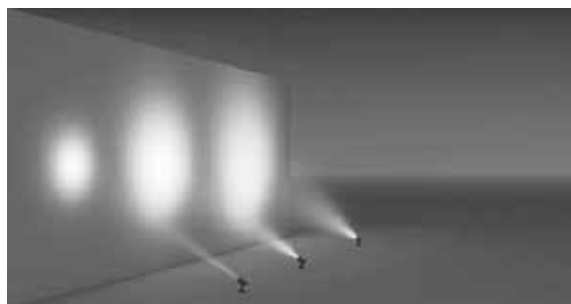
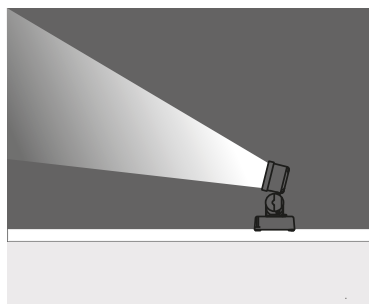
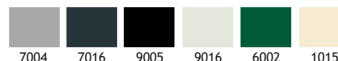
Pole adaptor for gear box
For 101.6 mm (4 inch) pole thickness

BELKIS 5 LED SPOT

LED DRIVER IN BASE

Class I IP67 IK10

Available in any of these RAL colors



For mounting on surface or in ground with picket or on pole (with adaptor)

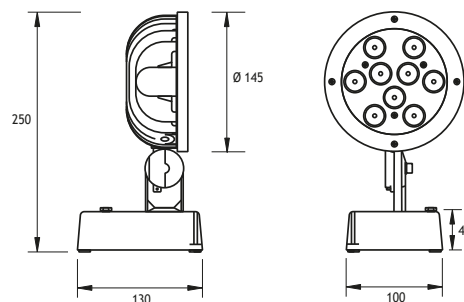
9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

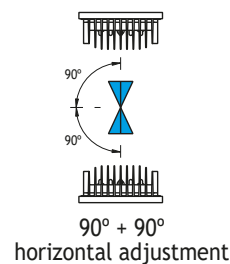
Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



	POWERLED	Total Lighting Output	Code No			
			9W	27W	9W	27W
☀	Warm White	3000 K	765 lm	2100 lm	425631	425651
☁	Natural White	4500 K	765 lm	2100 lm	425636	425652
☀	Cool White	6000 K	810 lm	2520 lm	425637	425653
🌊	Blue				425632	425654
🔴	Red				425633	425655
🟡	Amber				425634	425656
🟢	Green				425635	425657



Picket



Code No: 953885

Visor



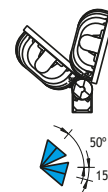
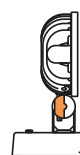
Code No: 953535

Honeycomb

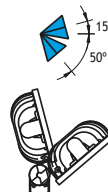


Code No: 953525

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



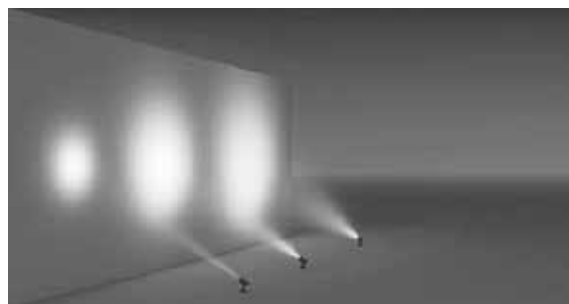
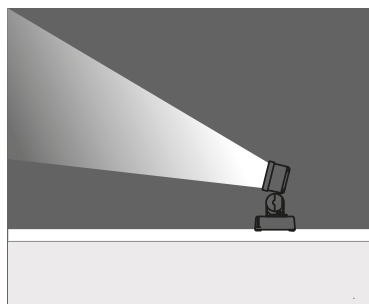
BELKIS 5 LED SPOT

LED DRIVER IN BASE

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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For mounting on surface or in ground with picket or on pole (with adaptor)

9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

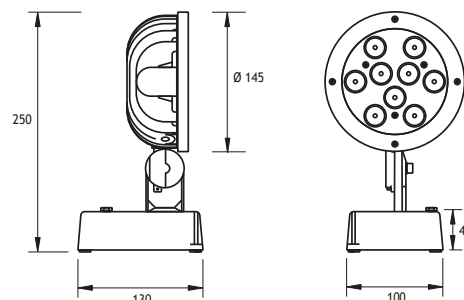
Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

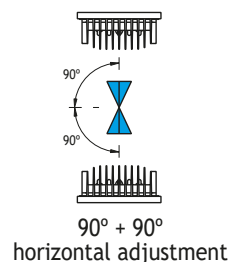
Gearbox : Equipped with 1xPG 11 cable gland and stainless steel cover

Available with 2xPG 11 cable gland for through cabling on request



POWERLED

	Total Lighting Output	Code No			
		9W	27W		
Warm White	3000 K	765 lm	2100 lm	425661	425671
Natural White	4500 K	765 lm	2100 lm	425662	425672
Cool White	6000 K	810 lm	2520 lm	425663	425673
Blue				425664	425674
Red				425665	425675
Amber				425666	425676
Green				425667	425677



Picket



Code No: 953885

Visor



Code No: 953535

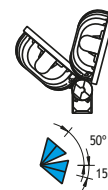
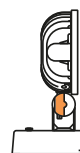
Honeycomb



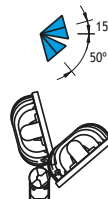
Code No: 953525



During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.

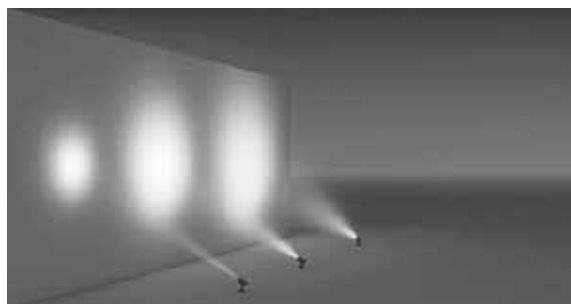
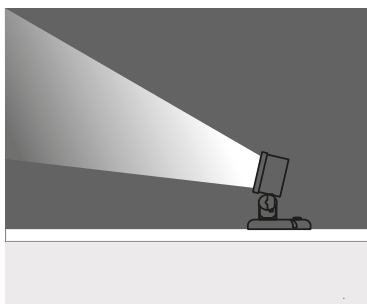
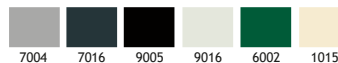


BELKIS 5 LED SPOT

LED DRIVER IN HEAD

Class I IP67 IK10

Available in any of these RAL colors



For mounting on surface or on pole

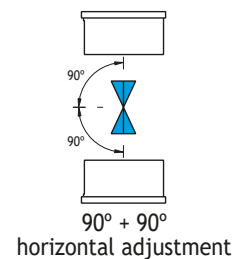
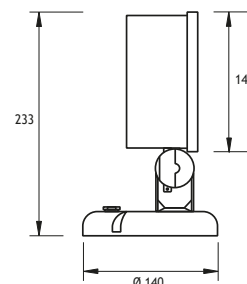
9 x 350 mA (9 W) LED

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



		Total Lighting Output	Code No
	Warm White	3000 K 765 lm	425611
	Natural White	4500 K 765 lm	425616
	Cool White	6000 K 810 lm	425617
	Blue		425612
	Red		425613
	Amber		425614
	Green		425615

Picket



Code No: 953844

Visor



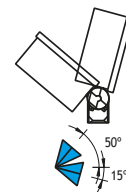
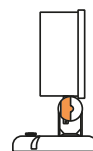
Code No: 953535

Honeycomb

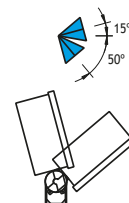
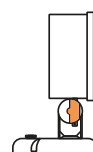


Code No: 953525

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.

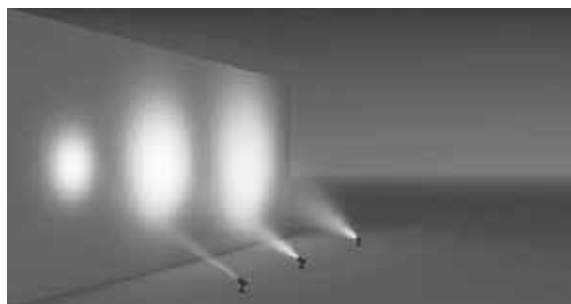
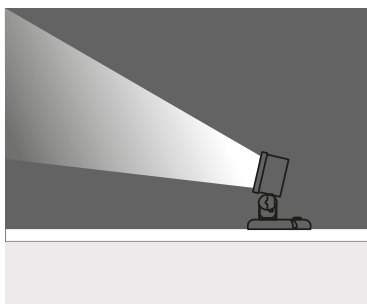


BELKIS 5

RGB LED SPOT REMOTE LED DRIVER Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



For mounting on surface or on pole

27 x 350 mA (27 W) RGB LED

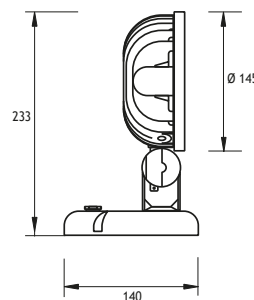
Voltage : 240V A.C

Lens : 25° (40° on request)

Diffuser : Clear Glass 8 mm

Cable : Potted 10 m 4x0,75 H03 VV-F

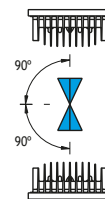
Control by DMX remote control or push button



RGB POWERLED



Code No
425641



90° + 90°
horizontal adjustment

Picket



Code No: 953844

Visor



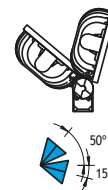
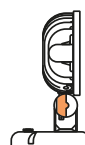
Code No: 953535

Honeycomb

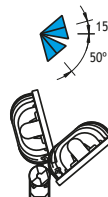


Code No: 953525

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



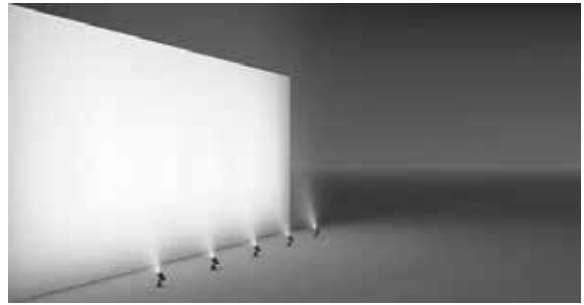
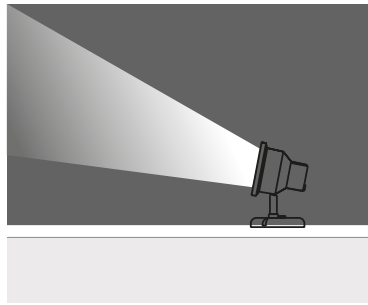


BELKIS 5 HALOGEN SPOTS

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



WITH SIDE ARM

For mounting on surface or in ground with picket

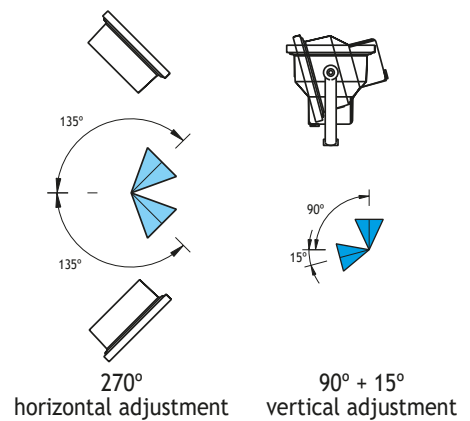
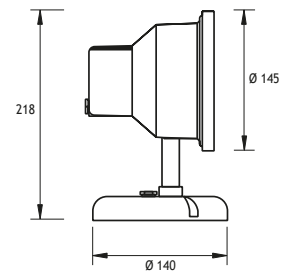
Lampholder : E27

Reflector : -

Diffuser : 8 mm Clear Glass

HALOGEN 240V PAR 30 75W
(10° or 30°)

Code No
332121



Picket



Code No: 953884

Visor



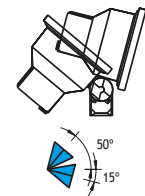
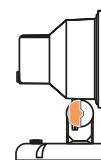
Code No: 953535

Honeycomb

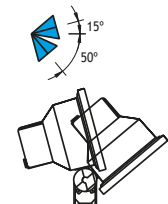
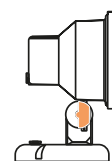


Code No: 953525

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.

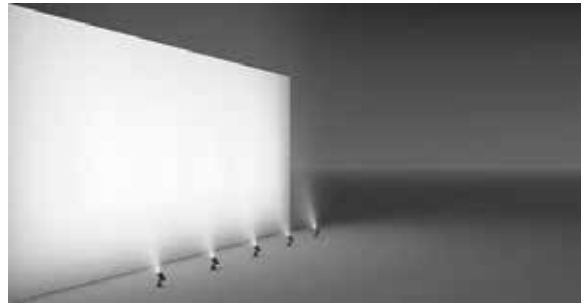
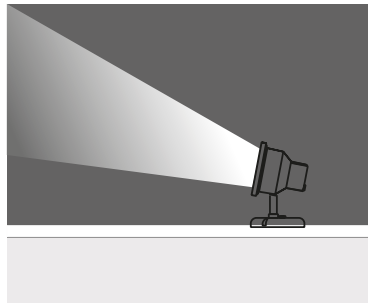


BELKIS 5 HALOGEN SPOTS

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



WITH CENTRAL ARM

For mounting on surface or in ground with picket

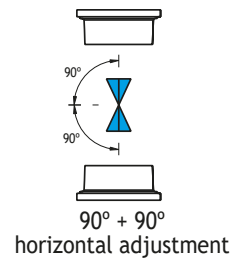
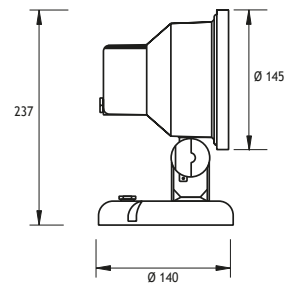
Lampholder : E27

Reflector : -

Diffuser : 8 mm Clear Glass

HALOGEN 240V PAR 30 75W
(10° or 30°)

Code No
332131



Picket



Code No: 953884

Visor



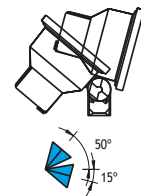
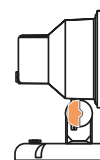
Code No: 953535

Honeycomb

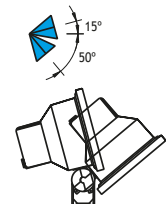
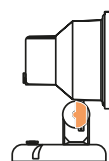


Code No: 953525

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



Page 253 for Mounting Accessories

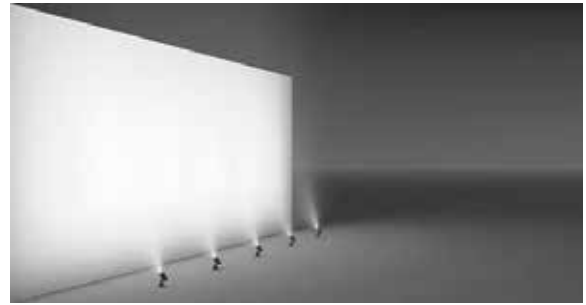
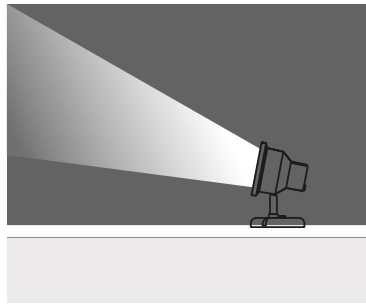


BELKIS 5 SPOTS

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015



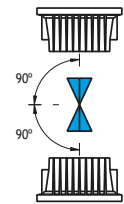
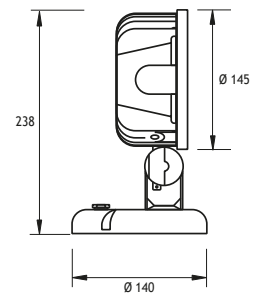
WITH SIDE ARM

For mounting on surface or in ground with picket

- Lampholder : Gx 53
- Reflector : -
- Diffuser : 8 mm Clear Glass
- Lamp : Included
- Gear : Electronic (in lamp)

Code No
332141

COMPACT FLUO. AR 111 11W (45°)



90° + 90°
horizontal adjustment

Picket



Code No: 953884

Visor



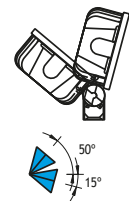
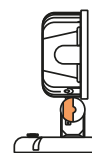
Code No: 953535

Honeycomb

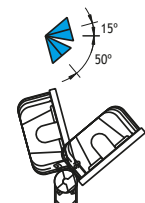
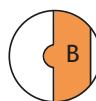


Code No: 953525

During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.

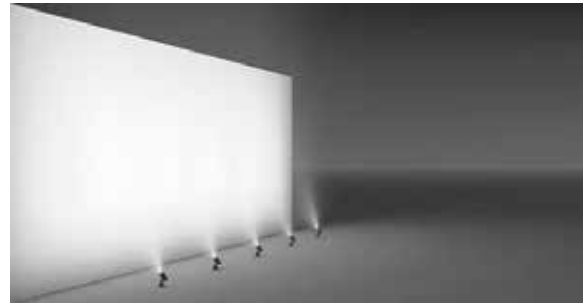
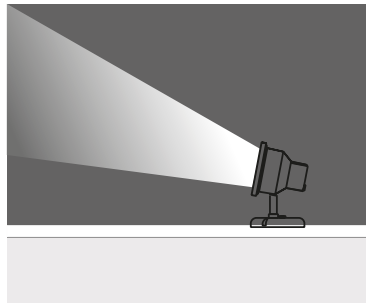


BELKIS 5 METAL HALIDE SPOTS

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



WITH CENTRAL ARM

For mounting on surface or in ground with picket

Lampholder : PGJ 5

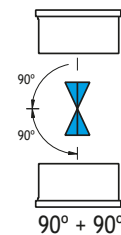
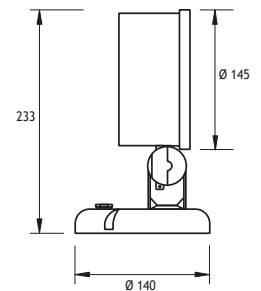
Reflector : 25°

Diffuser : 8 mm Clear Glass

Gear : Electronic (in head)

METAL HALIDE 20W

Code No
332151



horizontal adjustment

Picket



Code No: 953884

Visor



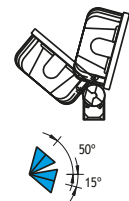
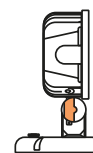
Code No: 953535

Honeycomb

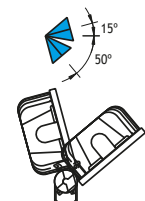
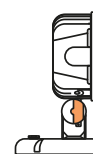
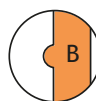


Code No: 953525

During installation, place disc in depicted position (A) to allow an upward tilt of 50° and a downward tilt of 15°.



During installation, place disc in depicted position (B) to allow an upward tilt of 15° and a downward tilt of 50°.



Page 253 for Mounting Accessories

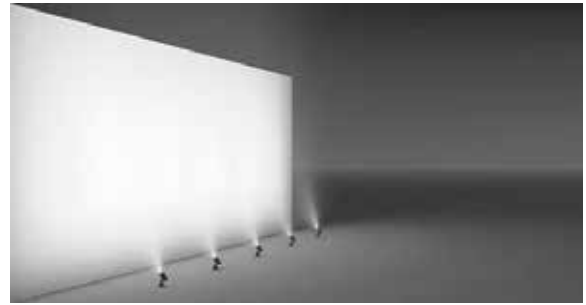
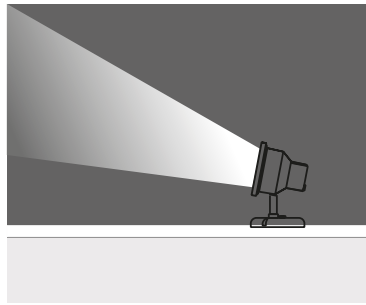


BELKIS 5 SPOTS WITH GEARBOX

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



Lampholder : G 8.5
 Reflector : 9°, 17°, 25°
 Gear : Electronic
 Cable : Potted 5 m 3x0,75 H05 VV-F

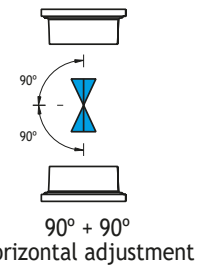
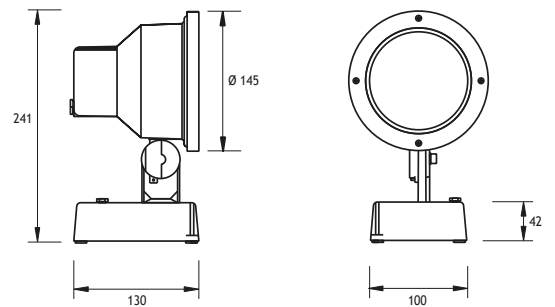
METAL HALIDE 35W/70W

	Code No
35W	332181
70W	332191

Lampholder : Gx8.5
 Reflector : -
 Gear : Electronic
 Cable : Potted 5 m 3x0,75 H05 VV-F

METAL HALIDE CDMR-111 35W/70W

10° or 40°	Code No
35W	332201
70W	332211



Picket



Code No: 953885

Visor



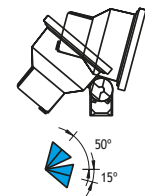
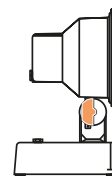
Code No: 953535

Honeycomb

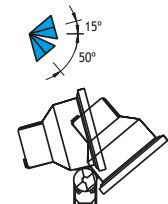
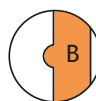


Code No: 953525

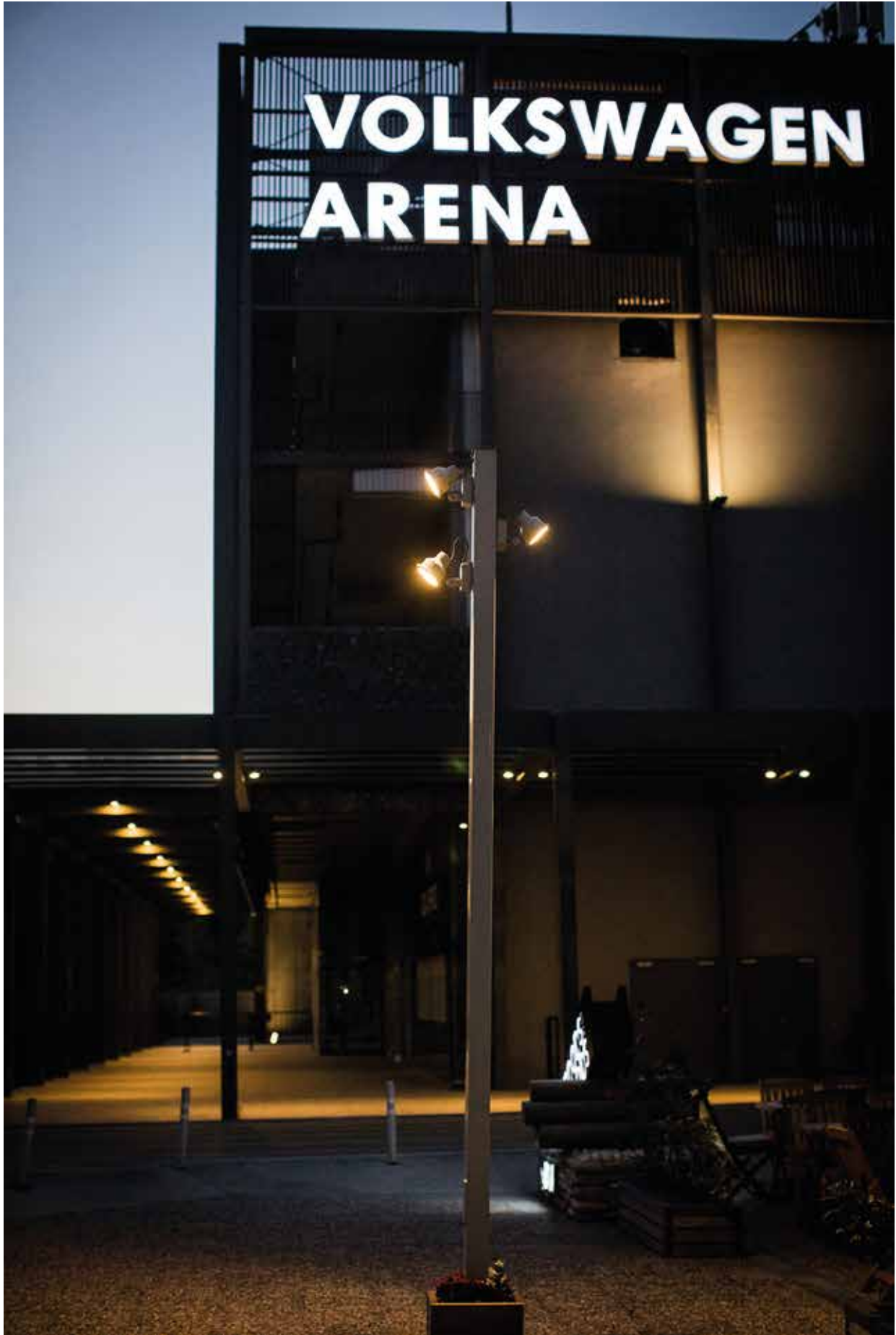
During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



Page 253 for Mounting Accessories

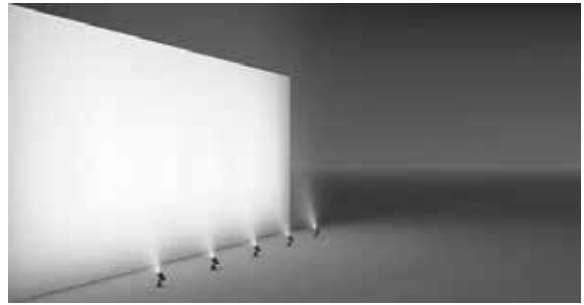
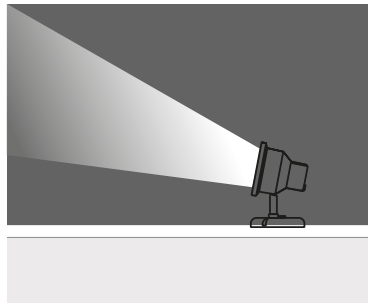


BELKIS 5 SPOTS WITH GEARBOX

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



Lampholder : G 8.5
 Reflector : 9°, 17°, 25°
 Gear : Electronic
 Cable : Potted 5 m 3x0,75 H05 VV-F

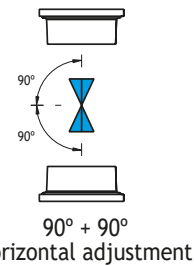
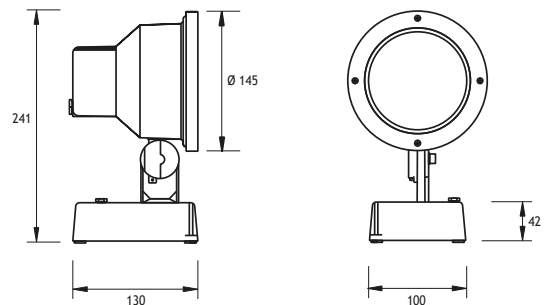
METAL HALIDE 35W/70W

	Code No
35W	425681
70W	425691

Lampholder : G 8.5
 Reflector : -
 Gear : Electronic
 Cable : Potted 5 m 3x0,75 H05 VV-F

METAL HALIDE CDMR-111 35W/70W

10° or 40°	Code No
35W	425701
70W	425711



Picket



Code No: 953885

Visor



Code No: 953535

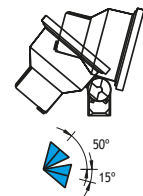
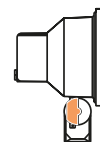
Honeycomb



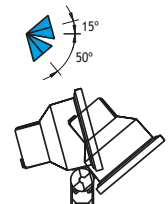
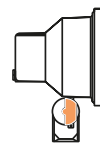
Code No: 953525



During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



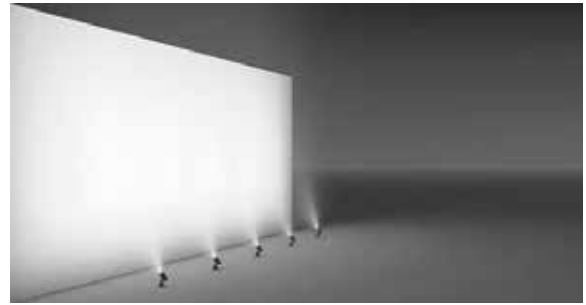
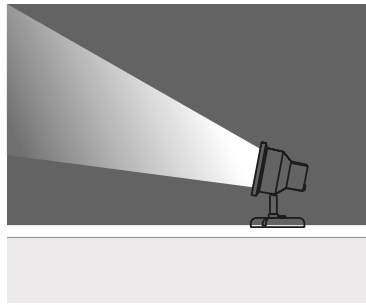


BELKIS 5 SPOTS WITH GEARBOX

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



Lampholder : G 8.5
 Reflector : 9°, 17°, 25°
 Gear : Electronic
 Cable : Potted 5 m 3x0,75 H05 VV-F

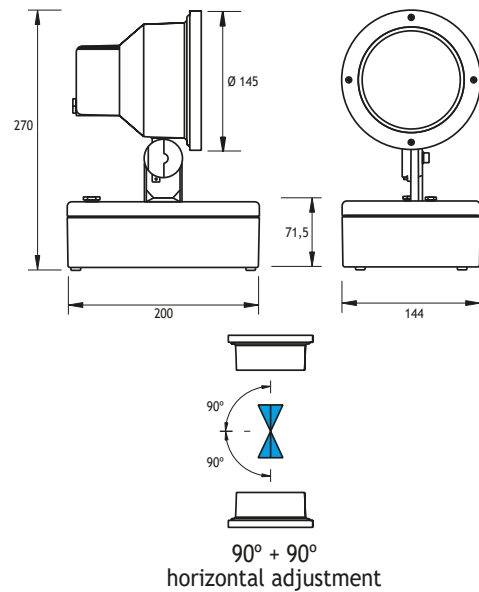
METAL HALIDE 35W/70W

	Code No
35W	332221
70W	332231

Lampholder : G 8.5
 Reflector : -
 Gear : Electronic
 Cable : Potted 5 m 3x0,75 H05 VV-F

METAL HALIDE CDMR-111 35W/70W

10° or 40°	Code No
35W	332241
70W	332251



Visor



Code No: 953535

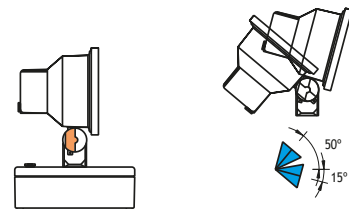
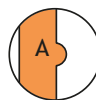
Honeycomb



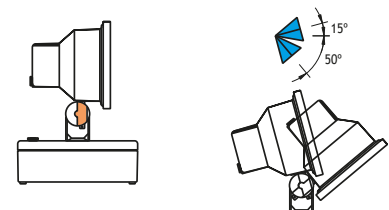
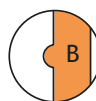
Code No: 953525



During installation, place disc in depicted position (A) to allow an upward tilt of 50 and a downward tilt of 15.



During installation, place disc in depicted position (B) to allow an upward tilt of 15 and a downward tilt of 50.



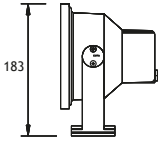
BELKIS Mounting Accessories for BELKIS 5 SPOTS

Alternate Arms (to aluminium side or central arms)

Electrostatic powder painted steel

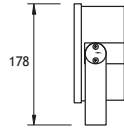
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953881



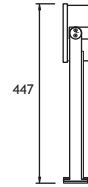
Vertically adjustable $\pm 45^\circ$
Horizontally adjustable $\pm 60^\circ$

CODE NO 953882



Only vertically adjustable $\pm 45^\circ$

CODE NO 953883



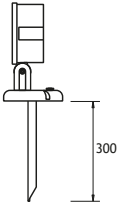
Vertically adjustable $\pm 45^\circ$
Horizontally adjustable $\pm 90^\circ$

Pickets

Electrostatic powder painted steel

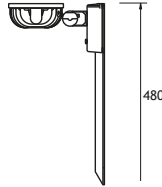
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953884



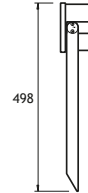
Pickets for round base
300 mm

CODE NO 953885



Picket for gear box base
480 mm

CODE NO 953886



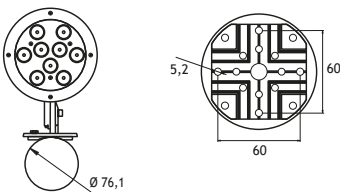
Picket mounted on body
498 mm

Pole Adaptors

Die cast aluminium

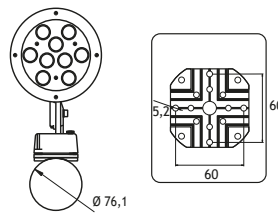
Please indicate below code number in combination with the code number of the desired spot

CODE NO 953887



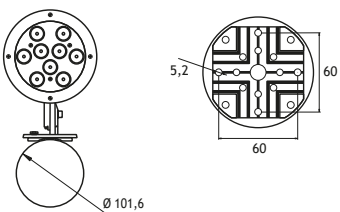
Pole adaptor in place of round base
For 76.1 mm (3 inch) pole thickness

CODE NO 953888



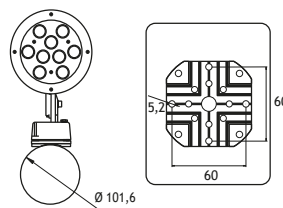
Pole adaptor for gear box
For 76.1 mm (3 inch) pole thickness

CODE NO 953889



Pole adaptor in place of round base
For 101.6 mm (4 inch) pole thickness

CODE NO 953890



Pole adaptor for gear box
For 101.6 mm (4 inch) pole thickness

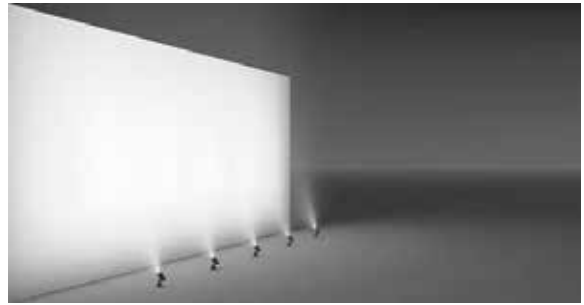
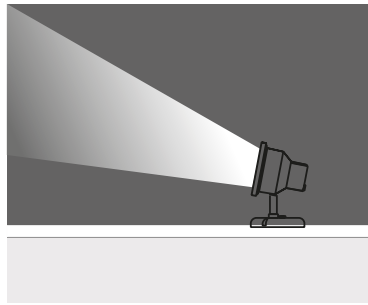


BELKIS 6 SPOTS WITH GEARBOX

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

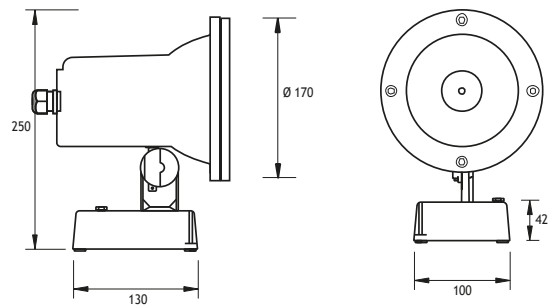


45°

Lampholder : G12
 Reflector : 30°, 42°
 Diffuser : Clear Glass
 Gear : Electronic

METAL HALIDE 35W

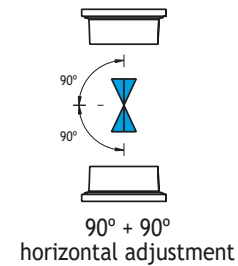
Code No
 138201



Lampholder : G12
 Reflector : 30°, 42°
 Diffuser : Clear Glass
 Gear : Electronic

METAL HALIDE 70W

Code No
 138211



Picket



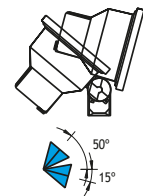
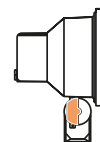
Code No: 953885

Visor

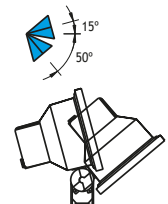
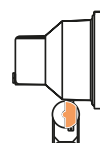
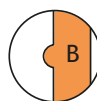


Code No: 953536

During installation, place disc in depicted position (A) to allow an upward tilt of 50° and a downward tilt of 15°.



During installation, place disc in depicted position (B) to allow an upward tilt of 15° and a downward tilt of 50°.

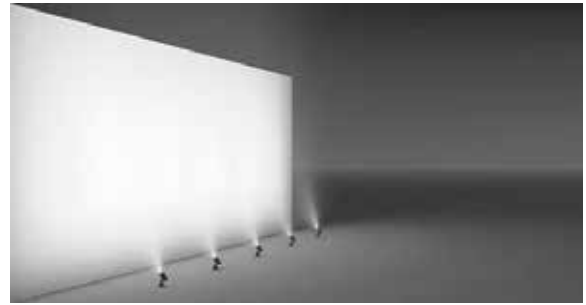
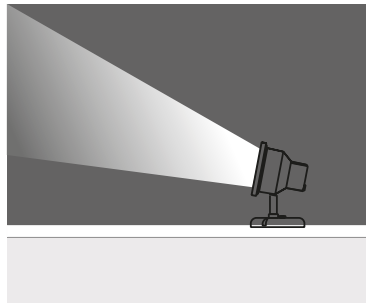


BELKIS 6 SPOTS WITH GEARBOX

Class I IP67 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

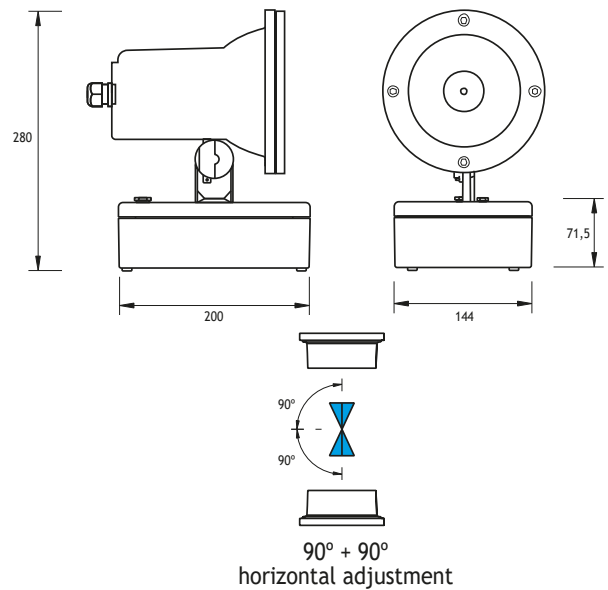


45°

Lampholder : G12
 Reflector : 30°, 42°
 Diffuser : Clear Glass
 Gear : Electronic

METAL HALIDE 150W

Code No
 138221

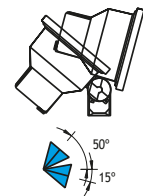
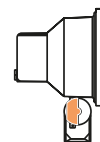
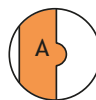


Visor

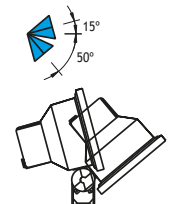
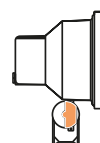
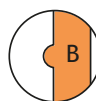


Code No: 953536

During installation, place disc in depicted position (A) to allow an upward tilt of 50° and a downward tilt of 15°.



During installation, place disc in depicted position (B) to allow an upward tilt of 15° and a downward tilt of 50°.

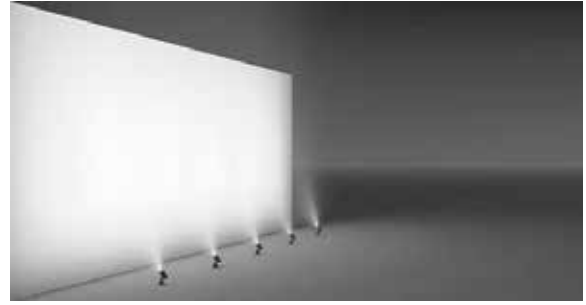
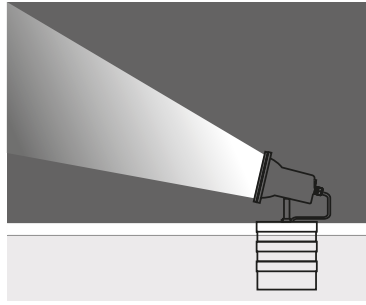
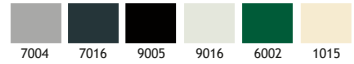




RESPOT 3

SPOT WITH RECESSED GEARBOX Class I IP67 IK10

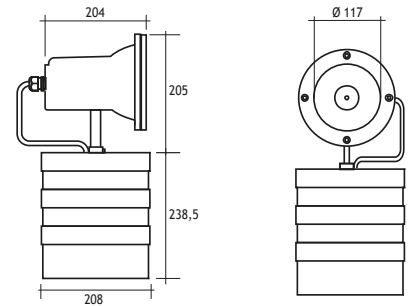
Available in any
of these RAL colors



Lampholder : G12
Reflector : 30°, 42°
Diffuser : Clear Glass

METAL HALIDE 35W

Code No
137101



Lampholder : G12
Reflector : 30°, 42°
Diffuser : Clear Glass

METAL HALIDE 70W

Code No
137111

Lampholder : G x 8.5
Reflector : -
Diffuser : Clear Glass

METAL HALIDE CDM-R111 35W
10° or 24°

Code No
137121

Lampholder : G x 8.5
Reflector : -
Diffuser : Clear Glass

METAL HALIDE CDM-R111 70W
10° or 24°

Code No
137131

Visor



Code No: 953536

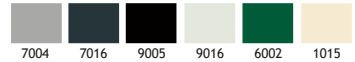
 Bollards



ODEON BOLLARD

Class I IP67 IK10

Available in any of these RAL colors



EMFA's Odean Bollard combines a die-cast aluminium head housing an LED unit with an extrusion aluminium pipe. The bollard is designed to light pathways, landscapes and open spaces. The unit comes with 5 different options of heads depending on much light is required and into which direction: with one head, two adjacent heads, two opposite heads, three heads, or four heads. The head and pipe are connected by a hidden screw within the pipe. One head contains 20 medium-power LEDs consuming 6W and providing over 500lm light output. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete or a picket to mount into the earth.

Head

Die cast aluminium

Diffusers

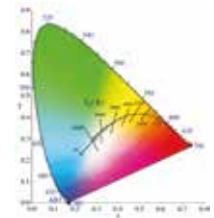
Frosted polyamide 6.6

Pipe

Extrusion aluminium

Paint

Electrostatic powder



“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

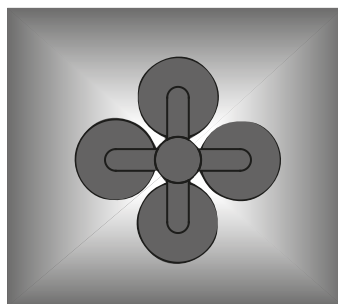
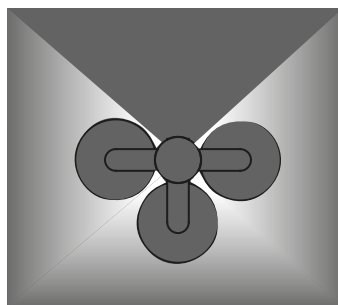
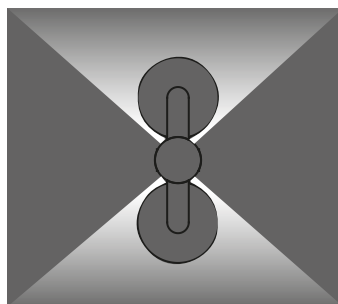
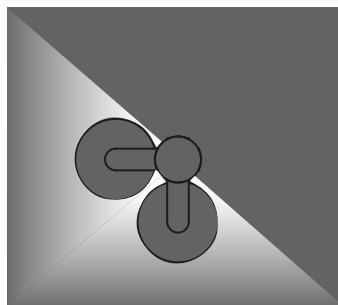
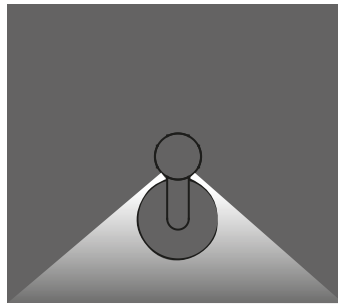


ODEON BOLLARD

Class I IP67 IK10

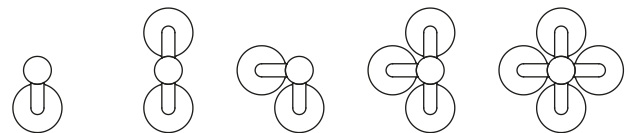
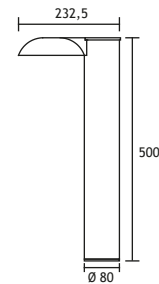
Available in any of these RAL colors

7004	7016	9005	9016	6002	1015



Led : Medium power LEDs
Voltage : 240 VAC with integrated driver
 (12-24 VDC on request)
Diffuser : Polyamide 6.6

			Total Lighting Output	Code No
Mono	20 x 87 mA (6W) LED	3000 K	640 lm	178101
Mono	20 x 87 mA (6W) LED	4000 K	640 lm	178102
Duo 1-way	40 x 87 mA (12W) LED	3000 K	1280 lm	178111
Duo 1-way	40 x 87 mA (12W) LED	4000 K	1280 lm	178112
Duo 2-way	40 x 87 mA (12W) LED	3000 K	1280 lm	178121
Duo 2-way	40 x 87 mA (12W) LED	4000 K	1280 lm	178122
Trio	60 x 87 mA (18W) LED	3000 K	1920 lm	178131
Trio	60 x 87 mA (18W) LED	4000 K	1920 lm	178132
Quad	80 x 87 mA (24W) LED	3000 K	2560 lm	178141
Quad	80 x 87 mA (24W) LED	4000 K	2560 lm	178142







EMFA

LEON LED BOLLARD

Class I IP65

Available in any of these RAL colors

					
7004	7016	9005	9016	6002	1015

EMFA's Leon Bollard combines a die-cast aluminium head housing an LED unit with an extrusion aluminium pipe. The bollard is designed to light pathways, landscapes and open spaces. The Leon bollard gives light only in the downward direction. This avoids any kind of glare and light pollution. The head and pipe are connected by a hidden screw within the pipe. The head contains LEDs that can be powered up to 12W. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete or a picket to mount into the earth.

Head

Die cast aluminium

Diffusers

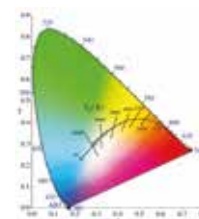
Frosted polyamide 6.6

Pipe

Extrusion aluminium

Paint

Electrostatic powder



“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 3 standard paint colors, 2 LED colors, and 2 wattages, are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



Mounting Fixtures



Galvanized Steel Anchor

Concrete Mounting Step

Concrete Mounting Flush

LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

LEON LED BOLLARDS

Class I IP67

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

Head

Die cast aluminium

Diffuser

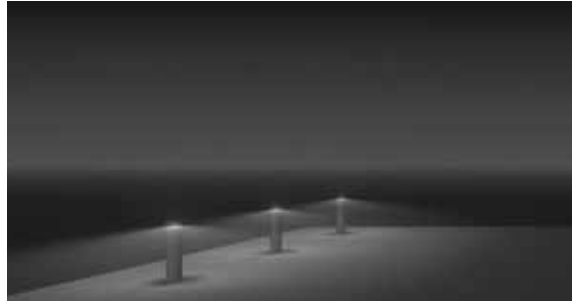
Frosted polyamide 6.6

Pipe

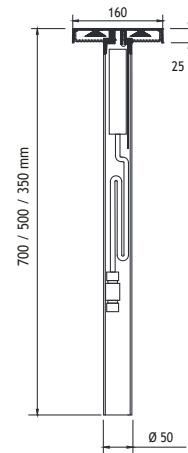
Extrusion aluminium

Paint

Electrostatic powder



Led : Circular LEDs (6W or 12W)
Voltage : 240 VAC with integrated driver
 (12-24 VDC on request)
Diffuser : Polyamide
CRI : >80



LEON (350 mm)

350 mA (6W) CIRCULAR LED		Total Lighting Output	Code No
☾ Warm White	3000 K	720 lm	177001
☀ Natural White	4000 K	790 lm	177002

700 mA (12W) CIRCULAR LED

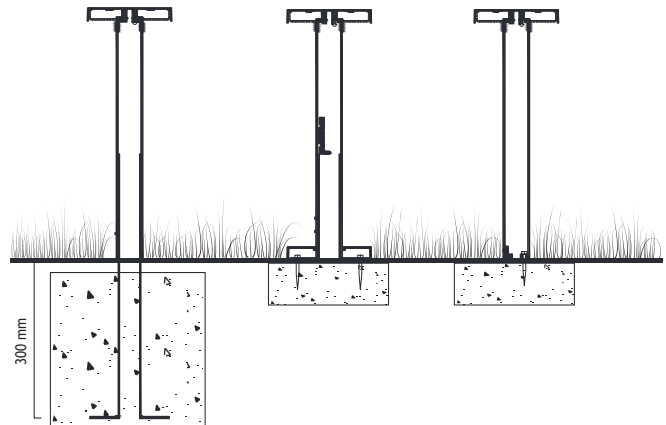
☾ Warm White	3000 K	1380 lm	177011
☀ Natural White	4000 K	1380 lm	177012

LEON (500 mm)

350 mA (6W) CIRCULAR LED		Total Lighting Output	Code No
☾ Warm White	3000 K	720 lm	177101
☀ Natural White	4000 K	790 lm	177102

700 mA (12W) CIRCULAR LED

☾ Warm White	3000 K	1380 lm	177111
☀ Natural White	4000 K	1380 lm	177112



LEON (700 mm)

350 mA (6W) CIRCULAR LED		Total Lighting Output	Code No
☾ Warm White	3000 K	720 lm	177201
☀ Natural White	4000 K	790 lm	177202

700 mA (12W) CIRCULAR LED

☾ Warm White	3000 K	1380 lm	177211
☀ Natural White	4000 K	1380 lm	177212



954001
Galvanized Steel Mounted

954002
Concrete Mounting Step

954003
Concrete Mounting Flush

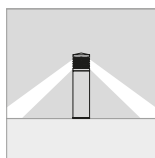
DION 1 WALL AND GROUND BOLLARDS

Class I IP65 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

EMFA's Dion series combines a die-cast aluminium head with an extrusion aluminium pipe to provide a sturdy, outdoor bollard. The bollards are designed to light pathways, landscapes and open spaces. The unit comes with 5 different heads for various light outputs and applications. A screwless bayonet lock system allows for easy dismantling of the head. The unit comes in 4 sizes: 300mm, 450mm, 700mm, and 1100mm, as well as with 3 lamp options: LED, Fluorescent, Metal Halide. In combination with the fluorescent lamp, an optional LED pilot lamp is available to light the bollard when the primary light source is off to continue marking a path while saving energy. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete.

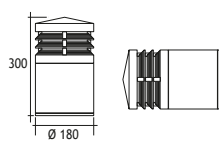


Head

Die cast aluminium
With Screwless lock system
(Electrical lock on request)
Outer Asymmetrical Grill
Die cast aluminium
Diffuser
Clear polycarbonate
Pipe
Extrusion aluminium
Paint
Electrostatic powder

DION 1 WALL (30 CM)

CODE NO 143101
FLUO. 10W G24 q-1



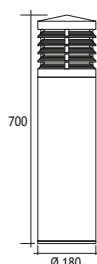
DION 1 GROUND (70 CM)

☀️ CODE NO 143341
LINEAR LED 4x350 mA (12W)

CODE NO 143301
ELECTRONIC FLUO. 23W E27

CODE NO 143311
FLUO. 26W G24 q-3

CODE NO 143321
METAL HALIDE 35W G12



Accessories:

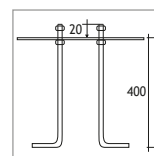
2 x Leds Pilot Lamps

Lit when main Light Source is turned off.
Available in:

Code No 956101 - Blue
Code No 956102 - Red
Code No 956103 - Yellow
Code No 956104 - Green

Code Number should be indicated along with bollard code number

Anchor



Code No 955201

Code Number should be indicated along with bollard code number



Optional wood look finish. Please contact for additional information.

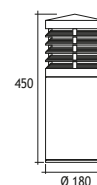
DION 1 GROUND (45 CM)

☀️ CODE NO 143231
LINEAR LED 4x350 mA (12W)

CODE NO 143201
ELECTRONIC FLUO. 23W E27

CODE NO 143211
FLUO. 26W G24 q-3

CODE NO 143221
METAL HALIDE 35W G12



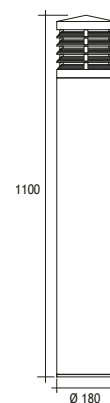
DION 1 GROUND (110 CM)

☀️ CODE NO 143431
LINEAR LED 4x350 mA (12W)

CODE NO 143401
ELECTRONIC FLUO. 23W E27

CODE NO 143411
FLUO. 26W G24 q-3

CODE NO 143421
METAL HALIDE 35W G12



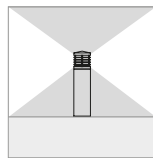
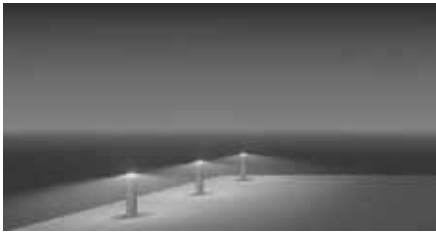


DION 2 WALL AND GROUND BOLLARDS

Class I IP65 IK10



EMFA's Dion series combines a die-cast aluminium head with an extrusion aluminium pipe to provide a sturdy, outdoor bollard. The bollards are designed to light pathways, landscapes and open spaces. The unit comes with 5 different heads for various light outputs and applications. A screwless bayonet lock system allows for easy dismounting of the head. The unit comes in 4 sizes: 300mm, 450mm, 700mm, and 1100mm, as well as with 3 lamp options: LED, Fluorescent, Metal Halide. In combination with the fluorescent lamp, an optional LED pilot lamp is available to light the bollard when the primary light source is off to continue marking a path while saving energy. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete.



Head
Die cast aluminium
With Screwless lock system
(Electrical lock on request)
Outer Protective Grill
Die cast aluminium
Diffuser
Frosted polycarbonate
Pipe
Extrusion aluminium
Paint
Electrostatic powder



Accessories:

2 x Leds Pilot Lamps

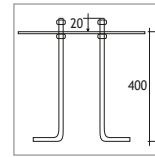
Lit when main Light Source is turned off.
Available in:

- Code No 956101 - Blue
- Code No 956102 - Red
- Code No 956103 - Yellow
- Code No 956104 - Green

Code Number should be indicated along with bollard code number

Anchor

Code No 955201



Code Number should be indicated along with bollard code number



Optional wood look finish. Please contact for additional information.

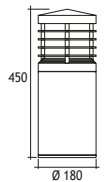
DION 2 GROUND (45 CM)

CODE NO 144231
LINEAR LED 4x350 mA (12W)

CODE NO 144201
ELECTRONIC FLUO. 23W E27

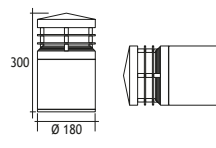
CODE NO 144211
FLUO. 26W G24 q-3

CODE NO 144221
METAL HALIDE 35W G12



DION 2 WALL (30 CM)

CODE NO 144101
FLUO. 10W G24 q-1



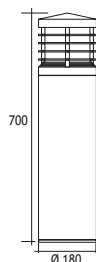
DION 2 GROUND (70 CM)

CODE NO 144341
LINEAR LED 4x350 mA (12W)

CODE NO 144301
ELECTRONIC FLUO. 23W E27

CODE NO 144311
FLUO. 26W G24 q-3

CODE NO 144321
METAL HALIDE 35W G12



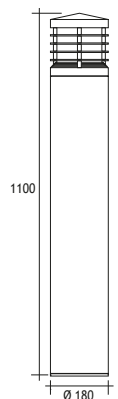
DION 2 GROUND (110 CM)

CODE NO 144431
LINEAR LED 4x350 mA (12W)

CODE NO 144401
ELECTRONIC FLUO. 23W E27

CODE NO 144411
FLUO. 26W G24 q-3

CODE NO 144421
METAL HALIDE 35W G12

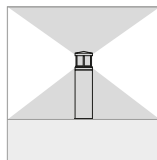


DION 3 WALL AND GROUND BOLLARDS

Class I IP65 IK08



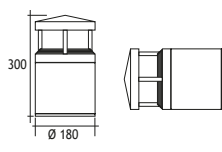
EMFA's Dion series combines a die-cast aluminium head with an extrusion aluminium pipe to provide a sturdy, outdoor bollard. The bollards are designed to light pathways, landscapes and open spaces. The unit comes with 5 different heads for various light outputs and applications. A screwless bayonet lock system allows for easy dismantling of the head. The unit comes in 4 sizes: 300mm, 450mm, 700mm, and 1100mm, as well as with 3 lamp options: LED, Fluorescent, Metal Halide. In combination with the fluorescent lamp, an optional LED pilot lamp is available to light the bollard when the primary light source is off to continue marking a path while saving energy. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete.



Head
Die cast aluminium
With Screwless lock system
(Electrical lock on request)
Diffuser
Frosted polycarbonate
Pipe
Extrusion aluminium
Paint
Electrostatic powder

DION 3 WALL (30 CM)

CODE NO 145101
FLUO. 10W G24 q-1



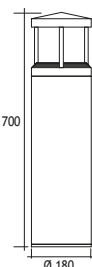
DION 3 GROUND (70 CM)

☀️ CODE NO 145341
LINEAR LED 4x350 mA (12W)

CODE NO 145301
ELECTRONIC FLUO. 23W E27

CODE NO 145311
FLUO. 26W G24 q-3

CODE NO 145321
METAL HALIDE 35W G12



Accessories:

2 x Leds Pilot Lamps

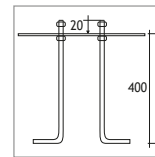
Lit when main Light Source is turned off.
Available in:

Code No 956101 - Blue
Code No 956102 - Red
Code No 956103 - Yellow
Code No 956104 - Green

Code Number should be indicated along with bollard code number

Anchor

Code No 955201



Code Number should be indicated along with bollard code number



Optional wood look finish. Please contact for additional information.

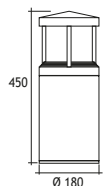
DION 3 GROUND (45 CM)

☀️ CODE NO 145231
LINEAR LED 4x350 mA (12W)

CODE NO 145201
ELECTRONIC FLUO. 23W E27

CODE NO 145211
FLUO. 26W G24 q-3

CODE NO 145221
METAL HALIDE 35W G12



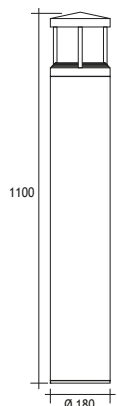
DION 3 GROUND (110 CM)

☀️ CODE NO 145431
LINEAR LED 4x350 mA (12W)

CODE NO 145401
ELECTRONIC FLUO. 23W E27

CODE NO 145411
FLUO. 26W G24 q-3

CODE NO 145421
METAL HALIDE 35W G12



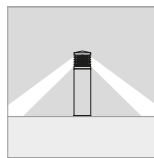


DION 4 WALL AND GROUND BOLLARDS

Class I IP65 IK08

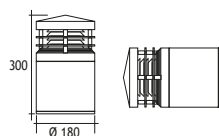


EMFA's Dion series combines a die-cast aluminium head with an extrusion aluminium pipe to provide a sturdy, outdoor bollard. The bollards are designed to light pathways, landscapes and open spaces. The unit comes with 5 different heads for various light outputs and applications. A screwless bayonet lock system allows for easy dismantling of the head. The unit comes in 4 sizes: 300mm, 450mm, 700mm, and 1100mm, as well as with 3 lamp options: LED, Fluorescent, Metal Halide. In combination with the fluorescent lamp, an optional LED pilot lamp is available to light the bollard when the primary light source is off to continue marking a path while saving energy. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete.



Head
Die cast aluminium
With Screwless lock system
(Electrical lock on request)
Outer Protective Grill
Die cast aluminium
Inner Asymmetrical Grill
Polycarbonate
Diffuser
Clear polycarbonate
Pipe
Extrusion aluminium
Paint
Electrostatic powder
DION 4 WALL (30 CM)

CODE NO 146101
FLUO. 10W G24 q-1

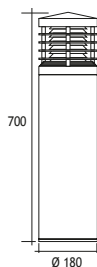


DION 4 GROUND (70 CM)

☀ CODE NO 146321
LINEAR LED 4x350 mA (12W)

CODE NO 146301
ELECTRONIC FLUO. 23W E27

CODE NO 146311
FLUO. 26W G24 q-3



Accessories:

2 x Leds Pilot Lamps

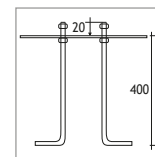
Lit when main Light Source is turned off.
Available in:

- Code No 956101 - Blue
- Code No 956102 - Red
- Code No 956103 - Yellow
- Code No 956104 - Green

Code Number should be indicated along with bollard code number

Anchor

Code No 955201



Code Number should be indicated along with bollard code number



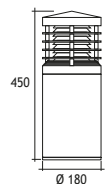
Optional wood look finish. Please contact for additional information.

DION 4 GROUND (45 CM)

☀ CODE NO 146221
LINEAR LED 4x350 mA (12W)

CODE NO 146201
ELECTRONIC FLUO. 23W E27

CODE NO 146211
FLUO. 26W G24 q-3

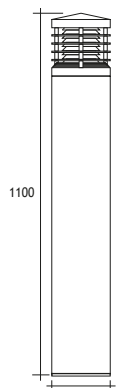


DION 4 GROUND (110 CM)

☀ CODE NO 146421
LINEAR LED 4x350 mA (12W)

CODE NO 146401
ELECTRONIC FLUO. 23W E27

CODE NO 146411
FLUO. 26W G24 q-3



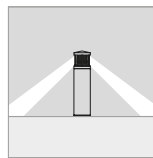
DION 5 WALL AND GROUND BOLLARDS

Class I IP65 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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EMFA's Dion series combines a die-cast aluminium head with an extrusion aluminium pipe to provide a sturdy, outdoor bollard. The bollards are designed to light pathways, landscapes and open spaces. The unit comes with 5 different heads for various light outputs and applications. A screwless bayonet lock system allows for easy dismantling of the head. The unit comes in 4 sizes: 300mm, 450mm, 700mm, and 1100mm, as well as with 3 lamp options: LED, Fluorescent, Metal Halide. In combination with the fluorescent lamp, an optional LED pilot lamp is available to light the bollard when the primary light source is off to continue marking a path while saving energy. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete.



Head
Die cast aluminium
With Screwless lock system
(Electrical lock on request)
Inner Asymmetrical Grill
Polycarbonate
Diffuser
Clear polycarbonate
Pipe
Extrusion aluminium
Paint
Electrostatic powder

Accessories:

2 x Leds Pilot Lamps

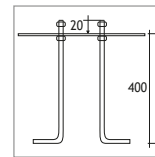
Lit when main Light Source is turned off.
Available in:

- Code No 956101 - Blue
- Code No 956102 - Red
- Code No 956103 - Yellow
- Code No 956104 - Green

Code Number should be indicated along with bollard code number

Anchor

Code No 955201



Code Number should be indicated along with bollard code number



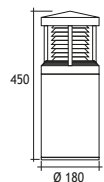
Optional wood look finish. Please contact for additional information.

DION 5 GROUND (45 CM)

☀️ CODE NO 147221
LINEAR LED 4x350 mA (12W)

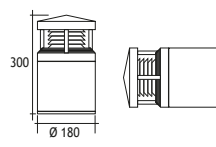
CODE NO 147201
ELECTRONIC FLUO. 23W E27

CODE NO 147211
FLUO. 26W G24 q-3



DION 5 WALL (30 CM)

CODE NO 147101
FLUO. 10W G24 q-1

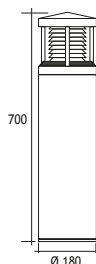


DION 5 GROUND (70 CM)

☀️ CODE NO 147321
LINEAR LED 4x350 mA (12W)

CODE NO 147301
ELECTRONIC FLUO. 23W E27

CODE NO 147311
FLUO. 26W G24 q-3

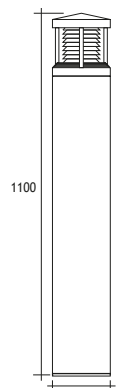


DION 5 GROUND (110 CM)

☀️ CODE NO 147421
LINEAR LED 4x350 mA (12W)

CODE NO 147401
ELECTRONIC FLUO. 23W E27

CODE NO 147411
FLUO. 26W G24 q-3





MILET BOLLARD

Class I IP65 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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The Milet Indirect series consists of an on-wall fixture and a bollard using LED, halogen or fluorescent. The fixtures are made of a combination of a die cast aluminium head and an aluminium pipe painted with electrostatic powder paint. The wall fixture allows for a custom made sign showing room numbers or names. For the LED versions, a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. For the halogen and fluorescent versions, an IP connection box is provided to allow for a secure connection of the on-site cable.

Cover

Die cast aluminium

Paint

Black or grey electrostatic powder

Pipe

Extrusion aluminium

Connection

IP connection box

Gaskets

Silicone

Diffusers

Polycarbonate



Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 40°

Diffuser : Polycarbonate

Cable : Potted 5 m 3x0,75 H03 VV-F

320 mA (11W) DOM LED 3000K

Code No

300 mm

291121

550 mm

291221

Lampholder : G9

Reflector : -

Diffuser : Polycarbonate

HALOGEN 240V 40W

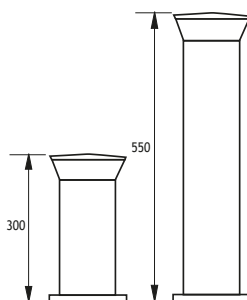
Code No

300 mm

291101

550 mm

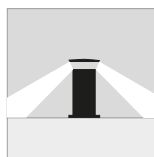
291201



Lampholder : Gx53

Reflector : -

Diffuser : Polycarbonate



ELECTRONIC CIRCULAR FLUO. 6W

Code No

300 mm

291111

550 mm

291211



BELLA LED BOLLARDS

Class I IP65 IK08

Head

Die cast aluminium

Diffuser

Tempered Glass 4 mm

Pipe

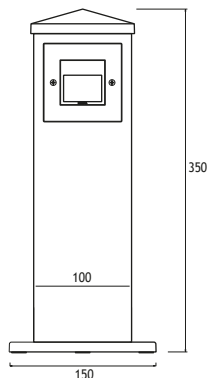
Extrusion aluminium

Base

Polyamide (black color)

Paint

Electrostatic powder



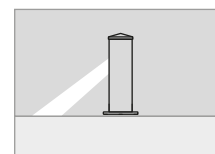
One Way Asymmetrical

Voltage : 240V AC with integrated driver
(12V DC or 24V DC on request)

Diffuser : Clear Glass 4 mm

Cable : Potted 5 m 3x0,75 H03 VV-F

			Total Lighting Output	Code No
1 Linear LED 3W				
☺ Warm White	3000 K	255 lm		149101
☹ Natural White	5000 K	295 lm		149102



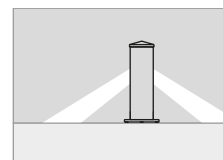
Two Ways Asymmetrical

Voltage : 240V AC with integrated driver
(12V DC or 24V DC on request)

Diffuser : Clear Glass 4 mm

Cable : Potted 5 m 3x0,75 H03 VV-F

			Total Lighting Output	Code No
2x1 Linear LED 3W				
☺ Warm White	3000 K	255 lm		149111
☹ Natural White	5000 K	295 lm		149112



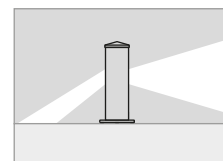
Two Ways Asymmetrical + Symmetrical

Voltage : 240V AC with integrated driver
(12V DC or 24V DC on request)

Diffuser : Clear Glass 4 mm

Cable : Potted 5 m 3x0,75 H03 VV-F

			Total Lighting Output	Code No
2x1 Linear LED 3W				
☹ Natural White	5000 K	295 lm		149121
☺ Warm White	3000 K	255 lm		149122



ANI ALUM LED BOLLARD

Class I IP55 IK08



EMFA's Ani Bollard combines a die-cast aluminium head housing an LED unit with an extrusion aluminium pipe. The bollard is designed to light pathways, landscapes and open spaces. The Ani bollard gives light only in the downward direction. This avoids any kind of glare and light pollution. The head and pipe are connected by a hidden screw within the pipe. The head contains LEDs that can be powered up to 12W. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete or a picket to mount into the earth.

Profile

Aluminium

Body

Die cast aluminium

Gaskets

Silicone

Diffusers

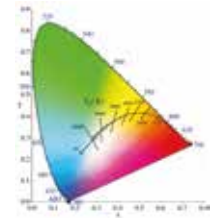
4 mm Tempered Glass

Screws

316L Stainless steel

Glands

PG 11



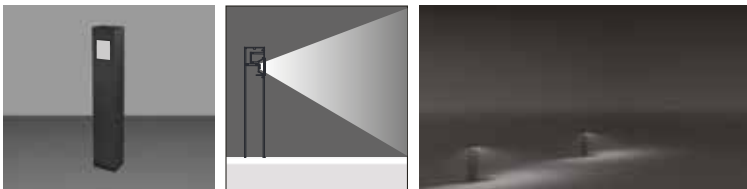
“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

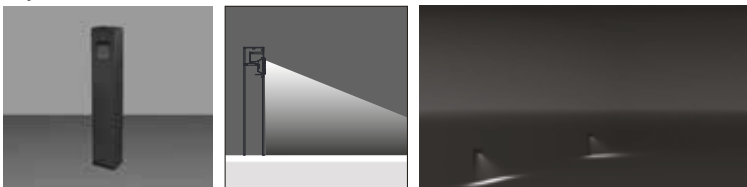
LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Symmetrical



Asymmetrical



Asym. Glass



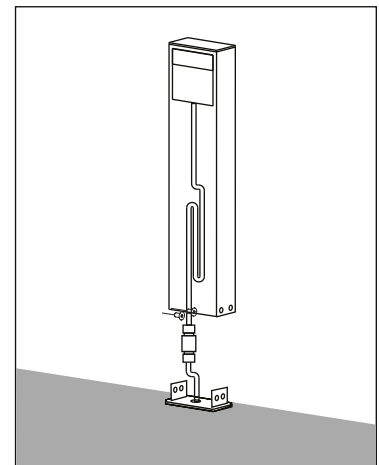
Trenched Glass



Milky Glass



Clear Glass



ANI 1 ALUM LED BOLLARD

Class I IP55 IK08

Available in any of these RAL colors



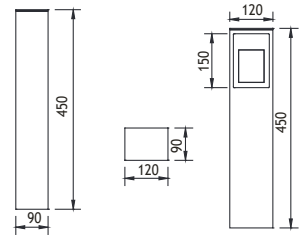
Symmetrical

- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : >80
- L.O.R %** : %70



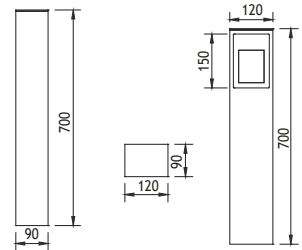
450mm

Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	452001	☀ 3000 K	600 lm	850 lm
12W	452011	☀ 3000 K	1020 lm	1460 lm
6W	452002	☾ 4000 K	690 lm	977 lm
12W	452012	☾ 4000 K	1173 lm	1679 lm



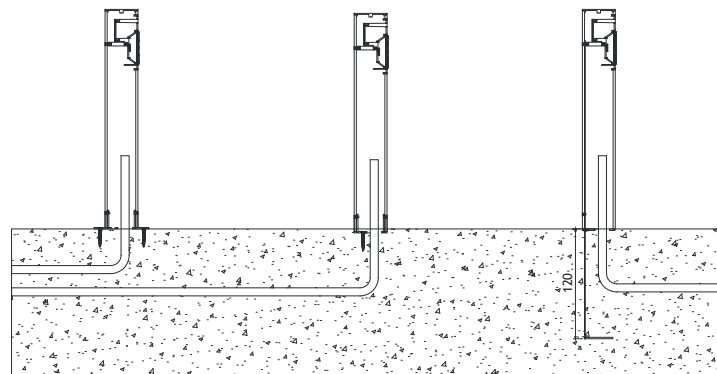
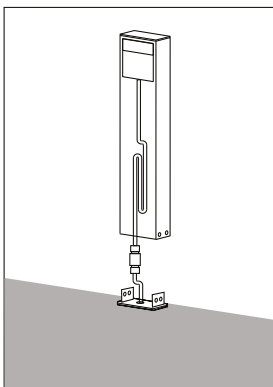
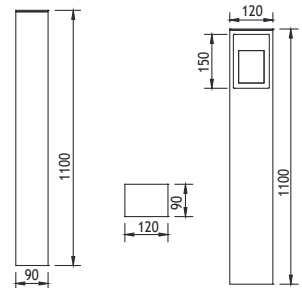
700mm

Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	452101	☀ 3000 K	600 lm	850 lm
12W	452111	☀ 3000 K	1020 lm	1460 lm
6W	452102	☾ 4000 K	690 lm	977 lm
12W	452112	☾ 4000 K	1173 lm	1679 lm



1100mm

Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	452201	☀ 3000 K	600 lm	850 lm
12W	452211	☀ 3000 K	1020 lm	1460 lm
6W	452202	☾ 4000 K	690 lm	977 lm
12W	452212	☾ 4000 K	1173 lm	1679 lm



Concrete Mounting Step

Concrete Mounting Flush

Galvanized Steel Anchor

ANI 1 ALUM LED BOLLARD

Class I IP55 IK08

Available in any of these RAL colors

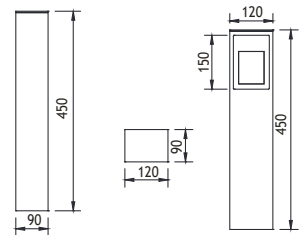
Asymmetrical

- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : >80
- L.O.R %** : %70



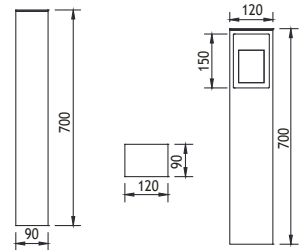
450mm

Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	452501	☀ 3000 K	600 lm	850 lm
12W	452511	☀ 3000 K	1020 lm	1460 lm
6W	452502	☾ 4000 K	690 lm	977 lm
12W	452512	☾ 4000 K	1173 lm	1679 lm



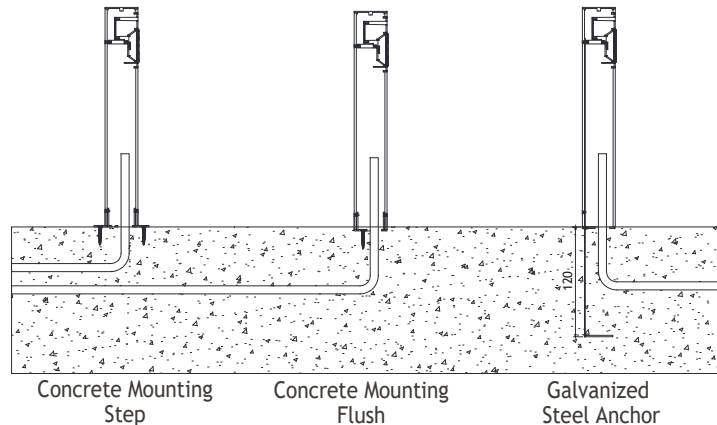
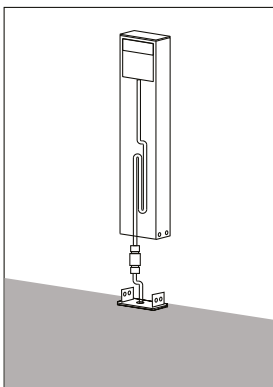
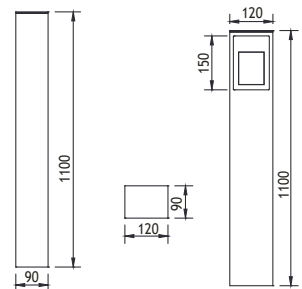
700mm

Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	452601	☀ 3000 K	600 lm	850 lm
12W	452611	☀ 3000 K	1020 lm	1460 lm
6W	452602	☾ 4000 K	690 lm	977 lm
12W	452612	☾ 4000 K	1173 lm	1679 lm



1100mm

Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
6W	452701	☀ 3000 K	600 lm	850 lm
12W	452711	☀ 3000 K	1020 lm	1460 lm
6W	452702	☾ 4000 K	690 lm	977 lm
12W	452712	☾ 4000 K	1173 lm	1679 lm



ANI 4 ALUM LED BOLLARD

Class I IP55 IK08



EMFA's Ani Bollard combines a die-cast aluminium head housing an LED unit with an extrusion aluminium pipe. The bollard is designed to light pathways, landscapes and open spaces. The Ani bollard gives light only in the downward direction. This avoids any kind of glare and light pollution. The head and pipe are connected by a hidden screw within the pipe. The head contains LEDs that can be powered up to 12W. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete or a picket to mount into the earth.

Profile

Aluminium

Body

Die cast aluminium

Gaskets

Silicone

Diffusers

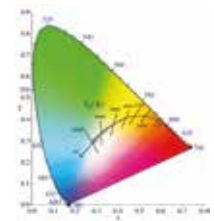
4 mm Tempered Glass

Screws

316L Stainless steel

Glands

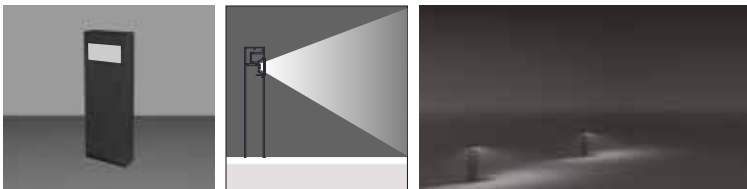
PG 11



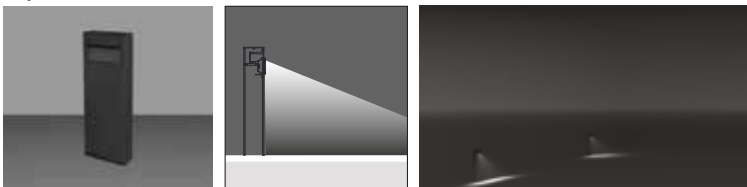
“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

Symmetrical



Asymmetrical



Asym. Glass



Trenched Glass



Milky Glass

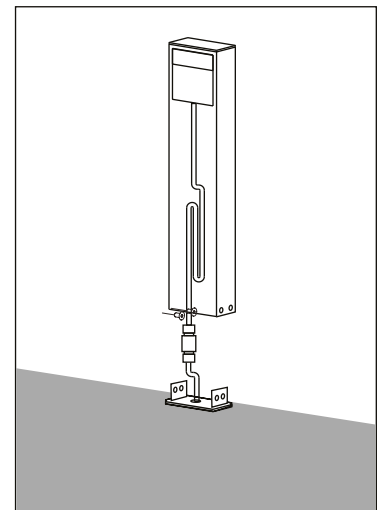


Clear Glass



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 100lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.



ANI 4 ALUM LED BOLLARD

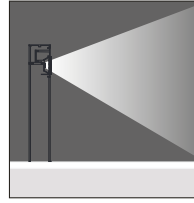
Class I IP55 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015

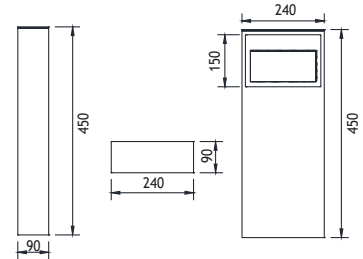
Symmetrical

- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : >80
- L.O.R %** : %70



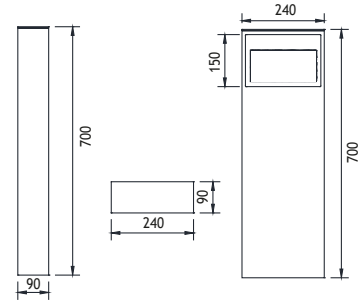
450mm

Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	459001	☀ 3000 K	1780 lm	2550 lm
48W	459011	☀ 3000 K	3080 lm	4300 lm
24W	459002	☾ 4000 K	2047 lm	2932 lm
48W	459012	☾ 4000 K	3542 lm	5060 lm



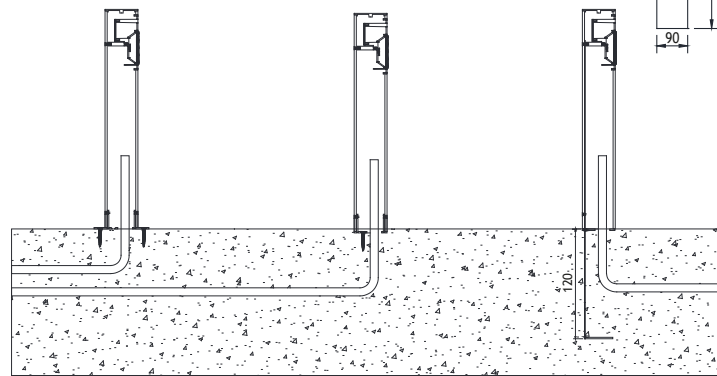
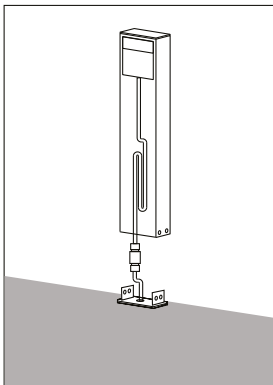
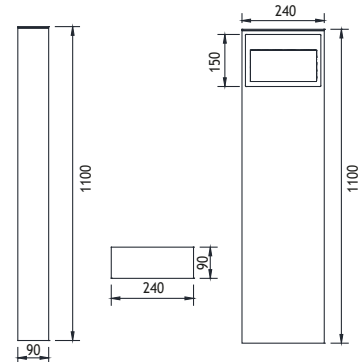
700mm

Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	459101	☀ 3000 K	1780 lm	2550 lm
48W	459111	☀ 3000 K	3080 lm	4300 lm
24W	459102	☾ 4000 K	2047 lm	2932 lm
48W	459112	☾ 4000 K	3542 lm	5060 lm



1100mm

Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	459201	☀ 3000 K	1780 lm	2550 lm
48W	459211	☀ 3000 K	3080 lm	4300 lm
24W	459202	☾ 4000 K	2047 lm	2932 lm
48W	459212	☾ 4000 K	3542 lm	5060 lm



Concrete Mounting Step

Concrete Mounting Flush

Galvanized Steel Anchor

ANI 4 ALUM LED BOLLARD

Class I IP55 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015

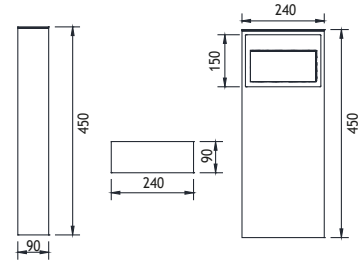
Asymmetrical

- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : >80
- L.O.R %** : %70



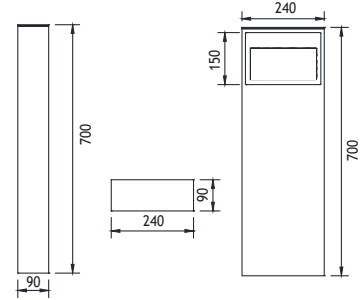
450mm

Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	459501	☀ 3000 K	1780 lm	2550 lm
48W	459511	☀ 3000 K	3080 lm	4300 lm
24W	459502	☾ 4000 K	2047 lm	2932 lm
48W	459512	☾ 4000 K	3542 lm	5060 lm



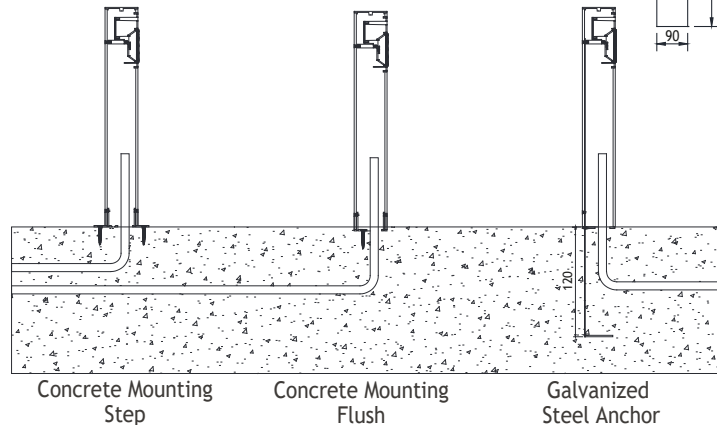
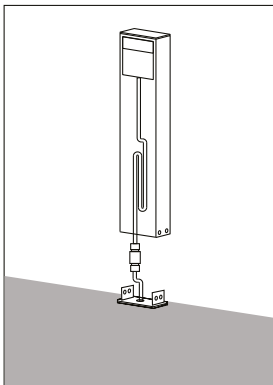
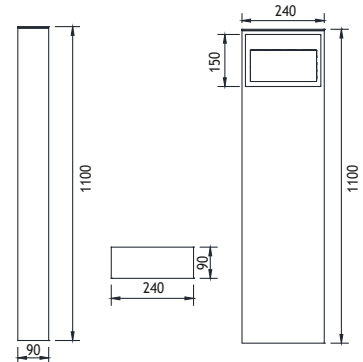
700mm

Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	459601	☀ 3000 K	1780 lm	2550 lm
48W	459611	☀ 3000 K	3080 lm	4300 lm
24W	459602	☾ 4000 K	2047 lm	2932 lm
48W	459612	☾ 4000 K	3542 lm	5060 lm



1100mm

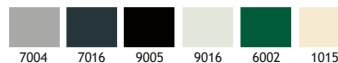
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	459701	☀ 3000 K	1780 lm	2550 lm
48W	459711	☀ 3000 K	3080 lm	4300 lm
24W	459702	☾ 4000 K	2047 lm	2932 lm
48W	459712	☾ 4000 K	3542 lm	5060 lm



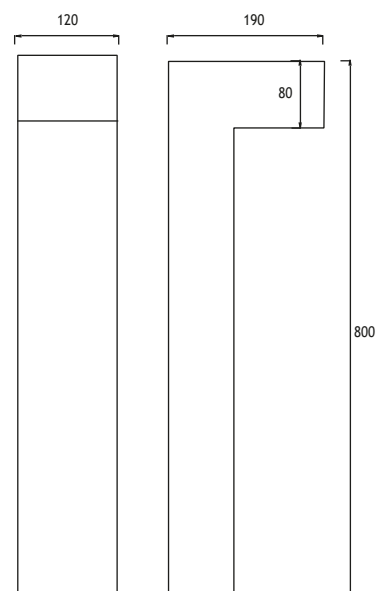
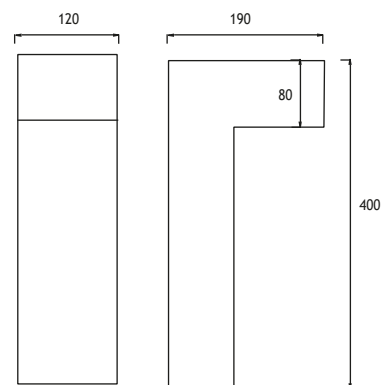
L TYPE LED BOLLARDS

Class I IP65

Available in any of these RAL colors



- Head**
- Die cast aluminium
- Diffuser**
- Tempered Glass 4 mm
- Pipe**
- Extrusion aluminium
- Base**
- Die cast aluminium
- Paint**
- Electrostatic powder



40 cm Bollard

Voltage : 240V AC with integrated driver
(12V DC or 24V DC on request)

Diffuser : Clear Glass 4 mm

Cable : Potted 5 m 3x0,75 H03 VV-F

COB LED 3W		Total Lighting Output	Code No
☾ Warm White	3000 K	255 lm	125001
☀ Natural White	5000 K	295 lm	125002

80 cm Bollard

Voltage : 240V AC with integrated driver
(12V DC or 24V DC on request)

Diffuser : Clear Glass 4 mm

Cable : Potted 5 m 3x0,75 H03 VV-F

COB LED 6W		Total Lighting Output	Code No
☾ Warm White	3000 K	255 lm	125101
☀ Natural White	5000 K	295 lm	125102



POLARIS 1 ALUMINIUM BOLLARDS

Class I IP43 IK10

Available in any of these RAL colors

					
7004	7016	9005	9016	6002	1015

- Bottom Base**
Polyamide (black color)
- Outer Grill**
Die cast aluminium
- Pipe**
Extrusion aluminium
- Paint**
Electrostatic powder
- Diffuser**
Polycarbonate or
Glass (incandescent and mercury lamps)
- Anchor**



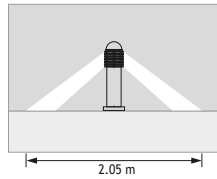
POLARIS 1 (45 CM)

CODE NO 124101
INCANDESCENT 60W E27

CODE NO 124111
MERCURY 80W E27

CODE NO 124121
ELECTRONIC FLUO. 23W E27

CODE NO 124131
FLUO. 26W G24 d-3



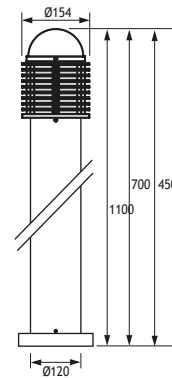
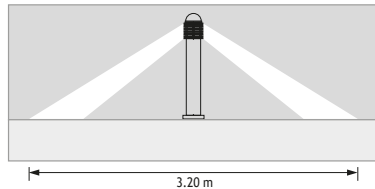
POLARIS 1 (70 CM)

CODE NO 124201
INCANDESCENT 60W E27

CODE NO 124211
MERCURY 80W E27

CODE NO 124221
ELECTRONIC FLUO. 23W E27

CODE NO 124231
FLUO. 26W G24 d-3



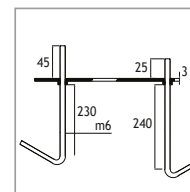
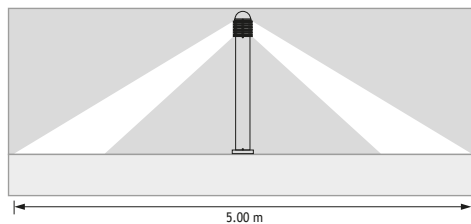
POLARIS 1 (110 CM)

CODE NO 124301
INCANDESCENT 60W E27

CODE NO 124311
MERCURY 80W E27

CODE NO 124321
ELECTRONIC FLUO. 23W E27

CODE NO 124331
FLUO. 26W G24 d-3



Anchor

Code No **953611**

Code Number should be indicated along with bollard code number

POLARIS 2 ALUMINIUM BOLLARDS

Class I IP43 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

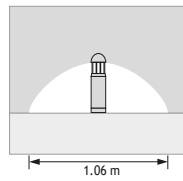
- Bottom Base**
Polyamide (black color)
- Inner Grill**
Polycarbonate
- Pipe**
Extrusion aluminium
- Paint**
Electrostatic powder
- Diffuser**
Polycarbonate
- Anchor**



POLARIS 2 (45 CM)

CODE NO 126101
ELECTRONIC FLUO. 23W E27

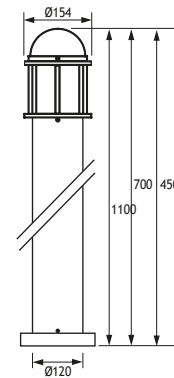
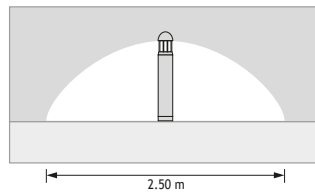
CODE NO 126111
FLUO. 26W G24 d-3



POLARIS 2 (70 CM)

CODE NO 126201
ELECTRONIC FLUO. 23W E27

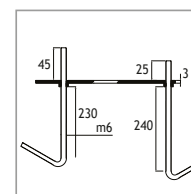
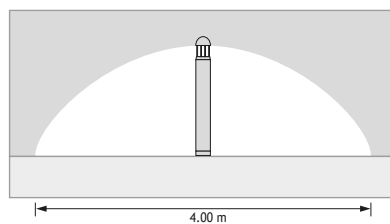
CODE NO 126211
FLUO. 26W G24 d-3



POLARIS 2 (110 CM)

CODE NO 126301
ELECTRONIC FLUO. 23W E27

CODE NO 126311
FLUO. 26W G24 d-3



Anchor

Code No **953621**

Code Number should be indicated along with bollard code number



RAMBO VANDALPROOF BOLLARD

Class I IP65 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

Head
Die cast aluminium
Pipe
Steel
Paint
Electrostatic powder paint
Diffuser
Polycarbonate
Anchor
Die cast iron

(110 CM)

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)
Cable : Potted 5 m 3x0,75 H03 VV-F

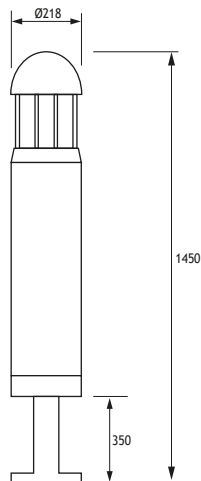
4 x 350 mA (12 W) LINEAR LED	Total Lighting Output	Code No
☀ Warm White 3000 K	1400 lm	128141

Lampholder : 27
INCANDESCENT 100W Code No 128101

Lampholder : 27
MERCURY 80W Code No 128111







Lampholder : 27
ELECTRONIC FLUO. 23W Code No 128121

Lampholder : 27
FLUO. 26W Code No 128131



BELKIS 1 BOLLARDS (600 mm) Class I IP55

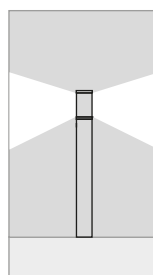
Available in any of these RAL colors

					
7004	7016	9005	9016	6002	1015

Lampholder : G24 q-1
 Reflector : -
 Diffuser : Acrylic Pipe
 Transformer : Electronic

COMPACT FLUO. 13W

Code No
292201

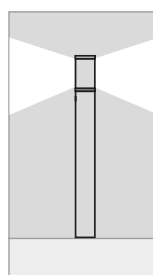
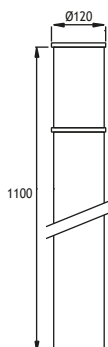


BELKIS 5 BOLLARDS (1100 mm) Class I IP55

Lampholder : G24 d-3
 Reflector : -
 Diffuser : Acrylic Pipe

COMPACT FLUO. 26W

Code No
292301

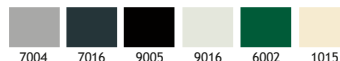




GOREME 1 LED BOLLARDS

Class I IP65 IK10

Available in any of these RAL colors



Bottom Base

Polyamide (black color)

Outer Grill

Die cast aluminium

Pipe

Extrusion aluminium

Paint

Electrostatic powder

Diffuser

Polycarbonate or

Glass (incandescent and mercury lamps)

Anchor

Voltage : 240V AC with integrated driver
(24V AC or DC on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

GOREME 1 (45 CM)

			Total Lighting Output	Code No
4 x 350 mA (12 W) LINEAR LED				
☀ Warm White	3000 K	1054 lm	127001	
☾ Natural White	4000 K	1156 lm	127002	

4 x 700 mA (24 W) LINEAR LED

☀ Warm White	3000 K	1900 lm	127011
☾ Natural White	4000 K	2080 lm	127012

GOREME 1 (70 CM)

			Total Lighting Output	Code No
4 x 350 mA (12 W) LINEAR LED				
☀ Warm White	3000 K	1054 lm	127101	
☾ Natural White	4000 K	1156 lm	127102	

4 x 700 mA (24 W) LINEAR LED

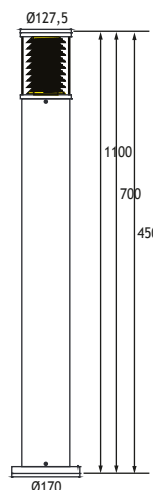
☀ Warm White	3000 K	1900 lm	127111
☾ Natural White	4000 K	2080 lm	127112

GOREME 1 (110 CM)

			Total Lighting Output	Code No
4 x 350 mA (12 W) LINEAR LED				
☀ Warm White	3000 K	1054 lm	127201	
☾ Natural White	4000 K	1156 lm	127202	

4 x 700 mA (24 W) LINEAR LED

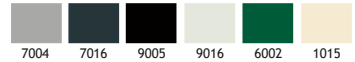
☀ Warm White	3000 K	1900 lm	127211
☾ Natural White	4000 K	2080 lm	127212



GOREME 2

LED BOLLARDS Class I IP65 IK10

Available in any
of these RAL colors



Bottom Base

Polyamide (black color)

Inner Grill

Polycarbonate

Pipe

Extrusion aluminium

Paint

Electrostatic powder

Diffuser

Polycarbonate

Anchor

Voltage : 240V AC with integrated driver
(24V AC or DC on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

GOREME 2 (45 CM)

4 x 350 mA (12 W) LINEAR LED		Total Lighting Output	Code No
☀ Warm White	3000 K	1054 lm	127501
☾ Natural White	4000 K	1156 lm	127502

4 x 700 mA (24 W) LINEAR LED

☀ Warm White	3000 K	1900 lm	127511
☾ Natural White	4000 K	2080 lm	127512

GOREME 2 (70 CM)

4 x 350 mA (12 W) LINEAR LED		Total Lighting Output	Code No
☀ Warm White	3000 K	1054 lm	127601
☾ Natural White	4000 K	1156 lm	127602

4 x 700 mA (24 W) LINEAR LED

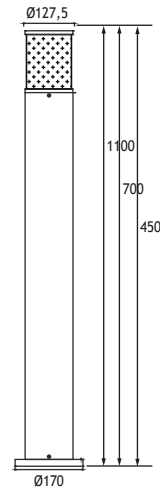
☀ Warm White	3000 K	1900 lm	127611
☾ Natural White	4000 K	2080 lm	127612

GOREME 2 (110 CM)

4 x 350 mA (12 W) LINEAR LED		Total Lighting Output	Code No
☀ Warm White	3000 K	1054 lm	127701
☾ Natural White	4000 K	1156 lm	127702

4 x 700 mA (24 W) LINEAR LED

☀ Warm White	3000 K	1900 lm	127711
☾ Natural White	4000 K	2080 lm	127712






LARA

ACRYLIC BOLLARDS

Class I IP55

Available in any of these RAL colors

					
7004	7016	9005	9016	6002	1015

LARA (35 cm)

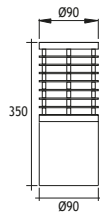
LARA (35 cm)

Lampholder : G24 q-1

Reflector : -

Diffuser : Acrylic Pipe

Transformer : Electronic



Code No
294101

COMPACT FLUO. 13W



LARA (60 cm)

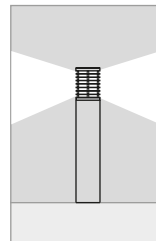
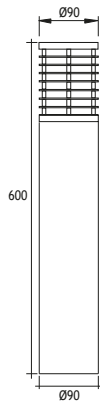
LARA (60 cm)

Lampholder : G24 q-1

Reflector : -

Diffuser : Acrylic Pipe

Transformer : Electronic



Code No
294201

COMPACT FLUO. 13W





BOW

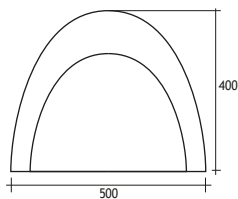
GARDEN FIXTURE

Class I IP44 IK10

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

Body
Glass reinforced polyester
Diffuser
Acrylic
Reflector
Anodized aluminium
Bracket
Stainless Steel



Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Cable : Potted 5 m 3x0,75 H03 VV-F

		Total Lighting Output	Code No
☀ Warm White	3000 K	700 lm	129121

Lampholder : G24 d-1	Code No	Lampholder : G24 d-2	Code No
1 x FLUO 13W	129101	1 x FLUO 18W	129111

MUSHROOM

GARDEN FIXTURE

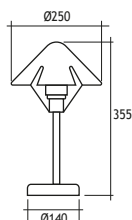
Class I IP67 IK10

Top Cover
Aluminium
Inner Body
Die cast aluminium
Diffuser
Tempered Glass
Gaskets
Silicone

Lampholder : Gu10
HALOGEN 240V 50W

Code No
129501

ACCESSORY : Picket
CODE NO 953501



Stainless Steel
Underwater



ATLANTIS UNDERWATER LED FIXTURE

Class III IP68 IK10

The Atlantis Underwater series is specially designed to light pools, fountains and water features with high power LED light. The series is made of 316L stainless steel to withstand salt water and chlorine. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also possible. The series comes as recessed, surface mount or spots. The spots are heavy duty with stainless steel brackets for sturdy fixing. The bodies are filled with cast resin and a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired light effect.

Frame

316L Stainless Steel

Body

316L Stainless Steel

Recessing Tube

Aluminium

Gaskets

Silicone

Diffusers

Tempered Glass

Screws

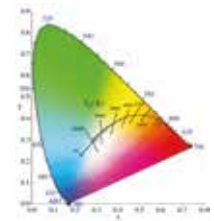
Stainless Steel

Mounting Brackets

316L Stainless Steel

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

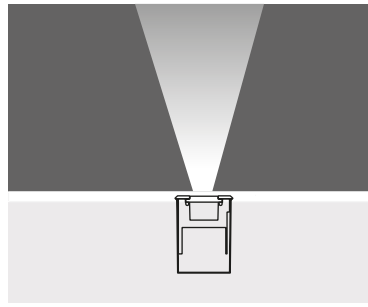
Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

ATLANTIS

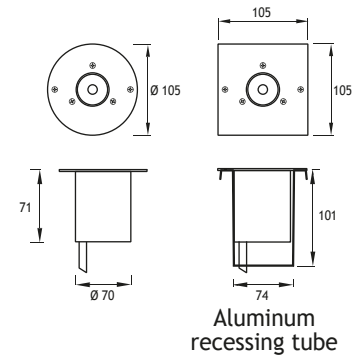
UNDERWATER RECESSED LED FIXTURES Class III IP68 IK10

ATLANTIS 1 With Recessing Tube



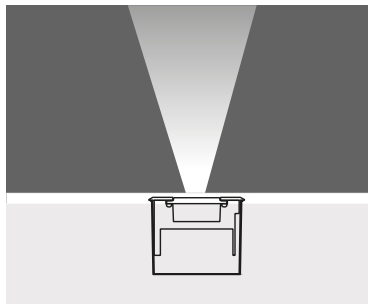
1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

	Total Lighting Output	Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀ Warm White	3000 K	85 lm	225 lm	421101	421111	421201	421211
☁ Natural White	4500 K	85 lm	225 lm	421106	421116	421202	421212
☀ Cool White	6000 K	102 lm	270 lm	421107	421117	421203	421213
🌊 Blue				421102	421112	421204	421214
🔴 Red				421103	421113	421205	421215
🟡 Amber				421104	421114	421206	421216
🟢 Green				421105	421115	421207	421217



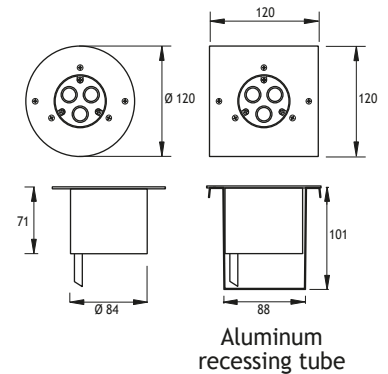
- Voltage** : 12V AC or DC (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS 2 With Recessing Tube



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

	Total Lighting Output	Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	421121	421131	421301	421311
☁ Natural White	4500 K	255 lm	675 lm	421126	421136	421302	421312
☀ Cool White	6000 K	306 lm	810 lm	421127	421137	421303	421313
🌊 Blue				421122	421132	421304	421314
🔴 Red				421123	421133	421305	421315
🟡 Amber				421124	421134	421306	421316
🟢 Green				421125	421135	421307	421317

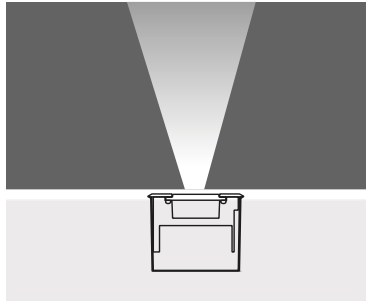


- Voltage** : 12V AC or DC (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS

UNDERWATER RECESSED RGB LED FIXTURE Class III IP68 IK10

ATLANTIS 2 With Recessing Tube

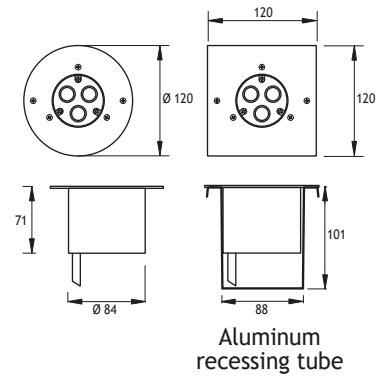


9 x 350 mA (9 W) RGB LED

- Voltage : 40V DC
- Lens : 25° or 40°
- Diffuser : 8 mm Clear Glass (Frosted Glass on request)
- Cable : Potted 10 m 4x0,75 H03 VV-F



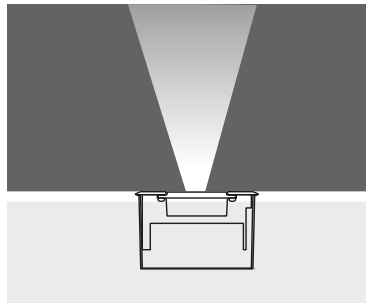
Code No
Round Square
421141 421151



ATLANTIS UNDERWATER RECESSED LED FIXTURES

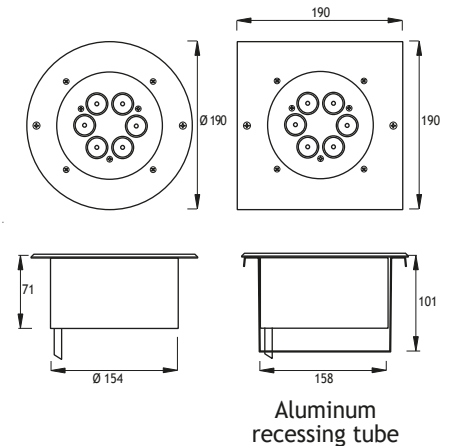
Class III IP68 IK10

ATLANTIS 5 With Recessing Tube



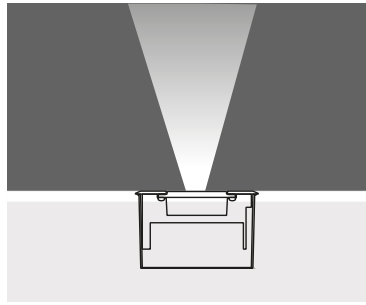
6 x 350 mA (6 W) LED or 6 x 700 mA (18 W) LED

	Total Lighting Output	6W		6W Round	6W Square	18W Round	18W Square
		6W	18W				
☀ Warm White	3000 K	510 lm	1350 lm	405301	405311	421801	421811
☁ Natural White	4500 K	510 lm	1350 lm	405306	405316	421802	421812
☀ Cool White	6000 K	612 lm	1620 lm	405307	405317	421803	421813
🌊 Blue				405302	405312	421804	421814
🔴 Red				405303	405313	421805	421815
🟡 Amber				405304	405314	421806	421816
🟢 Green				405305	405315	421807	421817



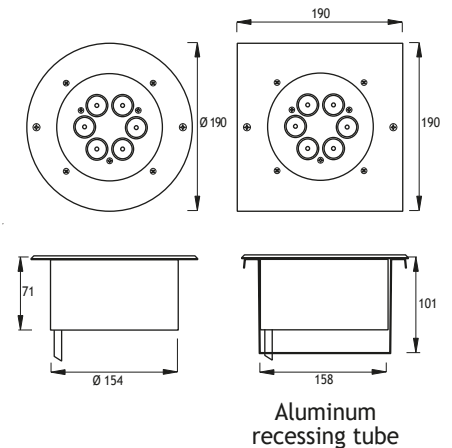
- Voltage** : 12V AC or DC (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS 5 With Recessing Tube



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

	Total Lighting Output	9W		9W Round	9W Square	27W Round	27W Square
		9W	27W				
☀ Warm White	3000 K	765 lm	2100 lm	405321	405331	421821	421831
☁ Natural White	4500 K	765 lm	2100 lm	405326	405336	421822	421832
☀ Cool White	6000 K	810 lm	2520 lm	405327	405337	421823	421833
🌊 Blue				405322	405332	421824	421834
🔴 Red				405323	405333	421825	421835
🟡 Amber				405324	405334	421826	421836
🟢 Green				405325	405335	421827	421837

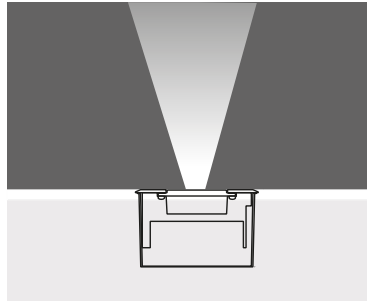


- Voltage** : 12V AC or DC (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS UNDERWATER RECESSED RGB LED FIXTURES

Class III IP68 IK10

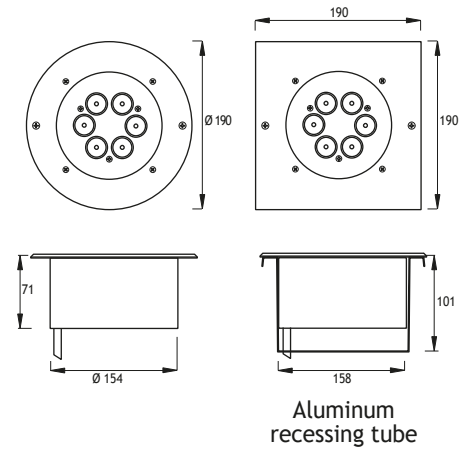
ATLANTIS 27 With Recessing Tube



27 x 350 mA (30 W) RGB LED

- Voltage** : 40V DC
- Lens** : 25° or 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F

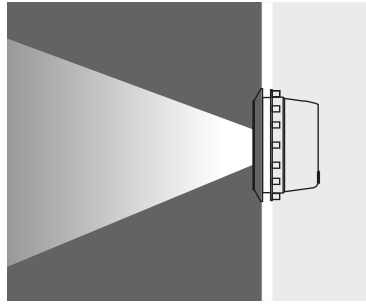
Code No
 Round Square
 405341 405351



ATLANTIS 27

SWIMMING POOL LED FIXTURE Class III IP68 IK10

ATLANTIS 27 Swimming Pool



6 x 350 mA (6 W) LED or 6 x 700 mA (18 W) LED

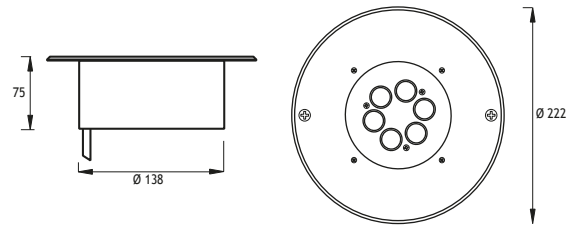
		Total Lighting Output		6W	18W
		6W	18W		
☀ Warm White	3000 K	510 lm	1350 lm	405471	421701
☀ Natural White	4500 K	510 lm	1350 lm	405476	421702
☀ Cool White	6000 K	612 lm	1620 lm	405477	421703
🌊 Blue				405472	421704
🔴 Red				405473	421705
🟡 Amber				405474	421706
🟢 Green				405475	421707

Voltage : 12V AC or DC (24V AC or DC on request)

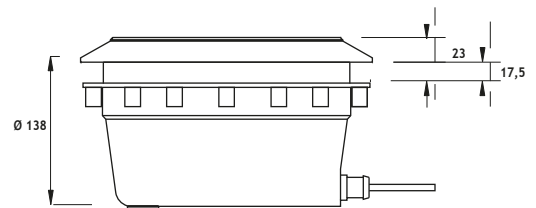
Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

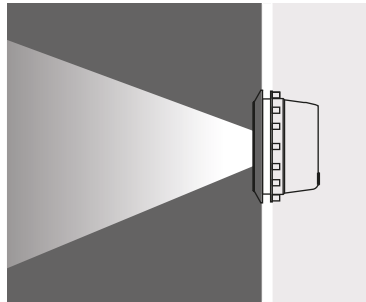


With Plastic Recessing Tube



LIGHTING NICHE SET
CODE NO 953701

ATLANTIS 27 Swimming Pool



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

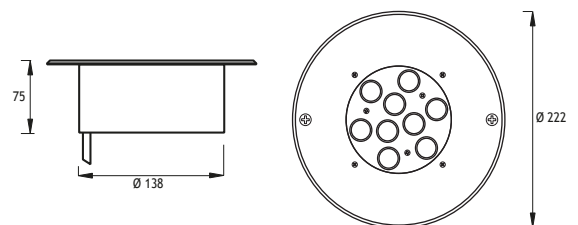
		Total Lighting Output		9W	27W
		9W	27W		
☀ Warm White	3000 K	765 lm	2100 lm	405481	421711
☀ Natural White	4500 K	765 lm	2100 lm	405486	421712
☀ Cool White	6000 K	810 lm	2520 lm	405487	421713
🌊 Blue				405482	421714
🔴 Red				405483	421715
🟡 Amber				405484	421716
🟢 Green				405485	421717

Voltage : 12V AC or DC (24V AC or DC on request)

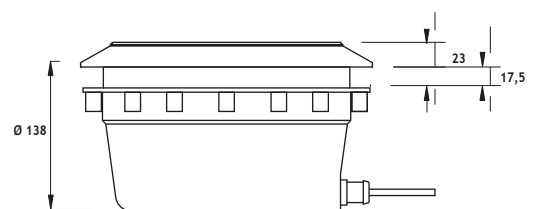
Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F



With Plastic Recessing Tube

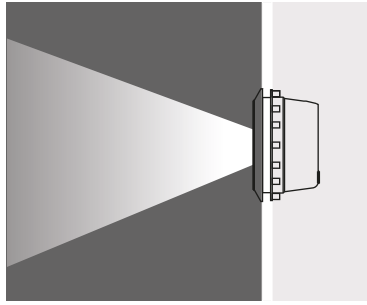


LIGHTING NICHE SET
CODE NO 953701

ATLANTIS 27

SWIMMING POOL RGB LED FIXTURE Class III IP68 IK10

ATLANTIS 27 Swimming Pool



Body

316L Stainless Steel Pipe

Frame

4 mm Polished Stainless Steel

Screws

316L Stainless Steel

Diffuser

8 mm Clear Glass

Gasket

Silicone

Remote Gear Box

240 VAC Class I

Control by DMX, remote control or push button

27 x 350 mA (30 W) RGB LED

Voltage : 40V DC Class III

Lens : 25°, 40°

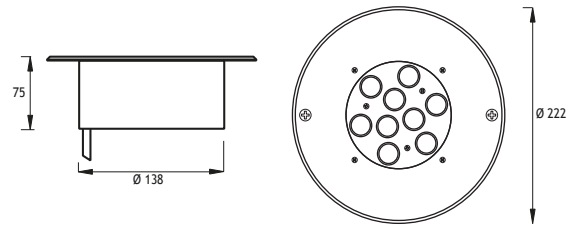
Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F

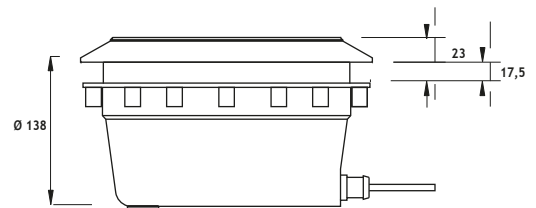
(Up to 100 m possible)

RGB LED

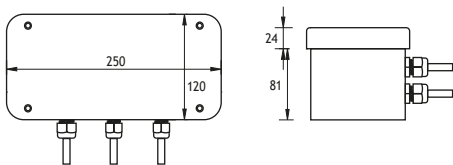
CODE NO 425311 ROUND FRAME 



With Plastic Recessing Tube

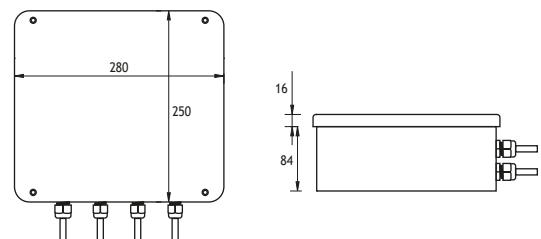


LIGHTING NICHE SET
CODE NO 953701



CODE NO 953702

SLIM IP 65 CONTROL BOX (For Max. 1 RGBox)
GLASS REINFORCED POLYESTER BODY



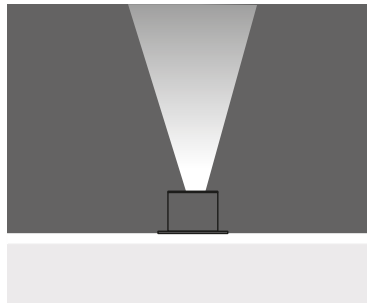
CODE NO 953703

WIDE IP 65 CONTROL BOX (For Max. 3 RGBoxes)
GLASS REINFORCED POLYESTER BODY

ATLANTIS

UNDERWATER SURFACE MOUNTED LED FIXTURES Class III IP68 IK10

ATLANTIS 1



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

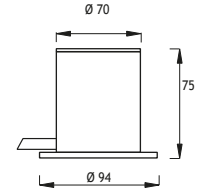
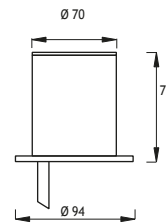
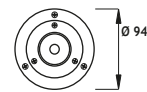
		Total Lighting Output		1W	3W
		1W	3W		
☀ Warm White	3000 K	85 lm	225 lm	405361	421321
☀ Natural White	4500 K	85 lm	225 lm	405366	421322
☀ Cool White	6000 K	102 lm	270 lm	405367	421323
🌊 Blue				405362	421324
🔴 Red				405363	421325
🟡 Amber				405364	421326
🟢 Green				405365	421327

Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

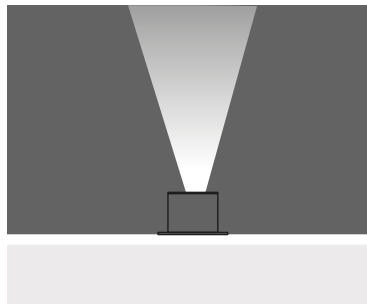
Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 m 2x0,75 H03 VV-F



Cable exits from bottom Cable exits from side

ATLANTIS 2



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

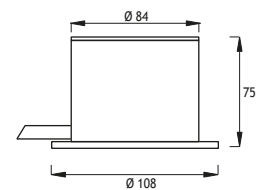
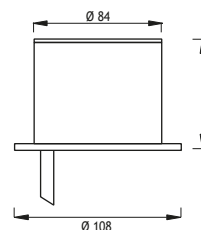
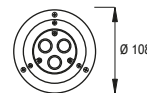
		Total Lighting Output		3W	9W
		3W	9W		
☀ Warm White	3000 K	255 lm	675 lm	405371	421331
☀ Natural White	4500 K	255 lm	675 lm	405376	421332
☀ Cool White	6000 K	306 lm	810 lm	405377	421333
🌊 Blue				405372	421334
🔴 Red				405373	421335
🟡 Amber				405374	421336
🟢 Green				405375	421337

Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 m 2x0,75 H03 VV-F

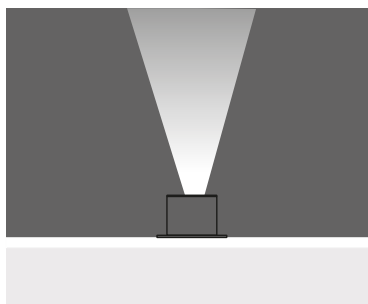


Cable exits from bottom Cable exits from side

ATLANTIS

UNDERWATER SURFACE MOUNTED RGB LED FIXTURES Class III IP68 IK10

ATLANTIS 2



9 x 350 mA (9 W) RGB LED

Voltage : 40V DC

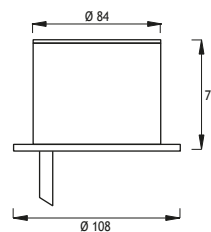
Lens : 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

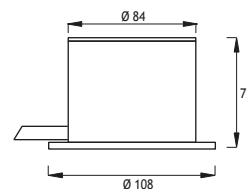
Cable : Potted 10 m 4x0,75 H03 VV-F



Code No
405201



Cable exits from bottom

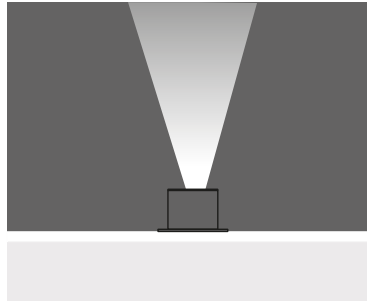


Cable exits from side

ATLANTIS

UNDERWATER SURFACE MOUNTED LED FIXTURES Class III IP68 IK10

ATLANTIS 5



6 x 350 mA (6 W) LED or 6 x 700 mA (18 W) LED

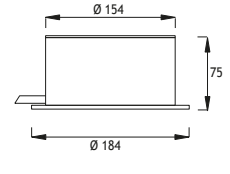
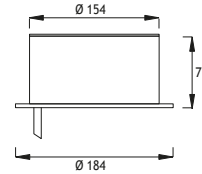
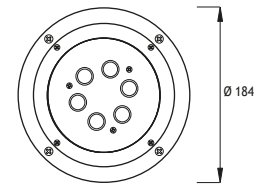
		Total Lighting Output		6W	18W
		6W	18W		
☀ Warm White	3000 K	510 lm	1350 lm	405381	421841
☀ Natural White	4500 K	510 lm	1350 lm	405386	421842
☀ Cool White	6000 K	612 lm	1620 lm	405387	421843
🌊 Blue				405382	421844
🔴 Red				405383	421845
🟡 Amber				405384	421846
🟢 Green				405385	421847

Voltage : 24V AC or DC on request

Lens : 10°, 25°, 40°

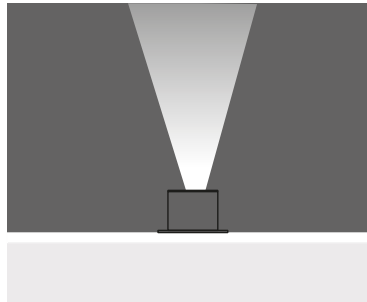
Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 m 2x0,75 H03 VV-F



Cable exits from bottom Cable exits from side

ATLANTIS 5



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

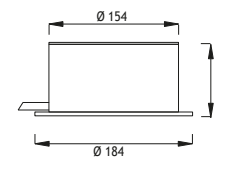
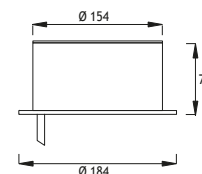
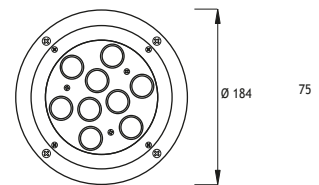
		Total Lighting Output		9W	27W
		9W	27W		
☀ Warm White	3000 K	765 lm	2100 lm	405391	421851
☀ Natural White	4500 K	765 lm	2100 lm	405396	421852
☀ Cool White	6000 K	810 lm	2520 lm	405397	421853
🌊 Blue				405392	421854
🔴 Red				405393	421855
🟡 Amber				405394	421856
🟢 Green				405395	421857

Voltage : 24V AC or DC on request

Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 m 2x0,75 H03 VV-F

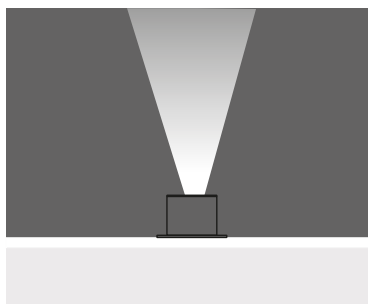


Cable exits from bottom Cable exits from side

ATLANTIS

UNDERWATER SURFACE MOUNTED RGB LED FIXTURES Class III IP68 IK10

ATLANTIS 27



27 x 350 mA (30 W) RGB LED

Voltage : 40V DC

Lens : 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

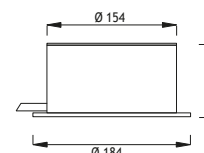
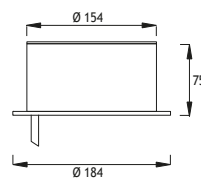
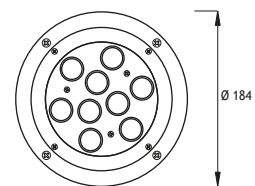
Cable : Potted 10 m 4x0,75 H03 VV-F

RGB LED



Code No

405411



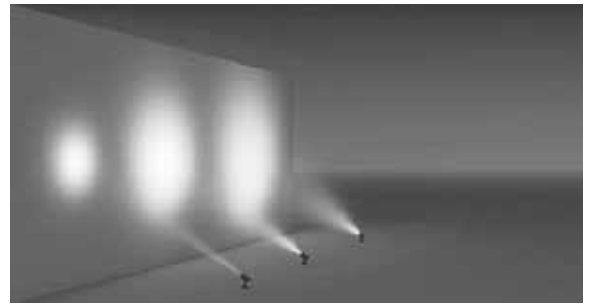
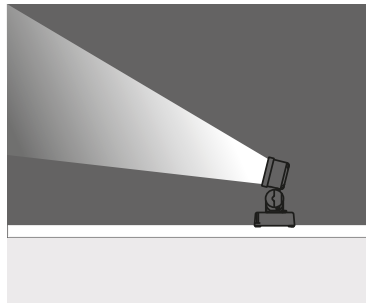
Cable exits from bottom Cable exits from side



ATLANTIS

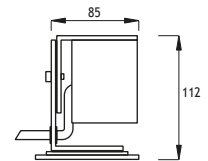
UNDERWATER LED SPOT Class III IP68 IK10

ATLANTIS 1



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

		Total Lighting Output		1W	3W
		1W	3W		
☀ Warm White	3000 K	85 lm	225 lm	405421	405241
☁ Natural White	4500 K	85 lm	225 lm	405426	405242
☀ Cool White	6000 K	102 lm	270 lm	405427	405243
🌊 Blue				405422	405244
🔴 Red				405423	405245
🟡 Amber				405424	405246
🟢 Green				405425	405247



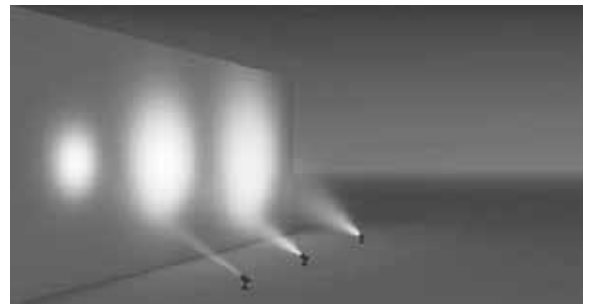
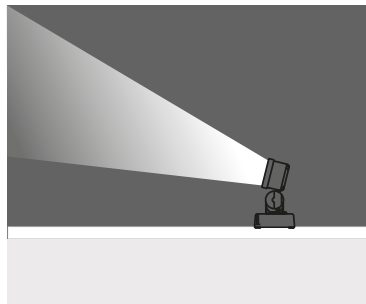
Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

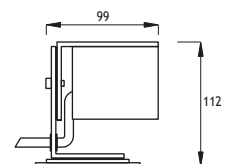
Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS 2



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W	9W
		3W	9W		
☀ Warm White	3000 K	255 lm	675 lm	405251	421341
☁ Natural White	4500 K	255 lm	675 lm	405252	421342
☀ Cool White	6000 K	306 lm	810 lm	405253	421343
🌊 Blue				405254	421344
🔴 Red				405255	421345
🟡 Amber				405256	421346
🟢 Green				405257	421347



Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

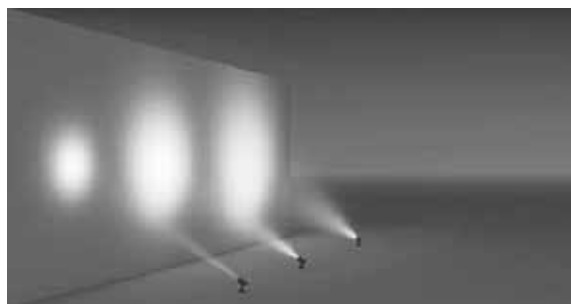
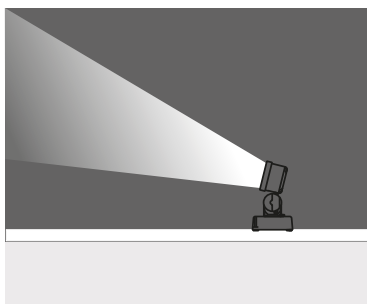
Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS

UNDERWATER LED SPOT Class III IP68 IK10

ATLANTIS 2



9 x 350 mA (9 W) RGB LED

Voltage : 40V DC

Lens : 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 10 m 4x0,75 H03 VV-F



RGB

Code No

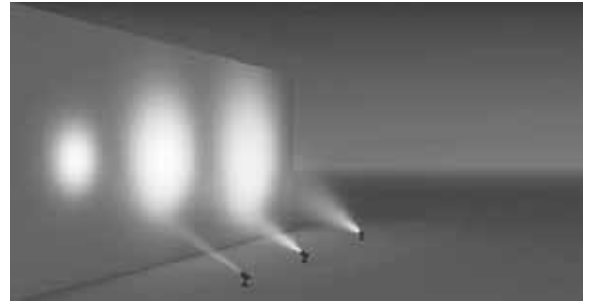
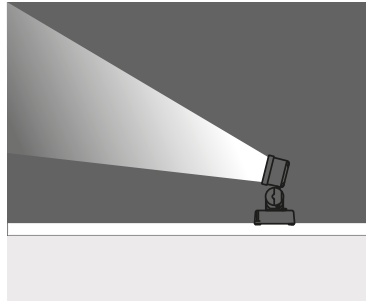
405431



ATLANTIS

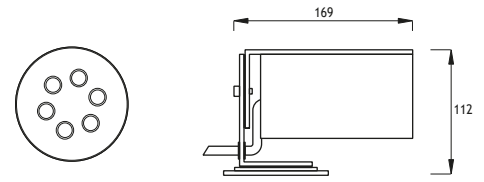
UNDERWATER LED SPOT Class III IP68 IK10

ATLANTIS 5



6 x 350 mA (6 W) LED or 6 x 700 mA (18 W) LED

		Total Lighting Output		6W	18W
		6W	18W		
☀ Warm White	3000 K	510 lm	1350 lm	405441	421861
☀ Natural White	4500 K	510 lm	1350 lm	405446	421862
☀ Cool White	6000 K	612 lm	1620 lm	405447	421863
🌊 Blue				405442	421864
🔴 Red				405443	421865
🟡 Amber				405444	421866
🟢 Green				405445	421867



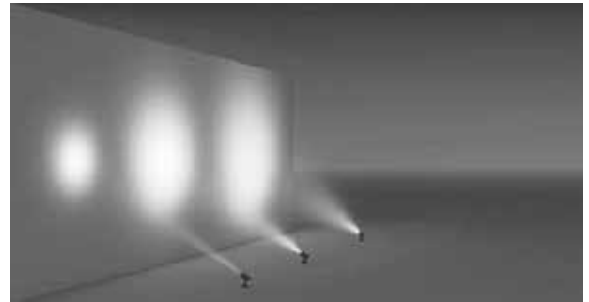
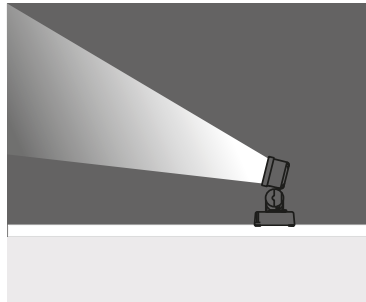
Voltage : 24V AC or DC on request

Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

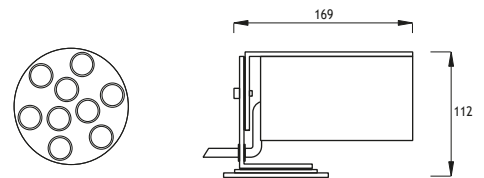
Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS 5



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W	27W
		9W	27W		
☀ Warm White	3000 K	765 lm	2100 lm	405451	421871
☀ Natural White	4500 K	765 lm	2100 lm	405456	421872
☀ Cool White	6000 K	810 lm	2520 lm	405457	421873
🌊 Blue				405452	421874
🔴 Red				405453	421875
🟡 Amber				405454	421876
🟢 Green				405455	421877



Voltage : 24V AC or DC on request

Lens : 10°, 25°, 40°

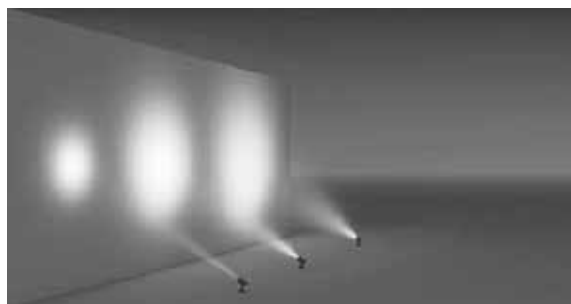
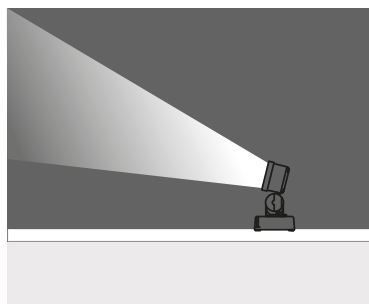
Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS

UNDERWATER RGB LED SPOT Class III IP68 IK10

ATLANTIS 27



27 x 350 mA (30 W) RGB LED

Voltage : 40V DC

Lens : 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

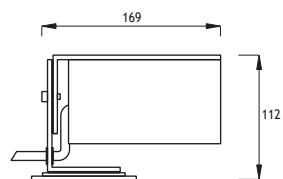
Cable : Potted 10 m 4x0,75 H03 VV-F

RGB LED



Code No

405461



INOX 1 UNDERWATER RECESSED Class III IP68

Body

316L marine grade stainless steel

Frame

316L marine grade stainless steel

Diffuser

Tempered Glass

Gaskets

Silicone

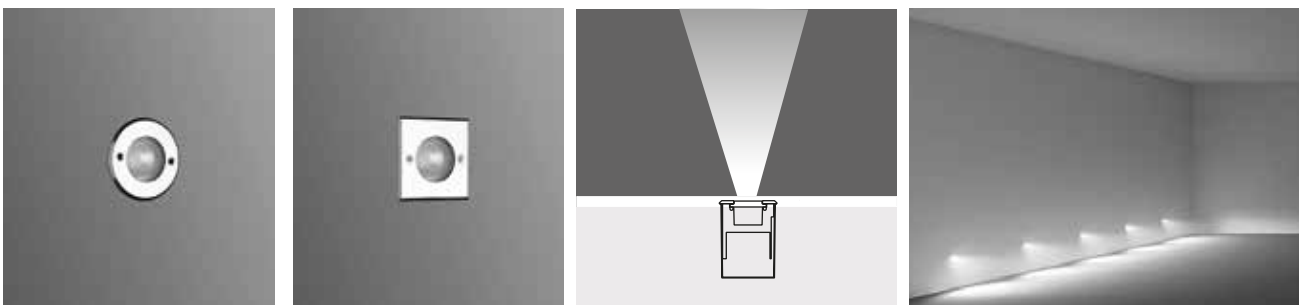
Screws

316L marine grade stainless steel

Gland

316L Inox Recessing Tube

Step Mounted



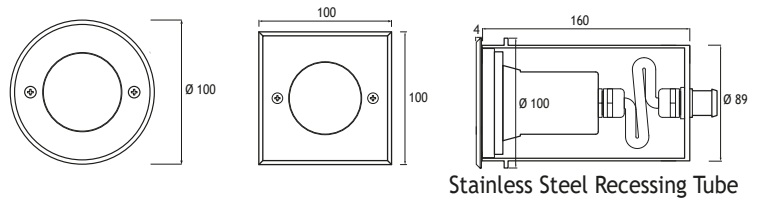
Lampholder : Gu 5.3

Reflector : -

Diffuser : 8 mm Tempered Glass

Transformer is not included.

Remote transformer should be used.



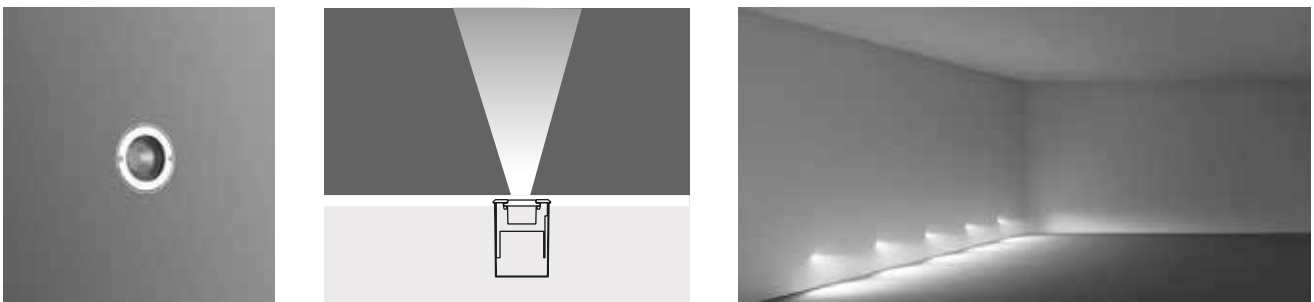
Stainless Steel Recessing Tube

HALOGEN 12V 50W

Step Mounted

	Code No	
	Round	Square
	134211	134201

Flush Mounted



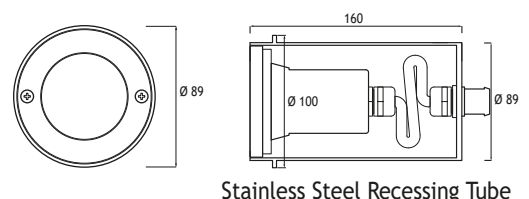
Lampholder : Gu 5.3

Reflector : -

Diffuser : Clear Glass

Transformer is not included.

Remote transformer should be used.



Stainless Steel Recessing Tube

HALOGEN 12V 50W

Flush Mounted

	Code No
	134221

INOX 1 UNDERWATER RECESSED Class III IP68

EMFA's Inox 1 Underwater spot is completely made of solid 316L stainless steel to withstand salt water and chlorine. The spot is specially designed to light fountains and water features. A special factory sealed cable is used to avoid any ingress of water. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also possible.

Body

316L marine grade stainless steel

Frame

316L marine grade stainless steel

Diffuser

Tempered Glass

Gaskets

Silicone

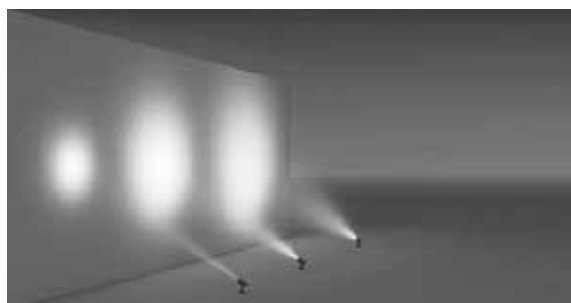
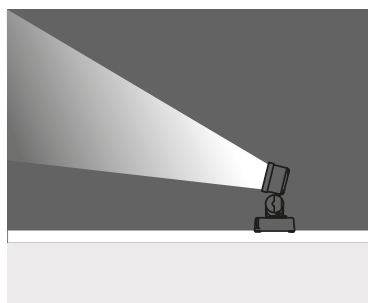
Screws

316L marine grade stainless steel

Gland

316L marine grade stainless steel

Flush Mounted



Lampholder : Gu 5.3

Reflector : -

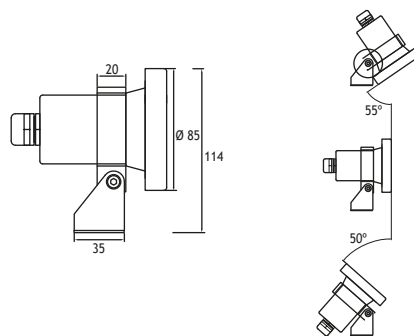
Diffuser : Clear Glass

Transformer is not included.

Remote transformer should be used.

HALOGEN 12V 50W

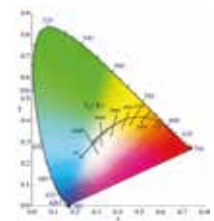
Code No
134101



MIRA ATLANTIS 1 UNDERWATER RECESSED LED FIXTURES

Class III IP68 IK10

The Mira Atlantis Underwater series brings together the rectangular LED fixture called Mira with the underwater feature of the Atlantis. Engineered completely from marine grade stainless steel, 316L, this range is designed to light pools, fountains and water features with efficient LED lighting. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also available on request. The series comes as recessed or surface mount. The surface mounted version has heavy-duty stainless steel adjustable brackets for sturdy fixing. The bodies are filled with cast resin and a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired underwater the light effect.



- Cover**
316L Stainless steel
- Outer Body**
316L Stainless steel
- Body**
Die cast aluminium
- Diffusers**
12 mm Tempered Glass
- Gaskets**
Silicone
- Screws**
316L Stainless steel
- Recessing Box**
Stainless steel

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

LEDs

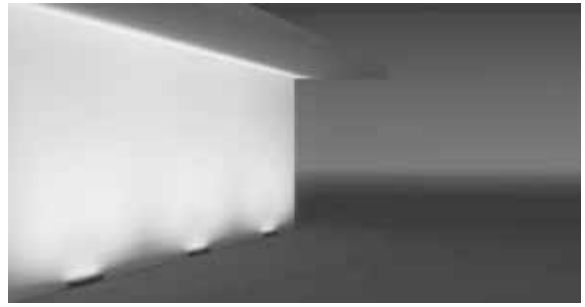
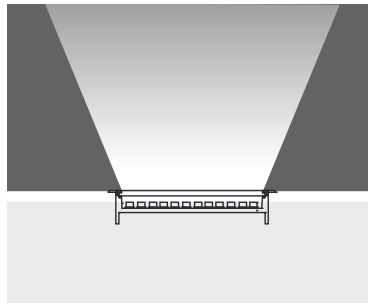
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

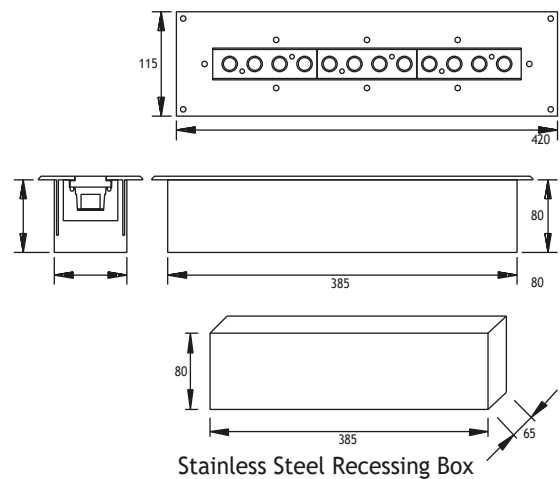
MIRA ATLANTIS 1 UNDERWATER RECESSED LED FIXTURES

Class III IP68 IK10



Voltage : 24V AC or DC
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F

12 x 350 mA (12 W) LED		Total Lighting Output	Code No
☀️ Warm White	3000 K	1020 lm	429001
☀️ Natural White	4500 K	1020 lm	429002
☀️ Cool White	6000 K	1224 lm	429003
🟦 Blue			429004
🟥 Red			429005
🟡 Amber			429006
🟢 Green			429007



27 x 350 mA (27 W) RGB LED

Voltage : 24V AC or DC
Lens : 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 10 m 4x0,75 H03 VV-F

RGB LED	Code No
🟠 🟢 🟦	429011

MIRA ATLANTIS 1 UNDERWATER SURFACE MOUNTED LED FIXTURES

Class III IP68 IK10

The Mira Atlantis Underwater series brings together the rectangular LED fixture called Mira with the underwater feature of the Atlantis. Engineered completely from marine grade stainless steel, 316L, this range is designed to light pools, fountains and water features with efficient LED lighting. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also available on request. The series comes as recessed or surface mount. The surface mounted version has heavy-duty stainless steel adjustable brackets for sturdy fixing. The bodies are filled with cast resin and a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired underwater the light effect.

Cover

316L Stainless steel

Outer Body

316L Stainless steel

Body

Die cast aluminium

Diffusers

12 mm Tempered Glass

Gaskets

Silicone

Screws

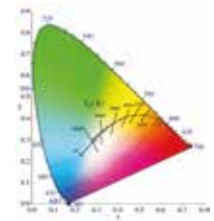
316L Stainless steel

Mounting Brackets

316L Stainless steel

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

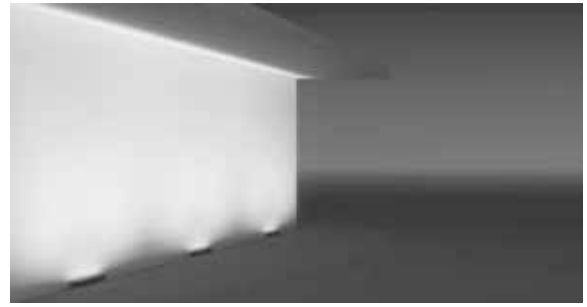
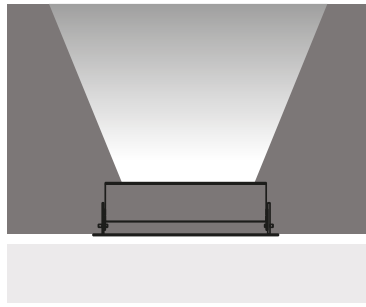
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

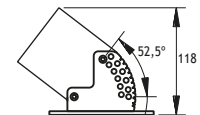
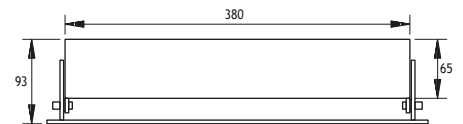
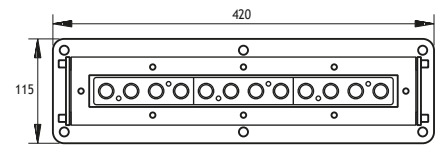
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

MIRA ATLANTIS 1 UNDERWATER SURFACE MOUNTED LED FIXTURES

Class III IP68 IK10



Voltage : 24V AC or DC
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F



12 x 350 mA (12 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	1020 lm	429021
☁ Natural White	4500 K	1020 lm	429022
☀ Cool White	6000 K	1224 lm	429023
🌊 Blue			429024
🔴 Red			429025
🟡 Amber			429026
🟢 Green			429027

27 x 350 mA (27 W) RGB LED

Voltage : 24V AC or DC
Lens : 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 10 m 4x0,75 H03 VV-F

RGB LED	Code No
🔴 🟢 🟡	429031

MIRA ATLANTIS 2 UNDERWATER RECESSED LED FIXTURES

Class III IP68 IK10

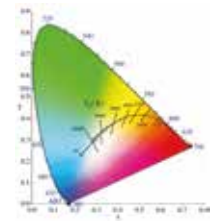
The Mira Atlantis Underwater series brings together the rectangular LED fixture called Mira with the underwater feature of the Atlantis. Engineered completely from marine grade stainless steel, 316L, this range is designed to light pools, fountains and water features with efficient LED lighting. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also available on request. The series comes as recessed or surface mount. The surface mounted version has heavy-duty stainless steel adjustable brackets for sturdy fixing. The bodies are filled with cast resin and a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired underwater the light effect.



- Cover**
316L Stainless steel
- Outer Body**
316L Stainless steel
- Body**
Die cast aluminium
- Diffusers**
12 mm Tempered Glass
- Gaskets**
Silicone
- Screws**
316L Stainless steel
- Recessing Box**
Stainless steel

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

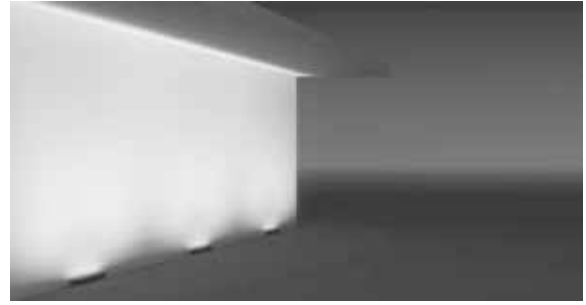
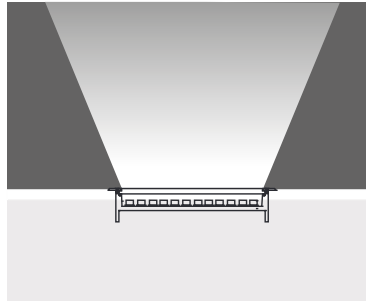
Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

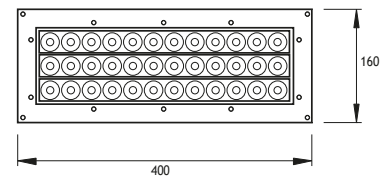
MIRA ATLANTIS 2 UNDERWATER RECESSED LED FIXTURES

Class III IP68 IK10

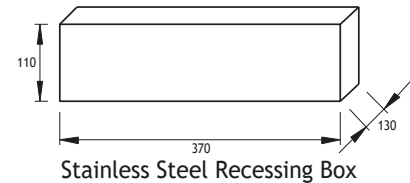
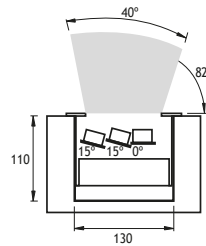
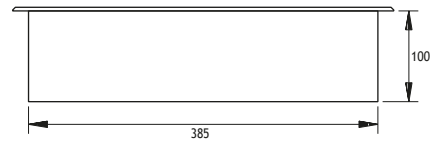
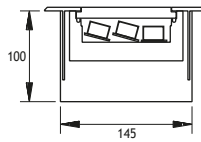
15°+15°+0° ASYMMETRICAL LED



- Voltage** : 24V AC or DC
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass 12 mm (Frosted Glass on request)
- Cable** : Potted 5 m 2x0,75 H03 VV-F



36 x 350 mA (36 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	3060 lm	429041
☁ Natural White	4500 K	3060 lm	429042
☀ Cool White	6000 K	3672 lm	429043
🌊 Blue			429044
🔴 Red			429045
🟡 Amber			429046
🟢 Green			429047



27 x 350 mA (27 W) RGB LED

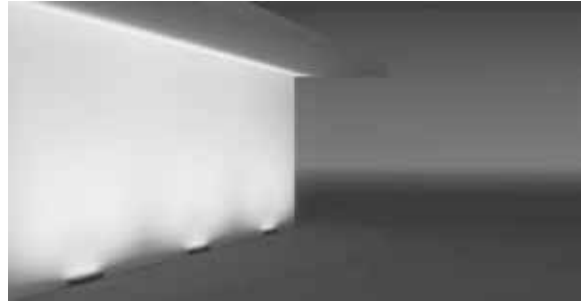
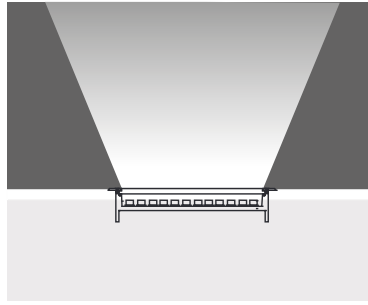
- Voltage** : 24V AC or DC
- Lens** : 25°, 40°
- Diffuser** : Clear Glass 12 mm (Frosted Glass on request)
- Cable** : Potted 10 m 4x0,75 H03 VV-F

RGB LED	Code No
🔴🟢🟡	429051

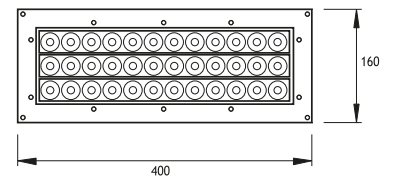
MIRA ATLANTIS 2 UNDERWATER RECESSED LED FIXTURES

Class III IP68 IK10

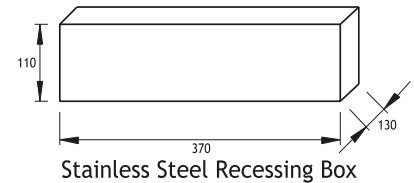
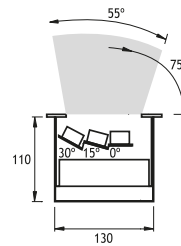
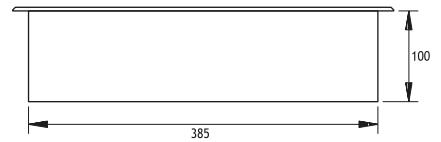
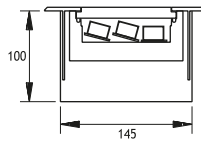
15°+15°+0° ASYMMETRICAL LED



Voltage : 24V AC or DC
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F



36 x 350 mA (36 W) LED		Total Lighting Output	Code No
☀️ Warm White	3000 K	3060 lm	429061
☀️ Natural White	4500 K	3060 lm	429062
☀️ Cool White	6000 K	3672 lm	429063
🟦 Blue			429064
🟥 Red			429065
🟡 Amber			429066
🟢 Green			429067



27 x 350 mA (27 W) RGB LED

Voltage : 24V AC or DC
Lens : 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 10 m 4x0,75 H03 VV-F

RGB LED	Code No
🟠 🟢 🟡	429071

MIRA ATLANTIS 2 UNDERWATER SURFACE MOUNTED LED FIXTURES

Class III IP68 IK10

The Mira Atlantis Underwater series brings together the rectangular LED fixture called Mira with the underwater feature of the Atlantis. Engineered completely from marine grade stainless steel, 316L, this range is designed to light pools, fountains and water features with efficient LED lighting. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also available on request. The series comes as recessed or surface mount. The surface mounted version has heavy-duty stainless steel adjustable brackets for sturdy fixing. The bodies are filled with cast resin and a specially developed potted power cable is used to effectively bond with the cast resin and stop any water ingress. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired underwater the light effect.

Cover

316L Stainless steel

Outer Body

316L Stainless steel

Body

Die cast aluminium

Diffusers

12 mm Tempered Glass

Gaskets

Silicone

Screws

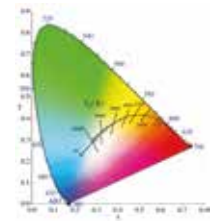
316L Stainless steel

Mounting Brackets

316L Stainless steel

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

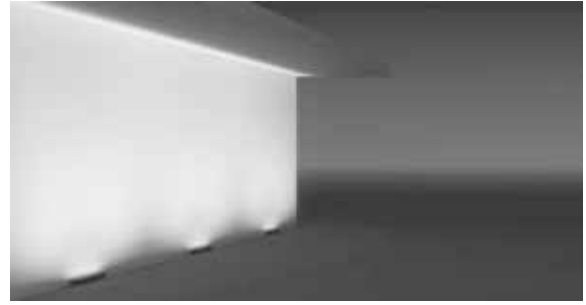
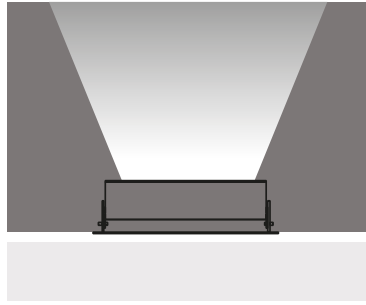
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

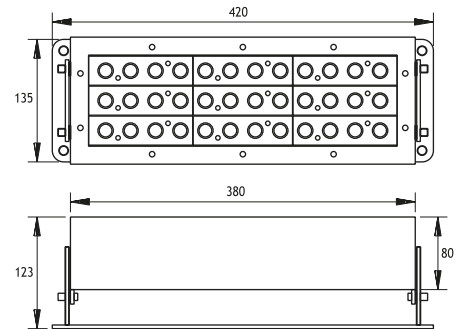
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

MIRA ATLANTIS 2 UNDERWATER SURFACE MOUNTED LED FIXTURES

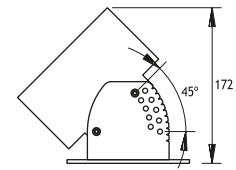
Class III IP68 IK10



Voltage : 24V AC or DC
Lens : 10°, 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F



36 x 350 mA (36 W) LED		Total Lighting Output	Code No
☀️ Warm White	3000 K	3060 lm	429081
☁️ Natural White	4500 K	3060 lm	429082
❄️ Cool White	6000 K	3672 lm	429083
🟦 Blue			429084
🟥 Red			429085
🟡 Amber			429086
🟢 Green			429087



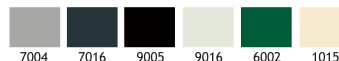
27 x 350 mA (27 W) RGB LED

Voltage : 24V AC or DC
Lens : 25°, 40°
Diffuser : Clear Glass 12 mm (Frosted Glass on request)
Cable : Potted 10 m 4x0,75 H03 VV-F

RGB LED	Code No
🟠 🟢 🟦	429091

ASSOS UNDERWATER FIXTURES

Available in any of these RAL colors



Body

Die cast aluminium

Paint

Black or white electrostatic powder.
(All other colours on request)

Gaskets

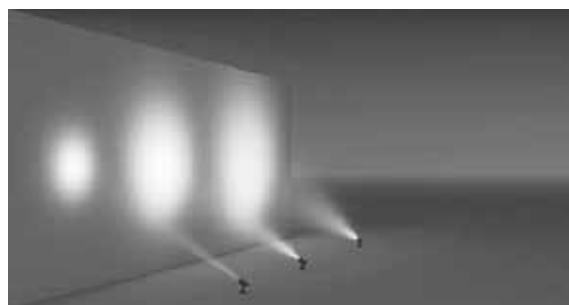
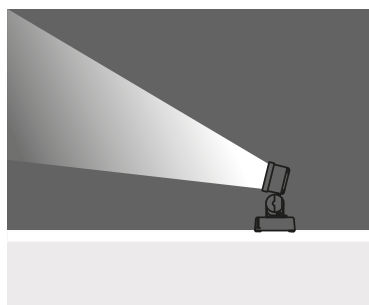
Silicone

Glands

1 or 2xPG 13.5 / 1 or 2xPG 16

Diffuser

Tempered press glass



Class III IP 68 IK 10

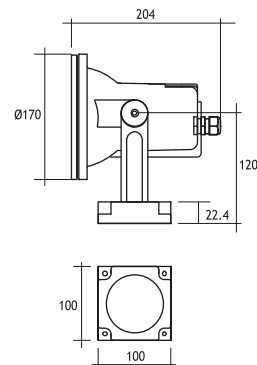
Lampholder : E27 fixed

Reflector : 70° (For incandescent lamps)

Diffuser : Press Glass

Code No

INCANDESCENT 40-100W 12V 130101
(HALOGEN PAR 30-75-100W)



Class III IP 68

Lampholder : E27 loose

Reflector : -

Diffuser : -

Transformer is not included.

Remote transformer should be used.

Code No

HALOGEN PAR 38 12-24V 130111
80-120W

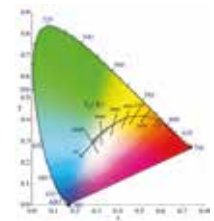
Stainless Steel
Outdoor



ATLANTIS

NEAR WATER LED FIXTURES Class III IP67 IK10

The Atlantis Near Water series is specially designed to light objects around pools, fountains, and water features or near the sea with high power LED light. The series is made of solid 316L stainless steel and can therefore withstand these rough environments. Standard finish is polished stainless steel to avoid collection of dirt and algae, but a brushed finish is also possible. The series comes as recessed, surface mount or spots. The spots are heavy duty with stainless steel brackets for sturdy fixing. A specially developed power cable ensures for a long lifetime in extreme conditions without any ingress of water. The low voltage electronic LED driver is housed in the base of the fixture. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber or RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.



- Frame**
316L Stainless Steel
- Body**
316L Stainless Steel
- Recessing Tube**
Aluminium
- Gaskets**
Silicone
- Diffusers**
Tempered Glass
- Screws**
Stainless Steel
- Mounting Brackets**
316L Stainless Steel

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 finishes of stainless steel, 8 LED colors, 2 wattages, and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

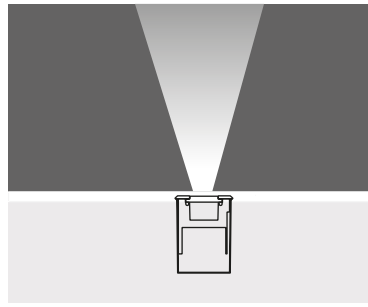
Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted to the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

ATLANTIS NEARWATER RECESSED LED FIXTURES

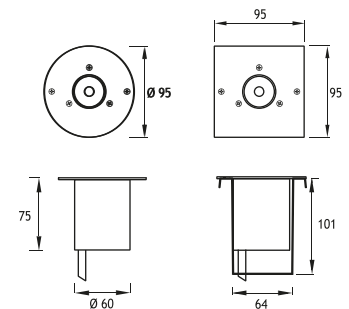
Class III IP67 IK10

ATLANTIS 1 With Recessing Tube



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

	Total Lighting Output	Total Lighting Output		1W Round	1W Square	3W Round	3W Square
		1W	3W				
☀ Warm White	3000 K	85 lm	225 lm	412101	412111	421221	421231
☁ Natural White	4500 K	85 lm	225 lm	412106	412116	421222	421232
☀ Cool White	6000 K	102 lm	270 lm	412107	412117	421223	421233
🌊 Blue				412102	412112	421224	421234
🔴 Red				412103	412113	421225	421235
🟡 Amber				412104	412114	421226	421236
🟢 Green				412105	412115	421227	421237



Aluminum recessing tube

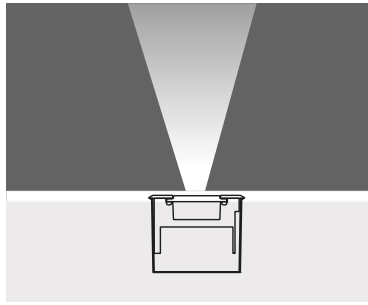
Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

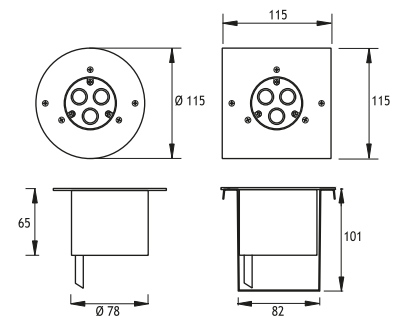
Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS 2 With Recessing Tube



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

	Total Lighting Output	Total Lighting Output		3W Round	3W Square	9W Round	9W Square
		3W	9W				
☀ Warm White	3000 K	255 lm	675 lm	412121	412131	421351	421361
☁ Natural White	4500 K	255 lm	675 lm	412126	412136	421352	421362
☀ Cool White	6000 K	306 lm	810 lm	412127	412137	421353	421363
🌊 Blue				412122	412132	421354	421364
🔴 Red				412123	412133	421355	421365
🟡 Amber				412124	412134	421356	421366
🟢 Green				412125	412135	421357	421367



Aluminum recessing tube

Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

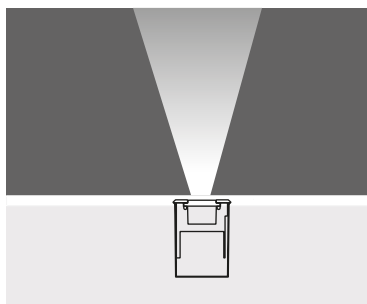
Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS

NEARWATER RECESSED RGB LED FIXTURES

Class III IP67 IK10

ATLANTIS 2 With Recessing Tube



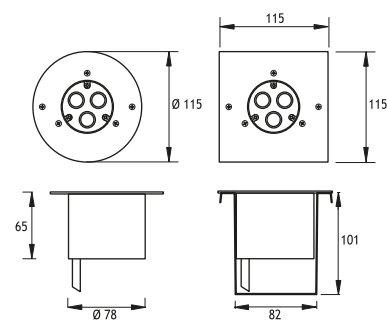
9 x 350 mA (9 W) RGB LED

- Voltage : 40V DC
- Lens : 25°, 40°
- Diffuser : 8 mm Clear Glass (Frosted Glass on request)
- Cable : Potted 10m 4x0,75 H03 VV-F

RGB LED



Code No
 Round Square
 412141 412151



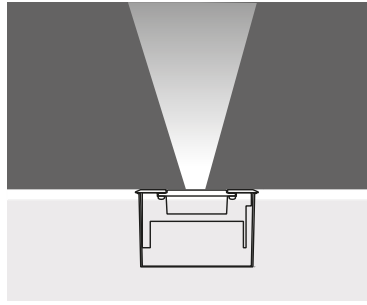
Aluminum
recessing tube



ATLANTIS

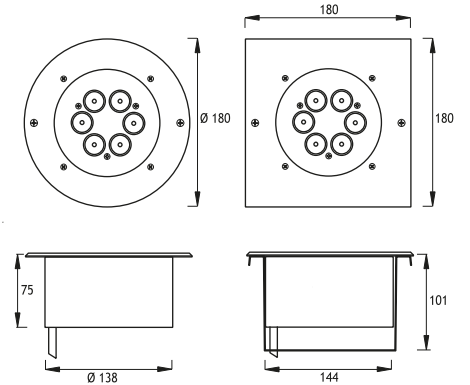
NEARWATER RECESSED LED FIXTURES Class III IP67 IK10

ATLANTIS 5 With Recessing Tube



6 x 350 mA (6 W) LED or 6 x 700 mA (18 W) LED

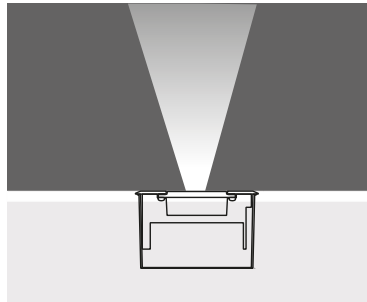
	Total Lighting Output	6W		6W	6W	18W	18W
		6W	18W	Round	Square	Round	Square
☀ Warm White	3000 K	510 lm	1350 lm	412161	412171	421891	421901
☁ Natural White	4500 K	510 lm	1350 lm	412166	412176	421892	421902
☀ Cool White	6000 K	612 lm	1620 lm	412167	412177	421893	421903
🌊 Blue				412162	412172	421894	421904
🔴 Red				412163	412173	421895	421905
🟡 Amber				412164	412174	421896	421906
🟢 Green				412165	412175	421897	421907



Aluminum recessing tube

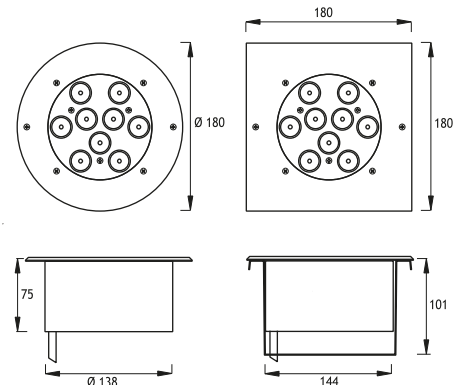
- Voltage** : 12V AC or DC (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS 5 With Recessing Tube



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

	Total Lighting Output	9W		9W	9W	27W	27W
		9W	27W	Round	Square	Round	Square
☀ Warm White	3000 K	765 lm	2100 lm	412181	412191	421911	421921
☁ Natural White	4500 K	765 lm	2100 lm	412186	412196	421912	421922
☀ Cool White	6000 K	810 lm	2520 lm	412187	412197	421913	421923
🌊 Blue				412182	412192	421914	421924
🔴 Red				412183	412193	421915	421925
🟡 Amber				412184	412194	421916	421926
🟢 Green				412185	412195	421917	421927



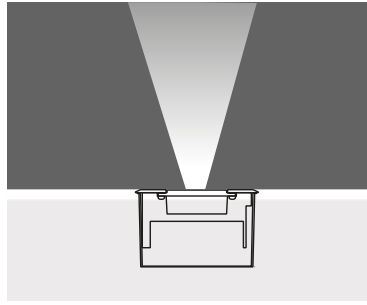
Aluminum recessing tube

- Voltage** : 12V AC or DC (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : 8 mm Clear Glass (Frosted Glass on request)
- Cable** : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS

NEARWATER RECESSED RGB LED FIXTURES Class III IP67 IK10

ATLANTIS 5 With Recessing Tube



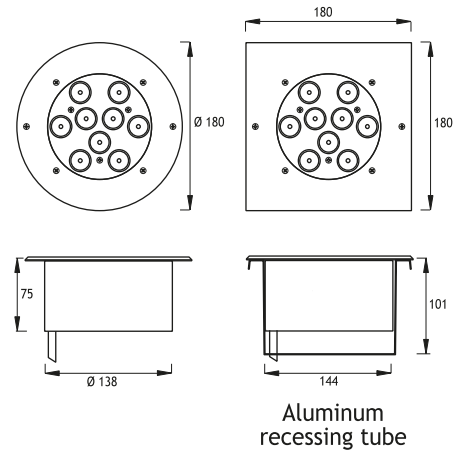
27 x 350 mA (30 W) RGB LED

- Voltage : 40V DC
- Lens : 25°, 40°
- Diffuser : 8 mm Clear Glass (Frosted Glass on request)
- Cable : Potted 10m 4x0,75 H03 VV-F

RGB LED



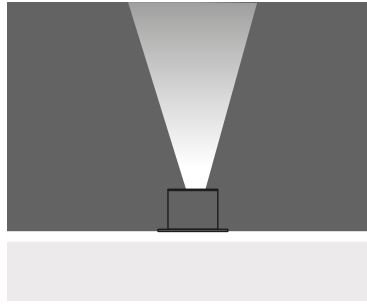
Code No
Round Square
412201 412211



ATLANTIS

NEARWATER SURFACE MOUNTED LED FIXTURES Class III IP67 IK10

ATLANTIS 1



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

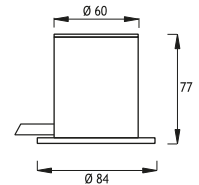
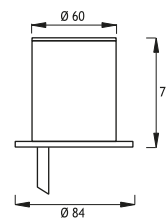
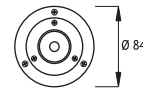
		Total Lighting Output		1W	3W
		1W	3W		
☀️ Warm White	3000 K	85 lm	225 lm	412221	421241
☀️ Natural White	4500 K	85 lm	225 lm	412226	421242
☀️ Cool White	6000 K	102 lm	270 lm	412227	421243
🌊 Blue				412222	421244
🔴 Red				412223	421245
🟡 Amber				412224	421246
🟢 Green				412225	421247

Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

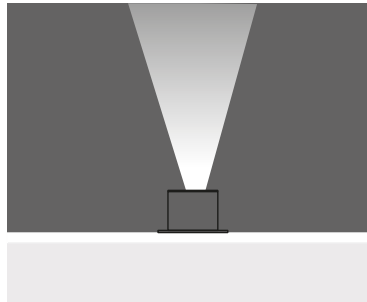
Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 m 2x0,75 H03 VV-F



Cable exits from bottom Cable exits from side

ATLANTIS 2



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

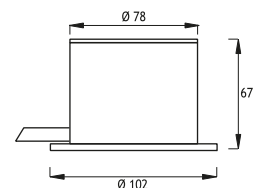
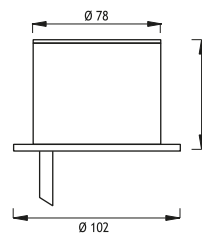
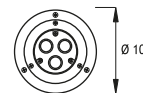
		Total Lighting Output		3W	9W
		3W	9W		
☀️ Warm White	3000 K	255 lm	765 lm	412231	421371
☀️ Natural White	4500 K	255 lm	765 lm	412236	421372
☀️ Cool White	6000 K	306 lm	810 lm	412237	421373
🌊 Blue				412232	421374
🔴 Red				412233	421375
🟡 Amber				412234	421376
🟢 Green				412235	421377

Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 m 2x0,75 H03 VV-F

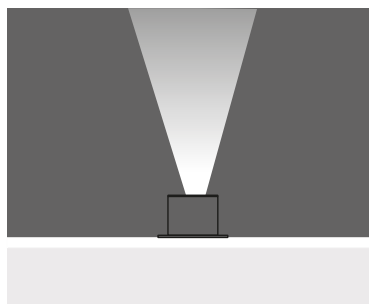


Cable exits from bottom Cable exits from side

ATLANTIS

NEARWATER RECESSED RGB LED FIXTURES Class III IP67 IK10

ATLANTIS 2



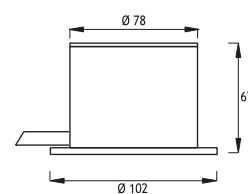
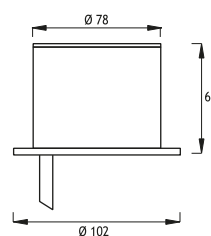
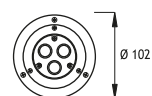
9 x 350 mA (9 W) RGB LED

- Voltage : 40V DC
- Lens : 25°, 40°
- Diffuser : 8 mm Clear Glass (Frosted Glass on request)
- Cable : Potted 10m 4x0,75 H03 VV-F

RGB LED



Code No
412241

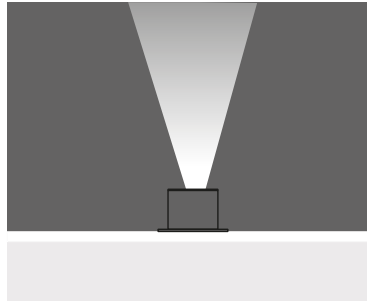


Cable exits from bottom Cable exits from side

ATLANTIS

NEARWATER SURFACE MOUNTED LED FIXTURES Class III IP67 IK10

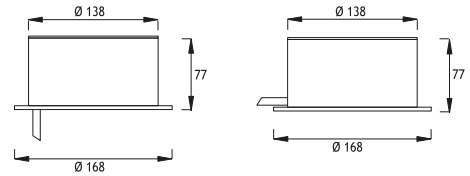
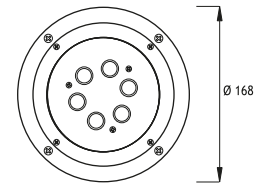
ATLANTIS 5



Voltage : 24V AC or DC on request
Lens : 10°, 25°, 40°
Diffuser : 8 mm Clear Glass (Frosted Glass on request)
Cable : Potted 5 m 2x0,75 H03 VV-F

6 x 350 mA (6 W) LED		Total Lighting Output	Code No
☀️ Warm White	3000 K	510 lm	412251
☁️ Natural White	4500 K	510 lm	412256
☀️ Cool White	6000 K	612 lm	412257
🌊 Blue			412252
🔴 Red			412253
🟡 Amber			412254
🟢 Green			412255

6 x 700 mA (18 W) LED		Total Lighting Output	Code No
☀️ Warm White	3000 K	1350 lm	421931
☁️ Natural White	4500 K	1350 lm	421932
☀️ Cool White	6000 K	1620 lm	421933
🌊 Blue			421934
🔴 Red			421935
🟡 Amber			421936
🟢 Green			421937

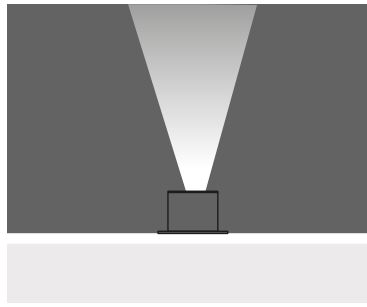


Cable exits from bottom Cable exits from side

ATLANTIS

NEARWATER RECESSED RGB LED FIXTURES Class III IP67 IK10

ATLANTIS 27



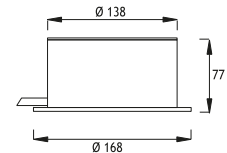
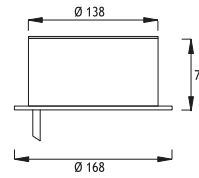
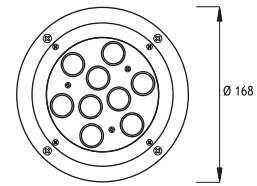
9 x 350 mA (9 W) RGB LED

- Voltage : 40V DC
- Lens : 25°, 40°
- Diffuser : 8 mm Clear Glass (Frosted Glass on request)
- Cable : Potted 10m 4x0,75 H03 VV-F

RGB LED



Code No
412271

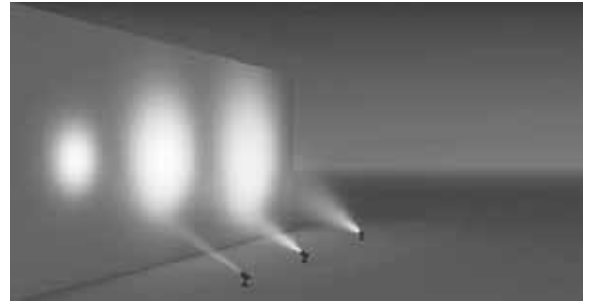
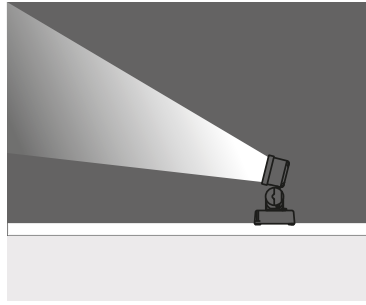


Cable exits from bottom Cable exits from side

ATLANTIS

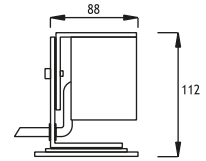
NEARWATER SURFACE MOUNTED LED FIXTURES Class III IP67 IK10

ATLANTIS 1



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

		Total Lighting Output		1W	3W
		1W	3W		
☀ Warm White	3000 K	85 lm	225 lm	412281	421251
☁ Natural White	4500 K	85 lm	225 lm	412286	421252
☀ Cool White	6000 K	102 lm	270 lm	412287	421253
🌊 Blue				412282	421254
🔴 Red				412283	421255
🟡 Amber				412284	421256
🟢 Green				412285	421257



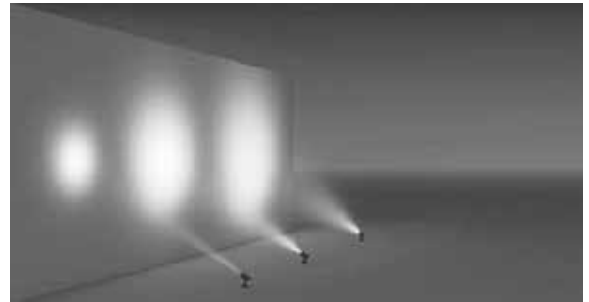
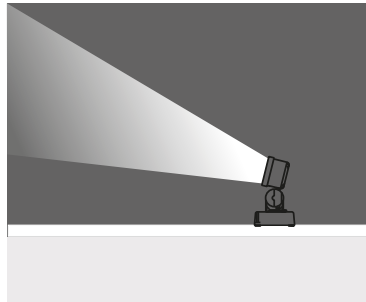
Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

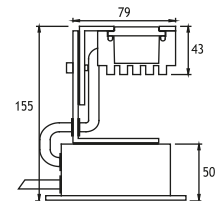
Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS 1



1 x 350 mA (1 W) LED or 1 x 700 mA (3 W) LED

		Total Lighting Output		1W	3W
		1W	3W		
☀ Warm White	3000 K	85 lm	225 lm	421261	421271
☁ Natural White	4500 K	85 lm	225 lm	421262	421272
☀ Cool White	6000 K	102 lm	270 lm	421263	421273
🌊 Blue				421264	421274
🔴 Red				421265	421275
🟡 Amber				421266	421276
🟢 Green				421267	421277



Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

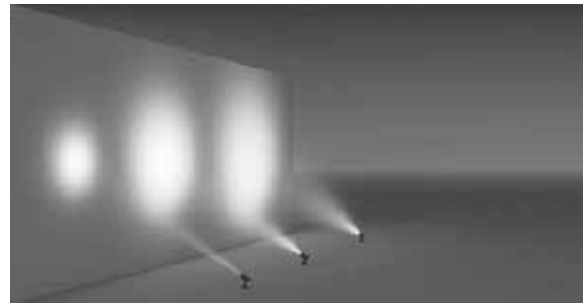
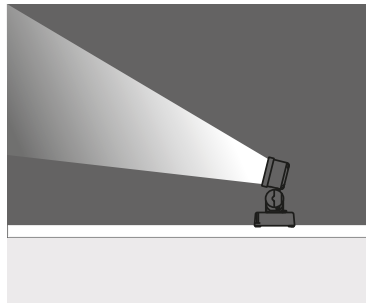
Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS

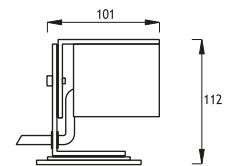
NEARWATER LED SPOT Class III IP67 IK10

ATLANTIS 2



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W	9W
		3W	9W		
☀ Warm White	3000 K	255 lm	675 lm	412291	421381
☁ Natural White	4500 K	255 lm	675 lm	412296	421382
☀ Cool White	6000 K	270 lm	810 lm	412297	421383
🌊 Blue				412292	421384
🔴 Red				412293	421385
🟡 Amber				412294	421386
🟢 Green				412295	421387



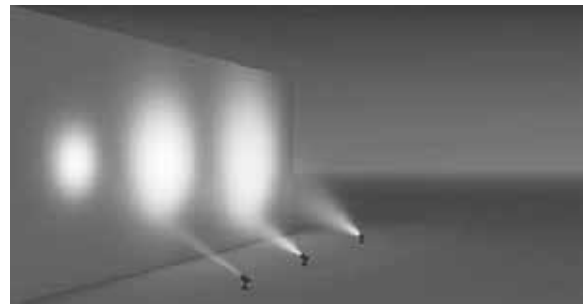
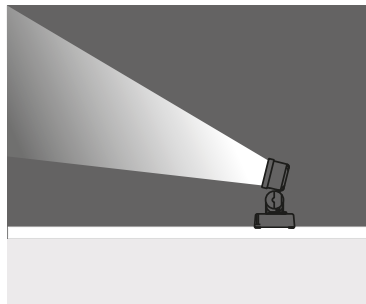
Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

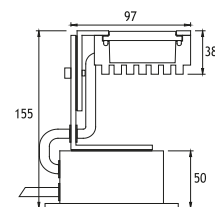
Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS 1



3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W	9W
		3W	9W		
☀ Warm White	3000 K	255 lm	675 lm	421391	421401
☁ Natural White	4500 K	255 lm	675 lm	421392	421402
☀ Cool White	6000 K	310 lm	810 lm	421393	421403
🌊 Blue				421394	421404
🔴 Red				421395	421405
🟡 Amber				421396	421406
🟢 Green				421397	421407



Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

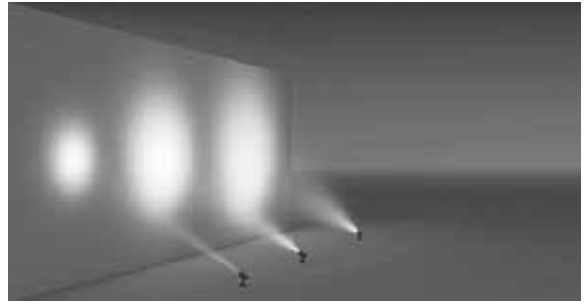
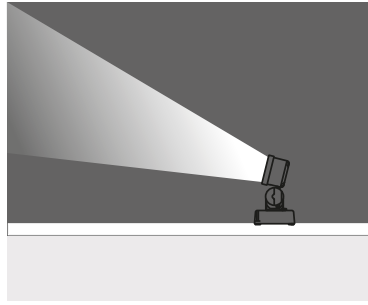
Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS

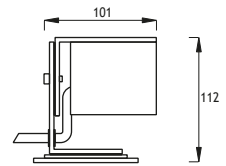
NEARWATER RGB LED SPOT Class III IP67 IK10

ATLANTIS 2



9 x 350 mA (9 W) RGB LED

- Voltage : 40V DC
- Lens : 25°, 40°
- Diffuser : 8 mm Clear Glass (Frosted Glass on request)
- Cable : Potted 10m 4x0,75 H03 VV-F

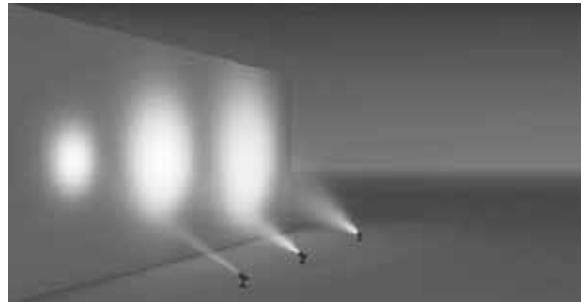
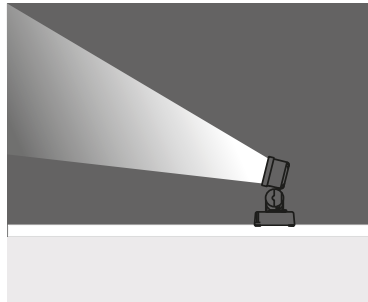


RGB LED



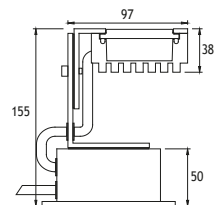
Code No
412301

ATLANTIS 2



9 x 350 mA (9 W) RGB LED

- Voltage : 40V DC
- Lens : 25°, 40°
- Diffuser : 8 mm Clear Glass (Frosted Glass on request)
- Cable : Potted 10m 4x0,75 H03 VV-F



RGB LED

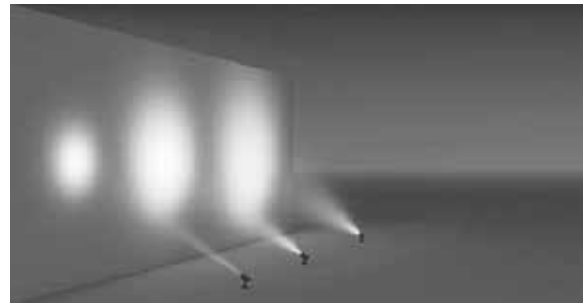
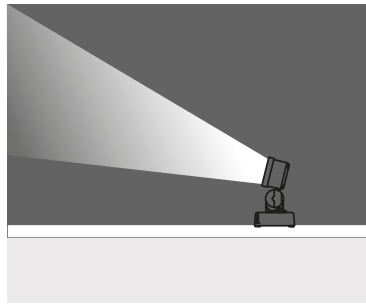


Code No
412411

ATLANTIS

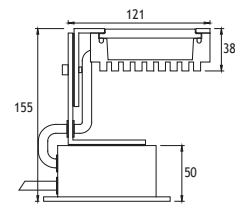
NEARWATER LED SPOT Class III IP67 IK10

ATLANTIS 3



6 x 350 mA (6 W) LED or 6 x 700 mA (18 W) LED

		Total Lighting Output		6W	18W
		6W	18W		
☀ Warm White	3000 K	510 lm	1350 lm	421501	421511
☁ Natural White	4500 K	510 lm	1350 lm	421502	421512
☀ Cool White	6000 K	612 lm	1620 lm	421503	421513
🌊 Blue				421504	421514
🔴 Red				421505	421515
🟡 Amber				421506	421516
🟢 Green				421507	421517



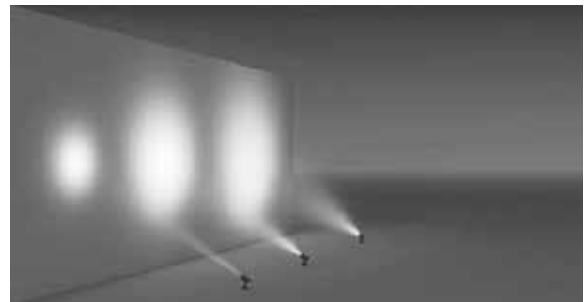
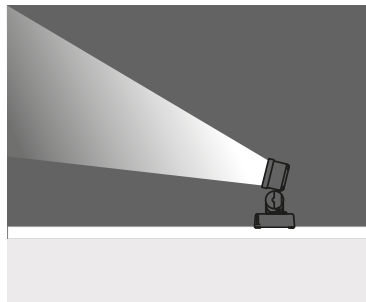
Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

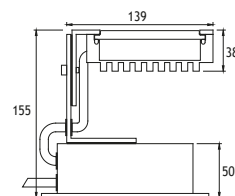
Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS 4



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W	27W
		9W	27W		
☀ Warm White	3000 K	765 lm	2100 lm	421601	421611
☁ Natural White	4500 K	765 lm	2100 lm	421602	421612
☀ Cool White	6000 K	918 lm	2520 lm	421603	421613
🌊 Blue				421604	421614
🔴 Red				421605	421615
🟡 Amber				421606	421616
🟢 Green				421607	421617



Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

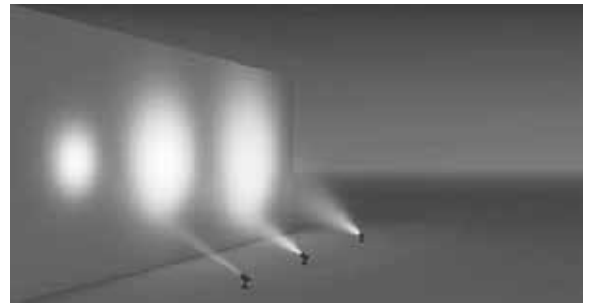
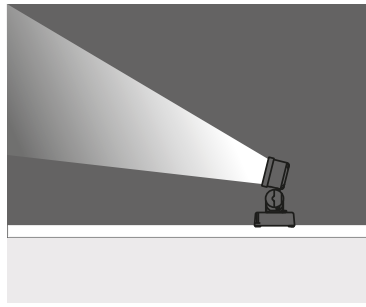
Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS

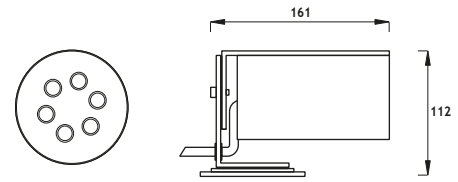
NEARWATER LED SPOT Class III IP67 IK10

ATLANTIS 5



6 x 350 mA (6 W) LED or 6 x 700 mA (18 W) LED

		Total Lighting Output		6W	18W
		6W	18W		
☀ Warm White	3000 K	510 lm	1350 lm	412311	421961
☁ Natural White	4500 K	510 lm	1350 lm	412316	421962
☀ Cool White	6000 K	612 lm	1620 lm	412317	421963
🌊 Blue				412312	421964
🔴 Red				412313	421965
🟡 Amber				412314	421966
🟢 Green				412315	421967



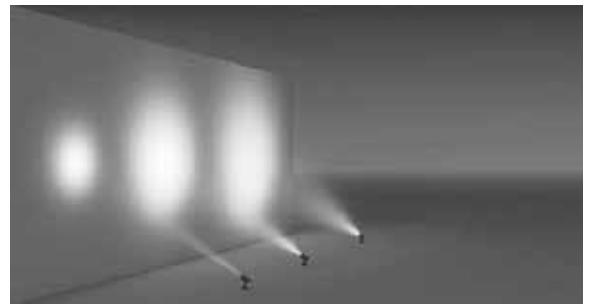
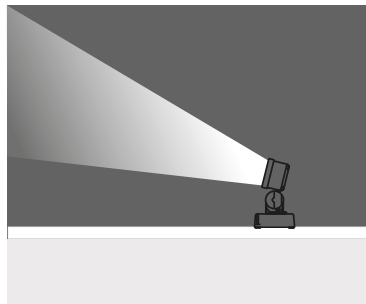
Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

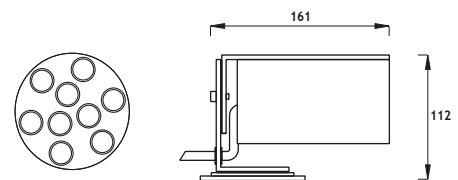
Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS 5



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W	27W
		9W	27W		
☀ Warm White	3000 K	765 lm	2100 lm	412321	421951
☁ Natural White	4500 K	765 lm	2100 lm	412326	421952
☀ Cool White	6000 K	918 lm	2520 lm	412327	421953
🌊 Blue				412322	421954
🔴 Red				412323	421955
🟡 Amber				412324	421956
🟢 Green				412325	421957



Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

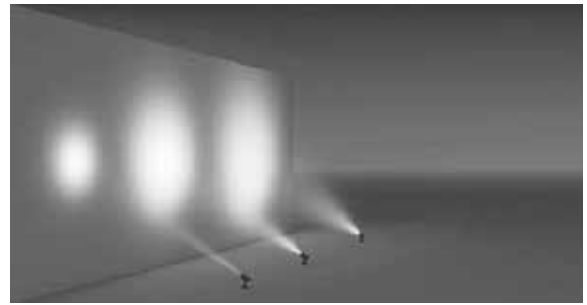
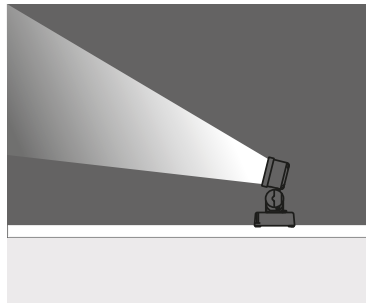
Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS

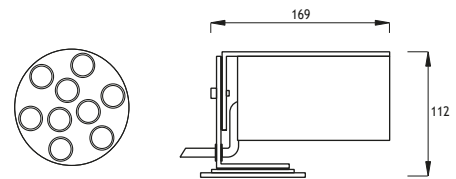
NEARWATER RGB LED SPOT Class III IP67 IK10

ATLANTIS 27



27 x 350 mA (30 W) RGB LED

- Voltage : 40V DC
- Lens : 25°, 40°
- Diffuser : 8 mm Clear Glass (Frosted Glass on request)
- Cable : Potted 10m 4x0,75 H03 VV-F



RGB LED

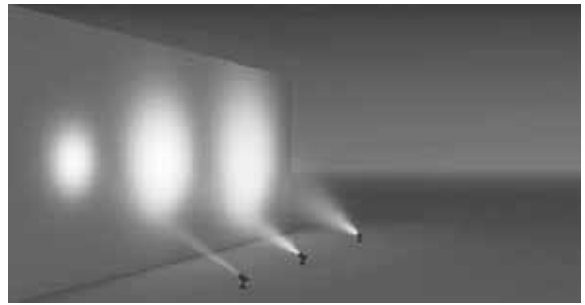
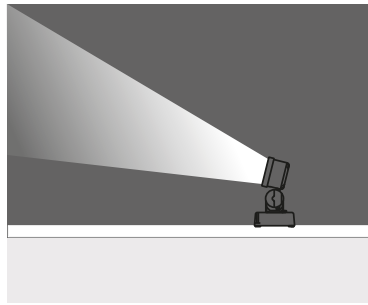


Code No
412331

ATLANTIS

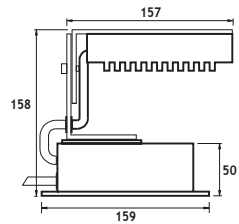
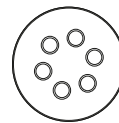
NEARWATER LED SPOT Class III IP67 IK10

ATLANTIS 5



6 x 350 mA (6 W) LED or 6 x 700 mA (18 W) LED

		Total Lighting Output		6W	18W
		6W	18W		
☀ Warm White	3000 K	510 lm	1350 lm	412341	421971
☁ Natural White	4500 K	510 lm	1350 lm	412346	421972
☀ Cool White	6000 K	612 lm	1620 lm	412347	421973
🌊 Blue				412342	421974
🔴 Red				412343	421975
🟡 Amber				412344	421976
🟢 Green				412345	421977



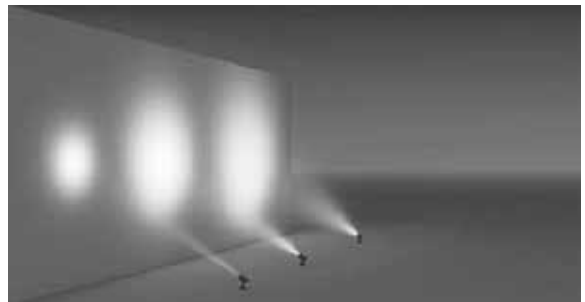
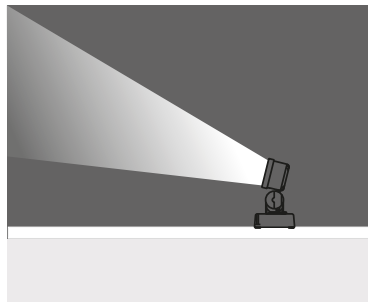
Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : 8 mm Clear Glass (Frosted Glass on request)

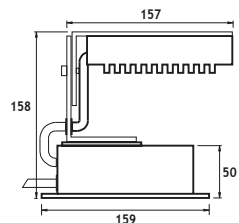
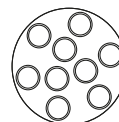
Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS 5



9 x 350 mA (9 W) LED or 9 x 700 mA (27 W) LED

		Total Lighting Output		9W	27W
		9W	27W		
☀ Warm White	3000 K	765 lm	2100 lm	412351	421981
☁ Natural White	4500 K	765 lm	2100 lm	412356	421982
☀ Cool White	6000 K	918 lm	2520 lm	412357	421983
🌊 Blue				412352	421984
🔴 Red				412353	421985
🟡 Amber				412354	421986
🟢 Green				412355	421987



Voltage : 12V AC or DC (24V AC or DC on request)

Lens : 10°, 25°, 40°

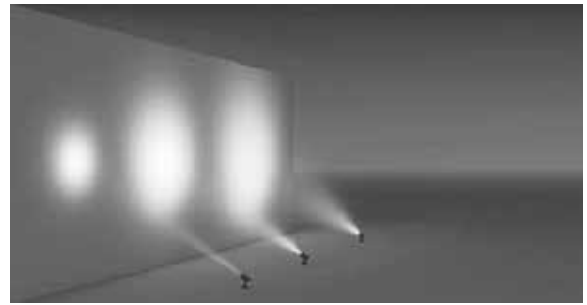
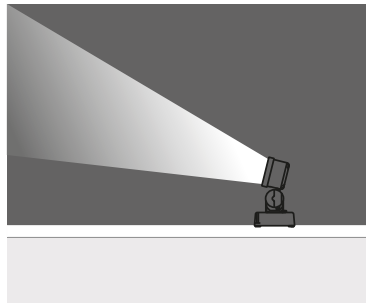
Diffuser : 8 mm Clear Glass (Frosted Glass on request)

Cable : Potted 5 m 2x0,75 H03 VV-F

ATLANTIS

NEARWATER RGB LED SPOT Class III IP67 IK10

ATLANTIS 5



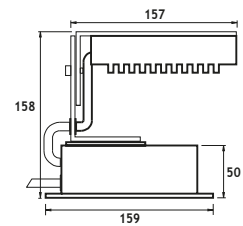
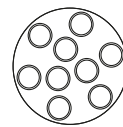
27 x 350 mA (30 W) RGB LED

- Voltage : 40V DC
- Lens : 25°, 40°
- Diffuser : 8 mm Clear Glass (Frosted Glass on request)
- Cable : Potted 10m 4x0,75 H03 VV-F

RGB LED



Code No
412361

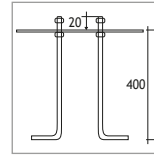


ATLANTIS

MARINE BOLLARD Class I IP65 IK08

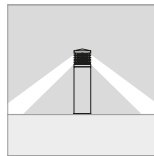
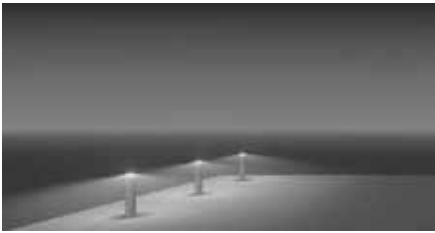
EMFA's Atlantis bollard is made of a combination 316L stainless steel and polycarbonate for use in all weather conditions without risk of corrosion. The bollard is designed to light pathways, landscapes and open spaces. The unit comes in 3 sizes: 450mm, 700mm, and 1100mm, as well as with 2 lamp options: LED and Fluorescent. The bollard can have a polished, brushed, or matt finish. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete.

Anchor



Code No 955201

Code Number should be indicated along with bollard code number



Head
316L Stainless Steel
Diffuser
Clear Polycarbonate
Pipe
316L Stainless Steel
Isolation Belt
Polycarbonate
Finish
Polished

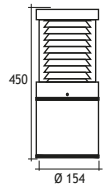


ATLANTIS (45 CM)

☀️ CODE NO 409001
LINEAR LED (4W)

CODE NO 409011
ELECTRONIC FLUO. 23W E27

CODE NO 409021
FLUO. 26W G24 q-3

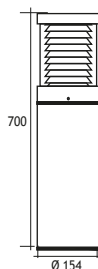


ATLANTIS (70 CM)

☀️ CODE NO 409101
LINEAR LED (4W)

CODE NO 409111
ELECTRONIC FLUO. 23W E27

CODE NO 409121
FLUO. 26W G24 q-3

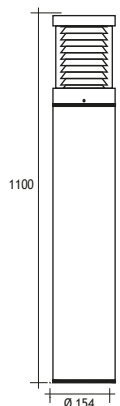


ATLANTIS (110 CM)

☀️ CODE NO 409201
LINEAR LED (4W)

CODE NO 409211
ELECTRONIC FLUO. 23W E27

CODE NO 409221
FLUO. 26W G24 q-3



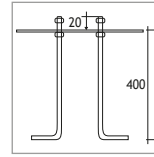


ATLANTIS MARINE BOLLARD

Class I IP65 IK08

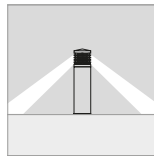
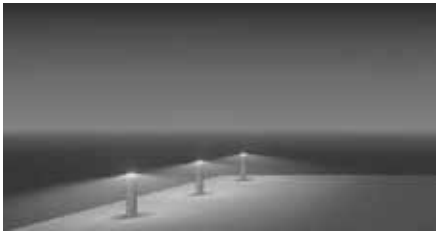
EMFA's Atlantis bollard is made of a combination 316L stainless steel and polycarbonate for use in all weather conditions without risk of corrosion. The bollard is designed to light pathways, landscapes and open spaces. The unit comes in 3 sizes: 450mm, 700mm, and 1100mm, as well as with 2 lamp options: LED and Fluorescent. The bollard can have a polished, brushed, or matt finish. An optional galvanized steel anchorage kit is available for mounting into concrete. An alternative option is sleeve anchors for mounting onto existing concrete.

Anchor



Code No 955201

Code Number should be indicated along with bollard code number



Head
316L Stainless Steel
Diffuser
Clear Polycarbonate
Pipe
316L Stainless Steel
Isolation Belt
Polycarbonate
Finish
Brushed

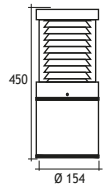


ATLANTIS (45 CM)

☀ CODE NO 410001
4x350mA LINEAR LED (4W)

CODE NO 410011
ELECTRONIC FLUO. 23W E27

CODE NO 410021
FLUO. 26W G24 q-3

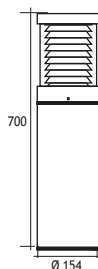


ATLANTIS (70 CM)

☀ CODE NO 410101
4x350mA LINEAR LED (4W)

CODE NO 410111
ELECTRONIC FLUO. 23W E27

CODE NO 410121
FLUO. 26W G24 q-3

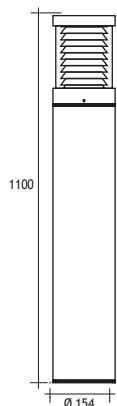


ATLANTIS (110 CM)

☀ CODE NO 410201
4x350mA LINEAR LED (4W)

CODE NO 410211
ELECTRONIC FLUO. 23W E27

CODE NO 410221
FLUO. 26W G24 q-3



INOX LED APPLIQUES

Class I IP65 IK08

The Inox Applique series consists of a range of LED, metal halide and halogen sources to deliver the desired light effect to facades and columns. The series is made of die cast aluminium and extrusion aluminium painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.

Pipe

316L Stainless Steel

Body

316L Stainless Steel

Cover

316L Stainless Steel

Finish

Polished

Diffusers

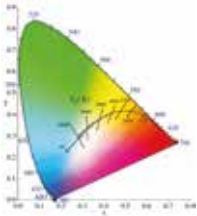
Tempered Glass

Gaskets

Silicone

Connection

IP connection box



“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

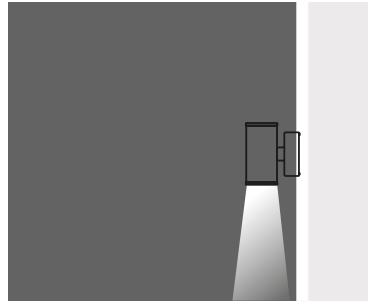


Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

INOX ROUND ONE-WAY APPLIQUES

Class I IP65 IK08



INOX 1 ROUND ONE WAY

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

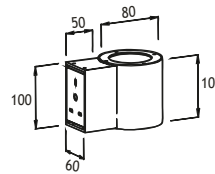
Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

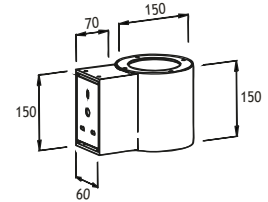
1x6W or 1x20W CREE COB LED

		6W	20W
☀ Warm White	3000 K	135001	135011
☁ Natural White	4000 K	135002	135012

6W



20W



INOX 2 ROUND ONE WAY

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

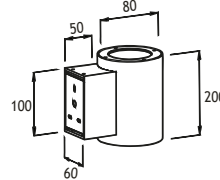
Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

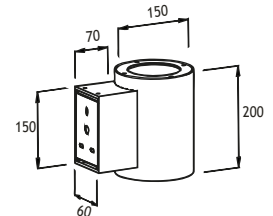
1x6W or 1x20W CREE COB LED

		6W	20W
☀ Warm White	3000 K	135021	135031
☁ Natural White	4000 K	135022	135032

6W



20W



INOX 3 ROUND ONE WAY

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

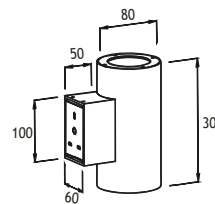
Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

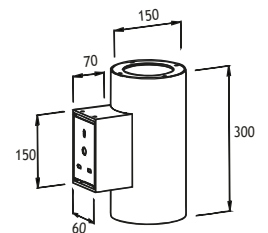
1x6W or 1x20W CREE COB LED

		6W	20W
☀ Warm White	3000 K	135041	135051
☁ Natural White	4000 K	135042	135052

6W

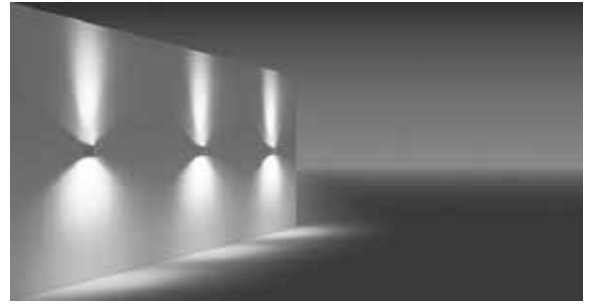
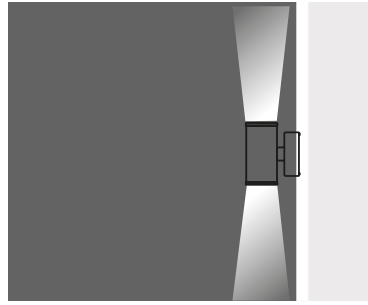


20W



INOX ROUND TWO-WAY APPLIQUES

Class I IP65 IK08



INOX 1 ROUND TWO WAY

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

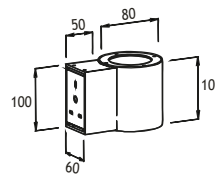
Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

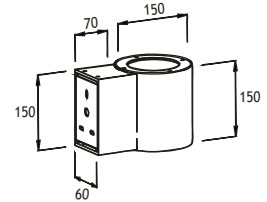
2x4W or 2x15W CREE COB LED

		2x4W	2x15W
☀ Warm White	3000 K	135101	135111
☀ Natural White	4000 K	135102	135112

2x4W



2x15W



INOX 2 ROUND TWO WAY

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

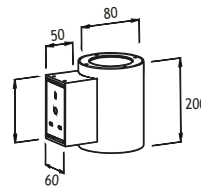
Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

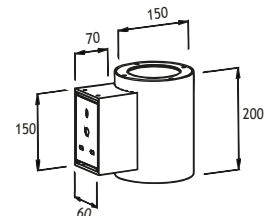
2x4W or 2x15W CREE COB LED

		2x4W	2x15W
☀ Warm White	3000 K	135121	135131
☀ Natural White	4000 K	135122	135132

2x4W



2x15W



INOX 3 ROUND TWO WAY

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

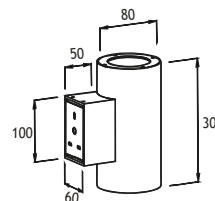
Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

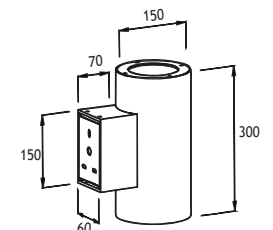
2x4W or 2x15W CREE COB LED

		2x4W	2x15W
☀ Warm White	3000 K	135141	135151
☀ Natural White	4000 K	135142	135152

2x4W

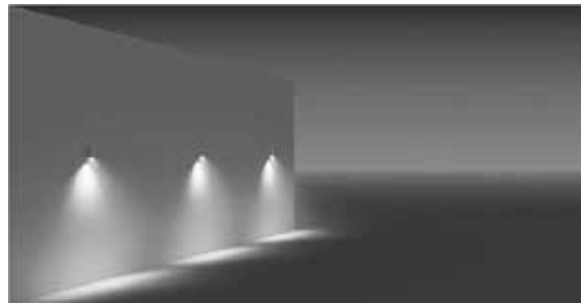
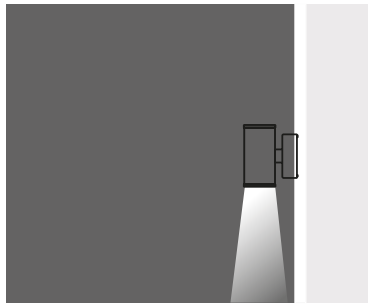


2x15W



INOX SQUARE ONE-WAY APPLIQUES

Class I IP65 IK08



INOX 1 SQUARE ONE WAY

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

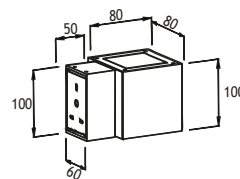
Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

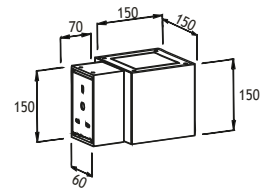
1x6W or 1x20W CREE COB LED

		6W	20W
☀ Warm White	3000 K	135201	135211
☀ Natural White	4000 K	135202	135212

6W



20W



INOX 2 SQUARE ONE WAY

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

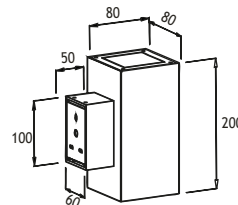
Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

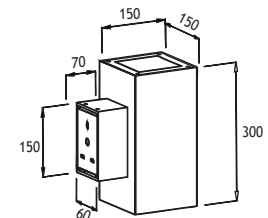
1x6W or 1x20W CREE COB LED

		6W	20W
☀ Warm White	3000 K	135221	135231
☀ Natural White	4000 K	135222	135232

6W

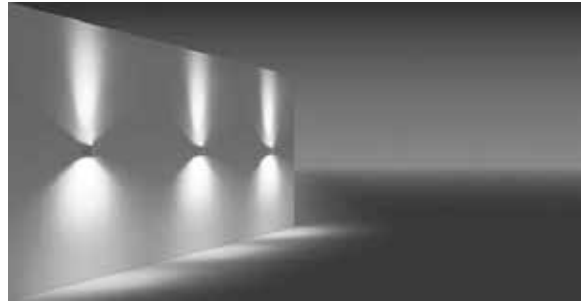
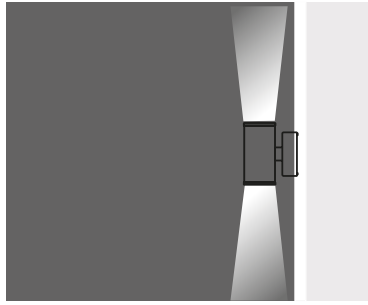


20W



INOX SQUARE TWO-WAY APPLIQUES

Class I IP65 IK08



INOX 1 SQUARE TWO WAY

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

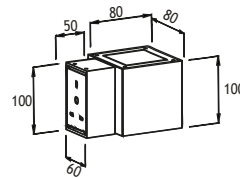
Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

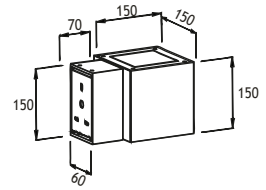
2x4W or 2x15W CREE COB LED

		Polished	Brushed
☀ Warm White	3000 K	135301	135311
☾ Natural White	4000 K	135302	135312

2x4W



2x15W



INOX 2 SQUARE TWO WAY

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

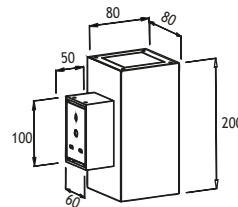
Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F

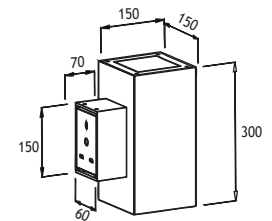
2x4W or 2x15W CREE COB LED

		Polished	Brushed
☀ Warm White	3000 K	135321	135331
☾ Natural White	4000 K	135322	135332

2x4W



2x15W



INOX SURFACE MOUNTED CEILING FIXTURES

Class I IP65 IK08

The Inox surface series consists of a range of LED, metal halide and halogen sources to deliver the desired light effect to facades and columns. The series is made of die cast aluminium and extrusion aluminium painted with electrostatic powder paint. 6 standard RAL colors can be chosen from to adapt the spots to their environment. The LEDs used come in 3 different tones of white, as well as blue, red, green, amber and RGB. Several lenses from 6 to 40 degrees are available to choose from to achieve the desired the light effect.

Body

316L Stainless Steel

Cover

316L Stainless Steel

Finish

Polished

Diffusers

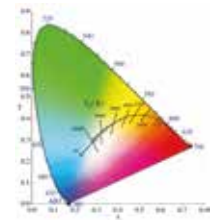
Tempered Glass

Gaskets

Silicone

Connection

IP connection box



“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors and 5 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

LEDs

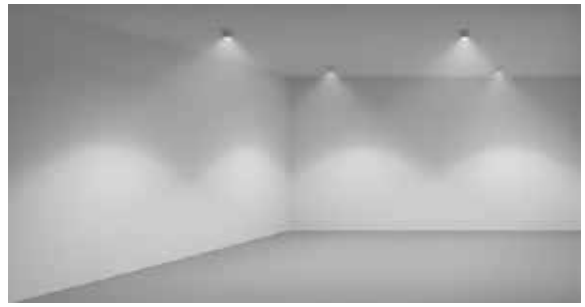
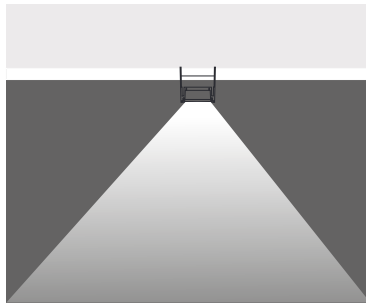
Only highest quality LEDs such as CREE and Seoul conductor are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2014. At 2700K, 3300K, and 4500K LED lumen output per led is 75lm; at 6000K the lumen output per led is 115lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

INOX SURFACE MOUNTED CEILING FIXTURES

Class I IP65 IK08

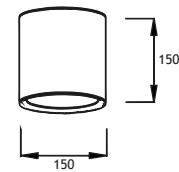


INOX 1 SURFACE

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F



1x15W/20W CREE COB LED

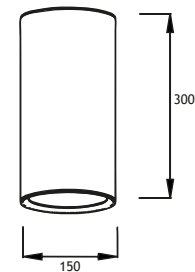
		Polished	Brushed
☀ Warm White	3000 K	136001	136011
☾ Natural White	4000 K	136002	136012

INOX 2 SURFACE

Voltage : 240V A.C with integrated driver
(24V AC or DC on request)

Lens : 24° / 36° / 60°

Cable : Potted 5 m 3x0,75 H03 VV-F



1x15W/20W/30W CREE COB LED

		Polished	Brushed
☀ Warm White	3000 K	136021	136031
☾ Natural White	4000 K	136022	136032

Downlights



PINARA

LINEAR LED DOWNLIGHT

Class II IP20



The PINARA LED downlight is specially designed to deliver high output LED light with very clean beam angles to corridors, hotel rooms, museums and general lighting of public spaces. The Nichia LEDs in the PINARA are very efficient and have a high CRI (90). The unique lens that is used in this fixture creates very sharp beams that minimize the spill of uncontrolled light from the fixture. This reduces the glare of the fixture and gives more control to the architects and designers.

Body

Polycarbonate

Heatsink

Aluminium extrusion profile

Diffuser

With clear or frosted tempered glass, without glass

Springs

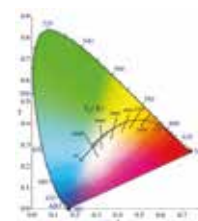
Steel

Cable

0.5 m exiting top of fixture

Gear

Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)



Downlight

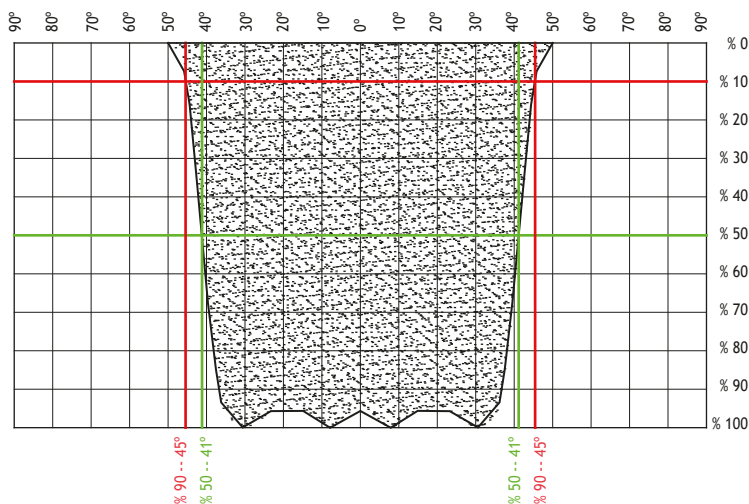


Application

Symmetrical and asymmetrical lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 2 standard paint colors, 2 white tones, 2 wattages are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

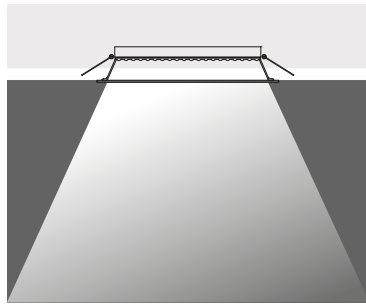
PINARA

LINEAR LED DOWNLIGHT

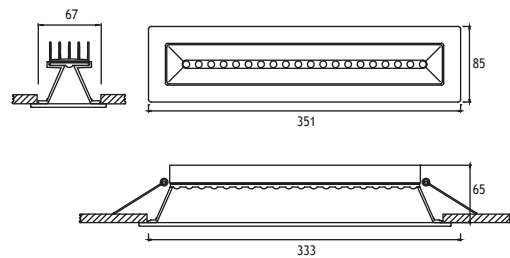
Class II IP20



PINARA 1 Clear or frosted tempered Glass



Led : 350 - 500 - 700 mA (Nichia)
Diffuser
 Clear or frosted tempered Glass
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver and
 DALI Driver available on request)
Cable : 0.5 m 2x0,75 mm H03 VV-F

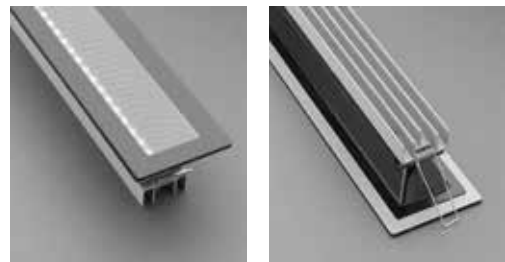


☀ Warm White 3000 K

10W - 350 mA	1050 lm	Code No: 392001
15W - 500 mA	1500 lm	Code No: 392002
21W - 700 mA	2050 lm	Code No: 392003

☾ Natural White 4000 K

10W - 350 mA	1150 lm	Code No: 392011
15W - 500 mA	1600 lm	Code No: 392012
21W - 700 mA	2200 lm	Code No: 392013



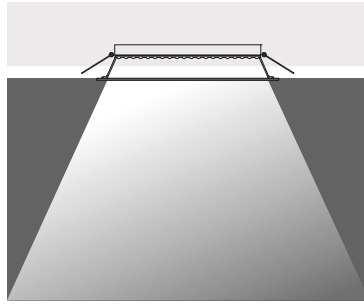
PINARA

LINEAR LED DOWNLIGHT

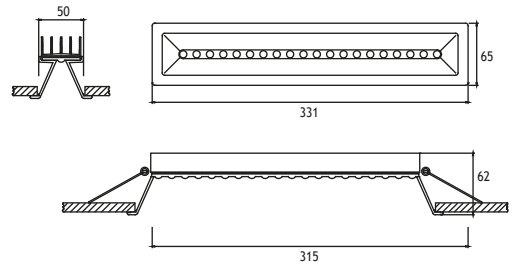
Class II IP20



PINARA 2 SYMMETRICAL



Led : 350 - 500 - 700 mA (Nichia)
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver and
 DALI Driver available on request)
Cable : 0.5 m 2x0,75 mm H03 VV-F

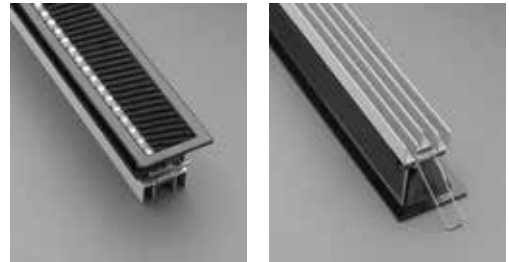


☀ Warm White 3000 K

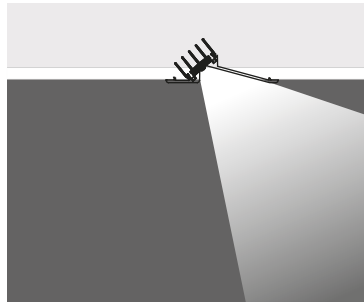
10W - 350 mA	1050 lm	Code No: 392101
15W - 500 mA	1500 lm	Code No: 392102
21W - 700 mA	2050 lm	Code No: 392103

☾ Natural White 4000 K

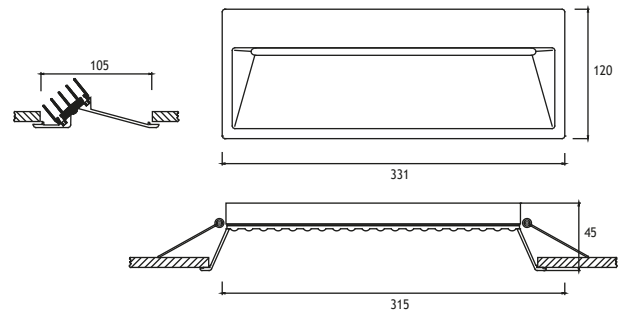
10W - 350 mA	1150 lm	Code No: 392111
15W - 500 mA	1600 lm	Code No: 392112
21W - 700 mA	2200 lm	Code No: 392113



PINARA 2 ASYMMETRICAL



Led : 350 - 500 - 700 mA (Nichia)
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver and
 DALI Driver available on request)
Cable : 0.5 m 2x0,75 mm H03 VV-F



☀ Warm White 3000 K

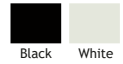
10W - 350 mA	1050 lm	Code No: 392121
15W - 500 mA	1500 lm	Code No: 392122
21W - 700 mA	2050 lm	Code No: 392123

☾ Natural White 4000 K

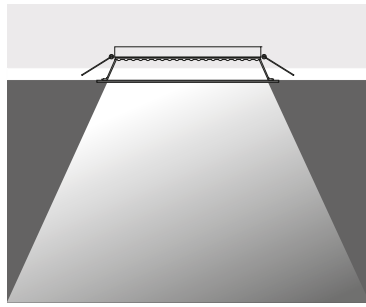
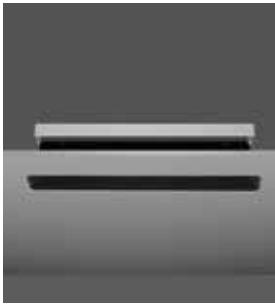
10W - 350 mA	1150 lm	Code No: 392131
15W - 500 mA	1600 lm	Code No: 392132
21W - 700 mA	2200 lm	Code No: 392133

PINARA TRIMLESS LINEAR LED DOWNLIGHT

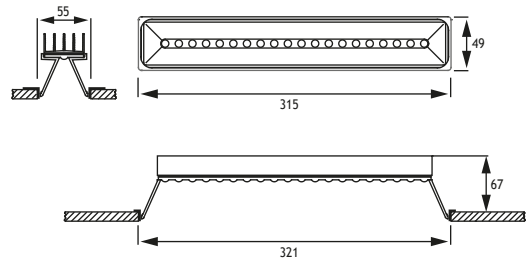
Class II IP20



PINARA SYMMETRICAL TRIMLESS



Led : 350 - 500 - 700 mA (Nichia)
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver and
 DALI Driver available on request)
Cable : 0.5 m 2x0,75 mm H03 VV-F

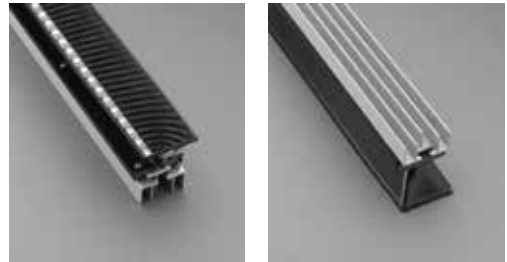


☀ Warm White 3000 K

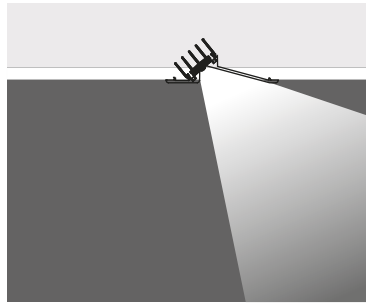
10W - 350 mA	1050 lm	Code No: 392141
15W - 500 mA	1500 lm	Code No: 392142
21W - 700 mA	2050 lm	Code No: 392143

☾ Natural White 4000 K

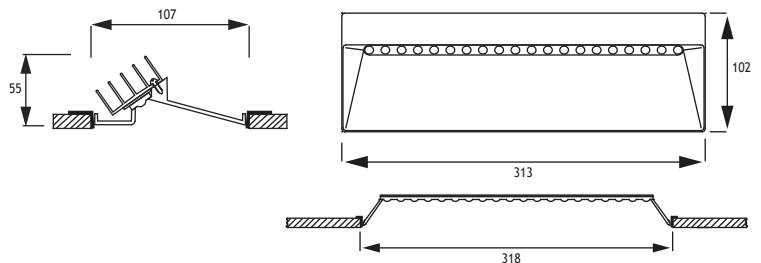
10W - 350 mA	1150 lm	Code No: 392151
15W - 500 mA	1600 lm	Code No: 392152
21W - 700 mA	2200 lm	Code No: 392153



PINARA ASYMMETRICAL TRIMLESS



Led : 350 - 500 - 700 mA (Nichia)
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver and
 DALI Driver available on request)
Cable : 0.5 m 2x0,75 mm H03 VV-F



☀ Warm White 3000 K

10W - 350 mA	1050 lm	Code No: 392161
15W - 500 mA	1500 lm	Code No: 392162
21W - 700 mA	2050 lm	Code No: 392163

☾ Natural White 4000 K

10W - 350 mA	1150 lm	Code No: 392171
15W - 500 mA	1600 lm	Code No: 392172
21W - 700 mA	2200 lm	Code No: 392173



PENTATHLON LED DOWNLIGHT

Class II IP20

Available in any of these RAL colors

					
7004	7016	9005	9016	6002	1015

The PENTATHLON Dark Reflector LED Downlight is specially designed to provide low glare lighting in high ceiling areas. The Nichia COB chip gives out a high efficiency and high CRI (90) light. The lens that is used in the PENTATHLON allows the light to reach the ground with minimal loss from deep inside the fixture. The depth of the fixture and the clean beam of the lens is what provides the low glare of this fixture.

Body

Die cast aluminium

Paint

Electrostatic powder paint RAL 9016 (available in other RAL colors)

Springs

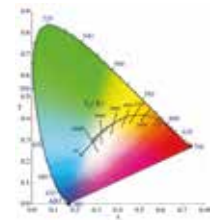
Steel for mounting in ceilings of 1-25mm thickness

Gear

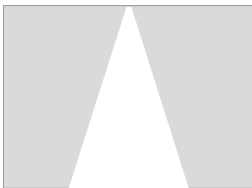
Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)

Cable

0.5m exiting from top of fixture



Downlight



Application

Wide and narrow beam symmetrical and asymmetrical lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 4 standard paint colors, 2 white tones, 2 wattages, and 2 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

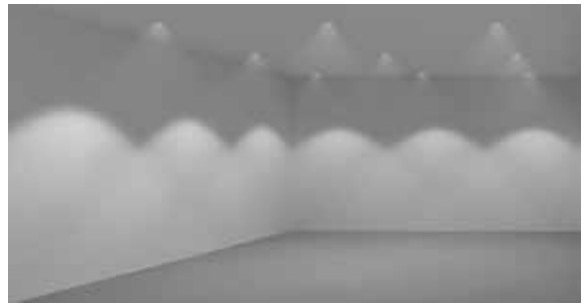
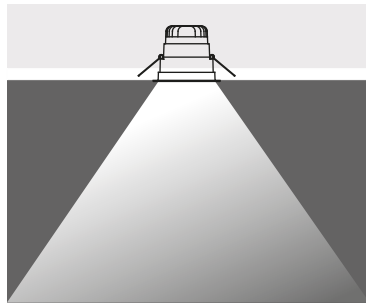
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

PENTATHLON LED DOWNLIGHT Class II IP20

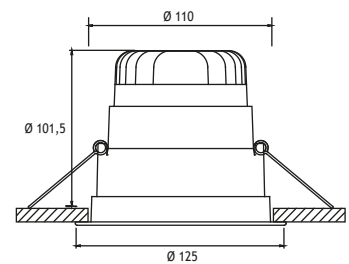
Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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PENTATHLON SYMMETRICAL

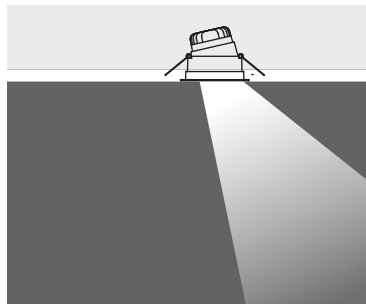


Led : 350mA 13W / 700mA 24W LED (Nichia)
Reflector : 24° or 38°
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

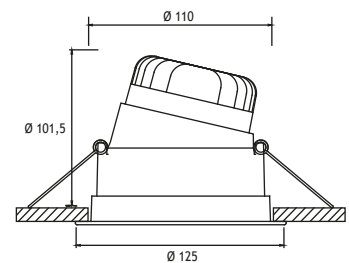


		Total Lighting Output	Code No
13W - 350 mA			
☾ Warm White	3000 K	1250 lm	118201
☀ Natural White	4000 K	1375 lm	118202

PENTATHLON ASYMMETRICAL



Led : 350mA 13W / 700mA 24W LED (Nichia)
Reflector : 24° or 38°
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F



		Total Lighting Output	Code No
13W - 350 mA			
☾ Warm White	3000 K	1250 lm	118221
☀ Natural White	4000 K	1375 lm	118222

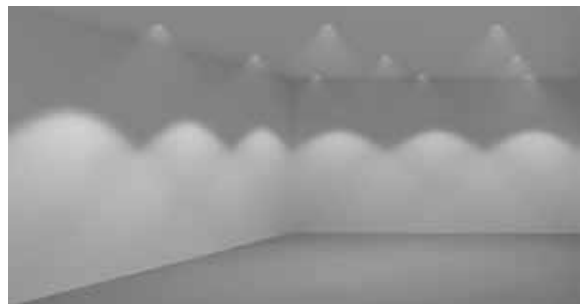
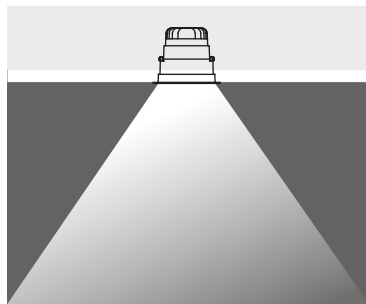
PENTATHLON TRIMLESS LED DOWNLIGHT

Class II IP20

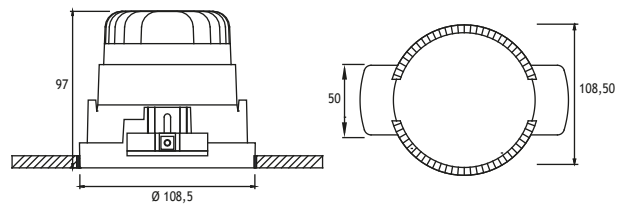
Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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PENTATHLON SYMMETRICAL

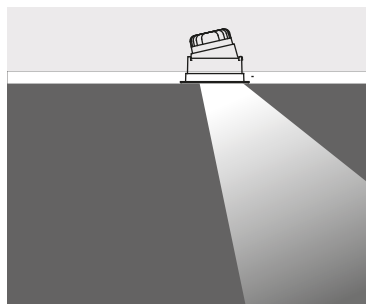


Led : 350mA 13W / 700mA 24W LED (Nichia)
Reflector : 24° or 38°
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

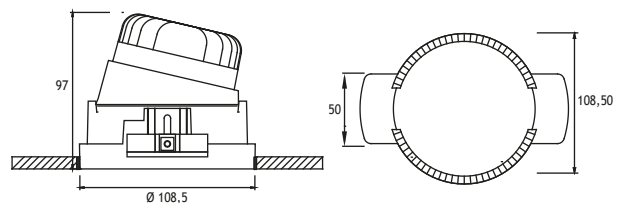


		Total Lighting Output	Code No
13W - 350 mA			
☾ Warm White	3000 K	1250 lm	118301
☀ Natural White	4000 K	1375 lm	118302

PENTATHLON ASYMMETRICAL



Led : 350mA 13W / 700mA 24W LED (Nichia)
Reflector : 24° or 38°
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F



		Total Lighting Output	Code No
13W - 350 mA			
☾ Warm White	3000 K	1250 lm	118321
☀ Natural White	4000 K	1375 lm	118322



EMFA

SATURN LED DOWNLIGHT

Class II IP20

Available in any of these RAL colors

9016	9005	7016	7004	1015
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The Saturn LED Downlight is specially designed to provide highest energy efficiency in general lighting applications. Using latest LED technology in combination with special plastic moulding and paint application allows for around 90lm/W lighting output. The highly efficient diffuser provides a completely homogenous light output.

Body

Die cast aluminium

Paint

Electrostatic powder paint RAL 9016 (available in other RAL colors)

Springs

Steel for mounting in ceilings of 1-25mm thickness

Gear

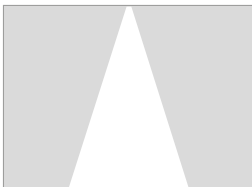
Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)

Cable

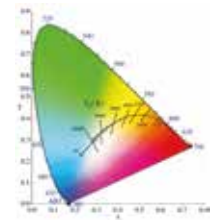
0.5m exiting from top of fixture



Fixed



Adjustable



Application

Wide beam fixed & adjustable lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 4 standard paint colors, 3 white tones, 2 wattages, and 3 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

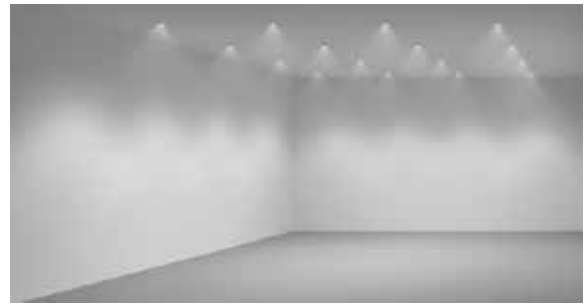
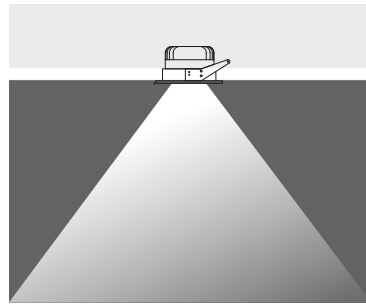
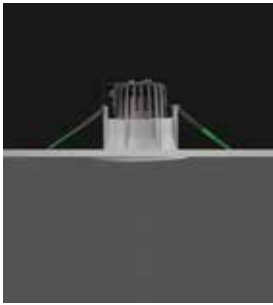
SATURN LED DOWNLIGHT

Class II IP20

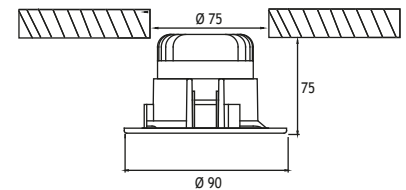
Available in any of these RAL colors



Fixed



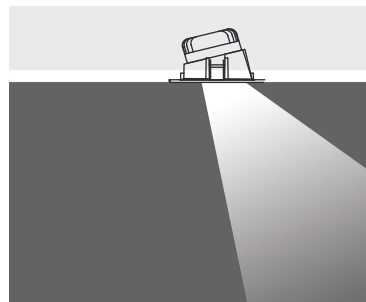
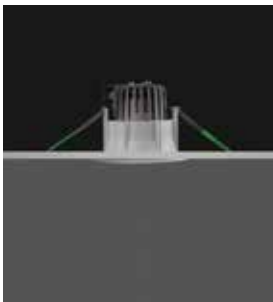
Led : 180mA 6W / 250mA 8W COB LED
Reflector : 10° / 38°
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F



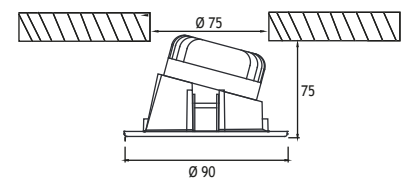
6W - 180mA		Total Lighting Output	Code No
☀ Warm White	3000 K	460 lm	528001
☀ Natural White	4000 K	510 lm	528002
☀ Cool White	6000 K	545 lm	528003

8W - 250mA		Total Lighting Output	Code No
☀ Warm White	3000 K	520 lm	528011
☀ Natural White	4000 K	560 lm	528012
☀ Cool White	6000 K	644 lm	528013

Adjustable



Led : 180mA 6W / 250mA 8W COB LED
Reflector : 10° / 38°
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F



6W - 180mA		Total Lighting Output	Code No
☀ Warm White	3000 K	460 lm	528101
☀ Natural White	4000 K	510 lm	528102
☀ Cool White	6000 K	545 lm	528103

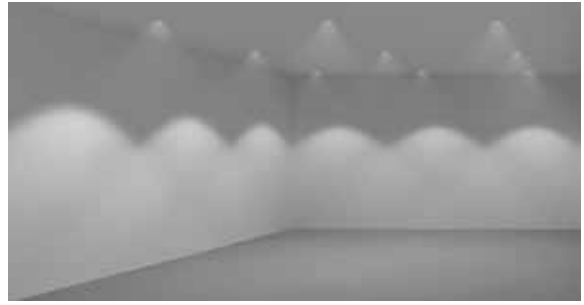
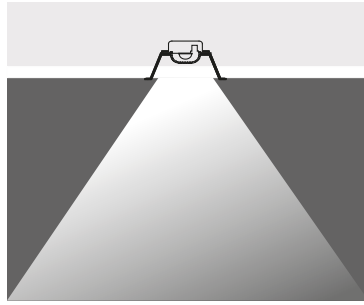
8W - 250mA		Total Lighting Output	Code No
☀ Warm White	3000 K	520 lm	528111
☀ Natural White	4000 K	560 lm	528112
☀ Cool White	6000 K	644 lm	528113

CUNDA LED DOWNLIGHT Class II IP44

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015

CUNDA 1

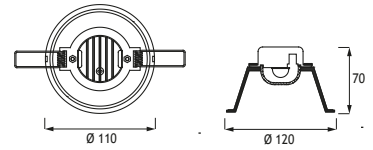


CUNDA 1 DOT

250 mA (7 W) LED

- Warm White 3000 K
- Natural White 4000 K

Total Lighting Output	Code No
560 lm	419201
590 lm	419202

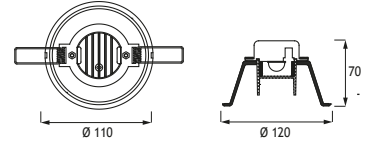


CUNDA 1 HALO

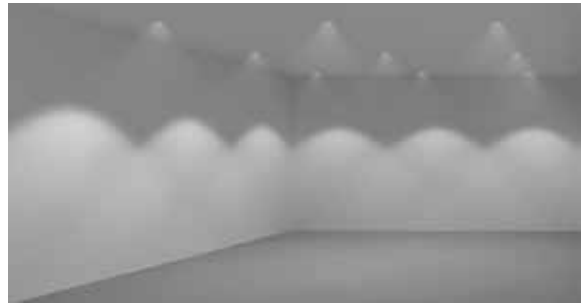
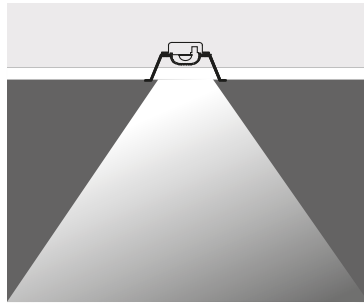
250 mA (7 W) LED

- Warm White 3000 K
- Natural White 4000 K

Total Lighting Output	Code No
490 lm	419211
530 lm	419212



CUNDA 2

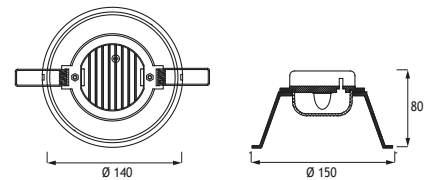


CUNDA 2 DOT

320 mA (11 W) LED

- Warm White 3000 K
- Natural White 4000 K

Total Lighting Output	Code No
890 lm	419301
925 lm	419302

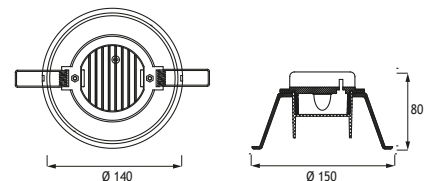


CUNDA 2 HALO

320 mA (11 W) LED

- Warm White 3000 K
- Natural White 4000 K

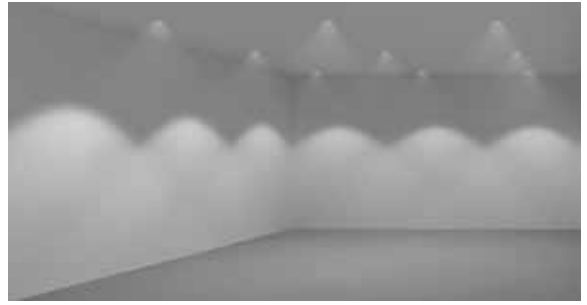
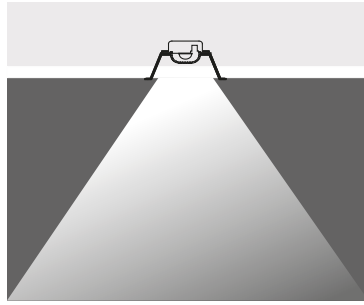
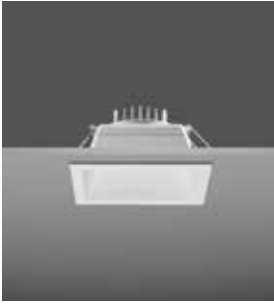
Total Lighting Output	Code No
790 lm	419311
830 lm	419312



PATARA LED DOWNLIGHT

Class II IP44

PATARA 1

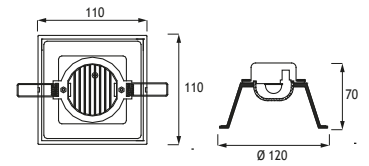


PATARA 1 DOT

250 mA (7 W) LED

- ☾ Warm White 3000 K
- ☀ Natural White 4000 K

Total Lighting Output	Code No
560 lm	420301
590 lm	420302

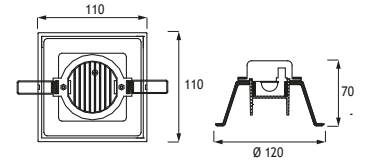


PATARA 1 HALO

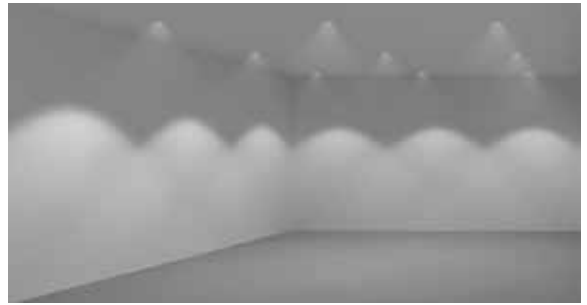
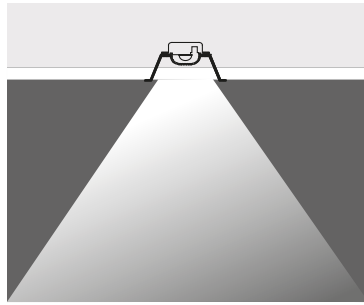
250 mA (7 W) LED

- ☾ Warm White 3000 K
- ☀ Natural White 4000 K

Total Lighting Output	Code No
490 lm	420311
530 lm	420312



PATARA 2

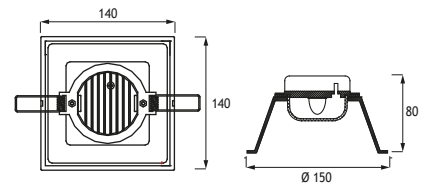


PATARA 2 DOT

320 mA (11 W) LED

- ☾ Warm White 3000 K
- ☀ Natural White 4000 K

Total Lighting Output	Code No
890 lm	420401
925 lm	420402

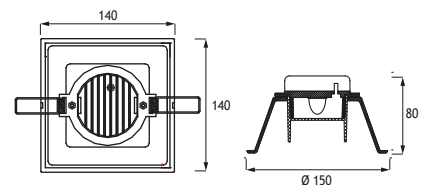


PATARA 2 HALO

320 mA (11 W) LED

- ☾ Warm White 3000 K
- ☀ Natural White 4000 K

Total Lighting Output	Code No
790 lm	420411
830 lm	420412



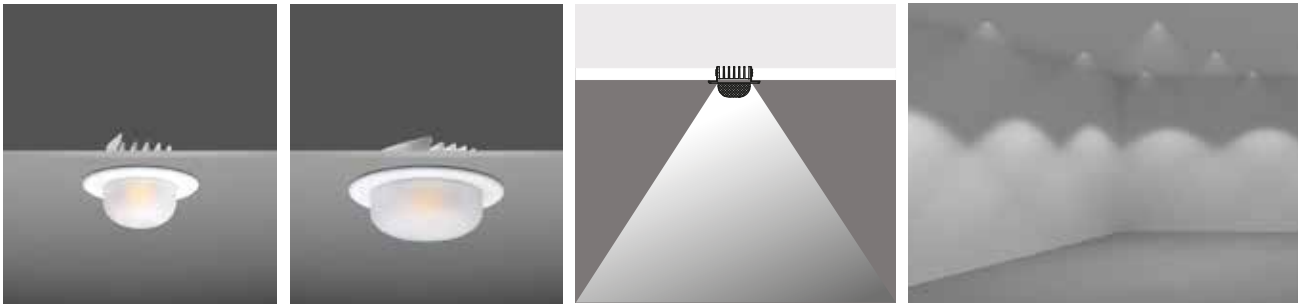
DOT LED DOWNLIGHT

Class II IP44

Available in any of these RAL colors

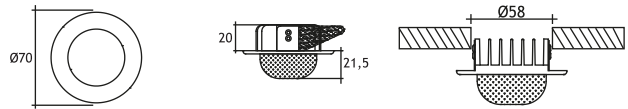
7004	7016	9005	9016	6002	1015

DOT DOWNLIGHT

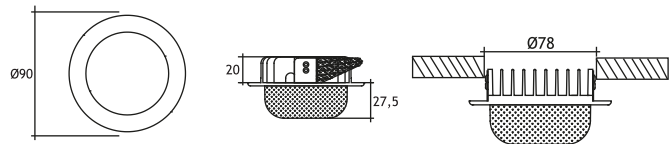


DOT DOWNLIGHT

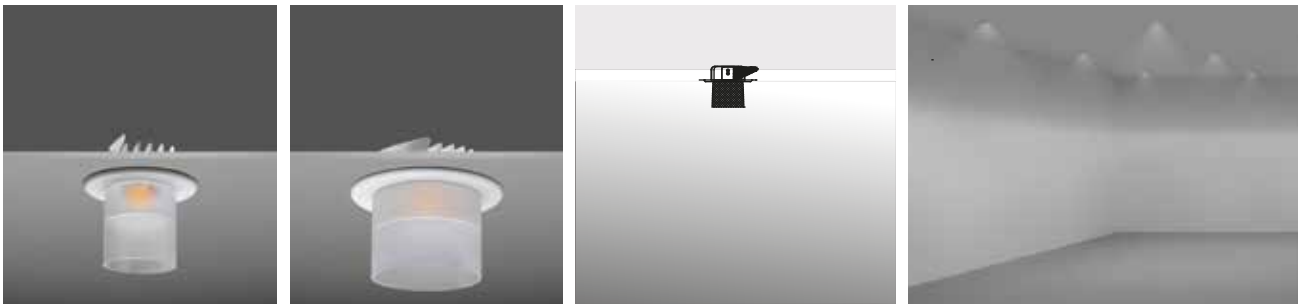
		Total Lighting Output	Code No
250 mA (7 W) LED			
	Warm White 3000 K	600 lm	112301
	Natural White 4000 K	640 lm	112302



		Total Lighting Output	Code No
350 mA (11 W) LED			
	Warm White 3000 K	925 lm	112311
	Natural White 4000 K	975 lm	112312

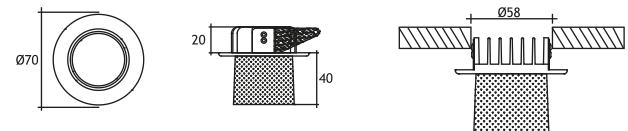


HALO DOWNLIGHT

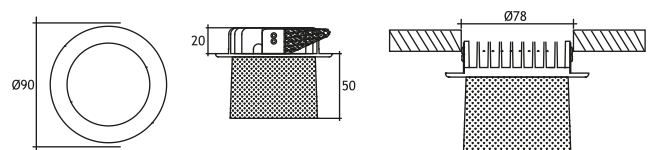


HALO DOWNLIGHT

		Total Lighting Output	Code No
250 mA (7 W) LED			
	Warm White 3000 K	540 lm	112401
	Natural White 4000 K	580 lm	112402



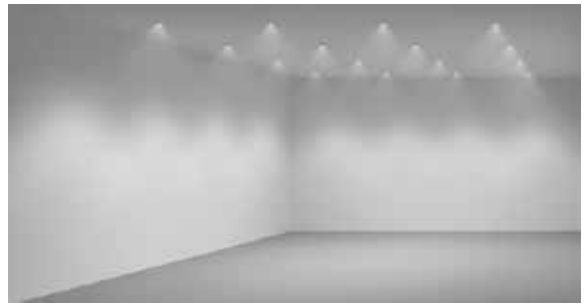
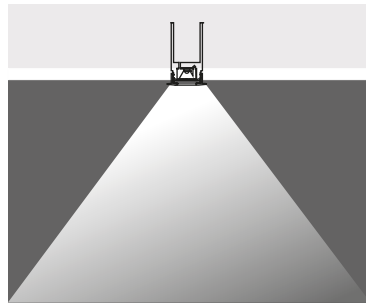
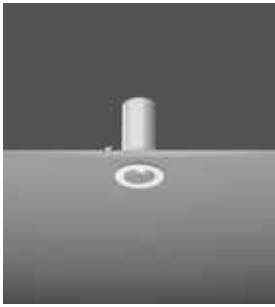
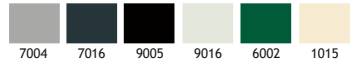
		Total Lighting Output	Code No
350 mA (11 W) LED			
	Warm White 3000 K	830 lm	112411
	Natural White 4000 K	880 lm	112412



BELKIS MINI LED DOWNLIGHT

Class I IP65

Available in any of these RAL colors



Cover

Die cast aluminium or Stainless steel

Body

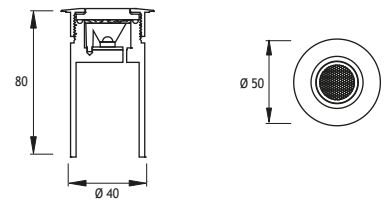
Die cast aluminium

Gaskets

Silicone

Diffusers

Tempered Glass



- Voltage** : 240V A.C with integrated driver
(24V AC or DC on request)
- Lens** : 25°, 40°
- Diffuser** : Clear Glass with painted circumference
8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

1 x 350 mA (1 W) LED		Total Lighting Output	Code No
☀ Warm White	3000 K	85 lm	297001
☁ Natural White	4500 K	85 lm	297002
☀ Cool White	6000 K	102 lm	297003



MARATHON LED DOWNLIGHT

Class II IP65 IK10

The Marathon LED Downlight is specially designed to deliver high output LED light to indoors and outdoors using CREE LEDs. This downlight is the choice for lighting applications where high luminous-flux output is required from a single, small point source. A combination of high color rendition of over 80, several different color temperatures and several degree reflectors and lenses allow the use in a wide range of applications such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies. The shallow fixture depths allow for installation into most ceilings and applications. Non-dimmable drivers come standard with the Downlights, but 1-10V dimmable and DALI drivers are available on request. An ample heat sink is provided for to allow for the lifetime of L70 = 50,000 hours.

Body

Die cast aluminium designed to be heat sink

Cover

Die cast aluminium RAL9002 (available in other RAL colors as well as chrome or gold on request)

Diffuser

Clear or frosted tempered Glass

Springs

Stainless steel for mounting in ceilings or 1-25 mm (with plastic covers for the Marathon 2 Downlight)

Cable

0.5 m exiting top of fixture

Gear

Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)

Downlight

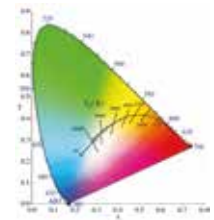


Application

Narrow to wide beam symmetrical lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 4 standard paint colors, 3 white tones, 3 wattages, and 3 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

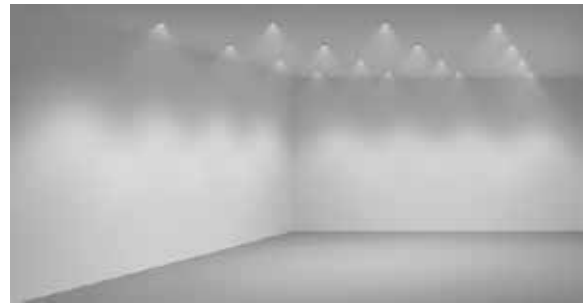
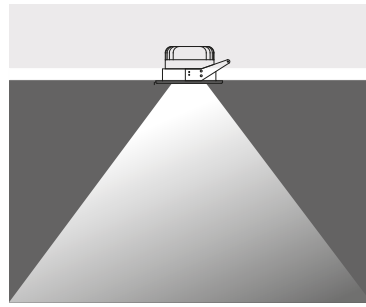
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

MARATHON 2 LED DOWNLIGHT

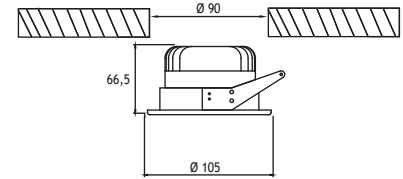
Class II IP65 IK10

Available in any of these RAL colors

9016	9005	7016	7004	1015
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- Led** : COB LED (350-500mA)
- Reflector** : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
- Cable** : 0,5 m 2x0,75 mm H03 VV-F



1 x 350 mA (11 W) LED or 1 x 500 mA (18 W) LED

Total Lighting Output		Code No	
11W	18W	11W	18W

- | | | | | | |
|-----------------|--------|--------|---------|--------|--------|
| ☀ Warm White | 3000 K | 696 lm | 1224 lm | 260102 | 260111 |
| ☁ Natural White | 4000 K | 835 lm | 1469 lm | 260103 | 260112 |

	10°	23°	38°
2m	∅ 0,35m 0,01m ²	∅ 0,81m 0,52m ²	∅ 1,38m 1,49m ²
4m	∅ 0,70m 0,38m ²	∅ 1,63m 2,08m ²	∅ 2,76m 5,97m ²
6m	∅ 1,05m 0,87m ²	∅ 2,44m 4,68m ²	∅ 4,13m 13,40m ²
8m	∅ 1,40m 1,54m ²	∅ 3,26m 8,33m ²	∅ 5,51m 23,84m ²
10m	∅ 1,75m 2,40m ²	∅ 4,07m 13,02m ²	∅ 6,89m 37,29m ²
	13759 lx	2705 lx	989 lx
	3440 lx	676 lx	247 lx
	1529 lx	301 lx	110 lx
	861 lx	169 lx	62 lx
	550 lx	108 lx	40 lx



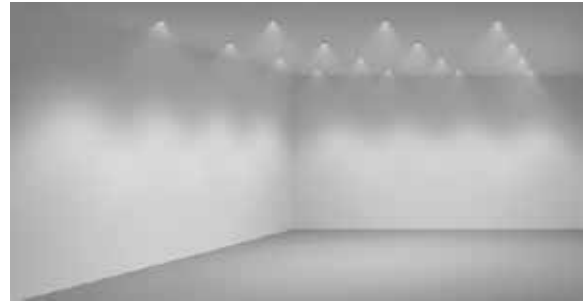
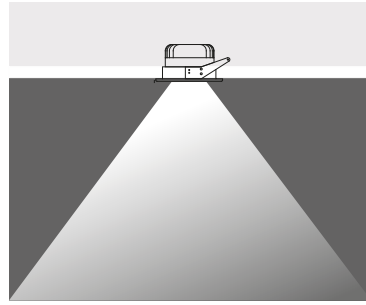
MARATHON TIR LENS LED DOWNLIGHT

Class II IP65 IK10

Available in any of these RAL colors

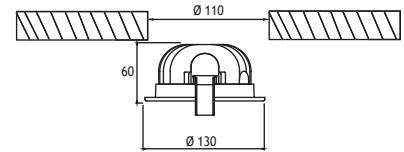


MARATHON 3 DOWNLIGHT



1 x 350mA (11 W) or 1 x 700mA (18 W)

- Led : COB LED (350-700 mA)
- Lens : 10°, 20°, 30° Mirror TIR Lens
- Diffuser : Clear Glass 8 mm (Frosted Glass on request)
- Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs : Stainless Steel for mounting in ceilings of 1-25 mm
- Cable : 0,5 m 2x0,75 mm H03 VV-F

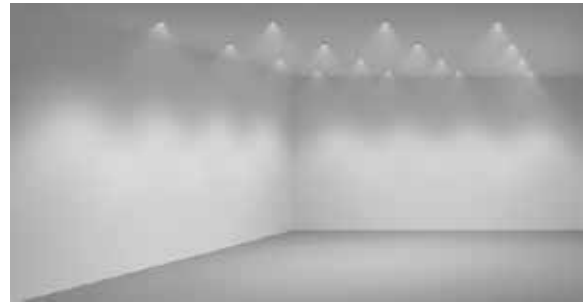
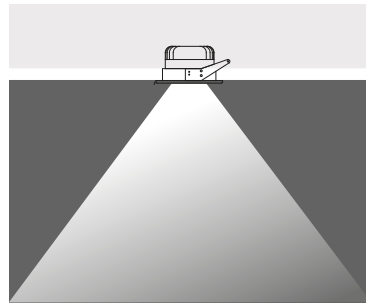


POWERLED

	Total Lighting Output		Code No	
	11W	18W	11W	18W
☀ Warm White 3000 K	655 lm	1153 lm	261001	261011
☾ Natural White 4000 K	786 lm	1383 lm	261002	261012

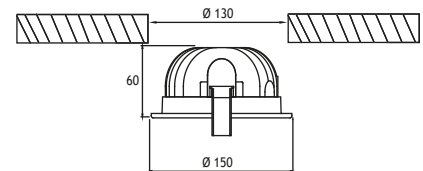
10°		20°		30°		
2m	Ø 0,35m 0,10m ²	1233lx	Ø 0,71m 0,39m ²	3438 lx	2m Ø 1,07m 0,90m ²	1644 lx
4m	Ø 0,70m 0,38m ²	3084 lx	Ø 1,41m 1,56m ²	860 lx	4m Ø 2,14m 3,61m ²	411lx
6m	Ø 1,05m 0,87m ²	1371lx	Ø 2,12m 3,52m ²	382 lx	6m Ø 3,22m 8,13m ²	183 lx
8m	Ø 1,40m 1,54m ²	771 lx	Ø 2,82m 6,26m ²	215 lx	8m Ø 4,29m 14,45m ²	103 lx
10m	Ø 1,75m 2,40m ²	493 lx	Ø 3,53m 9,78m ²	138 lx	10m Ø 5,36m 22,58m ²	66 lx

MARATHON 4 DOWNLIGHT



1 x 350mA (25 W) or 1 x 700mA (32 W)

- Led : COB LED (350-700 mA)
- Lens : 10°, 20°, 30° Mirror Tir Lens
- Diffuser : Clear Glass 8 mm (Frosted Glass on request)
- Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs : Stainless Steel for mounting in ceilings of 1-25 mm
- Cable : 0,5 m 2x0,75 mm H03 VV-F



POWERLED

	Total Lighting Output		Code No	
	25W	32W	25W	32W
☀ Warm White 3000 K	1645 lm	2134 lm	262001	262021
☾ Natural White 4000 K	1974 lm	2561 lm	262002	262022

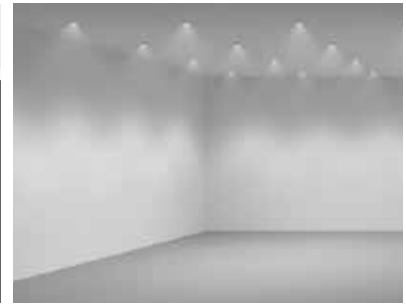
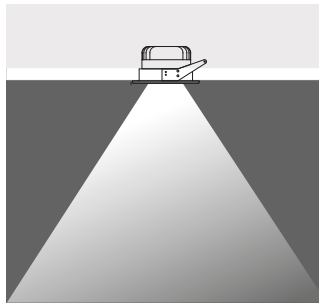
10°		20°		30°		
2m	Ø 0,35m 0,10m ²	2281lx	Ø 0,71m 0,39m ²	6261 lx	2m Ø 0,90m 1,49m ²	2953lx
4m	Ø 0,70m 0,38m ²	5703 lx	Ø 1,41m 1,56m ²	1565lx	4m Ø 3,61m 5,97m ²	738 lx
6m	Ø 1,05m 0,87m ²	2535 lx	Ø 2,12m 3,52m ²	696 lx	6m Ø 8,13m 13,40m ²	328 lx
8m	Ø 1,40m 1,54m ²	1426 lx	Ø 2,82m 6,26m ²	391 lx	8m Ø 14,45m 23,84m ²	185 lx
10m	Ø 1,75m 2,40m ²	913 lx	Ø 3,53m 9,78m ²	250 lx	10m Ø 5,36m 22,58m ²	118 lx

MARATHON 2 GLASS

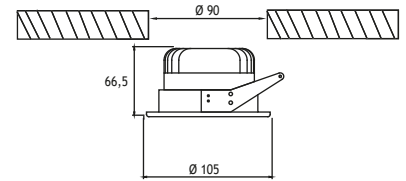
LED DOWNLIGHT Class II IP65 IK10

White Glass

Black Glass



- Led** : COB LED (350-500mA)
- Reflector** : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
- Cable** : 0,5 m 2x0,75 mm H03 VV-F



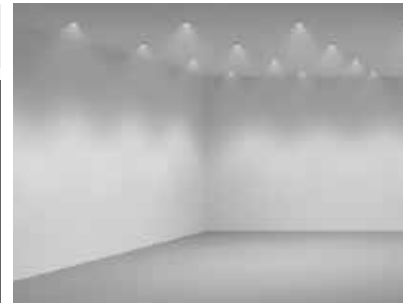
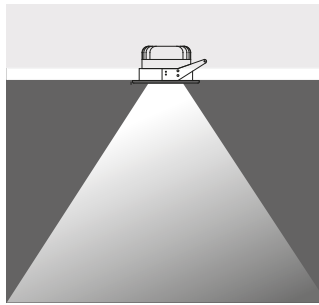
1 x 350 mA (11 W) LED or 1 x 500 mA (18 W) LED

Total Lighting Output		Code No	
11W	18W	11W	18W
Warm White 3000 K	696 lm 1224 lm	263002	263012
Natural White 4000 K	835 lm 1469 lm	263003	263013

10°		23°		38°	
2m	Ø 0,35m 0,01m ²	13759 lx	2m	Ø 0,81m 0,52m ²	2705 lx
4m	Ø 0,70m 0,38m ²	3440 lx	4m	Ø 1,63m 2,08m ²	676 lx
6m	Ø 1,05m 0,87m ²	1529 lx	6m	Ø 2,44m 4,68m ²	301 lx
8m	Ø 1,40m 1,54m ²	861 lx	8m	Ø 3,26m 8,33m ²	169 lx
10m	Ø 1,75m 2,40m ²	550 lx	10m	Ø 4,07m 13,02m ²	108 lx
			2m	Ø 1,38m 1,49m ²	989 lx
			4m	Ø 2,76m 5,97m ²	247 lx
			6m	Ø 4,13m 13,40m ²	110 lx
			8m	Ø 5,51m 23,84m ²	62 lx
			10m	Ø 6,89m 37,29m ²	40 lx

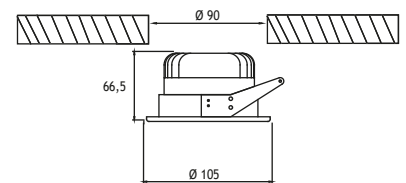
White Glass

Black Glass



1 x 350 mA (11 W) LED or 1 x 500 mA (18 W) LED

Total Lighting Output		Code No	
11W	18W	11W	18W
Warm White 3000 K	696 lm 1224 lm	263202	263212
Natural White 4000 K	835 lm 1469 lm	263203	263213



10°		23°		38°	
2m	Ø 0,35m 0,01m ²	13759 lx	2m	Ø 0,81m 0,52m ²	2705 lx
4m	Ø 0,70m 0,38m ²	3440 lx	4m	Ø 1,63m 2,08m ²	676 lx
6m	Ø 1,05m 0,87m ²	1529 lx	6m	Ø 2,44m 4,68m ²	301 lx
8m	Ø 1,40m 1,54m ²	861 lx	8m	Ø 3,26m 8,33m ²	169 lx
10m	Ø 1,75m 2,40m ²	550 lx	10m	Ø 4,07m 13,02m ²	108 lx
			2m	Ø 1,38m 1,49m ²	989 lx
			4m	Ø 2,76m 5,97m ²	247 lx
			6m	Ø 4,13m 13,40m ²	110 lx
			8m	Ø 5,51m 23,84m ²	62 lx
			10m	Ø 6,89m 37,29m ²	40 lx



MARATHON 2

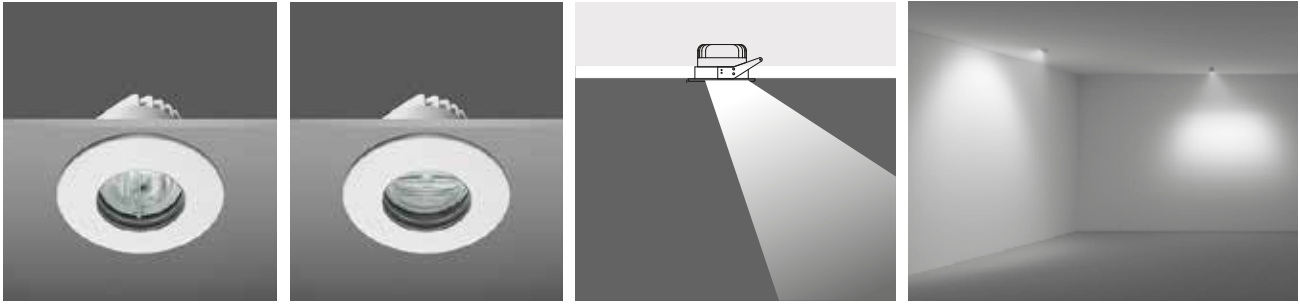
LED DOWNLIGHT Class II IP20

Available in any
of these RAL colors

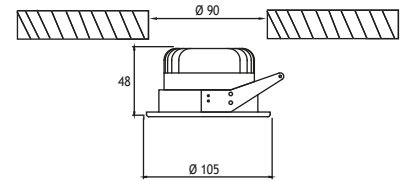


Wallwasher

Ellipse



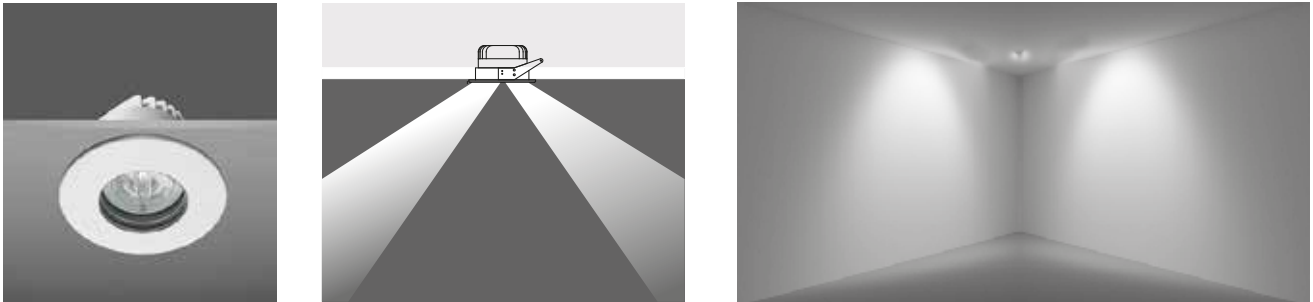
- Led** : COB LED (350-500mA)
- Reflector** : Wallwasher or Ellipse Lens
- Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
- Cable** : 0,5 m 2x0,75 mm H03 VV-F



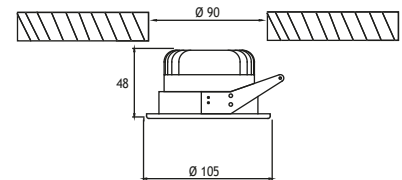
1 x 350 mA (11 W) LED or 1 x 500 mA (18 W) LED

		Total Lighting Output		Wallwasher		Ellipse	
		12W	18W	12W	18W	12W	18W
☀ Warm White	3000 K	1098 lm	1638 lm	264001	264011	264101	264111
☾ Natural White	4000 K	1317 lm	1965 lm	264002	264012	264102	264112

Two Way



- Led** : COB LED (350-500mA)
- Reflector** : Wallwasher Lens
- Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
- Cable** : 0,5 m 2x0,75 mm H03 VV-F



1 x 350 mA (11 W) LED or 1 x 500 mA (18 W) LED

		Total Lighting Output		Code No	
		12W	18W	12W	18W
☀ Warm White	3000 K	1098 lm	1638 lm	264201	264211
☾ Natural White	4000 K	1317 lm	1965 lm	264202	264212

DECATHLON LED DOWNLIGHT

Class II IP65 IK10

The Decathlon LED Downlight is specially designed to deliver high output LED light to indoors and outdoors using CREE LEDs. This downlight is the choice for lighting applications where high luminous-flux output is required from a single, small point source. The Decathlon is slightly wider and deeper than the Marathon giving a different look to the fixture, but the same output. A combination of high color rendition of over 80, several different color temperatures and several degree reflectors and lenses allow the use in a wide range of applications such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies. The shallow fixture depths allow for installation into most ceilings and applications. Non-dimmable drivers come standard with the Downlights, but 1-10V dimmable and DALI drivers are available on request. An ample heat sink is provided for to allow for the lifetime of L70 = 50,000 hours.



Body

Die cast aluminium designed to be heat sink

Cover

Die cast aluminium RAL9002 (available in other RAL colors as well as chrome or gold on request)

Diffuser

Clear or frosted tempered Glass

Springs

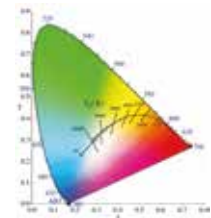
Stainless steel for mounting in ceilings or 1-25 mm (with plastic covers for the Marathon 2 Downlight)

Cable

0.5 m exiting top of fixture

Gear

Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)



Downlight



Application

Narrow to wide beam symmetrical lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.

Directional Downlight



Application

These fixtures give a narrow to wide beam asymmetrical light output to walls, paintings, corridors and shop displays. The die cast aluminium body has a fixed built in tilt to allow for proper heat dissipation on the LEDs that can run up to 700mA.

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 4 standard paint colors, 3 white tones, 3 wattages, and 3 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

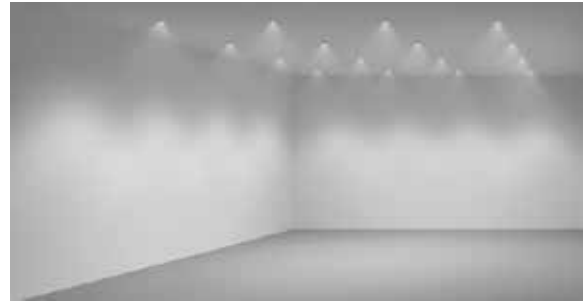
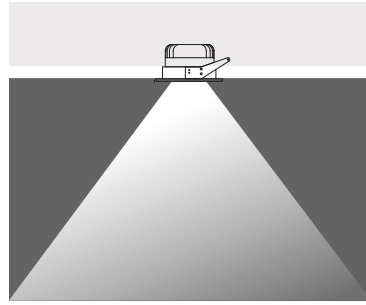
DECATHLON 2 LED DOWNLIGHT

Class II IP65 IK10

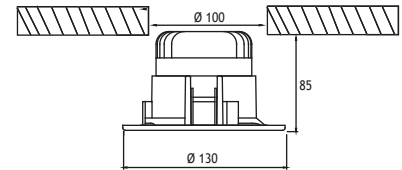
Available in any of these RAL colors



Symmetrical



- Led** : COB CREE LED (350-700mA)
- Reflector** : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
- Cable** : 0,5 m 2x0,75 mm H03 VV-F

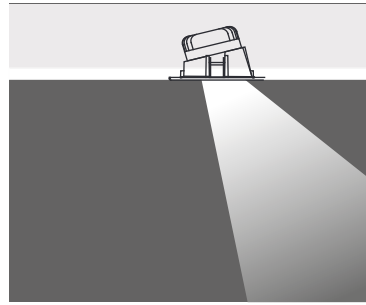


1 x 350 mA (11 W) LED or 1 x 500 mA (18 W) LED

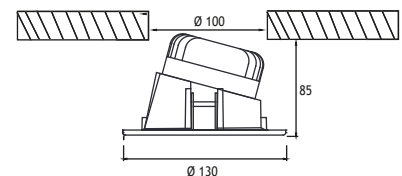
		Total Lighting Output		Code No	
		11W	18W	11W	18W
☀ Warm White	3000 K	696 lm	1224 lm	260202	260212
☾ Natural White	4000 K	835 lm	1469 lm	260203	260213

Height	10°		23°		38°	
	Beam Diameter	Area	Beam Diameter	Area	Beam Diameter	Area
2m	Ø 0,35m 0,01m ²	13759 lx	Ø 0,81m 0,52m ²	2705 lx	Ø 1,38m 1,49m ²	989 lx
4m	Ø 0,70m 0,38m ²	3440 lx	Ø 1,63m 2,08m ²	676 lx	Ø 2,76m 5,97m ²	247 lx
6m	Ø 1,05m 0,87m ²	1529 lx	Ø 2,44m 4,68m ²	301 lx	Ø 4,13m 13,40m ²	110 lx
8m	Ø 1,40m 1,54m ²	861 lx	Ø 3,26m 8,33m ²	169 lx	Ø 5,51m 23,84m ²	62 lx
10m	Ø 1,75m 2,40m ²	550 lx	Ø 4,07m 13,02m ²	108 lx	Ø 6,89m 37,29m ²	40 lx

Asymmetrical



- Led** : COB CREE LED (350-700mA)
- Reflector** : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector
- Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
- Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
- Cable** : 0,5 m 2x0,75 mm H03 VV-F



1 x 350 mA (11 W) LED or 1 x 500 mA (18 W) LED

		Total Lighting Output		Code No	
		11W	18W	11W	18W
☀ Warm White	3000 K	696 lm	1224 lm	260232	260242
☾ Natural White	4000 K	835 lm	1469 lm	260233	260243

Height	10°		23°		38°	
	Beam Diameter	Area	Beam Diameter	Area	Beam Diameter	Area
2m	Ø 0,35m 0,01m ²	13759 lx	Ø 0,81m 0,52m ²	2705 lx	Ø 1,38m 1,49m ²	989 lx
4m	Ø 0,70m 0,38m ²	3440 lx	Ø 1,63m 2,08m ²	676 lx	Ø 2,76m 5,97m ²	247 lx
6m	Ø 1,05m 0,87m ²	1529 lx	Ø 2,44m 4,68m ²	301 lx	Ø 4,13m 13,40m ²	110 lx
8m	Ø 1,40m 1,54m ²	861 lx	Ø 3,26m 8,33m ²	169 lx	Ø 5,51m 23,84m ²	62 lx
10m	Ø 1,75m 2,40m ²	550 lx	Ø 4,07m 13,02m ²	108 lx	Ø 6,89m 37,29m ²	40 lx



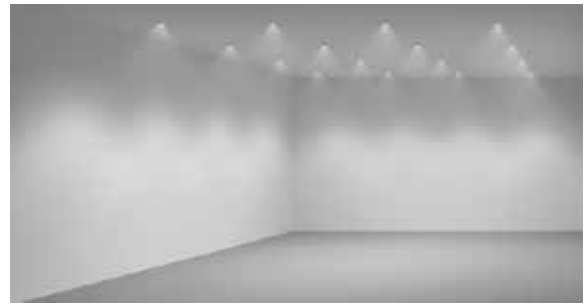
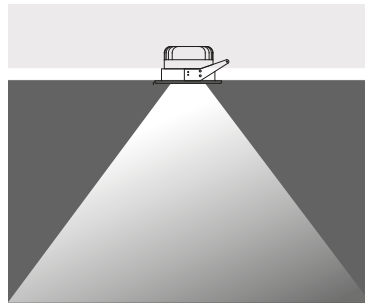
DECATHLON 3 TIR LENS LED DOWNLIGHT

Class II IP65 IK10

Available in any of these RAL colors

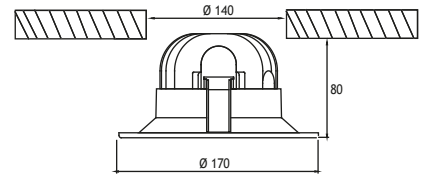
9016	9005	7016	7004	1015
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Symmetrical



1 x 350mA (11 W) or 1 x 700mA (18 W)

- Led : COB LED (350-700mA)
- Lens : 10°, 20°, 30° Mirror TIR Lens
- Diffuser : Clear Glass 8 mm (Frosted Glass on request)
- Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs : Stainless Steel for mounting in ceilings of 1-25 mm
- Cable : 0,5 m 2x0,75 mm H03 VV-F

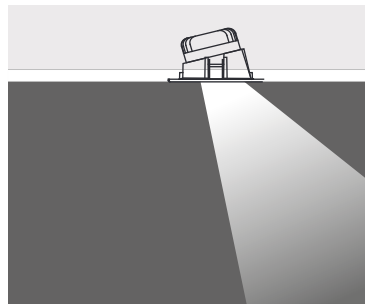


POWERLED

	Total Lighting Output	Code No	
		11W	18W
☀ Warm White 3000 K	655 lm	266001	266021
☾ Natural White 4000 K	786 lm	266003	266023

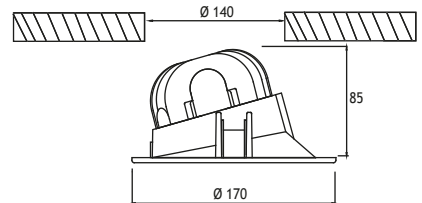
	10°	20°	30°
2m	Ø 0,35m 0,10m ²	Ø 0,71m 0,39m ²	Ø 1,07m 0,90m ²
4m	Ø 0,70m 0,38m ²	Ø 1,41m 1,56m ²	Ø 2,14m 3,61m ²
6m	Ø 1,05m 0,87m ²	Ø 2,12m 3,52m ²	Ø 3,22m 8,13m ²
8m	Ø 1,40m 1,54m ²	Ø 2,82m 6,26m ²	Ø 4,29m 14,45m ²
10m	Ø 1,75m 2,40m ²	Ø 3,53m 9,78m ²	Ø 5,36m 22,58m ²

Asymmetrical



1 x 350mA (11 W) or 1 x 700mA (18 W)

- Led : COB LED (350-700mA)
- Lens : 10°, 20°, 30° Mirror Tir Lens
- Diffuser : Clear Glass 8 mm (Frosted Glass on request)
- Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs : Stainless Steel for mounting in ceilings of 1-25 mm
- Cable : 0,5 m 2x0,75 mm H03 VV-F



POWERLED

	Total Lighting Output	Code No	
		11W	18W
☀ Warm White 3000 K	655 lm	266101	266121
☾ Natural White 4000 K	786 lm	266103	266123

	10°	20°	30°
2m	Ø 0,35m 0,10m ²	Ø 0,71m 0,39m ²	Ø 1,07m 0,90m ²
4m	Ø 0,70m 0,38m ²	Ø 1,41m 1,56m ²	Ø 2,14m 3,61m ²
6m	Ø 1,05m 0,87m ²	Ø 2,12m 3,52m ²	Ø 3,22m 8,13m ²
8m	Ø 1,40m 1,54m ²	Ø 2,82m 6,26m ²	Ø 4,29m 14,45m ²
10m	Ø 1,75m 2,40m ²	Ø 3,53m 9,78m ²	Ø 5,36m 22,58m ²



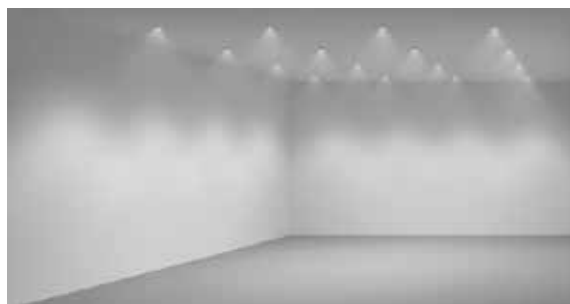
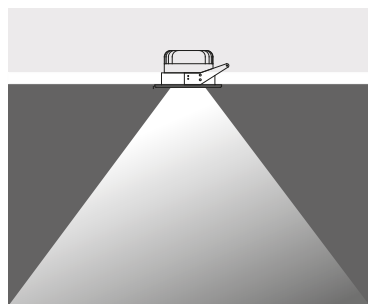
DECATHLON 4 TIR LENS LED DOWNLIGHT

Class II IP65 IK10

Available in any of these RAL colors

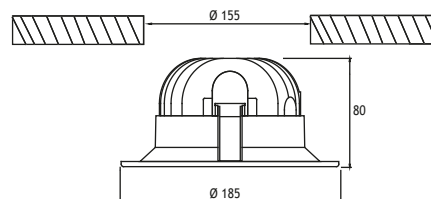
9016	9005	7016	7004	1015
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Symmetrical



1 x 350mA (25 W) or 1 x 700mA (32 W)

- Led : COB LED (350-700mA)
- Lens : 10°, 20°, 30° Mirror TIR Lens
- Diffuser : Clear Glass 8 mm (Frosted Glass on request)
- Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs : Stainless Steel for mounting in ceilings of 1-25 mm
- Cable : 0,5 m 2x0,75 mm H03 VV-F

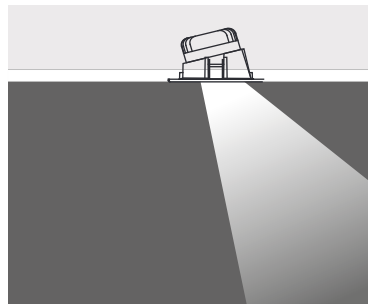


POWERLED

	Color	Temp	Total Lighting Output		Code No	
			25W	32W	25W	32W
☀	Warm White	3000 K	1645 lm	2134 lm	267001	267021
☾	Natural White	4000 K	1974 lm	2561 lm	267003	267023

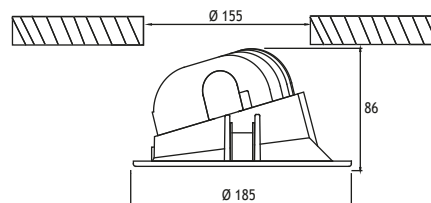
10°		20°		30°	
2m	Ø 0,35m 0,10m ²	22813lx	2m	Ø 0,71m 0,39m ²	6261 lx
4m	Ø 0,70m 0,38m ²	5703 lx	4m	Ø 1,41m 1,56m ²	1565lx
6m	Ø 1,05m 0,87m ²	2535 lx	6m	Ø 2,12m 3,52m ²	696 lx
8m	Ø 1,40m 1,54m ²	1426 lx	8m	Ø 2,82m 6,26m ²	391 lx
10m	Ø 1,75m 2,40m ²	913 lx	10m	Ø 3,53m 9,78m ²	250 lx
2m	Ø 0,90m 1,49m ²	2953lx	4m	Ø 3,61m 5,97m ²	738 lx
6m	Ø 8,13m 13,40m ²	328 lx	8m	Ø 14,45m 23,84m ²	185 lx
10m	Ø 5,36m 22,58m ²	118 lx			

Asymmetrical



1 x 350mA (25 W) or 1 x 700mA (32 W)

- Led : COB LED (350-700mA)
- Lens : 10°, 20°, 30° Mirror Tir Lens
- Diffuser : Clear Glass 8 mm (Frosted Glass on request)
- Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs : Stainless Steel for mounting in ceilings of 1-25 mm
- Cable : 0,5 m 2x0,75 mm H03 VV-F



POWERLED

	Color	Temp	Total Lighting Output		Code No	
			25W	32W	25W	32W
☀	Warm White	3000 K	1645 lm	2134 lm	267101	267121
☾	Natural White	4000 K	1974 lm	2561 lm	267103	267123

10°		20°		30°	
2m	Ø 0,35m 0,10m ²	22813lx	2m	Ø 0,71m 0,39m ²	6261 lx
4m	Ø 0,70m 0,38m ²	5703 lx	4m	Ø 1,41m 1,56m ²	1565lx
6m	Ø 1,05m 0,87m ²	2535 lx	6m	Ø 2,12m 3,52m ²	696 lx
8m	Ø 1,40m 1,54m ²	1426 lx	8m	Ø 2,82m 6,26m ²	391 lx
10m	Ø 1,75m 2,40m ²	913 lx	10m	Ø 3,53m 9,78m ²	250 lx
2m	Ø 0,90m 1,49m ²	2953lx	4m	Ø 3,61m 5,97m ²	738 lx
6m	Ø 8,13m 13,40m ²	328 lx	8m	Ø 14,45m 23,84m ²	185 lx
10m	Ø 5,36m 22,58m ²	118 lx			



TRIATHLON

LED DOWNLIGHT

Class II IP55 IK08

The Triathlon LED Downlight is specially designed to provide highest energy efficiency in general lighting applications. Using latest LED technology in combination with special plastic moulding and paint application allows for around 90lm/W lighting output. The highly efficient diffuser provides a completely homogenous light output. The simple installation method allows for easy installation into ceilings from 1-25mm thickness. One can choose from three compact sizes, 120mm, 150mm, and 175mm to achieve the desired lighting level.

Body

Die cast aluminium

Paint

Electrostatic powder paint RAL 9016 (available in other RAL colors)

Diffuser

High efficiency frosted acrylic diffuser with 90° beam angle

Springs

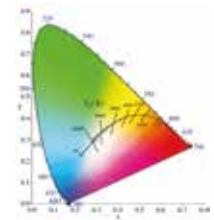
Steel for mounting in ceilings of 1-25mm thickness

Gear

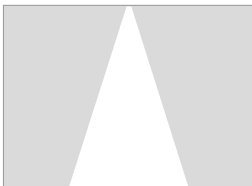
Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)

Cable

0.5m exiting from top of fixture



Downlight



Application

Wide beam symmetrical lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 4 standard paint colors, 3 white tones, 3 wattages, and 3 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

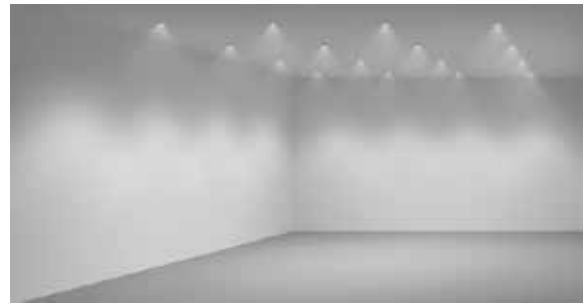
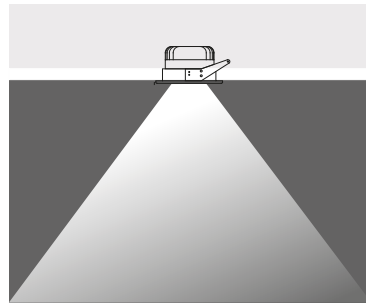
Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

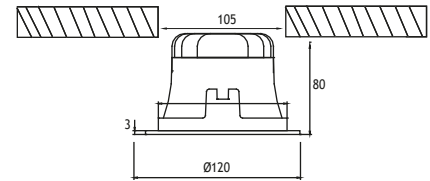
TRIATHLON 3

LED DOWNLIGHT Class II IP55 IK08

Available in any
of these RAL colors



- Led** : 20 x Osram SMD LEDs; over 110lm/W
- Reflector** : 90°
- Diffuser** : High efficiency frosted acrylic diffuser with 90° beam angle
- Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
- Cable** : 0,5 m 2x0,75 mm H03 VV-F



6W - 350mA		Total Lighting Output	Code No
☀ Warm White	2700 K	640 lm	268301
☾ Natural White	3000 K	640 lm	268302

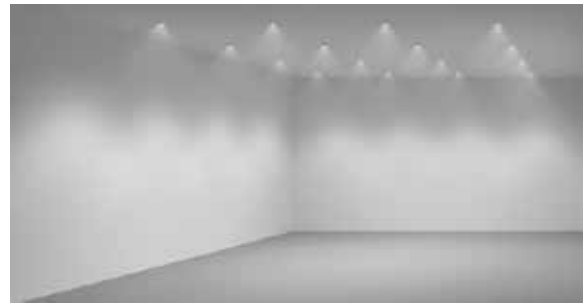
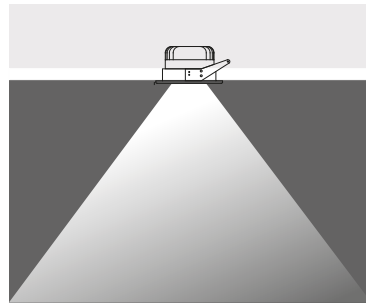
8W - 500mA		Total Lighting Output	Code No
☀ Warm White	2700 K	800 lm	268311
☾ Natural White	3000 K	800 lm	268312

10W - 700mA		Total Lighting Output	Code No
☀ Warm White	2700 K	950 lm	268321
☾ Natural White	3000 K	950 lm	268322

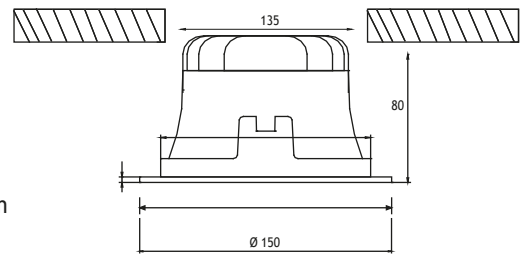
TRIATHLON 4

LED DOWNLIGHT Class II IP55 IK08

Available in any
of these RAL colors



- Led** : 40 x Osram SMD LEDs; over 110lm/W
- Reflector** : 90°
- Diffuser** : High efficiency frosted acrylic diffuser with 90° beam angle
- Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
- Cable** : 0,5 m 2x0,75 mm H03 VV-F

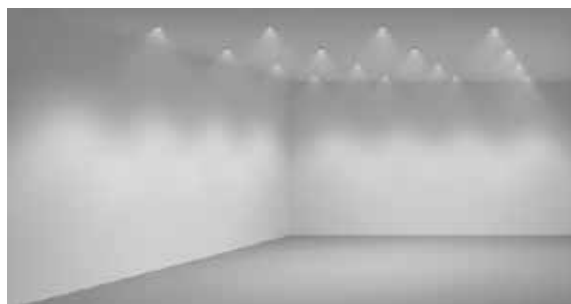
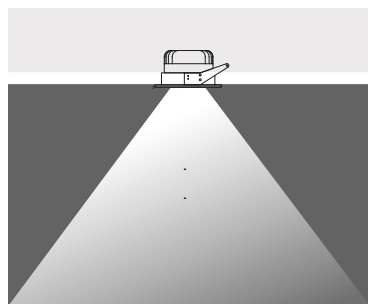
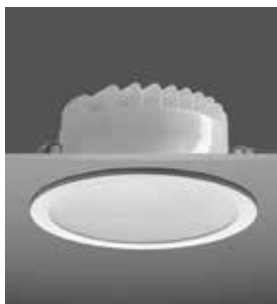


			Total Lighting Output	Code No
11W - 350mA				
☀ Warm White	2700 K	1280 lm	1280 lm	268401
☾ Natural White	3000 K	1280 lm	1280 lm	268402
16W - 500mA				
☀ Warm White	2700 K	1600 lm	1600 lm	268411
☾ Natural White	3000 K	1600 lm	1600 lm	268412
20W - 700mA				
☀ Warm White	2700 K	1900 lm	1900 lm	268421
☾ Natural White	3000 K	1900 lm	1900 lm	268422

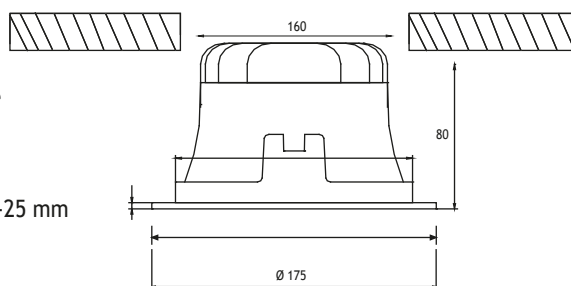
TRIATHLON 5

LED DOWNLIGHT Class II IP55 IK08

Available in any
of these RAL colors



- Led** : 60 x Osram SMD LEDs; over 110lm/W
- Reflector** : 90°
- Diffuser** : High efficiency frosted acrylic diffuser with 90° beam angle
- Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
- Cable** : 0,5 m 2x0,75 mm H03 VV-F



		Total Lighting Output	Code No
16W - 350mA			
☀ Warm White	2700 K	1900 lm	268501
☾ Natural White	3000 K	1900 lm	268502

24W - 500mA			
☀ Warm White	2700 K	2400 lm	268511
☾ Natural White	3000 K	2400 lm	268512

31W - 700mA			
☀ Warm White	2700 K	2850 lm	268521
☾ Natural White	3000 K	2850 lm	268522

40W - 1050mA Nichia LED			
☀ Warm White	3000 K	4000 lm	268531
☾ Natural White	4000 K	4000 lm	268532

TRIATHLON HALO

LED DOWNLIGHT

Class II IP55 IK08

The Triathlon LED Downlight is specially designed to provide highest energy efficiency in general lighting applications. Using latest LED technology in combination with special plastic moulding and paint application allows for around 90lm/W lighting output. The highly efficient diffuser provides a completely homogenous light output. The extended acrylic diffuser creates a halo effect on the ceiling, improving the light effect and reducing the glare. The simple installation method allows for easy installation into ceilings from 1-25mm thickness. One can choose from three compact sizes, 120mm, 150mm, and 175mm to achieve the desired lighting level.



Body

Die cast aluminium

Paint

Electrostatic powder paint RAL 9016 (available in other RAL colors)

Diffuser

High efficiency frosted acrylic diffuser with 64° beam angle

Springs

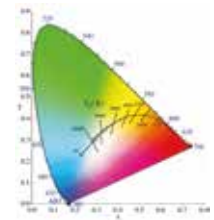
Steel for mounting in ceilings of 1-25mm thickness

Gear

Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)

Cable

0.5m exiting from top of fixture



Downlight



Application

Wide beam symmetrical lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 4 standard paint colors, 3 white tones, 3 wattages, and 3 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

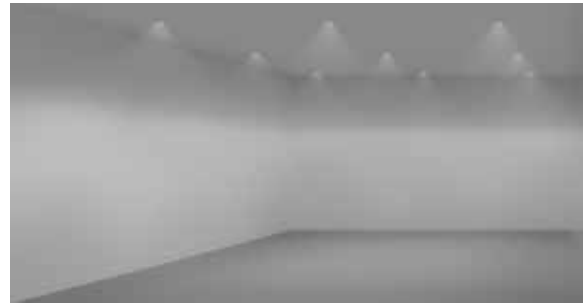
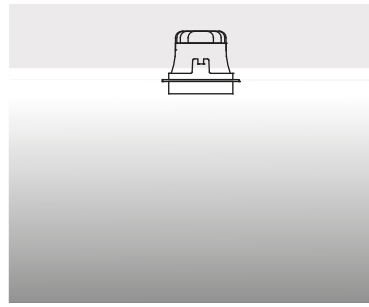
Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

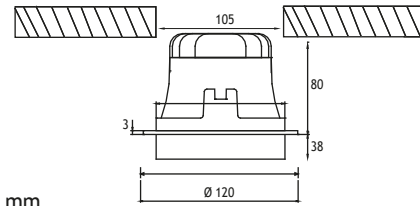
TRIATHLON HALO 3 LED DOWNLIGHT

Class II IP55 IK08

Available in any of these RAL colors



- Led** : 20 x Osram SMD LEDs; over 110lm/W
- Reflector** : 90°
- Diffuser** : High efficiency frosted acrylic diffuser with 64° beam angle
- Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
- Cable** : 0,5 m 2x0,75 mm H03 VV-F



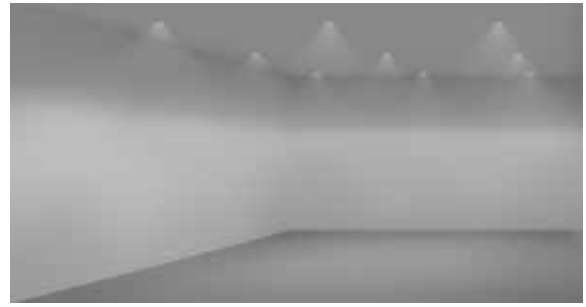
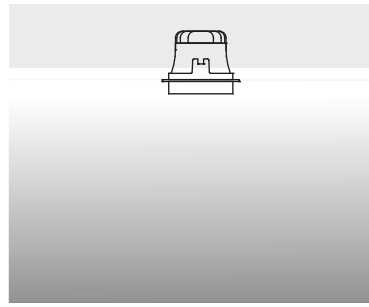
		Total Lighting Output	Code No
6W - 350mA			
☀ Warm White	2700 K	640 lm	269301
☾ Natural White	3000 K	640 lm	269302
8W - 500mA			
☀ Warm White	2700 K	800 lm	269311
☾ Natural White	3000 K	800 lm	269312
10W - 700mA			
☀ Warm White	2700 K	950 lm	269321
☾ Natural White	3000 K	950 lm	269322



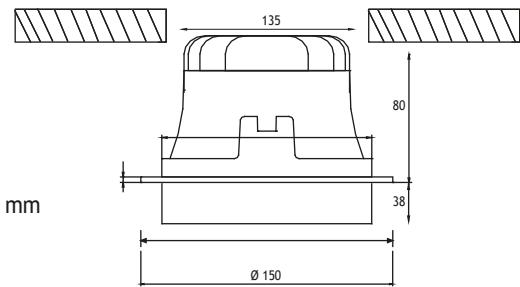
TRIATHLON HALO 4 LED DOWNLIGHT

Class II IP55 IK08

Available in any of these RAL colors



- Led** : 40 x Osram SMD LEDs; over 110lm/W
- Reflector** : 90°
- Diffuser** : High efficiency frosted acrylic diffuser with 64° beam angle
- Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
- Cable** : 0,5 m 2x0,75 mm H03 VV-F

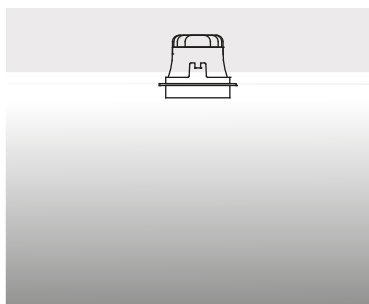


			Total Lighting Output	Code No
11W - 350mA				
☀ Warm White	2700 K	1280 lm	1280 lm	269401
☾ Natural White	3000 K	1280 lm	1280 lm	269402
16W - 500mA				
☀ Warm White	2700 K	1600 lm	1600 lm	269411
☾ Natural White	3000 K	1600 lm	1600 lm	269412
20W - 700mA				
☀ Warm White	2700 K	1900 lm	1900 lm	269421
☾ Natural White	3000 K	1900 lm	1900 lm	269422

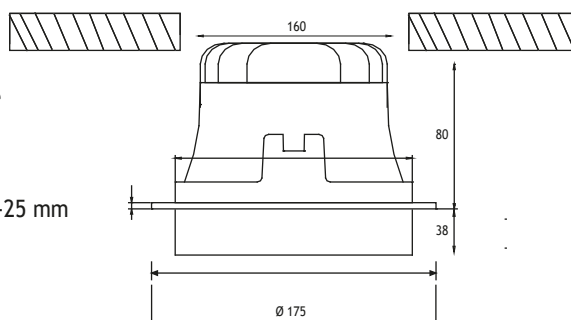
TRIATHLON HALO 5 LED DOWNLIGHT

Class II IP55 IK08

Available in any of these RAL colors



- Led** : 60 x Osram SMD LEDs; over 110lm/W
- Reflector** : 90°
- Diffuser** : High efficiency frosted acrylic diffuser with 64° beam angle
- Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
- Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
- Cable** : 0,5 m 2x0,75 mm H03 VV-F

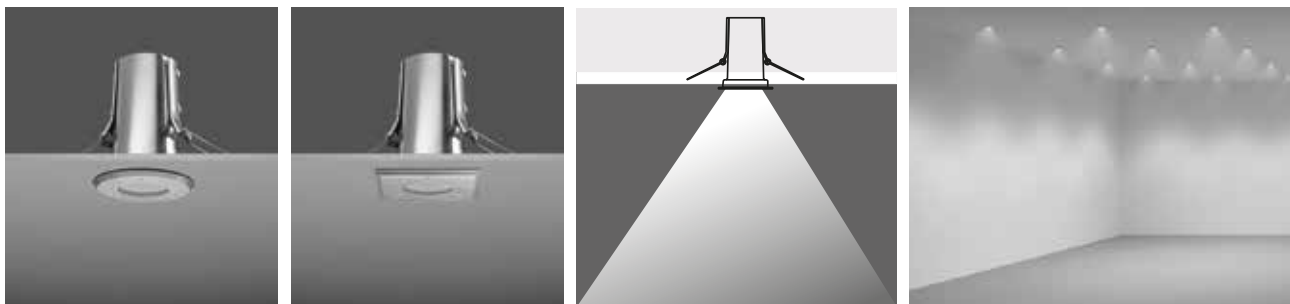


			Total Lighting Output	Code No
16W - 350mA				
☀ Warm White	2700 K	1900 lm	1900 lm	269501
☾ Natural White	3000 K	1900 lm	1900 lm	269502
24W - 500mA				
☀ Warm White	2700 K	2400 lm	2400 lm	269511
☾ Natural White	3000 K	2400 lm	2400 lm	269512
31W - 700mA				
☀ Warm White	2700 K	2850 lm	2850 lm	269521
☾ Natural White	3000 K	2850 lm	2850 lm	269522

BELKIS 1 RECESSED FIXTURES

Downlights (For False Ceiling)

Class III IP67 IK10



Class III

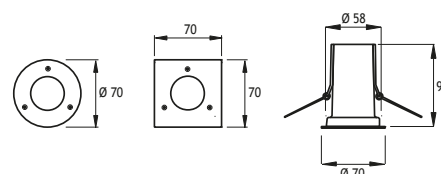
Lampholder : Gu4

Reflector : -

Diffuser : 6 mm Tempered Glass

Transformer is not included.

Remote transformer should be used.



	Code No	
HALOGEN 12V 20W (10° or 38°)	Round	Square
	321101	321201

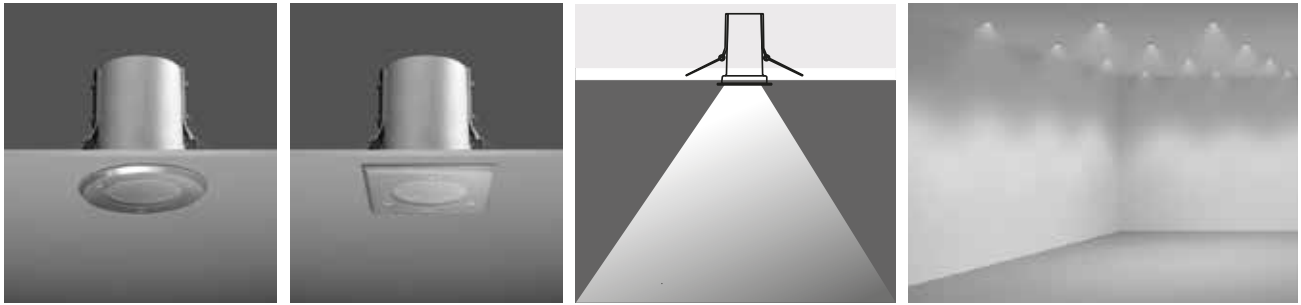


BELKIS 2 RECESSED FIXTURES

Downlights (For False Ceiling)

IP67 IK10

BELKIS 2



Class III

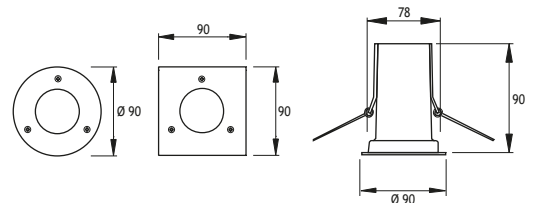
Lampholder : Gu 5.3

Reflector : -

Diffuser : 6 mm Tempered Glass

Transformer is not included.

Remote transformer should be used.



	Code No
HALOGEN 12V 35W / 50W	Round Square
(10° or 38°)	323101 323201

Class I

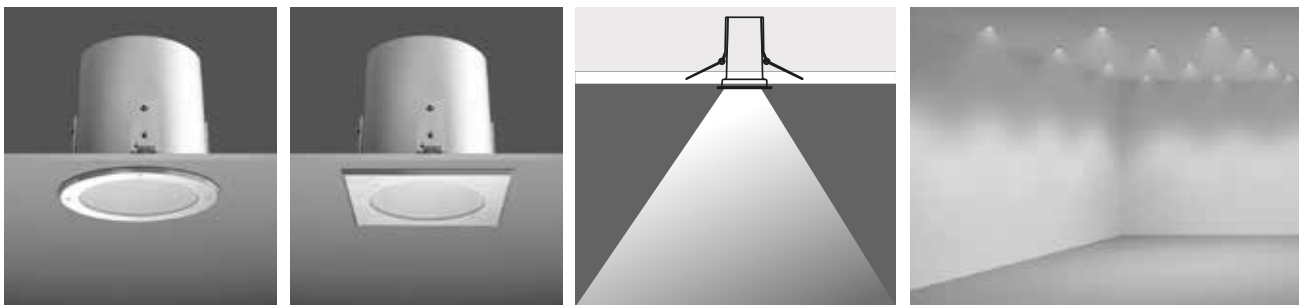
Lampholder : Gu 10

Reflector : -

Diffuser : 6 mm Tempered Glass

	Code No
HALOGEN 240V 35W / 50W	Round Square
(25° or 50°)	323121 323221

BELKIS 5



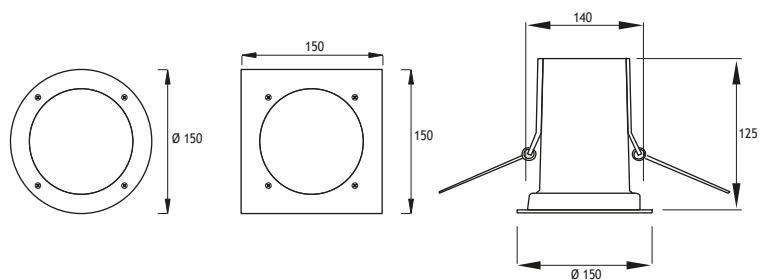
Class I

Lampholder : E27 Fixed

Reflector : -

Diffuser : 8 mm Glass

	Code No
HALOGEN 240V PAR 30 / 75W	Round Square
(10° or 30°)	325111 325211

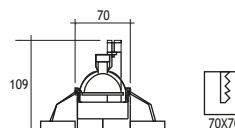
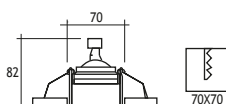
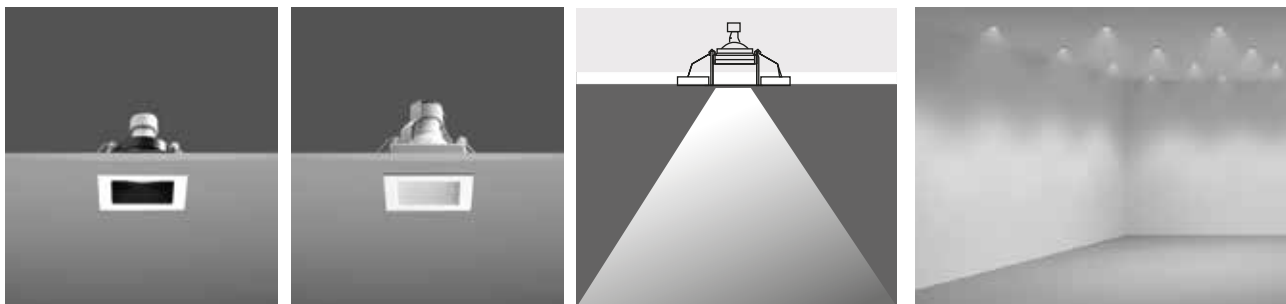




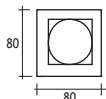
DYO RECESSED CEILING FIXTURES

DYO 70 16 S

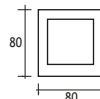
DYO 70 18 S



DYO 70 16 S
(WITHOUT GLASS)



DYO 70 18 S
(WITH GLASS)



Class III

Lampholder : Gu 5.3

Reflector : -

Diffuser : -

Transformer is not included.

Remote transformer should be used.

HALOGEN 12V 50W

Code No
133101

Class III

Lampholder : Gu 5.3

Reflector : -

Diffuser : Frosted Glass

Transformer is not included.

Remote transformer should be used.

HALOGEN 12V 50W

Code No
133201

Class II

Lampholder : Gu10

Reflector : -

Diffuser : -

HALOGEN 240V 50W

Code No
133111

Class II

Lampholder : Gu10

Reflector : -

Diffuser : Frosted Glass

HALOGEN 240V 50W

Code No
133211

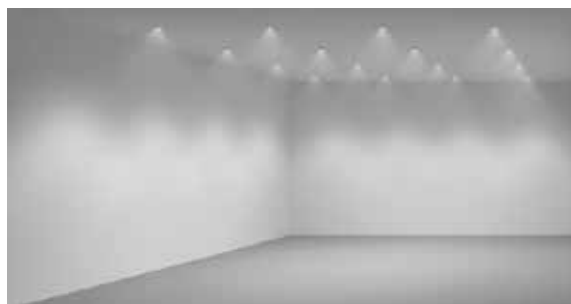
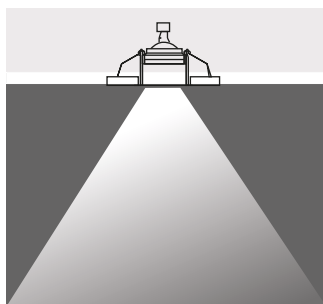
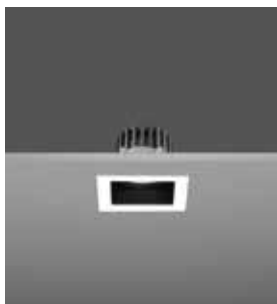


DYO RECESSED CEILING LED FIXTURES IP20

Available in any of these RAL colors



DYO 70 16 Single



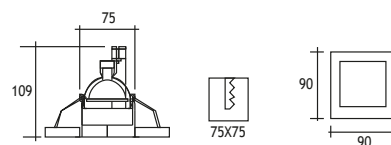
Adjustable

6W - 180mA

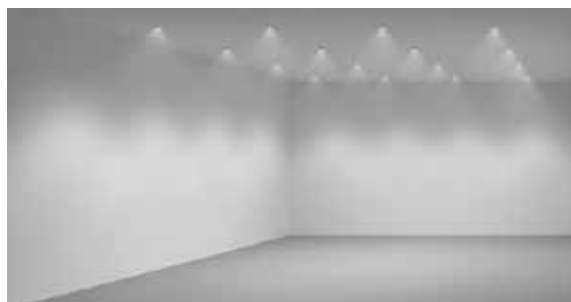
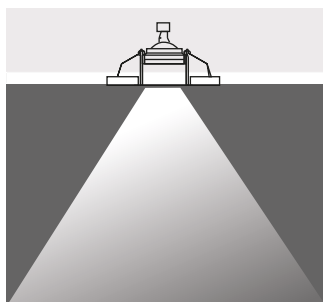
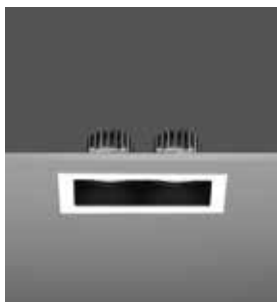
		Total Lighting Output	Code No
☀ Warm White	3000 K	460 lm	133301
☀ Natural White	4000 K	510 lm	133302
☀ Cool White	6000 K	545 lm	133303

8W - 250mA

☀ Warm White	3000 K	520 lm	133311
☀ Natural White	4000 K	560 lm	133312
☀ Cool White	6000 K	644 lm	133313



DYO 70 16 TWIN



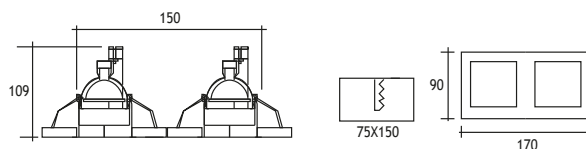
Adjustable

2x6W - 180mA

		Total Lighting Output	Code No
☀ Warm White	3000 K	920 lm	133401
☀ Natural White	4000 K	1020 lm	133402
☀ Cool White	6000 K	1090 lm	133403

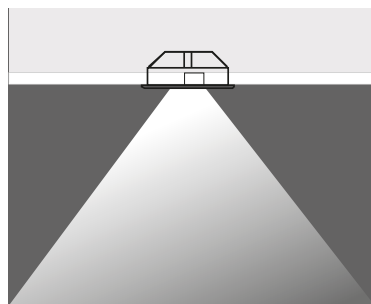
2x8W - 250mA

☀ Warm White	3000 K	1040 lm	133411
☀ Natural White	4000 K	1120 lm	133412
☀ Cool White	6000 K	1288 lm	133413



CUNDA / PATARA RECESSED INDOOR CRADLE FIXTURES

CUNDA ROUND



Outer Frame
Steel
Cradle Frame
Die cast aluminium
Paint
Electrostatic powder

Class III

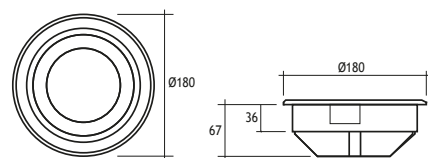
Lampholder : G53

Reflector : -

Diffuser : -

HALOGEN RJ111 12V 50W

Code No
419101



Class I

Lampholder : E27

Reflector : -

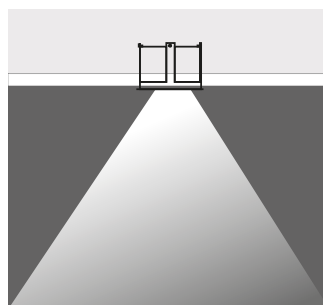
Diffuser : -

HALOGEN 240V PAR 30 75W

Code No
419111

PATARA SINGLE

PATARA TWIN



Class III

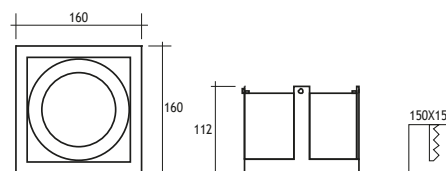
Lampholder : G53

Reflector : -

Diffuser : -

2 x HALOGEN RJ111 12V 50W

Code No
Single Twin
420101 420201



Class I

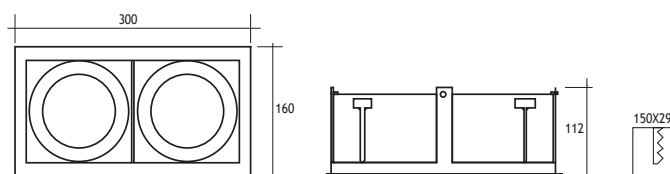
Lampholder : E27

Reflector : -

Diffuser : -

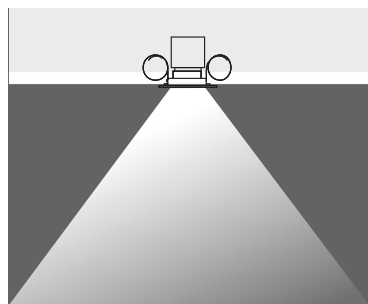
2 x HALOGEN 240V PAR 30 75W

Code No
Single Twin
420111 420211



HALOGEN SPOT DOWNLIGHT

Available in any
of these RAL colors



Body

Aluminium

Frame

Steel

Holding Force

Magnetism, no screws
for easy assembly
and maintenance

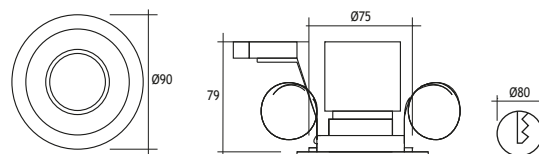
Spring

Spiral Inox

Automatically adjustable to the
thickness of false ceiling

Special Feature

Adjustable lamp angle



Class III

Lampholder : Gu 4

Reflector : -

Diffuser : -

Transformer is not included.

Remote transformer should be used.

	Code No
HALOGEN 12V 20W	113401

Class III

Lampholder : Gu 5.3

Reflector : -

Diffuser : -

Transformer is not included.

Remote transformer should be used.

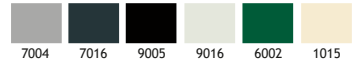
	Code No
HALOGEN 12V 50W	113411



SQUARE

SURFACE MOUNTED CEILING FIXTURES Class I IP65

Available in any
of these RAL colors



Body

Die cast aluminium

Paint

Electrostatic powder

Bracket

Die cast aluminium

Diffusers

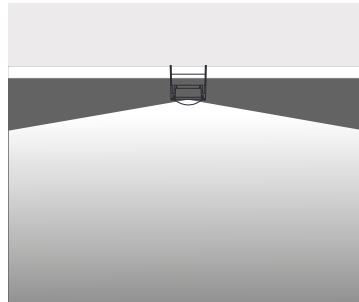
Tempered glass or acrylic

Gaskets

Silicone

Connection

IP connection box



Voltage : 240V A.C with integrated Driver
(24V AC or DC on request)

Diffuser : Acrylic

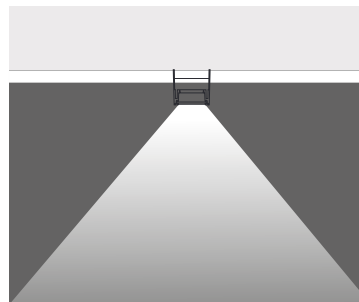
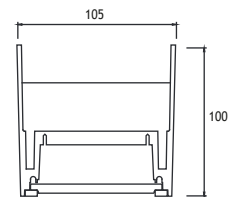
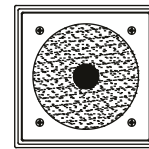
Cable : Potted 5 m 3x0,75 mm H03 VV-F

DOM LED

350 mA (11 W) LED

Total
Lighting
Output Code No

☾ Warm White	3000 K	925 lm	289001
☀ Natural White	4000 K	975 lm	289002



Voltage : 240V A.C with integrated Driver
(24V AC or DC on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

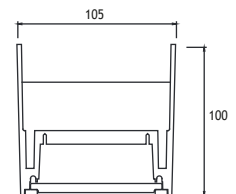
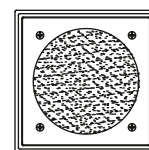
Cable : Potted 5 m 3x0,75 mm H03 VV-F

OSRAM SMD LED

350 mA (6 W) LED

Total
Lighting
Output Code No

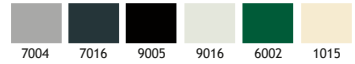
☾ Warm White	3000 K	640 lm	289011
☀ Natural White	4000 K	640 lm	289012



SQUARE

SURFACE MOUNTED CEILING FIXTURES Class I IP65

Available in any
of these RAL colors



Body

Die cast aluminium

Paint

Electrostatic powder

Bracket

Die cast aluminium

Diffusers

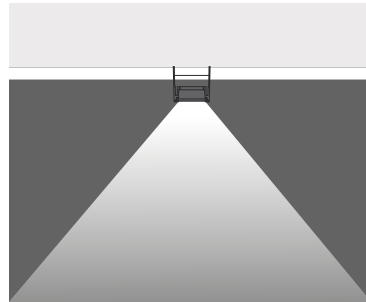
Tempered glass

Gaskets

Silicone

Connection

IP connection box

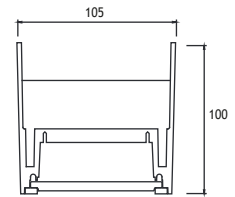
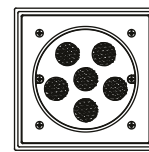


Voltage : 240V A.C with integrated Driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

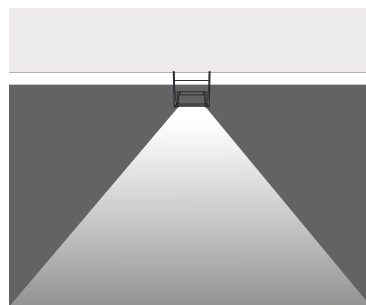
Cable : Potted 5 m 3x0,75 mm H03 VV-F



POWERLED

350 mA (6 W) LED

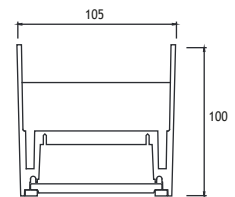
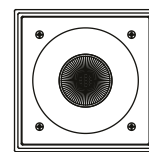
		Total Lighting Output	Code No
☺ Warm White	3000 K	510 lm	289021
☼ Natural White	4000 K	510 lm	289022
☾ Cool White	6000 K	612 lm	289023



Voltage : 240V A.C with integrated Driver
(24V AC or DC on request)

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 mm H03 VV-F



Multichip LED

350 mA (9 W)

		Total Lighting Output	Code No
☺ Warm White	3000 K	672 lm	289031
☼ Natural White	4000 K	756 lm	289032

MARATHON 2 GLASS

SURFACE MOUNTED CEILING FIXTURES Class I IP65

Glass available in these
pastel colors



Body

Die cast aluminium

Paint

Electrostatic powder

Bracket

Die cast aluminium

Diffusers

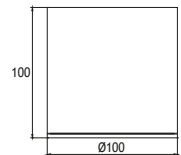
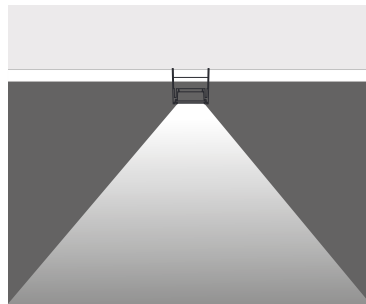
Tempered glass

Gaskets

Silicone

Connection

IP connection box



Led : COB LED (350-500mA)

Reflector : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector

Diffuser : Clear Glass 8 mm (Frosted Glass on request)

Gear : 240V Non-Dimmable Driver

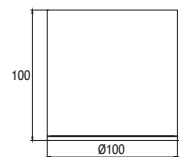
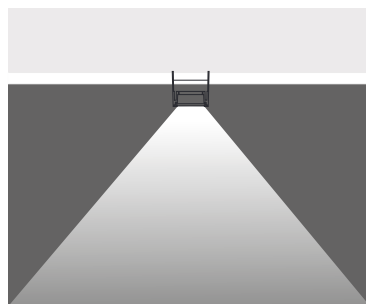
(1-10V Dimmable Driver & DALI Driver available on request)

Springs : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm

Cable : 0,5 m 2x0,75 mm H03 VV-F

1 x 350 mA (3 W) LED or 1 x 350 mA (11 W) LED

		Total Lighting Output		Code No	
		3W	11W	3W	11W
☀	Warm White 3000 K	210 lm	696 lm	260302	260331
☾	Natural White 4000 K	252 lm	835 lm	260303	260332



1 x 350 mA (3 W) LED or 1 x 350 mA (11 W) LED

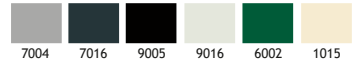
		Total Lighting Output		Code No	
		3W	11W	3W	11W
☀	Warm White 3000 K	210 lm	696 lm	260401	260431
☾	Natural White 4000 K	252 lm	835 lm	260403	260432

DECATHLON 3

SURFACE MOUNTED CEILING FIXTURES

Class I IP55

Available in any
of these RAL colors



Body

Die cast aluminium

Paint

Electrostatic powder

Bracket

Die cast aluminium

Diffusers

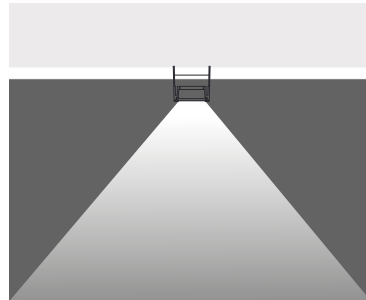
Tempered glass

Gaskets

Silicone

Connection

IP connection box



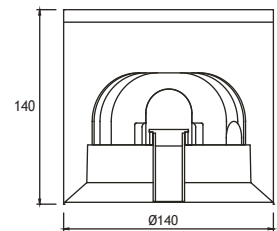
6 x 350 mA (6 W) LED

Voltage : 240V A.C with integrated Driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



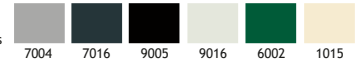
POWERLED		Total Lighting Output	Code No 6W
☀ Warm White	3000 K	510 lm	266201
☁ Natural White	4500 K	510 lm	266202
☀ Cool White	6000 K	612 lm	266203
🌊 Blue			266204
🔴 Red			266205
🟡 Amber			266206
🟢 Green			266207



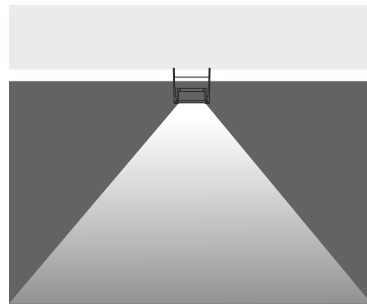
BELKIS 2 SURFACE MOUNTED CEILING FIXTURES

Class I IP65

Available in any of these RAL colors



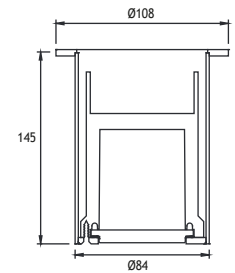
- Body**
- Die cast aluminium
- Paint**
- Electrostatic powder
- Bracket**
- Die cast aluminium
- Diffusers**
- Tempered glass
- Gaskets**
- Silicone
- Connection**
- IP connection box



- Voltage** : 240V A.C with integrated Driver (24V AC or DC on request)
- Lens** : 10°, 25°, 40°
- Diffuser** : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
- Cable** : Potted 5 m 3x0,75 H03 VV-F

3 x 350 mA (3 W) LED or 3 x 700 mA (9 W) LED

		Total Lighting Output		3W	9W
		3W	9W		
☀️ Warm White	3000 K	255 lm	675 lm	435001	435011
☀️ Natural White	4500 K	255 lm	675 lm	435002	435012
☀️ Cool White	6000 K	306 lm	810 lm	435003	435013
🌊 Blue				435004	435014
🔴 Red				435005	435015
🟡 Amber				435006	435016
🟢 Green				435007	435017





BELKIS SURFACE MOUNTED CEILING FIXTURES

Class I IP44

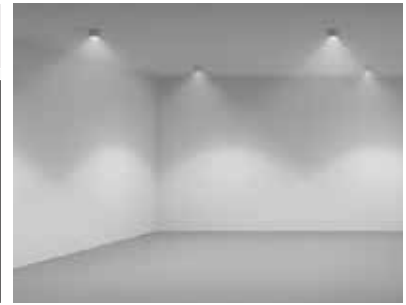
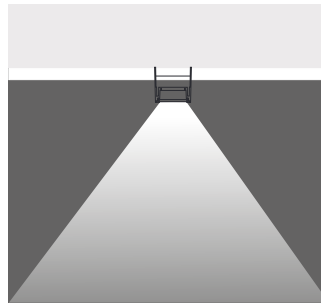
Available in any of these RAL colors

7004	7016	9005	9016	6002	1015

BELKIS 1



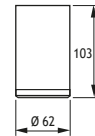
BELKIS 2



BELKIS 1

Lampholder : G9
 Reflector : 40°
 Diffuser : 4 mm Frosted Glass

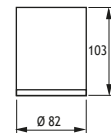
HALOGEN 240V 25W Code No 335101



BELKIS 2

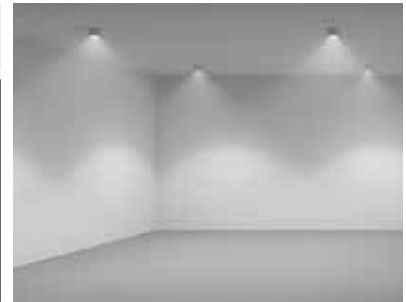
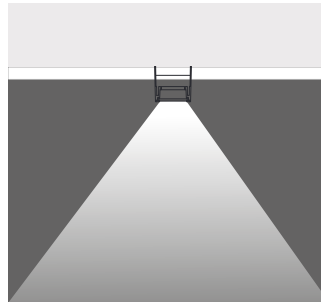
Lampholder : Gu10
 Reflector : -
 Diffuser : 4 mm Clear Glass

HALOGEN 240V 50W (25° or 50°) Code No 336111



BELKIS 5 HALOGEN

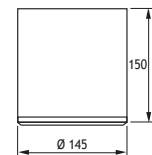
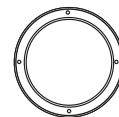
BELKIS 5 METAL HALIDE



BELKIS 5 HALOGEN

Lampholder : E27
 Reflector : -
 Diffuser : 4 mm Clear Glass

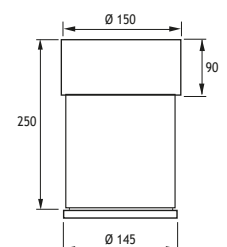
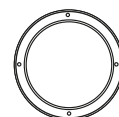
HALOGEN PAR 30 75W 30° Code No 337121



BELKIS 5 METAL HALIDE

Lampholder : G12
 Reflector : 30°, 42°
 Diffuser : Clear Glass

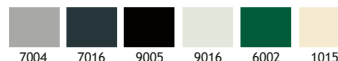
METAL HALIDE 35W/70W Code No 337131



BELKIS SURFACE MOUNTED CEILING LED FIXTURES

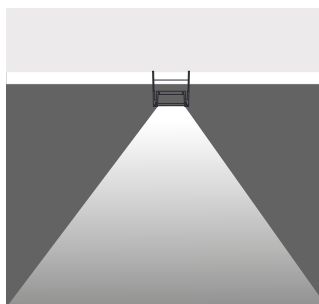
Class I IP44

Available in any of these RAL colors



BELKIS 1 LED

BELKIS 2 LED



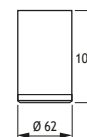
1 x 350 mA (1 W) LED or 3 x 350 mA (3 W) LED

Voltage : 240V A.C with integrated Driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)

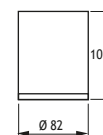
Cable : Potted 5 m 3x0,75 H03 VV-F



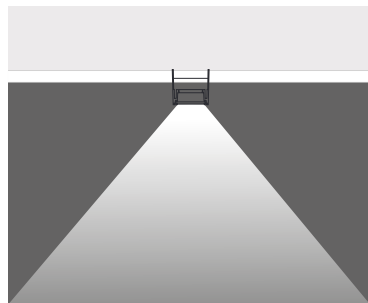
POWERLED

Total Lighting Output

		1W	3W	1W	3W
☀ Warm White	3000 K	85 lm	255 lm	427001	427101
☁ Natural White	4500 K	85 lm	255 lm	427002	427102
☀ Cool White	6000 K	102 lm	306 lm	427003	427103
🌊 Blue				427004	427104
🔴 Red				427005	427105
🟡 Amber				427006	427106
🟢 Green				427007	427107



BELKIS 5 LED



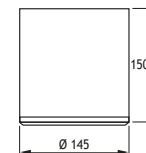
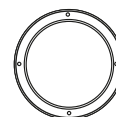
6 x 350 mA (6 W) LED or 9 x 350 mA (9 W) LED

Voltage : 240V A.C with integrated Driver (24V AC or DC on request)

Lens : 10°, 25°, 40°

Diffuser : Clear Glass with painted circumference 8 mm (Frosted Glass on request)

Cable : Potted 5 m 3x0,75 H03 VV-F



POWERLED

Total Lighting Output

		6W	9W	6W	9W
☀ Warm White	3000 K	510 lm	765 lm	427201	427211
☁ Natural White	4500 K	510 lm	765 lm	427202	427212
☀ Cool White	6000 K	612 lm	918 lm	427203	427213
🌊 Blue				427204	427214
🔴 Red				427205	427215
🟡 Amber				427206	427216
🟢 Green				427207	427217

BELKIS SURFACE MOUNTED CEILING FIXTURES

Class I IP44

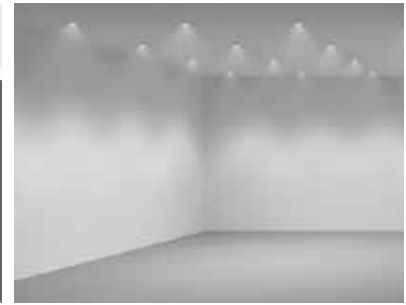
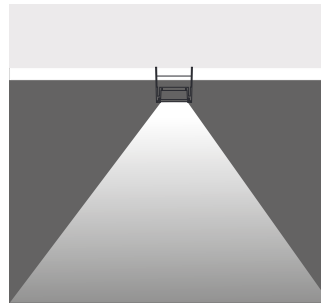
Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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BELKIS 1

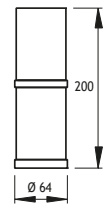


BELKIS 2



BELKIS 1

Lampholder : G24 q - 1
 Reflector : -
 Diffuser : Acrylic Pipe
 Transformer : Electronic

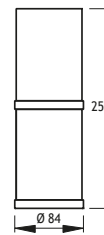


COMPACT FLUO. 13W

Code No
 293101

BELKIS 2

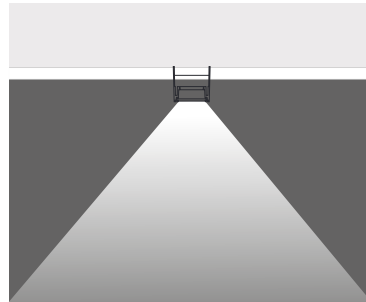
Lampholder : E27
 Reflector : -
 Diffuser : Acrylic Pipe



ELECTRONIC FLUO. DEL 23W

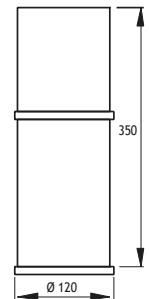
Code No
 293111

BELKIS 4



BELKIS 4

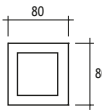
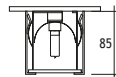
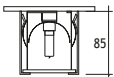
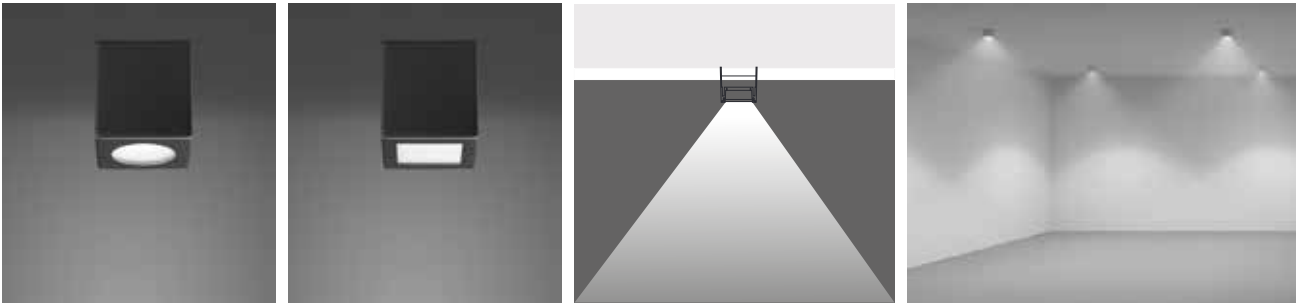
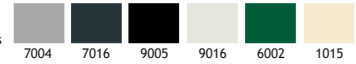
Lampholder : E27
 Reflector : -
 Diffuser : Acrylic Pipe



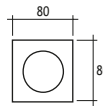
ELECTRONIC FLUO. DEL 23W

Code No
 293121

Available in any
of these RAL colors



**80 x 80
SQUARE**



**80 x 80
ROUND**

Lampholder : Gu 5.3
Reflector : Symmetrical
Diffuser : Clear Glass
Transformer is not included.
Remote transformer should be used.
Class III

HALOGEN 12V 50W Code No
360101

Lampholder : Gu 5.3
Reflector : Symmetrical
Diffuser : Clear Glass
Transformer is not included.
Remote transformer should be used.
Class III

HALOGEN 12V 50W Code No
360201

Lampholder : G9
Reflector : Symmetrical
Diffuser : Frosted Glass
Class I

HALOGEN 240V 25W Code No
360111

Lampholder : G9
Reflector : Symmetrical
Diffuser : Frosted Glass
Class I

HALOGEN 240V 25W Code No
360211

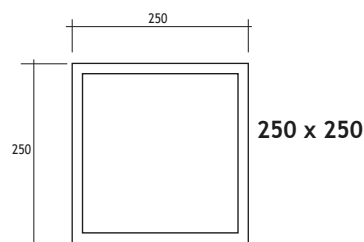
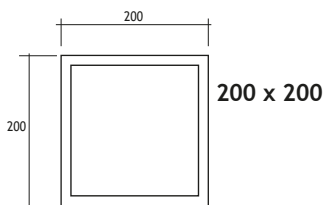
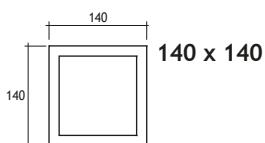
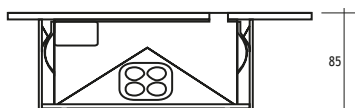
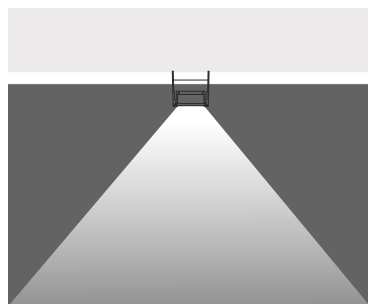
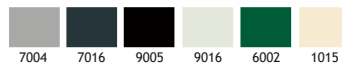
Lampholder : Gu10
Reflector : Symmetrical
Diffuser : Clear Glass
Class I

HALOGEN 240V 50W Code No
360121

Lampholder : Gu10
Reflector : Symmetrical
Diffuser : Clear Glass
Class I

HALOGEN 240V 50W Code No
360221

Available in any of these RAL colors



Lampholder : R7 s
Reflector : Symmetrical
Diffuser : Frosted Glass

HALOGEN LINEAR 60W Code No 363101

Lampholder : G24 d-2
Reflector : Symmetrical
Diffuser : Frosted Glass
Transformer : Included

2 x COMPACT FLUO. 18W Code No 379101

Lampholder : G24 d-3
Reflector : Symmetrical
Diffuser : Frosted Glass
Transformer : Included

2 x COMPACT FLUO. 26W Code No 380101

Lampholder : G9
Reflector : Symmetrical
Diffuser : Frosted Glass

HALOGEN 240V 40W Code No 363111

Lampholder : G24 d-1
Reflector : Asymmetrical
Diffuser : Frosted Glass
Transformer : Included

COMPACT FLUO. 10W Code No 363121

BELKIS RECESSED CEILING FIXTURES

Class I IP44

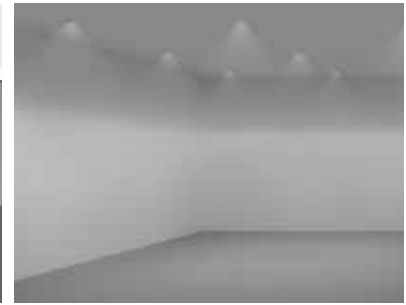
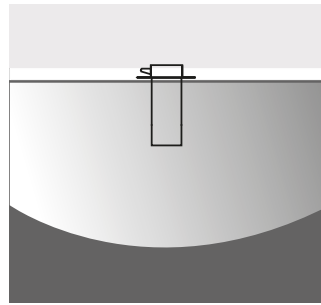
Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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BELKIS 1



BELKIS 2

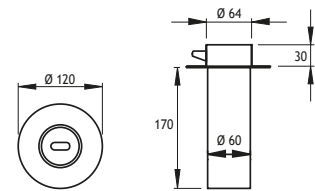


BELKIS 1

Lampholder : G23
 Reflector : -
 Diffuser : Acrylic Pipe

COMPACT FLUO. 9W

Code No
 296101

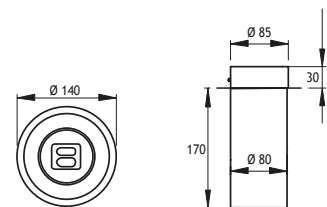


BELKIS 2

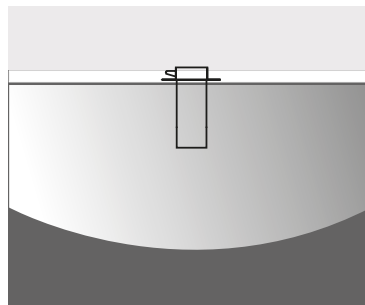
Lampholder : G24 d - 2
 Reflector : -
 Diffuser : Acrylic Pipe

COMPACT FLUO. 18W

Code No
 296111



BELKIS 5

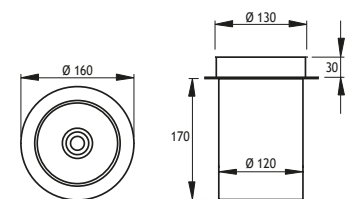


BELKIS 5

Lampholder : G24 d - 3
 Reflector : -
 Diffuser : Acrylic Pipe

COMPACT FLUO. 26W

Code No
 296121

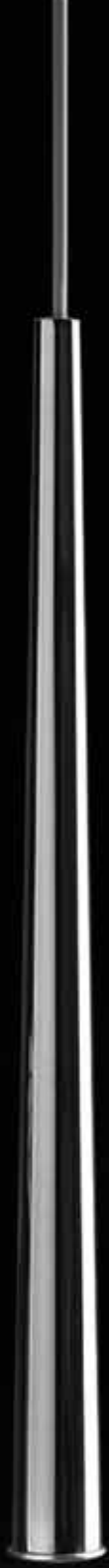



Lampholder : G12

Reflector : -
 Diffuser : Acrylic Pipe

METAL HALIDE 35W

Code No
 296131



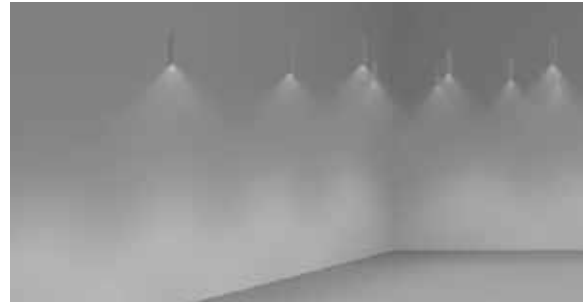
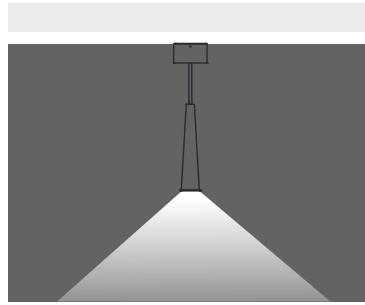
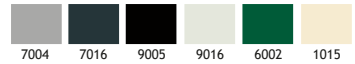
 Pendants



VUVUZELA

PENDANT IP20

Available in any
of these RAL colors



Body

Black, gold or silver plated
304 stainless steel

Diffusers

Tempered Glass

Gaskets

Silicone

Mounting

Aluminium

Screws

316L stainless steel

Lamps : 4 x 700 mA (10W) LED

Lens : 40°

Transformer mounting : Remote

Transformer type : Electronic

Gear : 240v non-dimmable driver (1-10v dimmable driver & request)

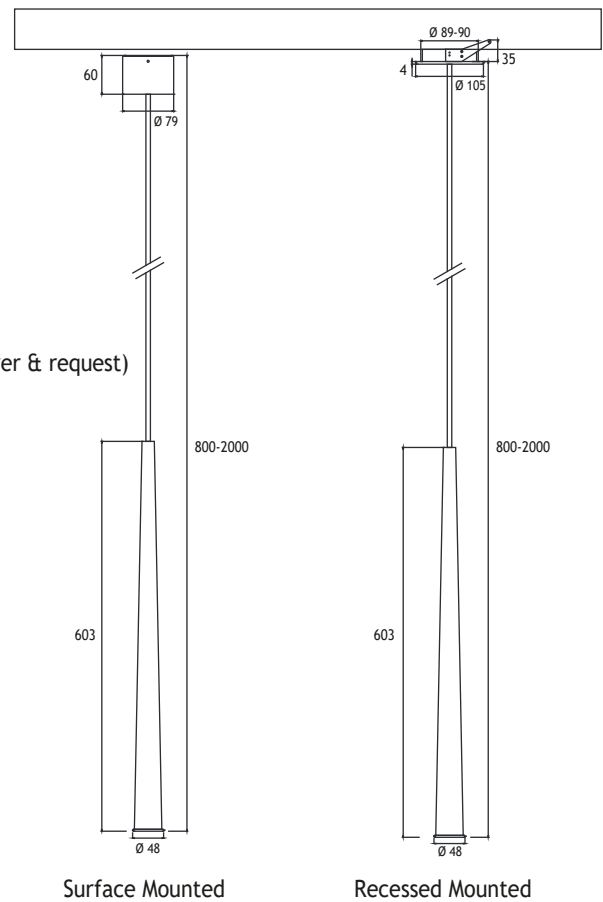
Cable : 0.5m 2x0.75mm h03 w-f

Recessed Mounted

Light Color	Color Temperature	Total Lighting Output	Code No
Warm White	3000 K	520 lm	117001

Surface Mounted

Light Color	Color Temperature	Total Lighting Output	Code No
Warm White	3000 K	520 lm	117011

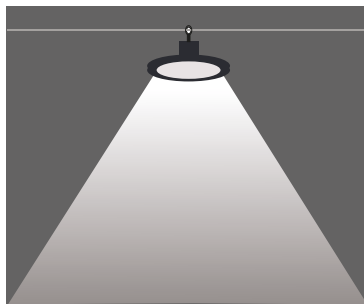




KATENER HIGH BAY LED FIXTURES IP65

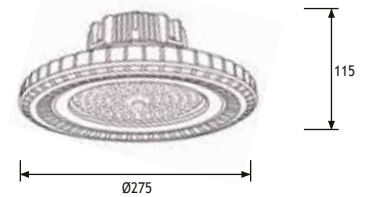
Body
Die cast aluminium
Cover
Steel
Gaskets
Silicone
Screws
316L stainless steel

Voltage : 240 V A.C with integrated driver
(24V AC or DC on request)
Lens : Optical Lens 60° / 90° / 120°
Cable : Potted 5 m 3x0,75 H03 VV-F



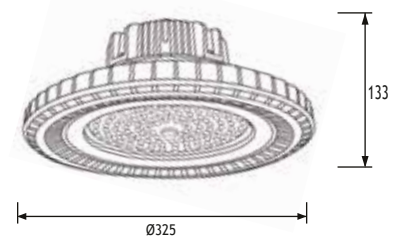
100W LED

		Total Lighting Output	Code No
☀ Warm White	4500 K	11000	436001
☾ Cool White	6000 K	12000	436002



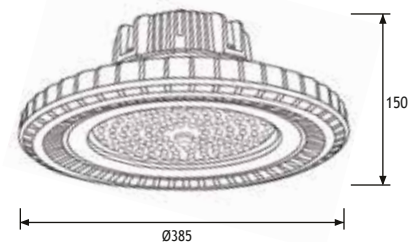
150W LED

		Total Lighting Output	Code No
☀ Warm White	4500 K	22000	436011
☾ Cool White	6000 K	24000	436012



200W LED

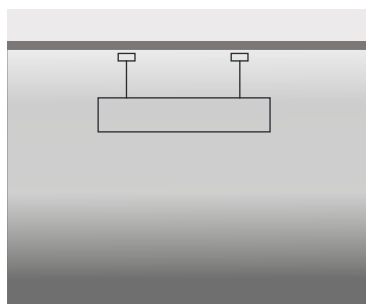
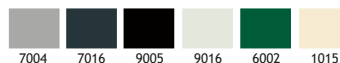
		Total Lighting Output	Code No
☀ Warm White	4500 K	22000	436021
☾ Cool White	6000 K	24000	436022





ELEA PENDANT FIXTURES

Available in any of these RAL colors



Body

Acrylic

Side Caps

Aluminium

Reflector

Aluminium

Wires

Adjustable Suspending Steel Wire

Diffusers

Acrylic

Gear

Electronic

Mounting Brackets

Aluminium

Voltage : 240 VAC Class II

Diffuser : Acrylic

Lamp : Fluo. G5

Gear : Integrated in tube

1 x 24W 85cm x Ø120mm

1 x 35W 155cm x Ø120mm

Code No

433101

433111

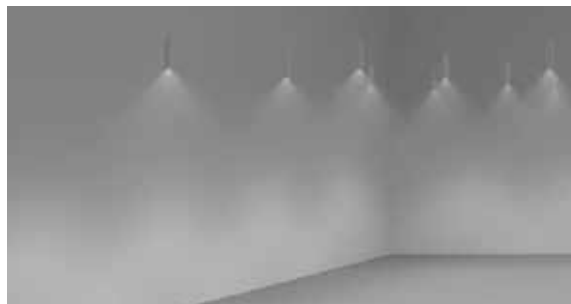
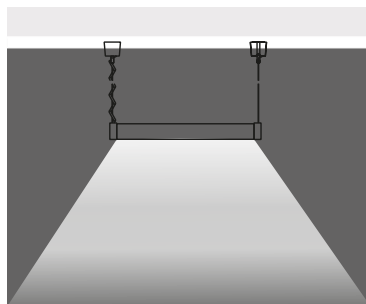
KARIA 2

PENDANT FIXTURES

Class I IP44 IK07

Available in any of these RAL colors

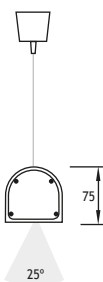
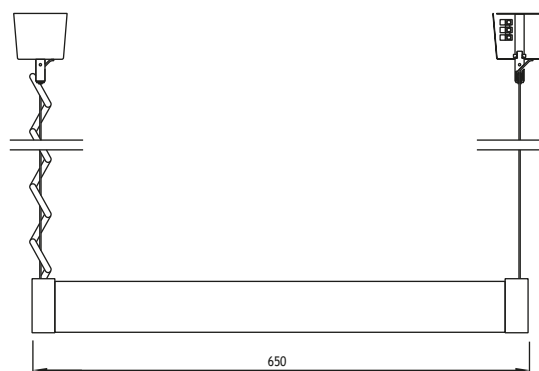
					
7004	7016	9005	9016	6002	1015



KARIA 2
Voltage : 240V AC with integrated ballast
Diffuser : 4 mm Clear Glass
Lampholder : G5
Ballast : Electronic

T5 14W / 24W

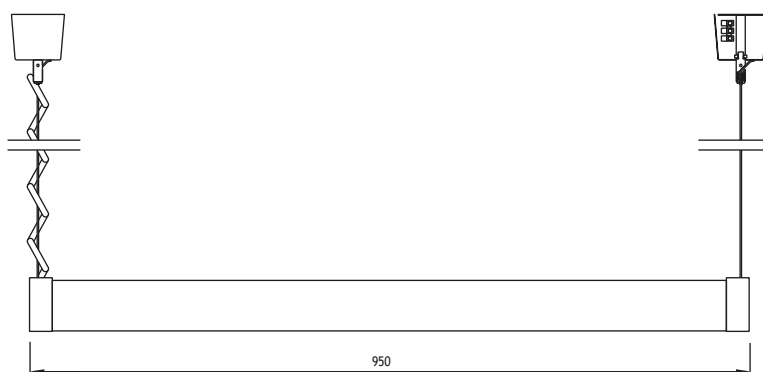
Code No
431401



KARIA 3
Voltage : 240V AC with integrated ballast
Diffuser : 4 mm Clear Glass
Lampholder : G5
Ballast : Electronic

T5 21W / 39W

Code No
431501





TROY PENDANT FIXTURES

Class I IP55

(with glass & gasket)

Head

Glass reinforced polyamide 6

Gear box inside

Reflector

Opaque ABS or translucent acrylic

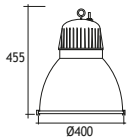


Opaque ABS
(standard silver colour)



Translucent Acrylic

With Ring



Please use 150... as the first three digits of the code number

Lampholder : E27

1 x ELEC. FL. DEL 23 23W

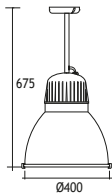
	Code No
Translucent	xxx101
Opaque	xxx501

Lampholder : G24 d-3

2 x COMPACT FLUOR. 26W

	Code No
Translucent	xxx151
Opaque	xxx551

With Suspending Rod And Bracket



Please use 151... as the first three digits of the code number

Lampholder : E27

2 x ELEC. FL. DEL 23 23W

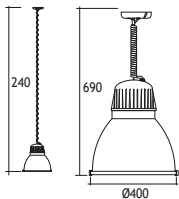
	Code No
Translucent	xxx111
Opaque	xxx511

Lampholder : G24 q-4

1 x COMPACT FLUOR. 42W

	Code No
Translucent	xxx181
Opaque	xxx581

With Adjustable Suspending Steel & Wire Spring Cable



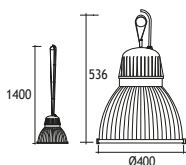
Please use 153... as the first three digits of the code number

Lampholder : G24 d-3

1 x COMPACT FLUOR. 26W

	Code No
Translucent	xxx141
Opaque	xxx541

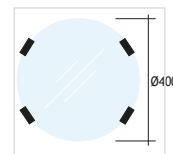
With Adjustable Suspending Steel Wire & Cable For Mounting On Pipe



Please use 154... as the first three digits of the code number

Accessory:

Tempered glass with silicone gasket & holding clips for IP 55 rating



Code No 953601



 Pole Fixtures

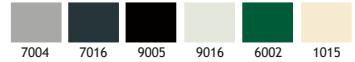


MILET ANI

SIDE ALUM LED POLE

Class I IP65 IK08

Available in any of these RAL colors



EMFA's ANI pole mounted series have been designed for high efficiency and ease of installation incorporating the latest in LED technology and control systems. The special lens directs the light flow precisely and makes the whole luminaire system efficient. This compact and essential design is made of a combination of aluminium profile and die cast aluminium.

Pole

Aluminium profile

Body

Die cast aluminium

Gaskets

Silicone

Diffusers

4 mm Tempered Glass

Screws

316L Stainless Steel

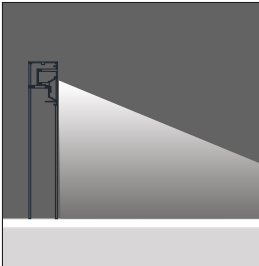
Glands

PG 11

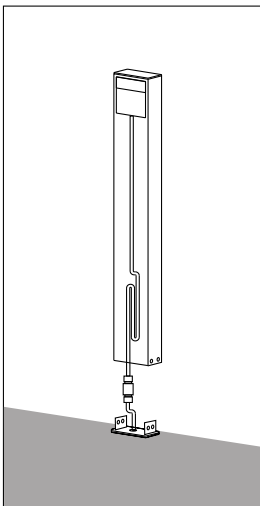
“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.

Asymmetrical



Anchor



Fuse Box



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

ANI 4 SIDE ALUM LED POLE

Class I IP65 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver (12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : >80
- L.O.R %** : %70



2000mm

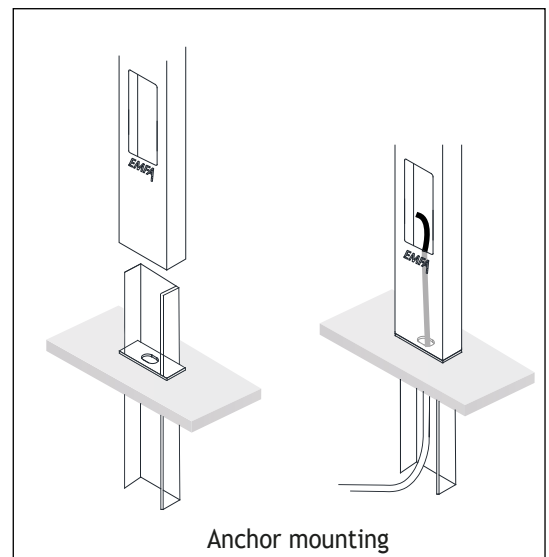
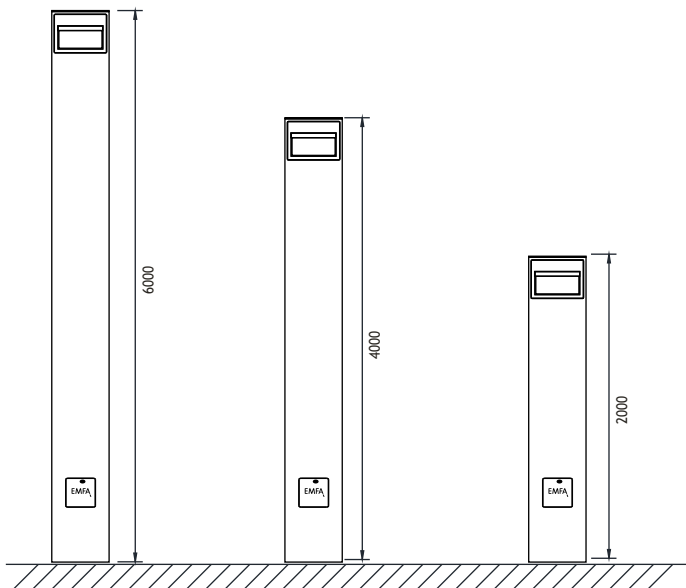
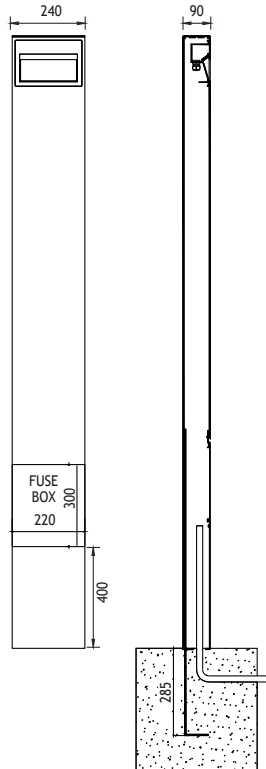
Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	460001	3000 K	1780 lm	2550 lm
48W	460011	3000 K	3080 lm	4300 lm
24W	460002	4000 K	2047 lm	2932 lm
48W	460012	4000 K	3542 lm	5060 lm

4000mm

Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	460101	3000 K	1780 lm	2550 lm
48W	460111	3000 K	3080 lm	4300 lm
24W	460102	4000 K	2047 lm	2932 lm
48W	460112	4000 K	3542 lm	5060 lm

6000mm

Power	Code No	Kelvin	Real Lumen Output	Nominal Lumen Output
24W	460201	3000 K	1780 lm	2550 lm
48W	460211	3000 K	3080 lm	4300 lm
24W	460202	4000 K	2047 lm	2932 lm
48W	460212	4000 K	3542 lm	5060 lm



ANI 4 L TYPE ALUM LED POLE

Class I IP65 IK08

Available in any of these RAL colors

					
7004	7016	9005	9016	6002	1015

EMFA's ANI pole mounted series have been designed for high efficiency and ease of installation incorporating the latest in LED technology and control systems. The special lens directs the light flow precisely and makes the whole luminaire system efficient. This compact and essential design is made of a combination of aluminium profile and die cast aluminium.

Pole

Aluminium profile

Body

Die cast aluminium

Gaskets

Silicone

Diffusers

4 mm Tempered Glass

Screws

316L Stainless Steel

Glands

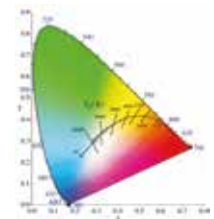
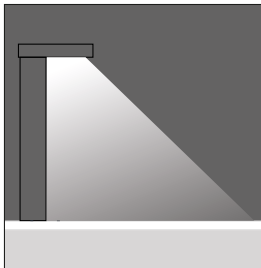
PG 11

“Customization” is EMFA’s standard

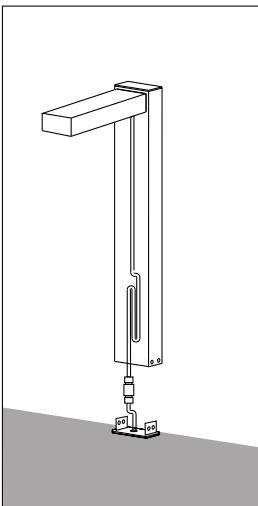
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 8 LED colors, and 2 wattages, and available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



Asymmetrical



Anchor



Fuse Box



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

ANI 4 L TYPE ALUM LED POLE

Class I IP65 IK08

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

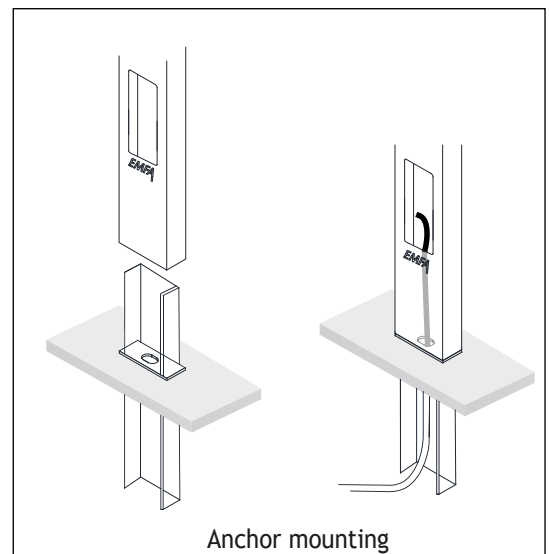
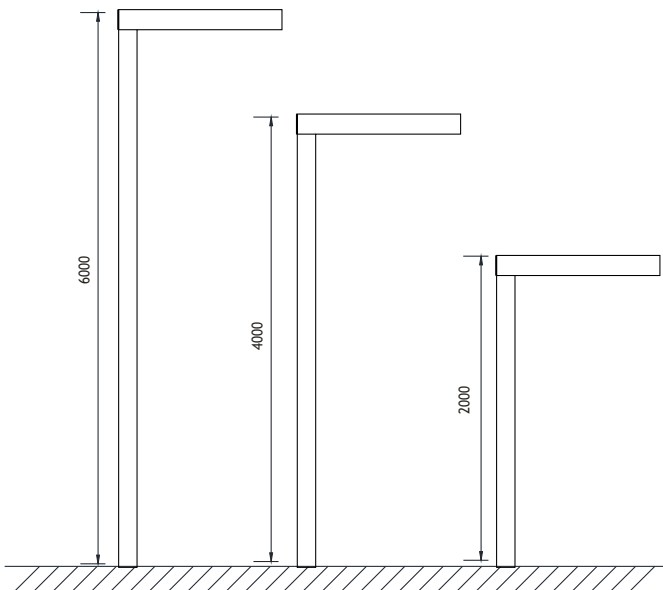
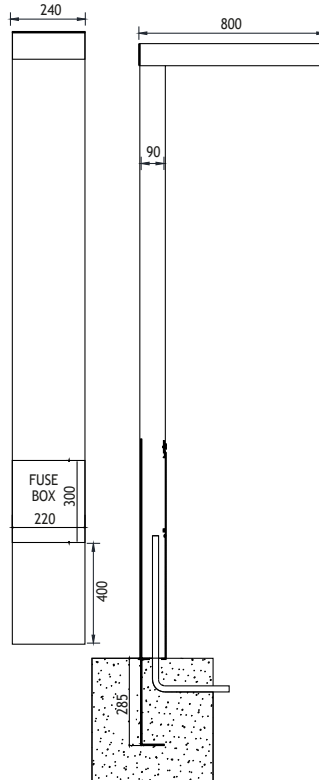
- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver (12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : >80
- L.O.R %** : %70



2000mm			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
24W	461001	3000 K	1780 lm	2550 lm
48W	461011	3000 K	3080 lm	4300 lm
24W	461002	4000 K	2047 lm	2932 lm
48W	461012	4000 K	3542 lm	5060 lm

4000mm			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
24W	461101	3000 K	1780 lm	2550 lm
48W	461111	3000 K	3080 lm	4300 lm
24W	461102	4000 K	2047 lm	2932 lm
48W	461112	4000 K	3542 lm	5060 lm

6000mm			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
24W	461201	3000 K	1780 lm	2550 lm
48W	461211	3000 K	3080 lm	4300 lm
24W	461202	4000 K	2047 lm	2932 lm
48W	461212	4000 K	3542 lm	5060 lm



ANI 4 T TYPE ALUM LED POLE

Class I IP65 IK08

Available in any of these RAL colors

					
7004	7016	9005	9016	6002	1015

EMFA's ANI pole mounted series have been designed for high efficiency and ease of installation incorporating the latest in LED technology and control systems. The special lens directs the light flow precisely and makes the whole luminaire system efficient. This compact and essential design is made of a combination of aluminium profile and die cast aluminium.

Pole

Aluminium profile

Body

Die cast aluminium

Gaskets

Silicone

Diffusers

4 mm Tempered Glass

Screws

316L Stainless Steel

Glands

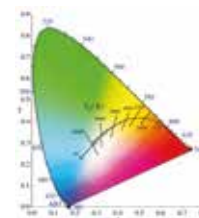
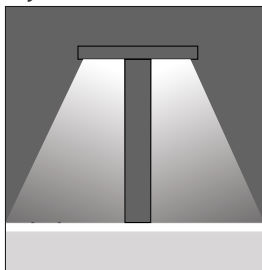
PG 11

“Customization” is EMFA’s standard

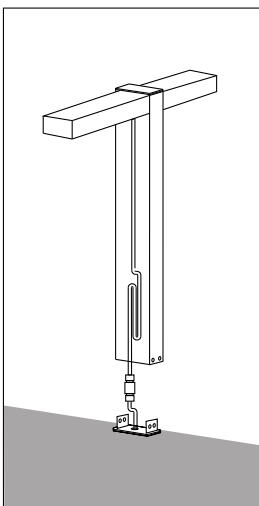
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Asymmetrical



Anchor



Fuse Box



LEDs

Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates on the CIE diagram in accordance with Energy Star. This ensures consistent supply of the same color temperature over time. As LEDs are constantly developing and becoming more efficient, lumen output given in this catalogue are current as of March 2020. At 2700K, 3000K, and 4000K LED lumen output per led is 110lm; at 6000K the lumen output per led is 125lm. Total Lighting Output as printed in this catalogue is the actual light output of the entire fixture. The minimum CRI of the LEDs used is 85 with a majority of products over 90.

ANI 4 T TYPE ALUM LED POLE

Class I IP65 IK08

Available in any of these RAL colors



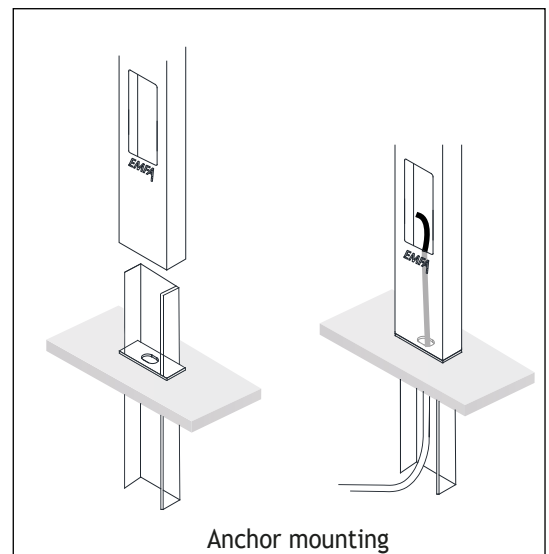
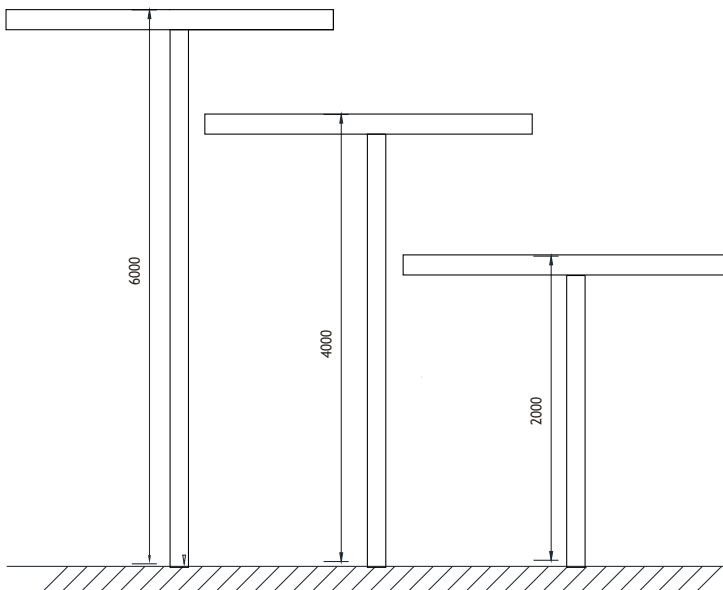
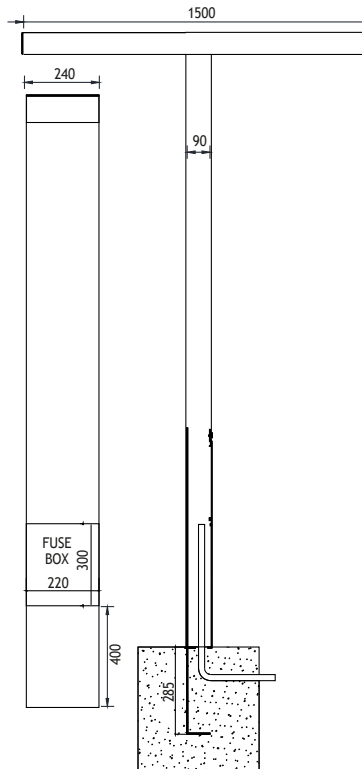
- Led** : Linear LEDs
- Voltage** : 240 VAC with integrated driver
(12-24 VDC on request)
- Diffuser** : 4mm Tempered Glass
- Beam Angle** : 45° / 60° / 90°
- Mac Adam** : 3
- CRI** : >80
- L.O.R %** : %70



2000mm			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
2x24W	462001	3000 K	1780 lm	2550 lm
2x48W	462011	3000 K	3080 lm	4300 lm
2x24W	462002	4000 K	2047 lm	2932 lm
2x48W	462012	4000 K	3542 lm	5060 lm

4000mm			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
2x24W	462101	3000 K	1780 lm	2550 lm
2x48W	462111	3000 K	3080 lm	4300 lm
2x24W	462102	4000 K	2047 lm	2932 lm
2x48W	462112	4000 K	3542 lm	5060 lm

6000mm			Real Lumen Output	Nominal Lumen Output
Power	Code No	Kelvin		
2x24W	462201	3000 K	1780 lm	2550 lm
2x48W	462211	3000 K	3080 lm	4300 lm
2x24W	462202	4000 K	2047 lm	2932 lm
2x48W	462212	4000 K	3542 lm	5060 lm



BELKIS 5

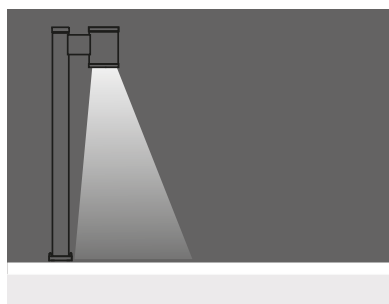
ONE-WAY APPLIQUE ON POLE

Class I IP55

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

- Cover**
- Die cast aluminium
- Paint**
- Electrostatic powder
- Pipe**
- Extrusion aluminium
- Connection**
- IP connection box
- Gaskets**
- Silicone
- Diffusers**
- Tempered Glass



- Lampholder** : E27
- Reflector** : 40
- Diffuser** : Clear Glass

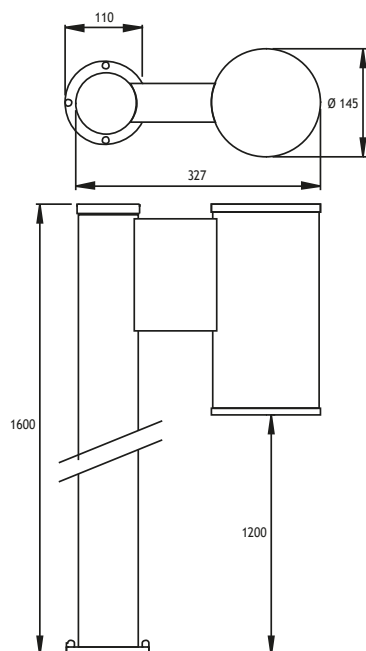
Code No
295101

ELECTRONIC FLUO. 23W

- Lampholder** : G24 d - 2
- Reflector** : 40
- Diffuser** : Clear Glass

Code No
295111

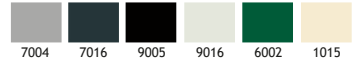
ELECTRONIC FLUO. 18W



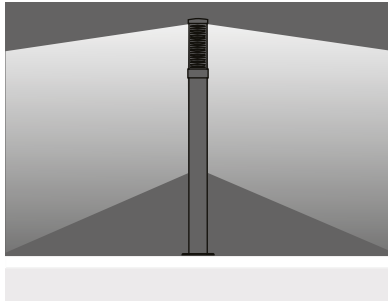
GOREME

ACRYLIC POLE Class I IP65

Available in any
of these RAL colors



- Pipe**
Steel
- Body**
Die cast aluminium
- Cover**
Die cast aluminium
- Paint**
Electrostatic powder
- Diffuser**
Acrylic Glass
- Gaskets**
Silicone
- Connection**
IP connection box



2500 mm

27W or 48WLED

Code No

27W 48W

☀ Warm White 3000 K	295301	295331
☾ Natural White 4000 K	295302	295332

3000 mm

27W or 48WLED

Code No

27W 48W

☀ Warm White 3000 K	295311	295341
☾ Natural White 4000 K	295312	295342

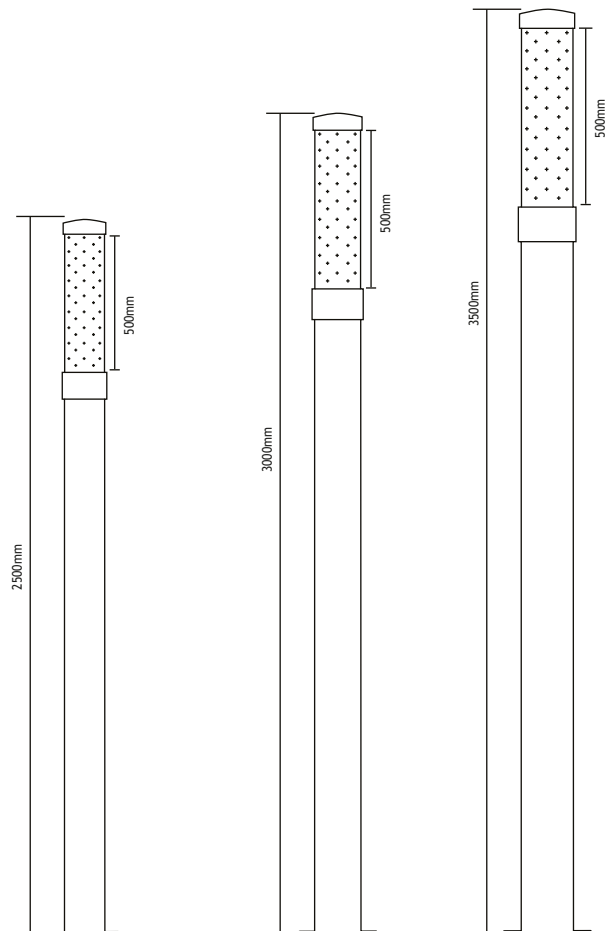
3500 mm

27W or 48WLED

Code No

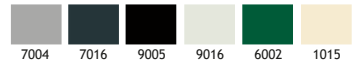
27W 48W

☀ Warm White 3000 K	295321	295351
☾ Natural White 4000 K	295322	295352

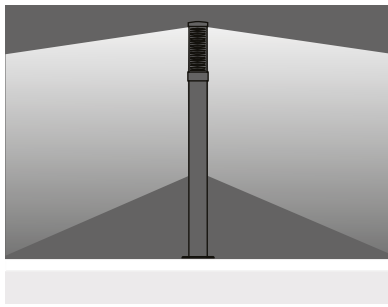




Available in any
of these RAL colors



- Pipe**
Steel
- Body**
Die cast aluminium
- Body**
Aluminium Profile
- Cover**
Die cast aluminium
- Paint**
Electrostatic powder
- Diffusers**
Acrylic Glass
- Gaskets**
Silicone
- Connection**
IP connection box



2500 mm

27W or 48WLED

		Code No	
		27W	48W
☀	Warm White 3000 K	295201	295331
☾	Natural White 4000 K	295202	295332

3000 mm

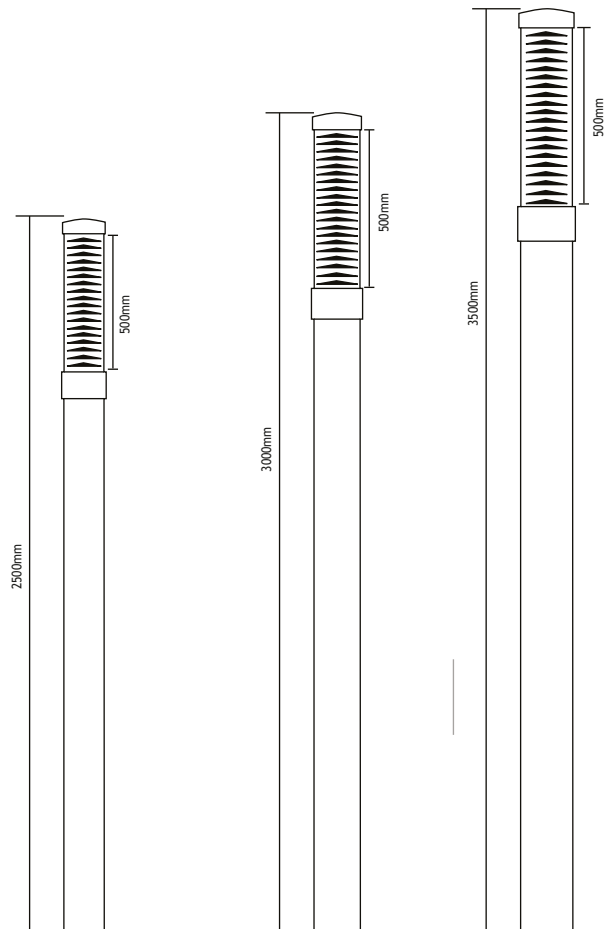
27W or 48WLED

		Code No	
		27W	48W
☀	Warm White 3000 K	295211	295341
☾	Natural White 4000 K	295212	295342

3500 mm

27W or 48WLED

		Code No	
		27W	48W
☀	Warm White 3000 K	295221	295351
☾	Natural White 4000 K	295222	295352



LPA POLE MOUNTED Class I IP65

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

Body
Die cast aluminium
Cover
Spinning aluminium
Paint
Electrostatic powder
Diffusers
Acrylic Glass
Gaskets
Silicone
Connection
IP connection box



Code No
A



Code No
B



3500 mm

26W LED 1574 lm

Code No

☀ Warm White 3000 K

437601

☾ Cool White 6000 K

437602

3500 mm

36W LED 2163 lm

Code No

☀ Warm White 3000 K

437611

☾ Cool White 6000 K

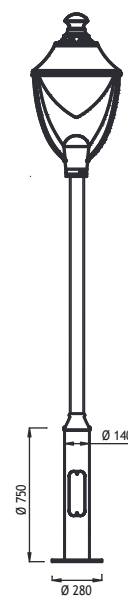
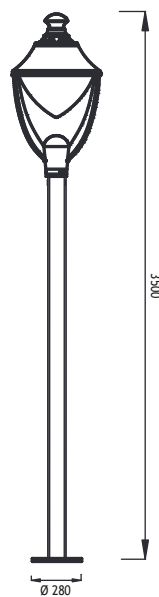
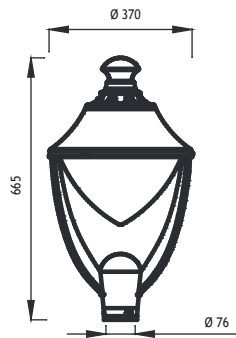
437612

3500 mm

E27 CFL max. 65W

Code No

437621



LPB POLE MOUNTED

Class I IP65

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

- Body**
- Die cast aluminium
- Cover**
- Spinning aluminium
- Paint**
- Electrostatic powder
- Diffusers**
- Acrylic Glass
- Gaskets**
- Silicone
- Connection**
- IP connection box



3500 mm

30W LED 3277 lm

Code No

- ☀ Warm White 3000 K
- ☾ Cool White 6000 K

437501

437502

3500 mm

46W LED 4649 lm

Code No

- ☀ Warm White 3000 K
- ☾ Cool White 6000 K

437511

437512

3500 mm

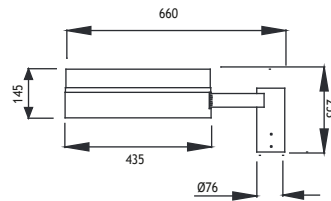
60W LED 5670 lm

Code No

- ☀ Warm White 3000 K
- ☾ Cool White 6000 K

437521

437522

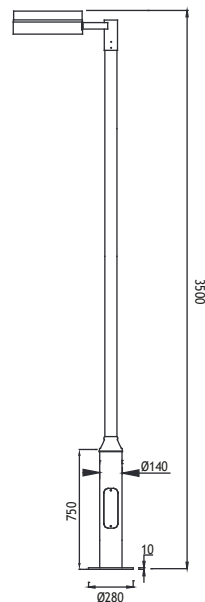


3500 mm

E27 CFL max. 65W

Code No

437531



LPC POLE MOUNTED Class I IP65

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

- Pipe**
Steel
- Body**
Die cast aluminium
- Cover**
Spinning aluminium
- Paint**
Electrostatic powder
- Diffusers**
Acrylic Glass
- Gaskets**
Silicone
- Connection**
IP connection box



3500 mm

26W LED 2310 lm

- ☀ Warm White 3000 K
- ☾ Cool White 6000 K

Code No
437401
437402

3500 mm

36W LED 2786 lm

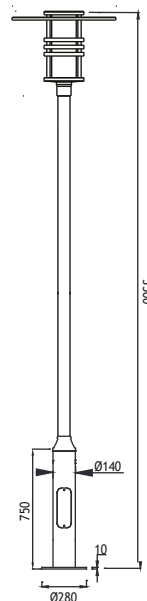
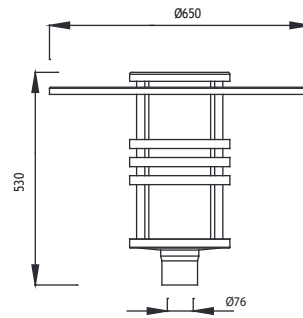
- ☀ Warm White 3000 K
- ☾ Cool White 6000 K

Code No
437411
437412

3500 mm

E27 CFL max. 65W

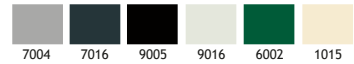
Code No
437421



LPD POLE MOUNTED

Class I IP65

Available in any of these RAL colors



- Pipe**
Steel
- Body**
Die cast aluminium
- Cover**
Spinning aluminium
- Paint**
Electrostatic powder
- Diffusers**
Acrylic Glass
- Gaskets**
Silicone
- Connection**
IP connection box



3500 mm

35W LED 2502 lm

Code No

- ☀ Warm White 3000 K
- ☾ Cool White 6000 K

437301
437302

3500 mm

45W LED 4171 lm

Code No

- ☀ Warm White 3000 K
- ☾ Cool White 6000 K

437311
437312

3500 mm

60W LED 5562 lm

Code No

- ☀ Warm White 3000 K
- ☾ Cool White 6000 K

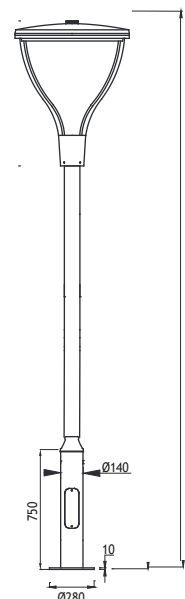
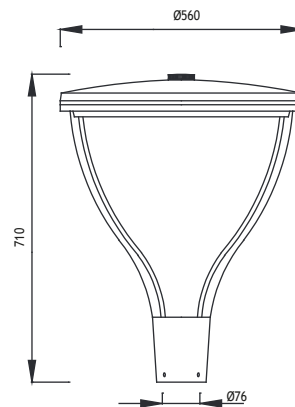
437321
437322

3500 mm

E27 CFL max. 65W

Code No

437331



LPE POLE MOUNTED

Class I IP65

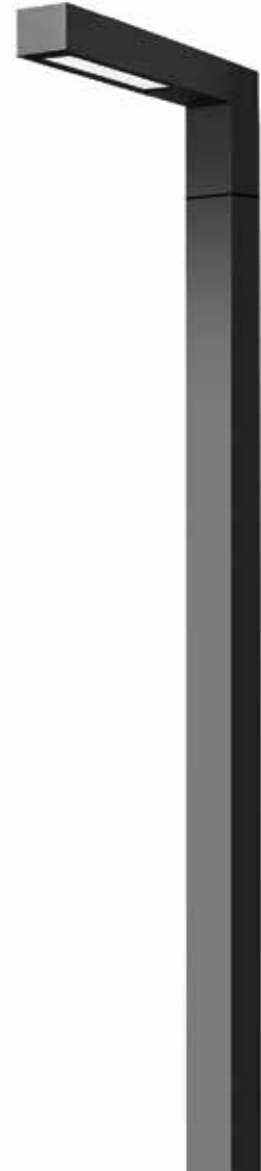
Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

- Body**
Extruded aluminium pole
- Paint**
Electrostatic powder
- Diffusers**
Acrylic Glass
- Gaskets**
Silicone
- Connection**
IP connection box



two way



3500 mm

20W LED

Code No

	One way	Two way
☀ Warm White 3000 K	437201	437211
☾ Cool White 6000 K	437202	437212

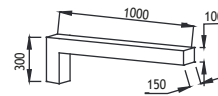
- | | | | |
|--------------|--------|--------|--------|
| ☀ Warm White | 3000 K | 437201 | 437211 |
| ☾ Cool White | 6000 K | 437202 | 437212 |

3500 mm

30W LED

Code No Code No

- | | | | |
|--------------|--------|--------|--------|
| ☀ Warm White | 3000 K | 437221 | 437231 |
| ☾ Cool White | 6000 K | 437222 | 437232 |

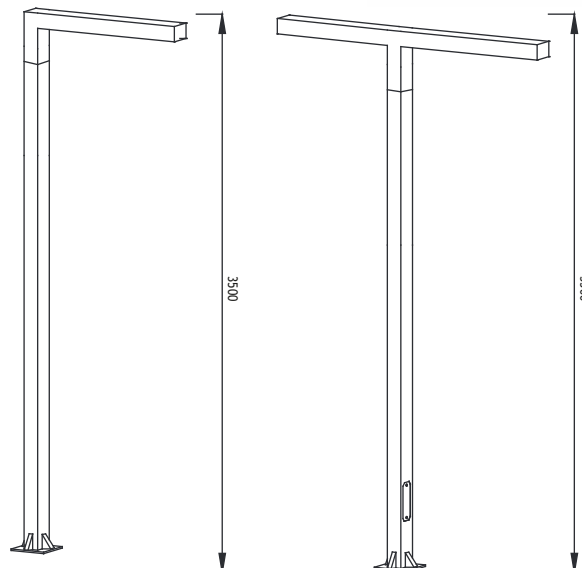
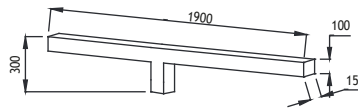


3500 mm

40W LED

Code No Code No

- | | | | |
|--------------|--------|--------|--------|
| ☀ Warm White | 3000 K | 437241 | 437251 |
| ☾ Cool White | 6000 K | 437242 | 437252 |



LPF POLE MOUNTED

Class I IP65

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

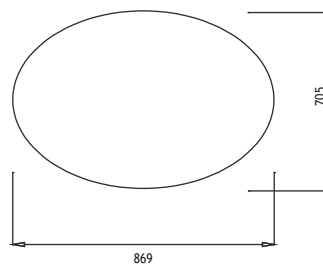
- Pipe**
Steel
- Body**
Die cast aluminium
- Cover**
White polymer plate
- Paint**
Electrostatic powder
- Diffusers**
Glass
- Gaskets**
Silicone
- Connection**
IP connection box

3500 mm

30W LED

- ☀ Warm White 3000 K
- ☾ Cool White 6000 K

Code No
One Way
437101
437102

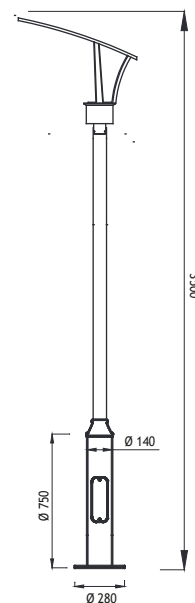
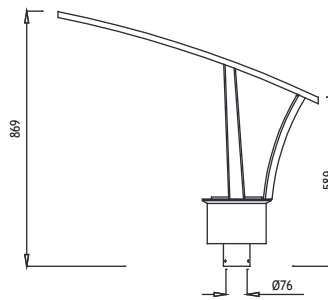


3500 mm

70W/150W M.H. G12

- 70W Metal Halide
- 150W Metal Halide

Code No
One Way
437111
437121



LPG POLE MOUNTED Class I IP65

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------

Pipe
Steel
Body
Die cast aluminium
Cover
Spinning aluminium
Paint
Electrostatic powder
Diffusers
Acrylic Glass
Gaskets
Silicone
Connection
IP connection box

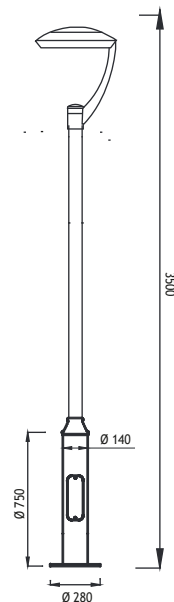
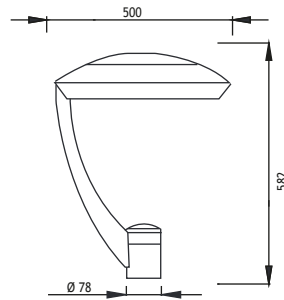


3500 mm
30W LED Code No
One Way
 ☀ Warm White 3000 K 437001
 ☾ Cool White 6000 K 437002

3500 mm
60W LED Code No
One Way
 ☀ Warm White 3000 K 437011
 ☾ Cool White 6000 K 437012

3500 mm
90W LED Code No
One Way
 ☀ Warm White 3000 K 437021
 ☾ Cool White 6000 K 437022

3500 mm
120W LED Code No
One Way
 ☀ Warm White 3000 K 437031
 ☾ Cool White 6000 K 437032



20mA
Led Fixtures

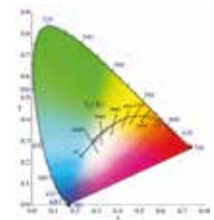


20mA LED FIXTURES

EMFA's 20mA LED fixtures are ideal for ambiance lighting outdoors and in where only a touch of light is required. These fixtures apart from being used as orientation lights, can light steps and paths and highlight walls and columns. A material mix of die cast aluminium, marine grade stainless steel and acrylic are offered to fit the correct location. A choice of lighting or backlighting LEDs is offered to either give a directional lighting effect or a lighting glow.

“Customization” is EMFA’s standard

EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 6 standard paint colors, 5 LED colors and 2 LED types are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



LEDs

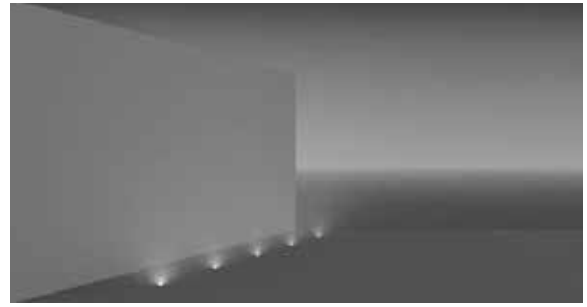
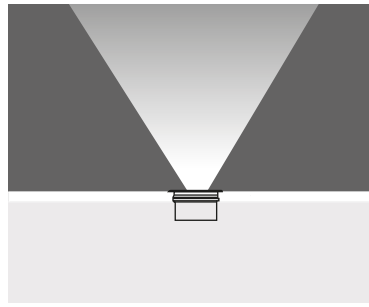
20mA, low power LEDs are used in these fixtures. The fixtures can be run in 240V or 12 or 24VDC; however, they are recommended to be operated in 12 or 24VDC to increase the lifetime and reduce the power consumption. In 240V the LEDs last about 8,000 hours and consume around 4W per fixture and in 12 or 24VDC the lifetime is around 16,000 hours and about 0.5W of power consumption.

Thermal Management

All fixtures are designed to withstand ambient temperatures of at least 50°C. Extensive testing is performed in EMFA's laboratory to ensure these values are maintained so that the lifetime of the LED is not compromised.

BELKIS 1 RECESSED WALK OVER LED FIXTURES

Class II IP67

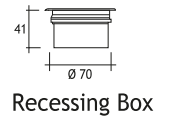
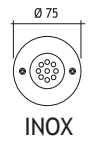


Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

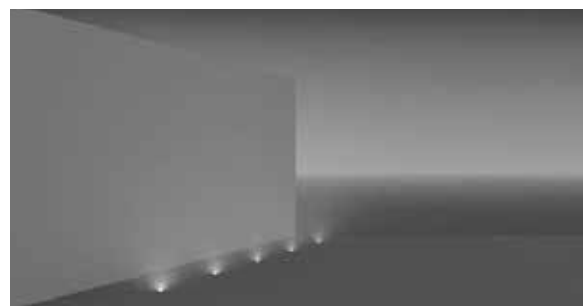
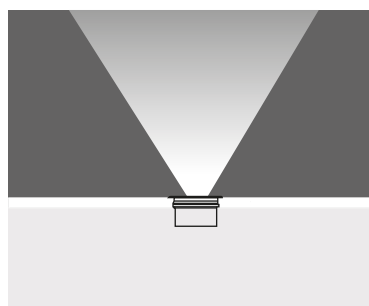
Diffuser : Clear Glass 6 mm

Standard with 5m 3x0,75 H03 VV-F cable

Available with springs for false ceiling.



9 x 20 mA BACKLIGHTING LEDS	Code No
	Inox
Warm White	418101
Blue	418102
Red	418103
Yellow	418104
Green	418105

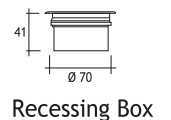
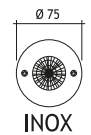
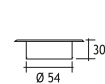


Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Glass 6 mm

Standard with 5m 3x0,75 H03 VV-F cable

Available with springs for false ceiling.



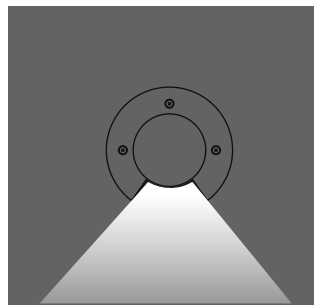
1 x 20 mA BACKLIGHTING LEDS	Code No
	Inox
Warm White	418111
Blue	418112
Red	418113
Yellow	418114
Green	418115

BELKIS 1 RECESSED WALK OVER LED FIXTURES

Class II IP67

Available in any of these RAL colors

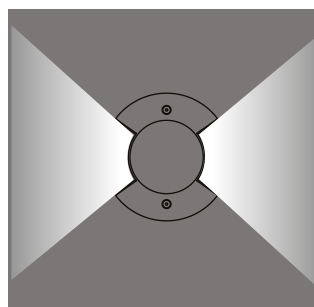
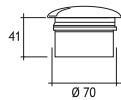
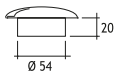
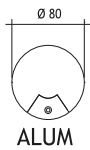
7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic
Standard with 5m 3x0,75 H03 VV-F cable

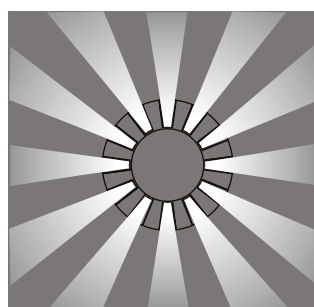
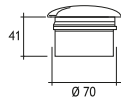
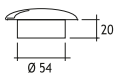
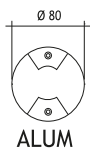
2 x 20 mA LEDS	Code No
	Mono
☀ Warm White	406101
🟦 Blue	406111
🟥 Red	406121
☀ Yellow	406131
🟢 Green	406141



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic
Standard with 5m 3x0,75 H03 VV-F cable

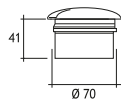
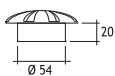
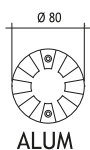
2+2 x 20 mA LEDS	Code No
	Dual
☀ Warm White	406301
🟦 Blue	406311
🟥 Red	406321
☀ Yellow	406331
🟢 Green	406341
🟢🟥 Green+Red	406391 *(Special application)



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic
Standard with 5m 3x0,75 H03 VV-F cable

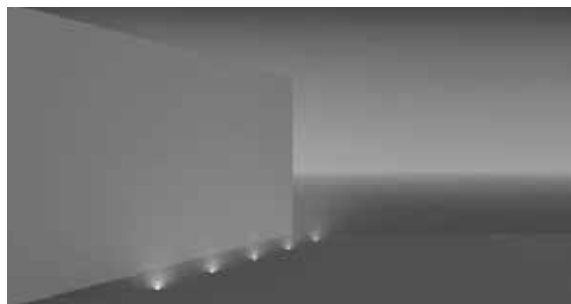
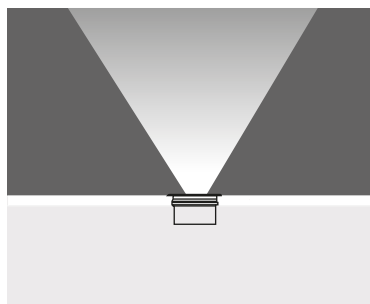
8 x 20 mA LEDS	Code No
	Multi
☀ Warm White	406501
🟦 Blue	406511
🟥 Red	406521
☀ Yellow	406531
🟢 Green	406541





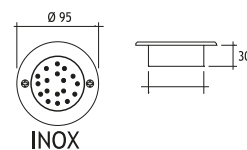
BELKIS 2 RECESSED WALK OVER LED FIXTURES

Class II IP67



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Glass 6 mm
Standard with 5m 3x0,75 H03 VV-F cable
Available with springs for false ceiling.



18 x 20 mA BACKLIGHTING LEDS	Code No
☀ Warm White	Inox 418121
🌊 Blue	418122
🔴 Red	418123
🟡 Yellow	418124
🟢 Green	418125

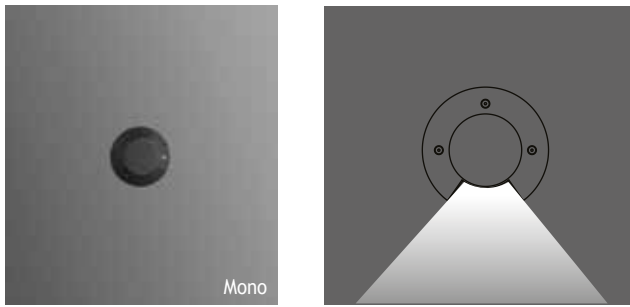


BELKIS 2 RECESSED WALK OVER LED FIXTURES

Class II IP67

Available in any of these RAL colors

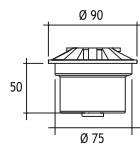
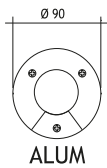
7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



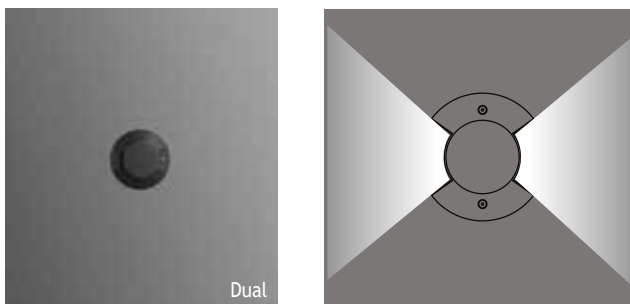
Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic
Standard with 5m 3x0,75 H03 VV-F cable

2 x 20 mA LEDS	Code No
	Mono
☀ Warm White	416321
🟦 Blue	416322
🟥 Red	416323
🟡 Yellow	416324
🟢 Green	416325



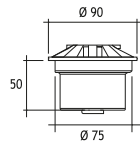
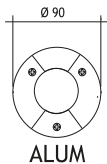
Aluminium Spinning Recessing Tube With Connector



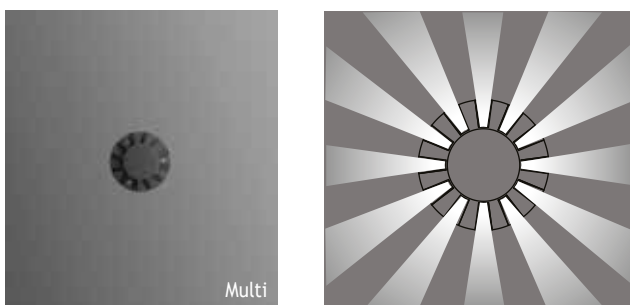
Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic
Standard with 5m 3x0,75 H03 VV-F cable

2+2 x 20 mA LEDS	Code No
	Dual
☀ Warm White	401301
🟦 Blue	401311
🟥 Red	401321
🟡 Yellow	401331
🟢 Green	401341
🟢🟥 Green+Red	401391



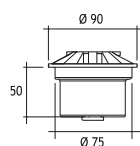
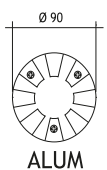
Aluminium Spinning Recessing Tube With Connector



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic
Standard with 5m 3x0,75 H03 VV-F cable

8 x 20 mA LEDS	Code No
	Multi
☀ Warm White	401501
🟦 Blue	401511
🟥 Red	401521
🟡 Yellow	401531
🟢 Green	401541

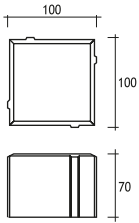


Aluminium Spinning Recessing Tube With Connector

LIGHTSTONE

DRIVE OVER LED FIXTURES
Load 7.5 kN | Class III IP67 IK10

Body
Polycarbonate

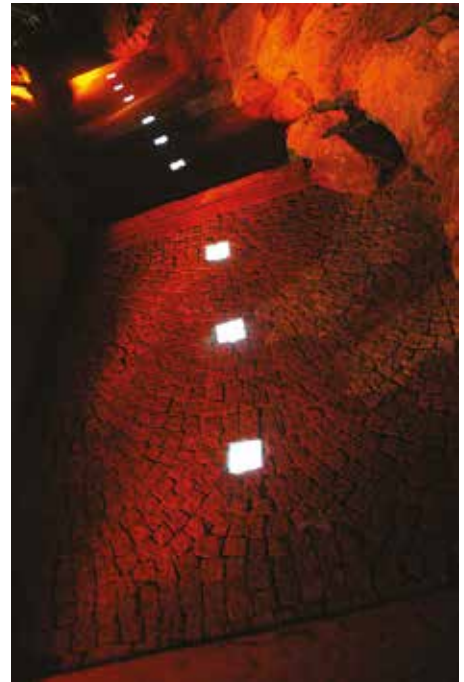


Voltage : 12V A.C standard with 10m cable

9 x 20 mA LEDS

Code No

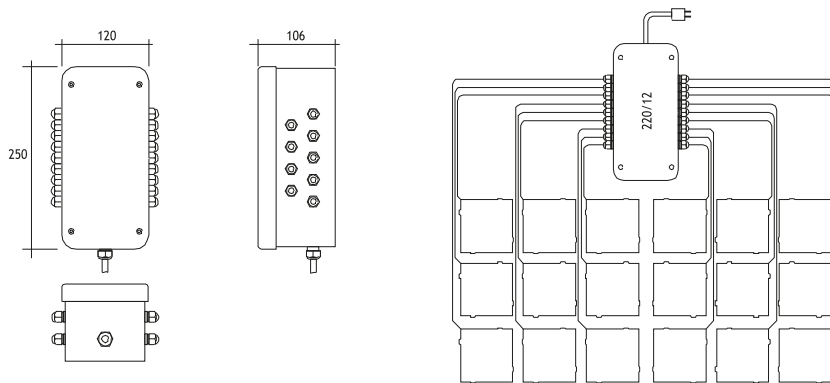
☀ Warm White	426101
🟦 Blue	426102
🟥 Red	426103
🟡 Yellow	426104
🟢 Green	426105



Connection Box

Glass reinforced polyester

IP 67 recessable 18 cable glands to serve 18 lightstones complete with one 220 V AC - 12V AC transformer. Maximum distance to box is 50 m.



Connection Box

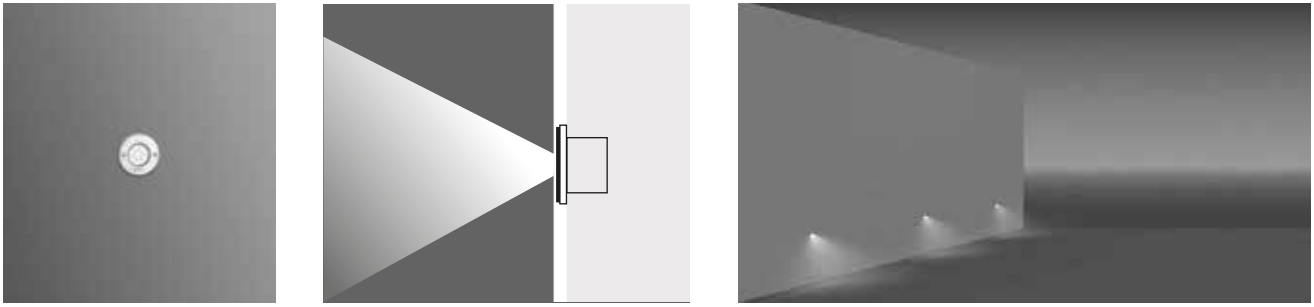
Code No
426201

BELKIS 0 WALL RECESSED LED FIXTURES

Class II IP67

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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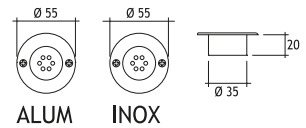
Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic (Not for walk-over)

Cable : Potted 5 m 3x0,75 H03 VV-F

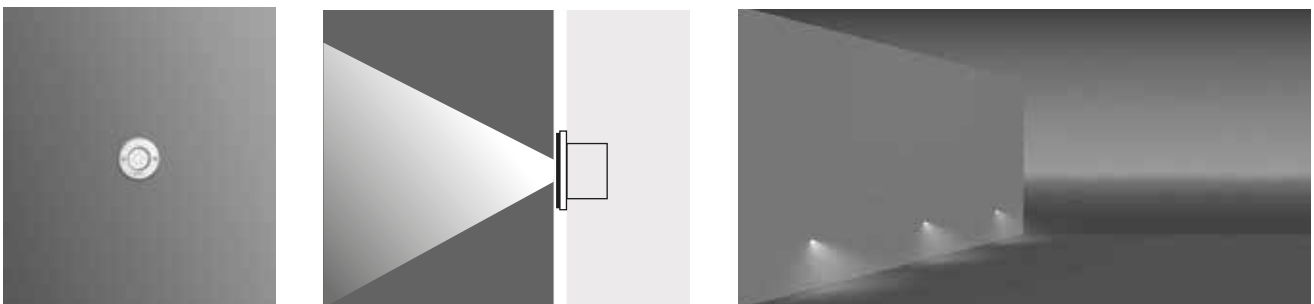
Standard with 5m 3x0,75 H03 VV-F cable

Available with springs for false ceiling.



6 x 20 mA LIGHTING LEDES

	Code No	
	Alum	Inox
☀ Warm White	416201	416211
🌊 Blue	416202	416212
🔴 Red	416203	416213
☀ Yellow	416204	416214
🌿 Green	416205	416215

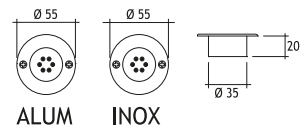


Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic (Not for walk-over)

Standard with 5m 3x0,75 H03 VV-F cable

Available with springs for false ceiling.

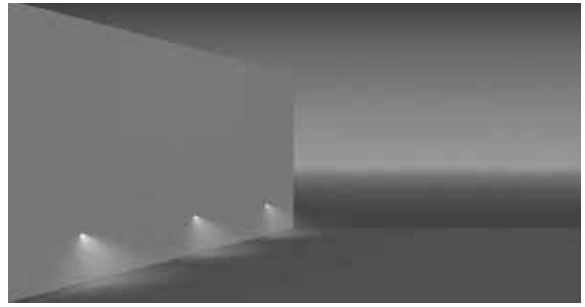
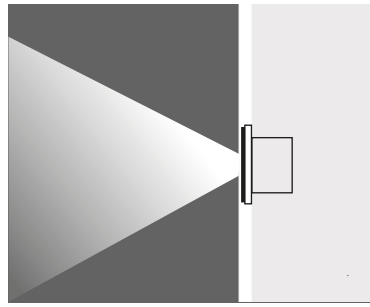


6 x 20 mA BACKLIGHTING LEDES

	Code No	
	Alum	Inox
☀ Warm White	417101	417111
🌊 Blue	417102	417112
🔴 Red	417103	417113
☀ Yellow	417104	417114
🌿 Green	417105	417115

BELKIS 1 WALL RECESSED LED FIXTURES

Class II IP67

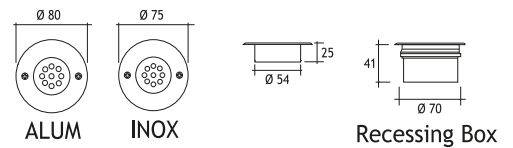


Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic (Not for walk-over)

Standard with 5m 3x0,75 H03 VV-F cable

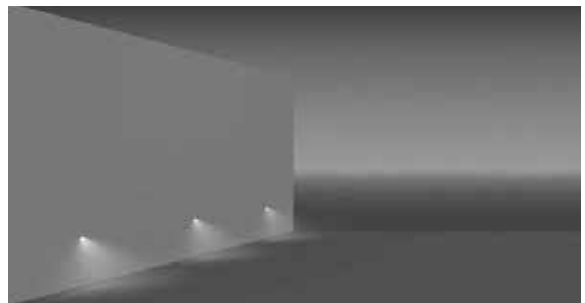
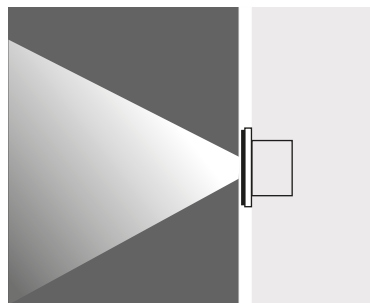
Available with springs for false ceiling.



9 x 20 mA LIGHTING LEDES

	Code No	
	Alum	Inox
☀ Warm White	416261	416271
🌊 Blue	416262	416272
🔴 Red	416263	416273
☀ Yellow	416264	416274
🌿 Green	416265	416275

D

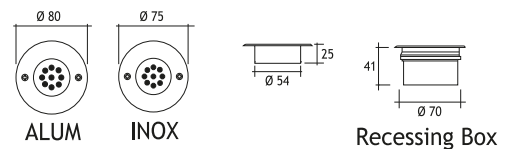


Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic (Not for walk-over)

Standard with 5m 3x0,75 H03 VV-F cable

Available with springs for false ceiling.

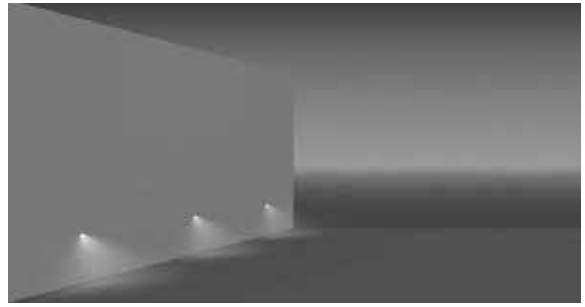
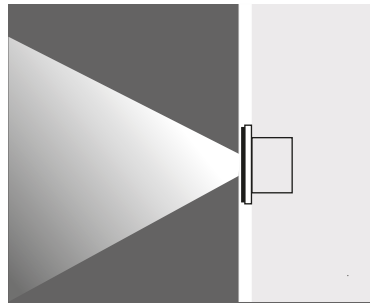


9 x 20 mA BACKLIGHTING LEDES

	Code No	
	Alum	Inox
☀ Warm White	417191	417201
🌊 Blue	417192	417202
🔴 Red	417193	417203
☀ Yellow	417194	417204
🌿 Green	417195	417205

BELKIS 1 WALL RECESSED LED FIXTURES

Class II IP67

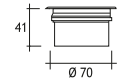
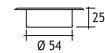
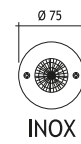
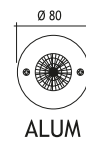


Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic (Not for walk-over)

Standard with 5m 3x0,75 H03 VV-F cable

Available with springs for false ceiling.

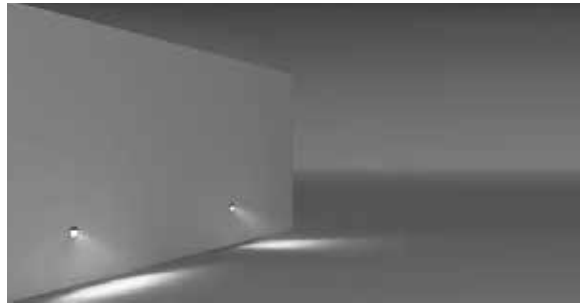
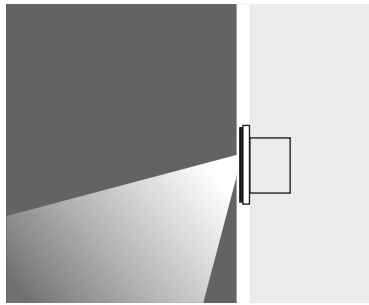


Recessing Box

1 x 20 mA BACKLIGHTING LEDS	Code No	
	Alum	Inox
☀ Warm White	407501	417351
🌊 Blue	407511	417352
🔴 Red	407521	417353
☀ Yellow	407531	417354
🌿 Green	407541	417355

BELKIS 1 WALL RECESSED LED FIXTURES

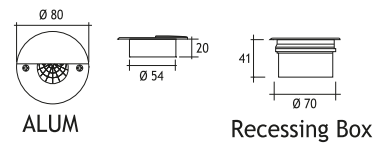
Class II IP67



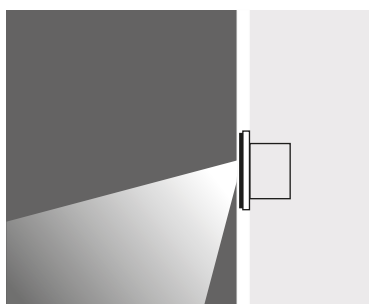
Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic

Standard with 5m 3x0,75 H03 VV-F cable



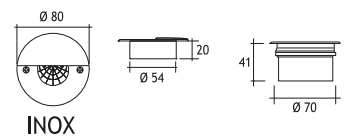
2 x 20 mA LIGHTING LEDS + 1 x 20 mA BACKLIGHTING LED	Code No
	Alum
☀ Warm White	417451
🟦 Blue	417452
🟥 Red	417453
☀ Yellow	417454
🟢 Green	417455



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic

Standard with 5m 3x0,75 H03 VV-F cable



2 x 20 mA LIGHTING LEDS + 1 x 20 mA BACKLIGHTING LED	Code No
	Inox
☀ Warm White	417441
🟦 Blue	417442
🟥 Red	417443
☀ Yellow	417444
🟢 Green	417445

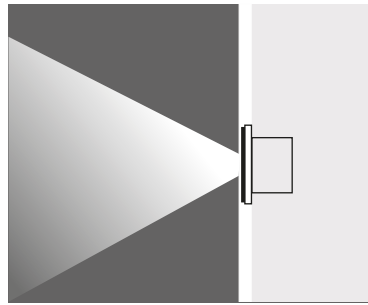


BELKIS 1 WALL RECESSED LED FIXTURES

Class II IP67

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)






Diffuser : Clear Acrylic (Not for walk-over)

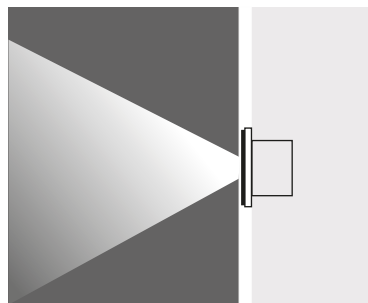
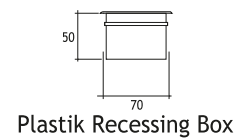
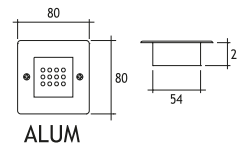
Standard with 5m 3x0,75 H03 VV-F cable

Symmetrical

12 x 20 mA LIGHTING LEDES

Code No

 Warm White	417801
 Blue	417802
 Red	417803
 Yellow	417804
 Green	417805



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)






Diffuser : Clear Acrylic (Not for walk-over)

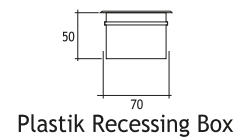
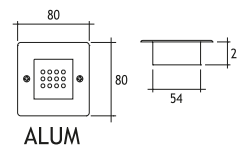
Standard with 5m 3x0,75 H03 VV-F cable

Symmetrical

12 x 20 mA BACKLIGHTING LEDES

Code No

 Warm White	417641
 Blue	417642
 Red	417643
 Yellow	417644
 Green	417645

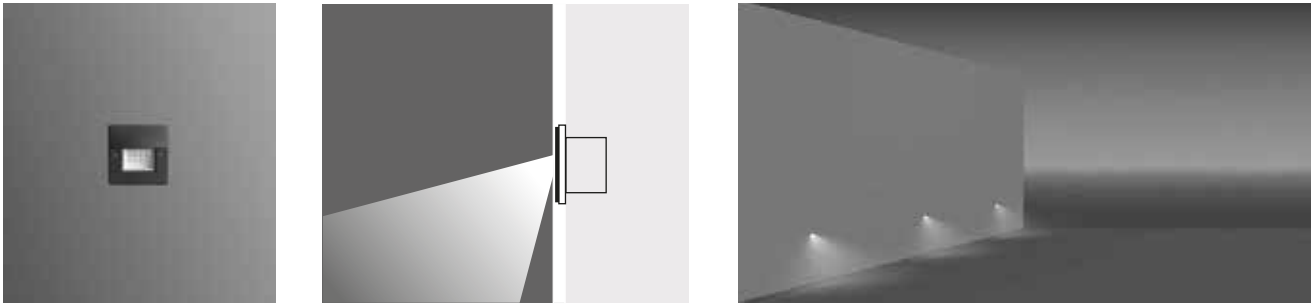


BELKIS 1 WALL RECESSED LED FIXTURES

Class II IP67

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic

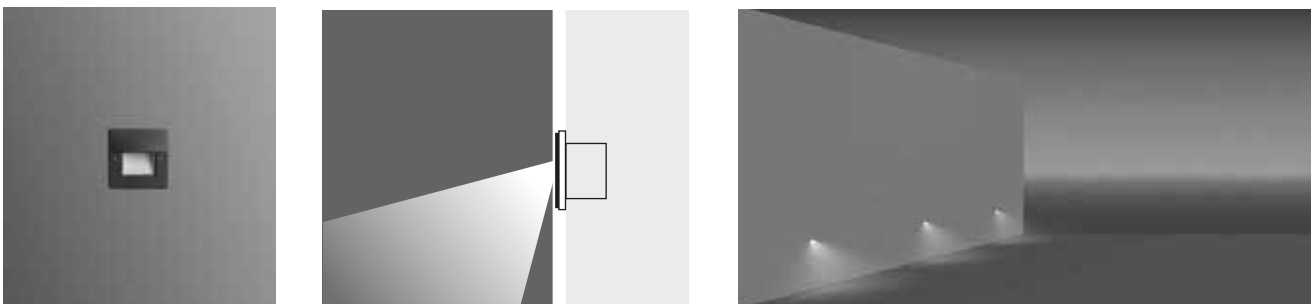
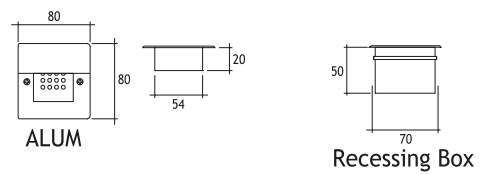
Standard with 5m 3x0,75 H03 VV-F cable

Asymmetrical

12 x 20 mA LIGHTING LEDS

Code No

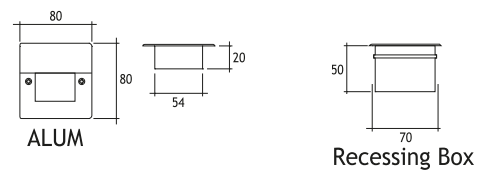
☀ Warm White	417771
🌊 Blue	417772
🔴 Red	417773
☀ Yellow	417774
🌿 Green	417775



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic

Standard with 5m 3x0,75 H03 VV-F cable



4 x 20 mA LIGHTING LEDS

Code No
Asymmetrical 30° Asymmetrical 120°

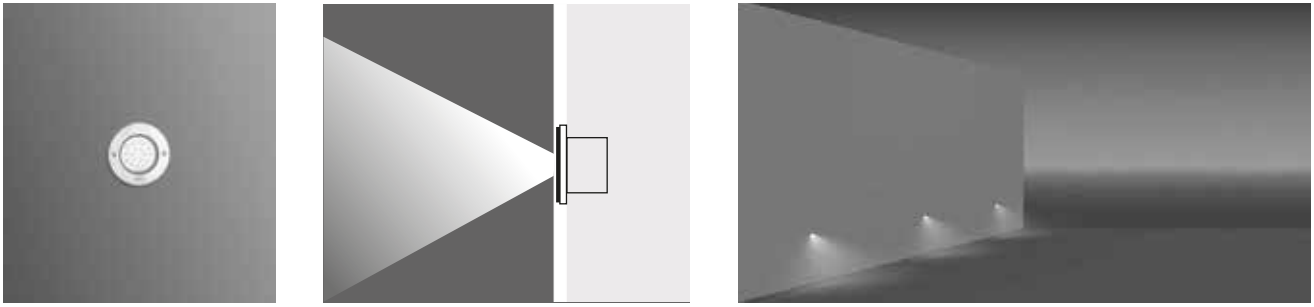
☀ Warm White	417691	417811
🌊 Blue	417692	417812
🔴 Red	417693	417813
☀ Yellow	417694	417814
🌿 Green	417695	417815

BELKIS 2 WALL RECESSED LED FIXTURES

Class II IP67

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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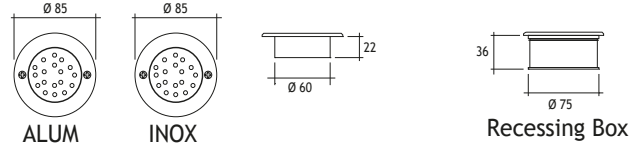


Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

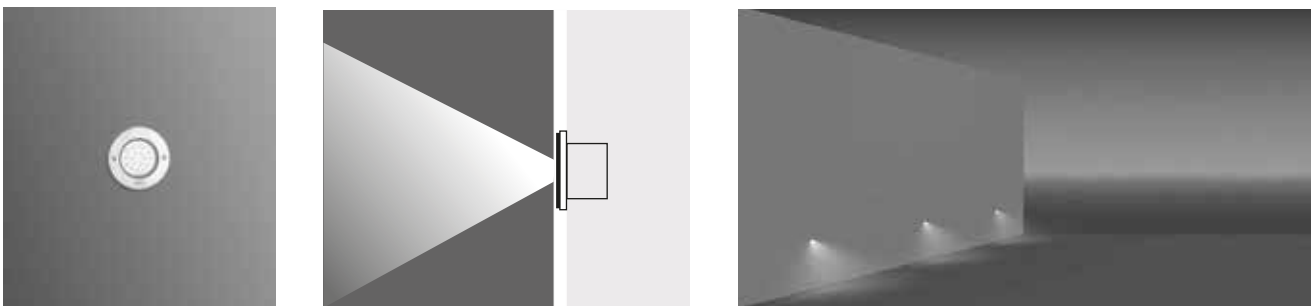
Diffuser : Clear Acrylic (Not for walk-over)

Standard with 5m 3x0,75 H03 VV-F cable

Available with springs for false ceiling.



18 x 20 mA LIGHTING LEDS	Code No	
	Alum	Inox
Warm White	416281	416291
Blue	416282	416292
Red	416283	416293
Yellow	416284	416294
Green	416285	416295

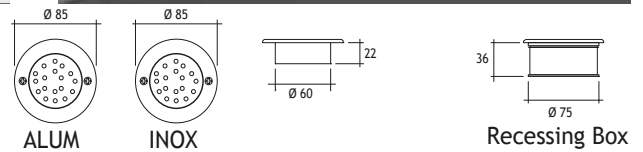


Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic (Not for walk-over)

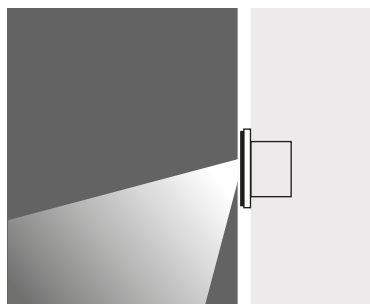
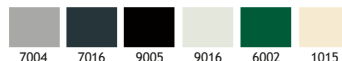
Standard with 5m 3x0,75 H03 VV-F cable

Available with springs for false ceiling.



18 x 20 mA BACKLIGHTING LEDS	Code No	
	Alum	Inox
Warm White	417561	417571
Blue	417562	417572
Red	417563	417573
Yellow	417564	417574
Green	417565	417575

Available in any of these RAL colors



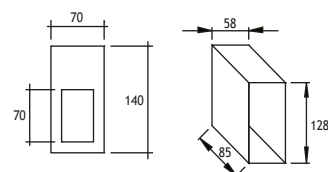
BERGAMA LED 140 X 70

Voltage : 240V A.C Class II
(12V AC or DC, 24V AC or DC on request)

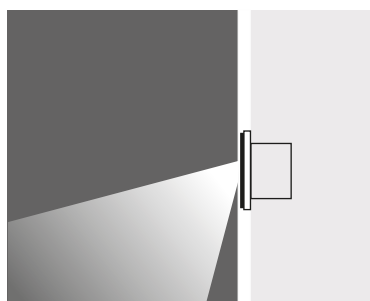
Diffuser : Clear Polycarbonate

Recessing Box : Inox (Stainless Steel)

Standard with 5m 3x0,75 H03 VV-F cable



4 x 20 mA 30° LIGHTING LEDS	Code No	
	Steel (For dry area use only)	Inox (IP 67)
☀ Warm White	404151	404161
🌊 Blue	404152	404162
🔴 Red	404153	404163
☀ Yellow	404154	404164
🌿 Green	404155	404165



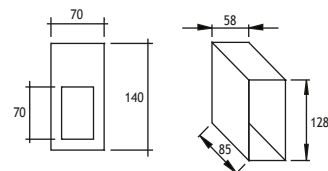
BERGAMA LED 140 X 70

Voltage : 240V A.C Class II
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Polycarbonate

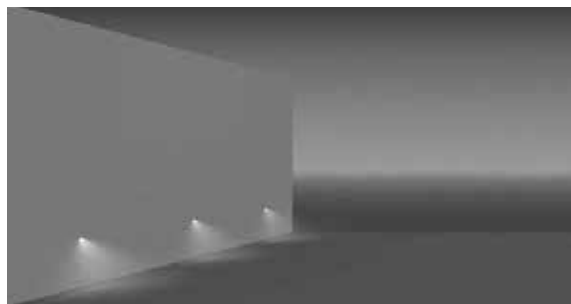
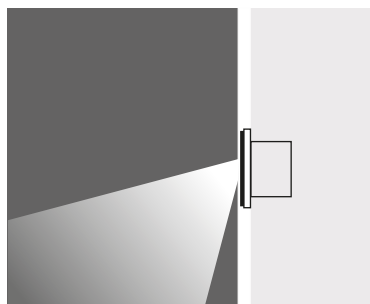
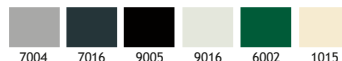
Recessing Box : Inox (Stainless Steel)

Standard with 5m 3x0,75 H03 VV-F cable



4 x 20 mA 120° BACKLIGHTING LEDS	Code No	
	Steel (For dry area use only)	Inox (IP 67)
☀ Warm White	404171	404181
🌊 Blue	404172	404182
🔴 Red	404173	404183
☀ Yellow	404174	404184
🌿 Green	404175	404185

Available in any of these RAL colors



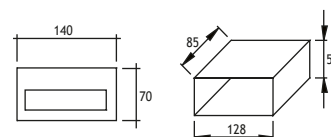
BERGAMA LED 70 X 140

Voltage : 240V A.C Class II
(12V AC or DC, 24V AC or DC on request)

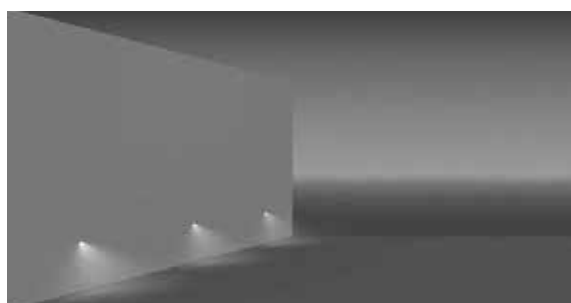
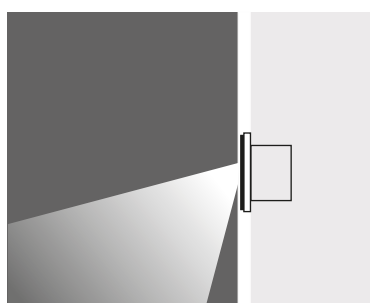
Diffuser : Clear Polycarbonate

Recessing Box : Inox (Stainless Steel)

Standard with 5m 3x0,75 H03 VV-F cable



8 x 20 mA 30° LIGHTING LEDS	Code No	
	Steel (For dry area use only)	Inox (IP 67)
☀ Warm White	404251	404261
🌊 Blue	404252	404262
🔴 Red	404253	404263
☀ Yellow	404254	404264
🌿 Green	404255	404265



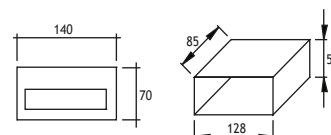
BERGAMA LED 70 X 140

Voltage : 240V A.C Class II
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Polycarbonate

Recessing Box : Inox (Stainless Steel)

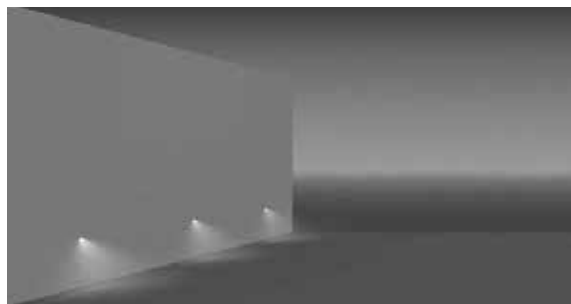
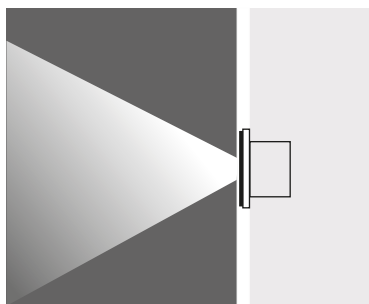
Standard with 5m 3x0,75 H03 VV-F cable



8 x 20 mA 120° BACKLIGHTING LEDS	Code No	
	Steel (For dry area use only)	Inox (IP 67)
☀ Warm White	404271	404281
🌊 Blue	404272	404282
🔴 Red	404273	404283
☀ Yellow	404274	404284
🌿 Green	404275	404285

DYO INOX WALL RECESSED LED FIXTURES

Class II IP67

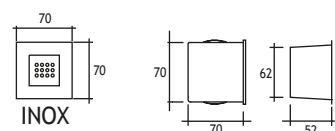


Symmetrical

Voltage : 240V A.C Class II
(12V AC or DC, 24V AC or DC on request)

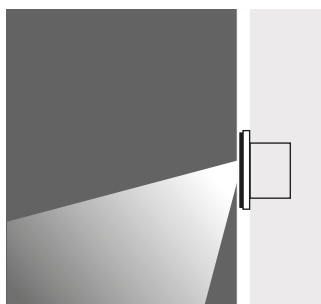
Diffuser : Clear Polycarbonate

Standard with 5m 3x0,75 H03 VV-F cable



12 x 20 mA 120° BACKLIGHTING Code No
LEDS

☀ Warm White	404501
🌊 Blue	404502
🔴 Red	404503
☀ Yellow	404504
🌿 Green	404505



Asymmetrical

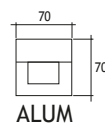
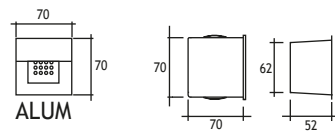
Voltage : 240V A.C Class II
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Polycarbonate

Recessing Box : Inox (Stainless Steel)

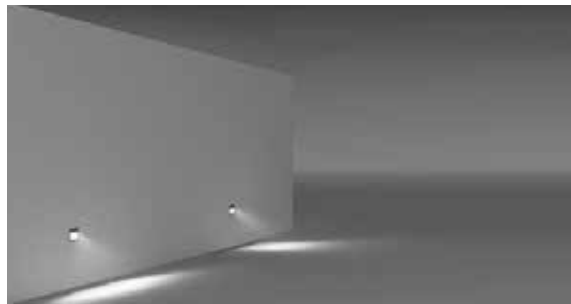
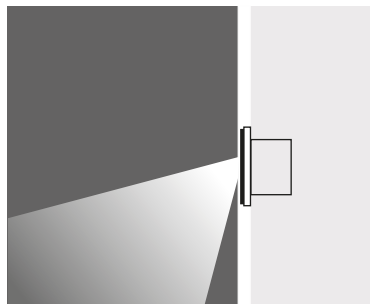
30° LIGHTING LEDES

	Code No 12 x 20 mA	Code No 4 x 20 mA
☀ Warm White	404511	404521
🌊 Blue	404512	404522
🔴 Red	404513	404523
☀ Yellow	404514	404524
🌿 Green	404515	404525



DYO WALL RECESSED LED FIXTURES

Class III IP20



Outer Frame & Body

Anodized aluminium

Recessing Box

Galvanized Steel

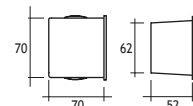
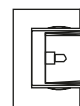
Diffuser

Glass

Asymmetrical

Voltage : 240V A.C with integrated driver
(12V AC or DC, 24V AC or DC on request)

With connector



DYO 69 14L

3 x 20 mA LIGHTING LEDES

Code No

☀ Warm White	405101
🌊 Blue	405111
🔴 Red	405121
☀ Yellow	405131
🌿 Green	405141

Asymmetrical

Voltage : 240V A.C with integrated driver
(12V AC or DC, 24V AC or DC on request)

With connector

DYO 69 14L

4 x 20 mA LIGHTING LEDES

Code No

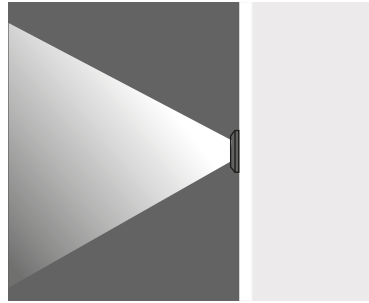
☀ Warm White	405151
🌊 Blue	405152
🔴 Red	405153
☀ Yellow	405154
🌿 Green	405155

BELKIS 0 SURFACE MOUNTED LED FIXTURES

Class II IP67

Available in any of these RAL colors

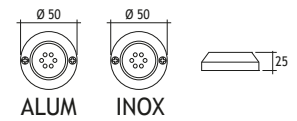
7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic

Standard with 5m 3x0,75 H03 VV-F cable



6 x 20 mA LIGHTINGS LEDS

☀ Warm White

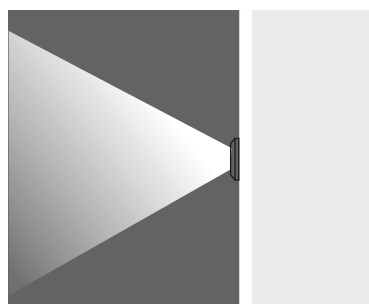
🌊 Blue

🔴 Red

☀ Yellow

🌿 Green

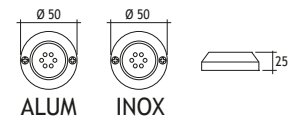
	Code No	
	Alum	Inox
☀ Warm White	416221	416231
🌊 Blue	416222	416232
🔴 Red	416223	416233
☀ Yellow	416224	416234
🌿 Green	416225	416235



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic

Standard with 5m 3x0,75 H03 VV-F cable



6 x 20 mA BACKLIGHTING LEDS

☀ Warm White

🌊 Blue

🔴 Red

☀ Yellow

🌿 Green

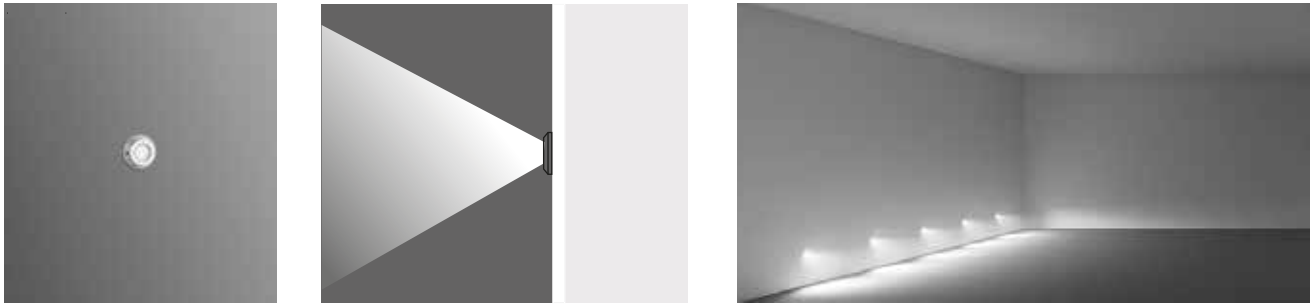
	Code No	
	Alum	Inox
☀ Warm White	417141	417151
🌊 Blue	417142	417152
🔴 Red	417143	417153
☀ Yellow	417144	417154
🌿 Green	417145	417155

BELKIS 1 SURFACE MOUNTED LED FIXTURES

Class II IP67

Available in any of these RAL colors

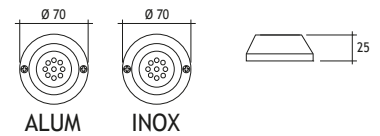
7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

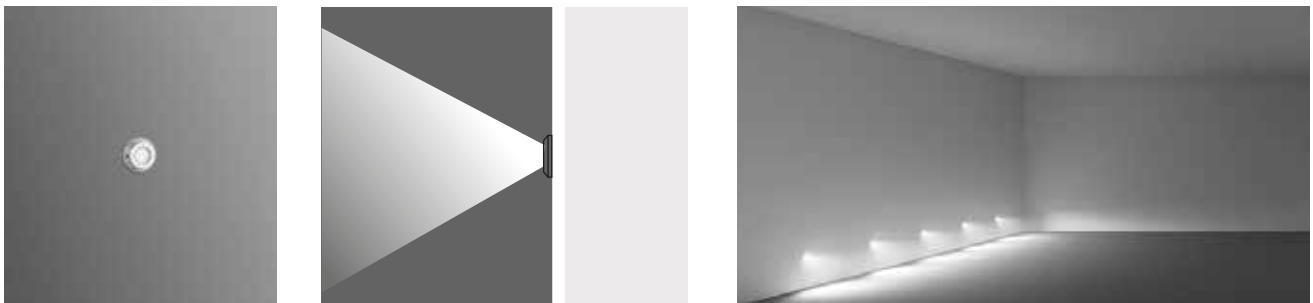
Diffuser : Clear Acrylic

Standard with 5m 3x0,75 H03 VV-F cable



9 x 20 mA LIGHTING LEDS

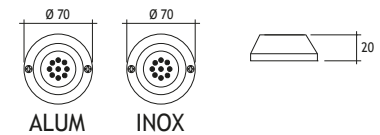
	Code No	
	Alum	Inox
☀ Warm White	417751	417761
🌊 Blue	417752	417762
🔴 Red	417753	417763
☀ Yellow	417754	417764
🌿 Green	417755	417765



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic

Standard with 5m 3x0,75 H03 VV-F cable



9 x 20 mA BACKLIGHTING LEDS

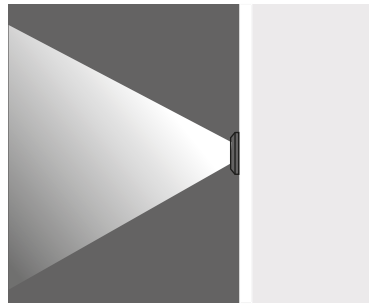
	Code No	
	Alum	Inox
☀ Warm White	417271	417281
🌊 Blue	417272	417282
🔴 Red	417273	417283
☀ Yellow	417274	417284
🌿 Green	417275	417285

BELKIS 1 SURFACE MOUNTED LED FIXTURES

Class II IP67

Available in any of these RAL colors

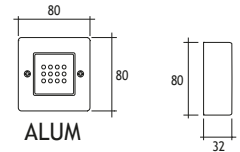
7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic (Not for walk-over)

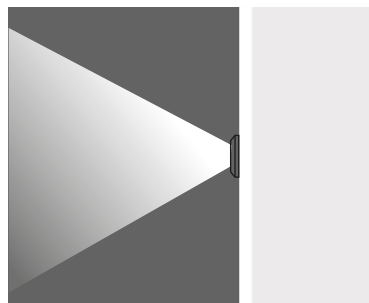
Standard with 5m 3x0,75 H03 VV-F cable



Symmetrical

12 x 20 mA LIGHTING LEDS Code No

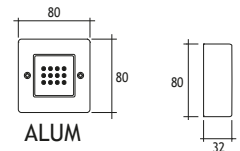
☀ Warm White	418201
🌊 Blue	418202
🔴 Red	418203
☀ Yellow	418204
🌿 Green	418205



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic (Not for walk-over)

Standard with 5m 3x0,75 H03 VV-F cable



Symmetrical

12 x 20 mA BACKLIGHTING LEDS Code No

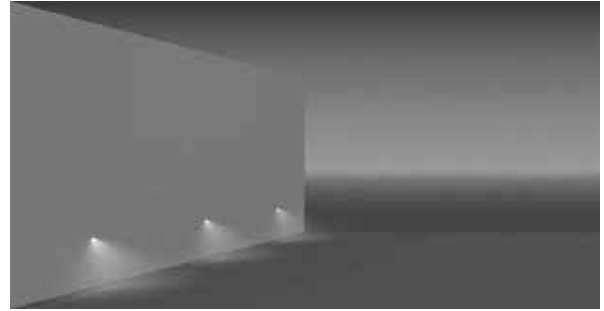
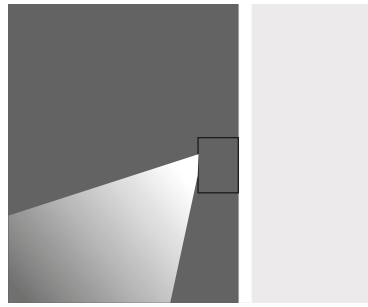
☀ Warm White	418211
🌊 Blue	418212
🔴 Red	418213
☀ Yellow	418214
🌿 Green	418215

BELKIS 1 SURFACE MOUNTED LED FIXTURES

Class II IP67

Available in any of these RAL colors

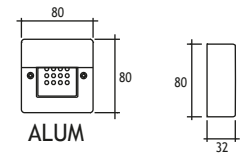
7004	7016	9005	9016	6002	1015
------	------	------	------	------	------



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic

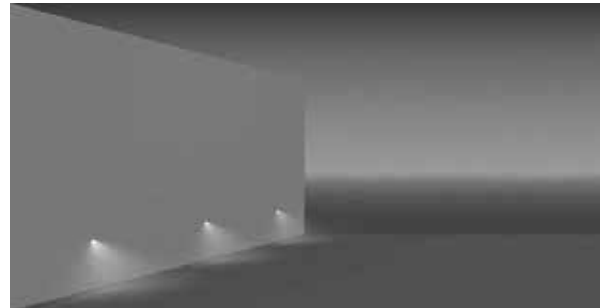
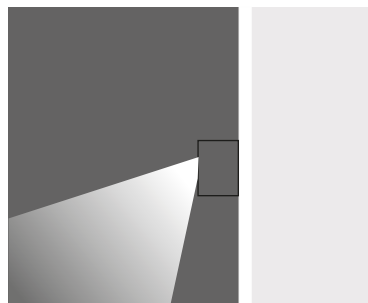
Standard with 5m 3x0,75 H03 VV-F cable



Asymmetrical

12 x 20 mA LIGHTING LEDS Code No

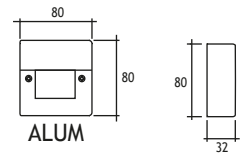
☀ Warm White	418251
🌊 Blue	418252
🔴 Red	418253
🟡 Yellow	418254
🟢 Green	418255



Voltage : 240V A.C
(12V AC or DC, 24V AC or DC on request)

Diffuser : Clear Acrylic

Standard with 5m 3x0,75 H03 VV-F cable



4 x 20 mA LIGHTING LEDS Code No

	Asymmetrical 30°	Asymmetrical 120°
☀ Warm White	418311	418321
🌊 Blue	418312	418322
🔴 Red	418313	418323
🟡 Yellow	418314	418324
🟢 Green	418315	418325

TAROS SURFACE MOUNTED LED FIXTURE Class II IP67

Body

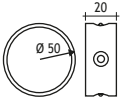
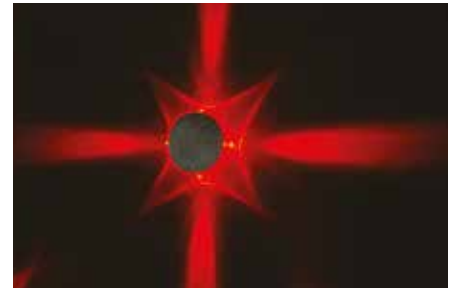
Acrylic

Cover

Stainless steel

Gear

Complete with Led Driver




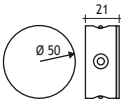
Voltage : 240V A.C Class II
(12V AC or DC, 24V AC or DC on request)

Standard with 5m 3x0,75 H03 VV-F cable

**WITH LIT PERIMETER
4 x 20 mA LIGHTING LEDES**

Code No

-  Warm White 428101
-  Blue 428102
-  Red 428103



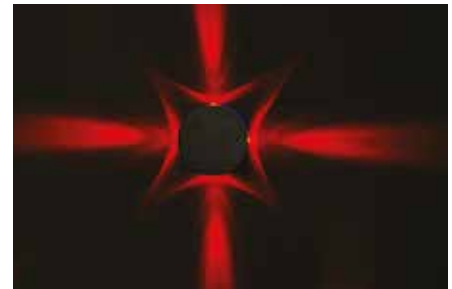
Voltage : 240V A.C Class II
(12V AC or DC, 24V AC or DC on request)

Standard with 5m 3x0,75 H03 VV-F cable

**WITH LIT PERIMETER
4 x 20 mA LIGHTING LEDES**

Code No

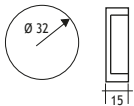
-  Warm White 428111
-  Blue 428112
-  Red 428113



SIMENA SURFACE MOUNTED LED FIXTURE

Class II IP67

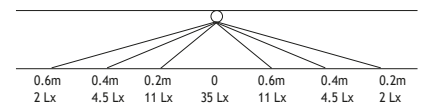
Body
PMMA
Cover
ABS
Colour
Matt Grey, Chrome, Or White
Gear
Complete with Led Driver



Voltage : 12 or 24V DC Class III
Diffuser : Clear Acrylic
Standard with 5m 3x0,75 H03 VV-F cable

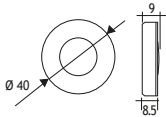
3 x 20 mA SMD LEDS Code No

☀ Warm White 432201
🌊 Blue 432202



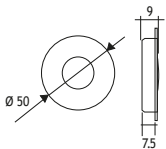
JUPITER SURFACE MOUNTED LED FIXTURES IP67

Body
PMMA
Cover
Stainless steel
Gaskets
Silicone
Gear
Complete with Led Driver



Voltage : 12 or 24V DC Class III
Diffuser : Frosted Acrylic
Standard with 5m 3x0,75 H03 VV-F cable

3 x 20 mA SMD LEDS	Code No
SURFACE MOUNTED	
☀ Warm White	415111
🌊 Blue	415112



Voltage : 12 or 24V DC Class III
Diffuser : Frosted Acrylic
Standard with 5m 3x0,75 H03 VV-F cable

3 x 20 mA SMD LEDS	Code No
RECESSED	
☀ Warm White	415101
🌊 Blue	415102



