



Surface Mount

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

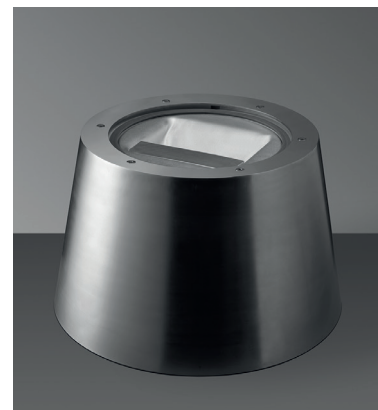
12 mm Tempered Glass

Gaskets

Silicone

Screws

316L Stainless Steel

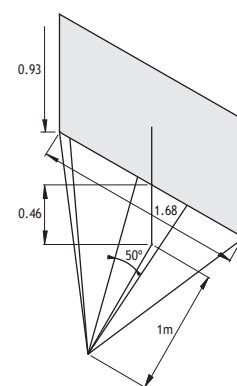
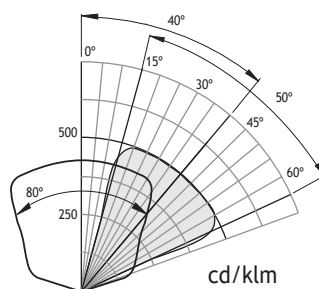
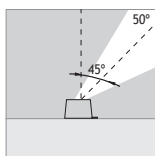


Lampholder : Rx 7s-24

Reflector : Asymmetric 50°

Diffuser : Clear Glass

Temp : 176°C



METAL HALIDE 35W / 70W

Wall Washer

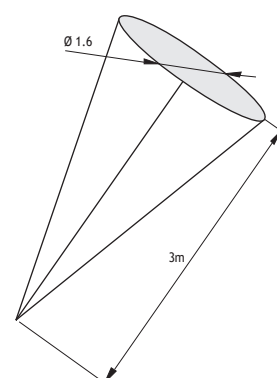
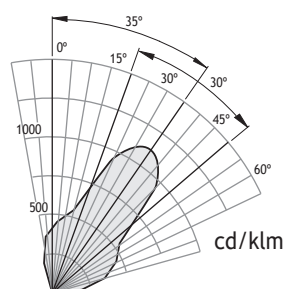
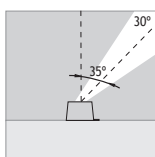
Code No
257211

Lampholder : G12

Reflector : 30° or 42°

Diffuser : Clear Glass

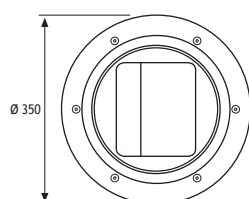
Temp : 173°C



METAL HALIDE 35W / 70W

Adjustable Spotlighter

Code No
257231



Suitable for Historical Sites

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

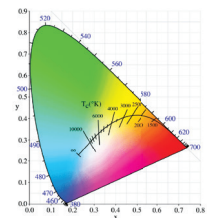
316L Stainless steel

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 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.

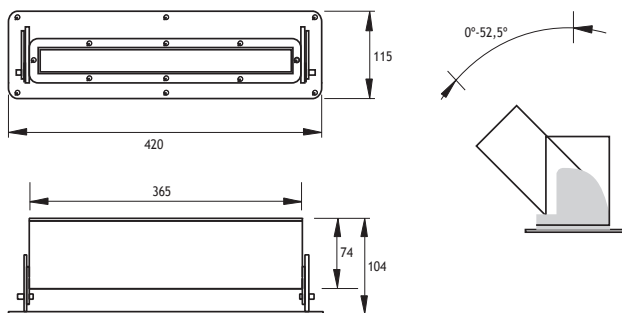
Thermal Management

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.

MIRA 1

SURFACE MOUNTED FIXTURES

Class I IP67 IK10



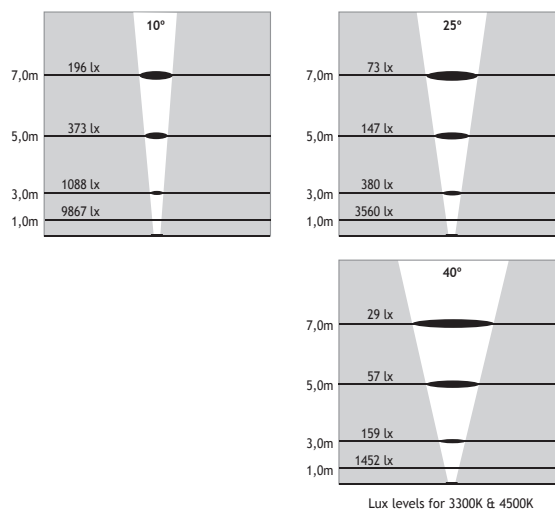
Voltage : 240V AC with integrated driver
(24V AC or DC on request)

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	3300 K	840 lm	430201
☁ Natural White	4500 K	840 lm	430206
☀ Cool White	6000 K	1008 lm	430207
🔵 Blue			430202
🔴 Red			430203
🟡 Amber			430204
🟢 Green			430205



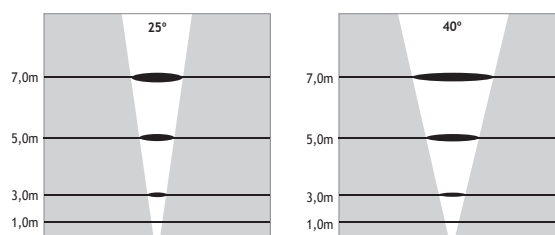
Voltage : 240V AC with remote driver

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

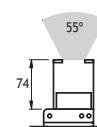
Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Reflector : Symmetrical

Lampholder : W 4,3 x 8,5 d

Ballast : Electronic

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

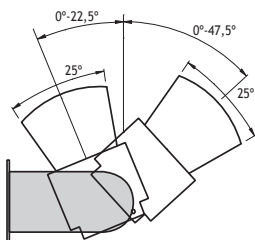
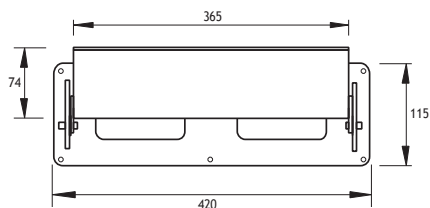


FLUO T-2 1x8W (included)	Code No
	430231

MIRA 1

SURFACE MOUNTED FIXTURES

Class I IP67 IK10



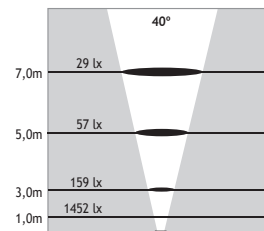
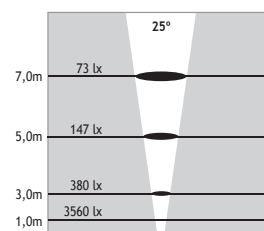
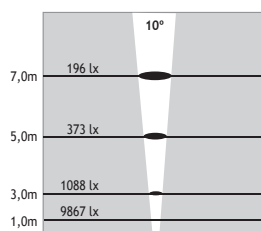
Voltage : 240V AC with integrated driver
(24V AC or DC on request)

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	3300 K	840 lm	430301
☁ Natural White	4500 K	840 lm	430306
☀ Cool White	6000 K	1008 lm	430307
🔵 Blue			430302
🔴 Red			430303
🟡 Amber			430304
🟢 Green			430305



Lux levels for 3300K & 4500K

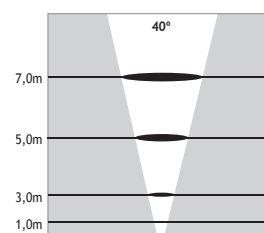
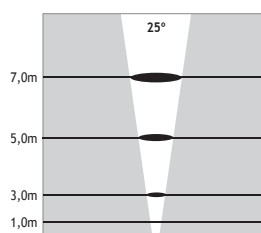
Voltage : 240V AC with remote driver

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

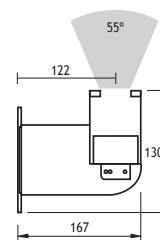
Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Reflector : Symmetrical

Lampholder : W 4,3 x 8,5 d

Ballast : Electronic

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

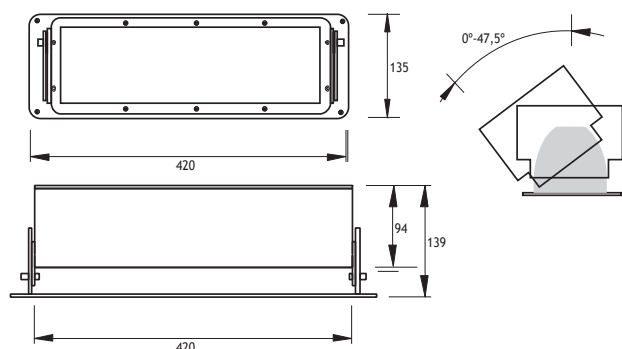


FLUO T-2 1x8W (included) Code No 430331

MIRA 2

SURFACE MOUNTED FIXTURES

Class I IP67 IK10



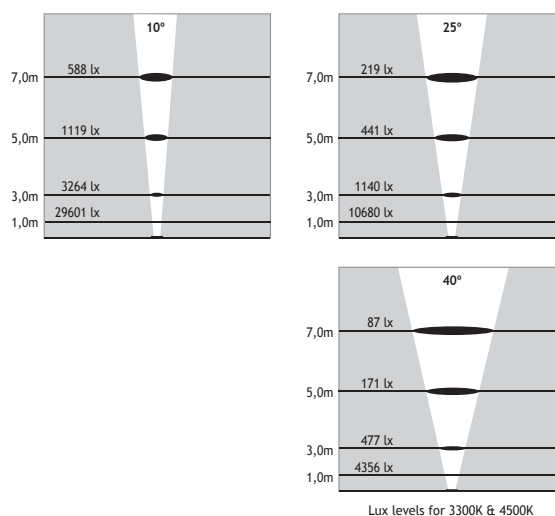
Voltage : 240V AC with integrated driver
(24V AC or DC on request)

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	3300 K	2520 lm	430801
Natural White	4500 K	2520 lm	430806
Cool White	6000 K	3024 lm	430807
Blue			430802
Red			430803
Amber			430804
Green			430805



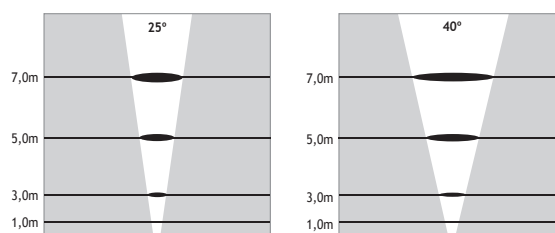
Voltage : 240V AC with remote driver

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

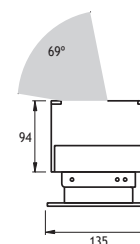
Diffuser : Clear Glass 12 mm (Frosted Glass on request)

Reflector : Asymmetrical

Lampholder : G 8,5

Ballast : Electronic

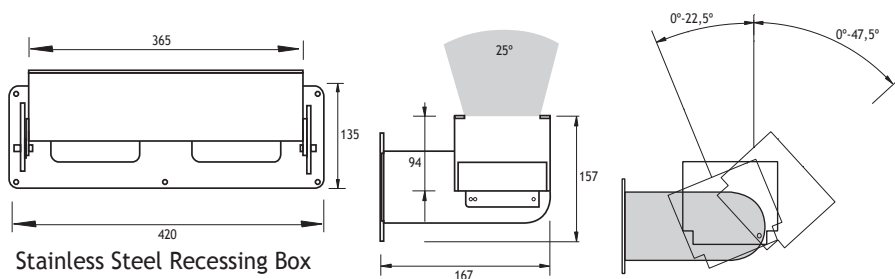
Metal Halide 70W (not included)	Code No
	430841



MIRA 2

SURFACE MOUNTED FIXTURES

Class I IP67 IK10



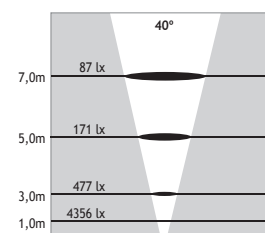
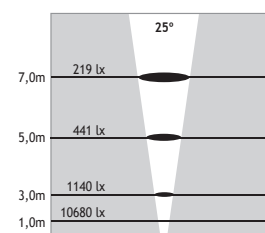
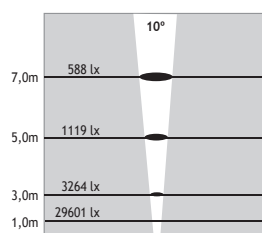
Voltage : 240V AC with integrated driver
(24V AC or DC on request)

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 3300 K	2520 lm	430901
☀ Natural White 4500 K	2520 lm	430906
☀ Cool White 6000 K	3024 lm	430907
🔵 Blue		430902
🔴 Red		430903
🟡 Amber		430904
🟢 Green		430905



Lux levels for 3300K & 4500K

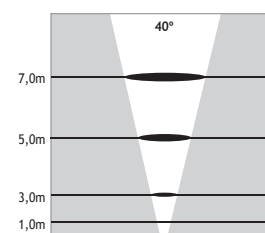
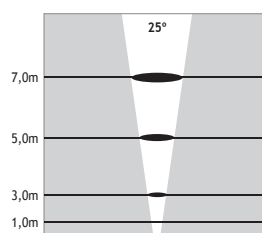
Voltage : 240V AC with remote driver

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	430921



Voltage : 240V AC with integrated ballast

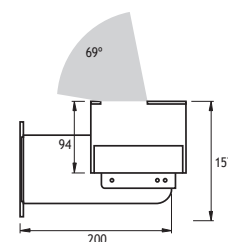
Diffuser : Clear Glass 12 mm (Frosted Glass on request)

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

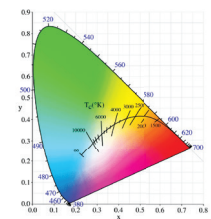
4 mm Tempered Glass

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 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

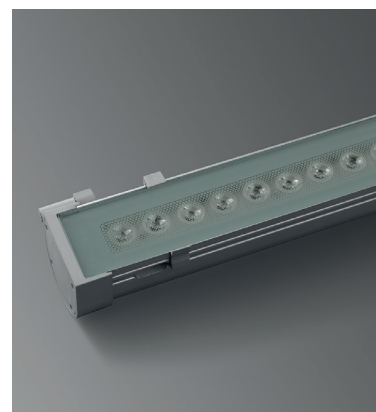
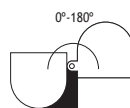
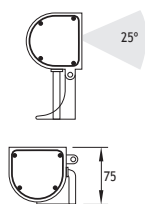
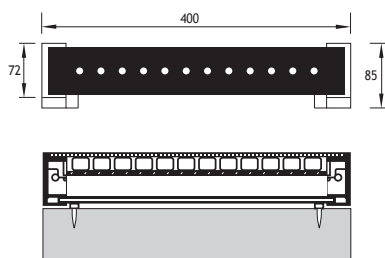
All fixtures are designed to withstand ambient temperatures of at least 50°C. The LEDs are mounted on metal core pcbs, which are mounted the aluminium body of the fixture so that the entire fixture acts as a heat sink. Extensive testing is performed in EMFA’s laboratory to ensure these values are maintained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

KARIA 1

SURFACE MOUNTED FIXTURES

Class I IP65 IK07

Available in these 2 colors

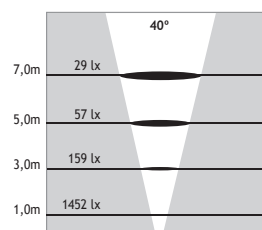
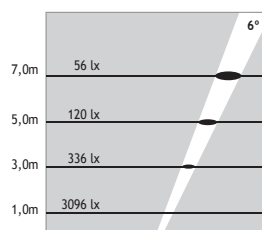
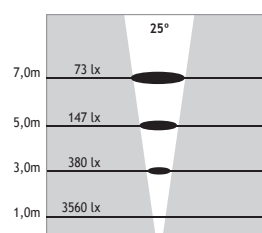
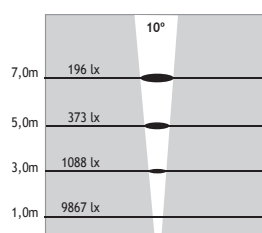


Voltage : 240 VAC with integrated driver
(24V AC or DC on request)

Lens : 10°, 25°, 40°, 6x25° elliptic

Diffuser : 4 mm Clear Glass (Frosted Glass on request)

12 x 350 mA (12 W) LED		Total Lighting Output	Code No
Warm White	3300 K	840 lm	431101
Natural White	4500 K	840 lm	431106
Cool White	6000 K	1008 lm	431107
Blue			431102
Red			431103
Amber			431104
Green			431105



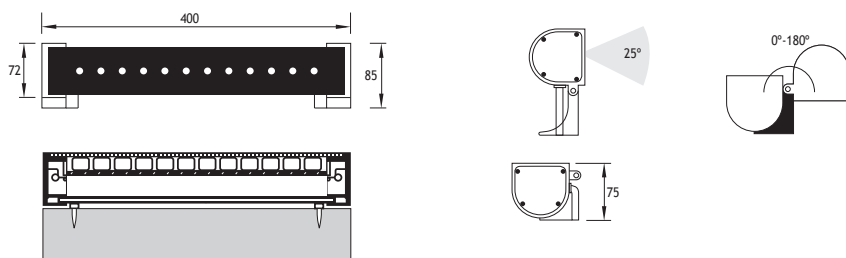
Lux levels for 3300K & 4500K

KARIA

SURFACE MOUNTED RGB FIXTURES

Class I IP65 IK07

Available in these 2 colors



KARIA 1

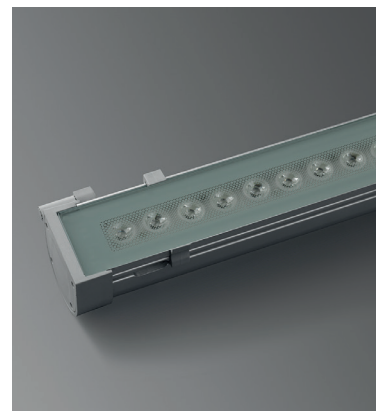
Voltage : 240 VAC with remote driver
(24V AC or DC on request)

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

Voltage : 240 V AC with remote driver

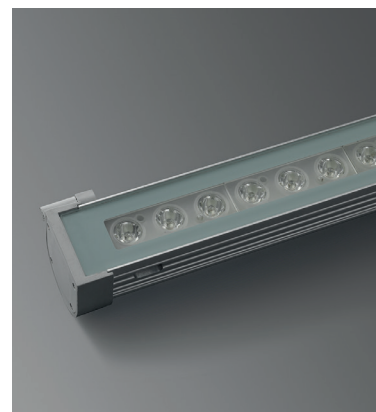
Lens : 25°, 40°

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

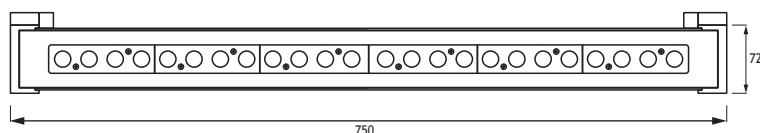
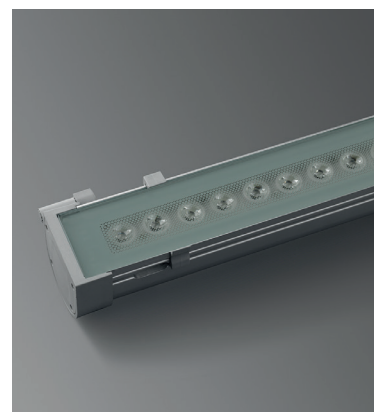
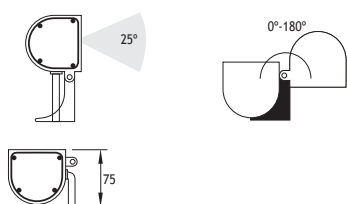


KARIA 2

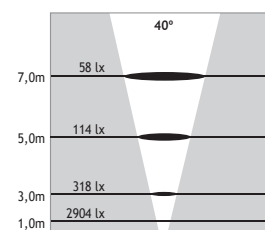
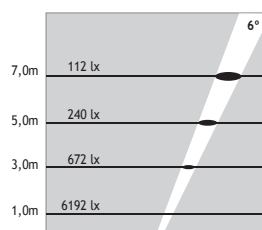
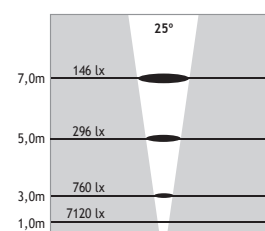
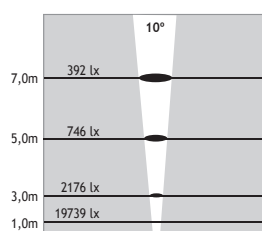
SURFACE MOUNTED LED FIXTURES

Class I IP65 IK07

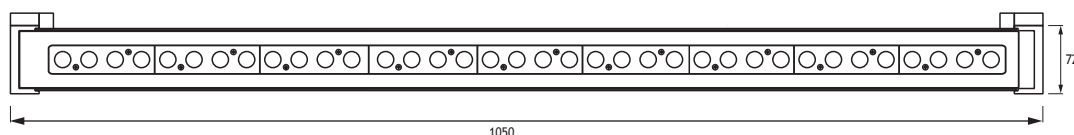
Available in these 2 colors



24 x 350 mA (24 W) LED		Total Lighting Output	Code No
Warm White	3300 K	1680 lm	431211
Natural White	4500 K	1680 lm	431216
Cool White	6000 K	2016 lm	431217
Blue			431212
Red			431213
Amber			431214
Green			431215



Lux levels for 3300K & 4500K



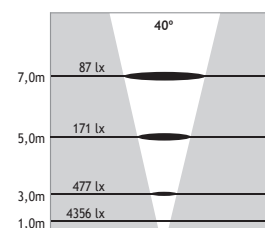
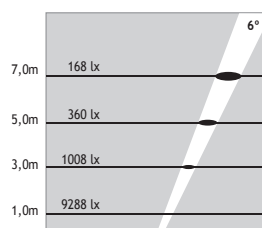
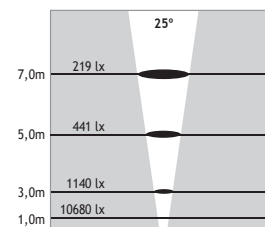
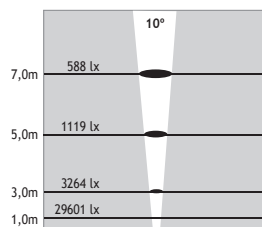
Voltage : 240 VAC with integrated driver
(24V AC or DC on request)

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	3300 K	2520 lm	431241
Natural White	4500 K	2520 lm	431242
Cool White	6000 K	3024 lm	431243
Blue			431244
Red			431245
Amber			431246
Green			431247



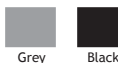
Lux levels for 3300K & 4500K

KARIA 2

SURFACE MOUNTED FIXTURES

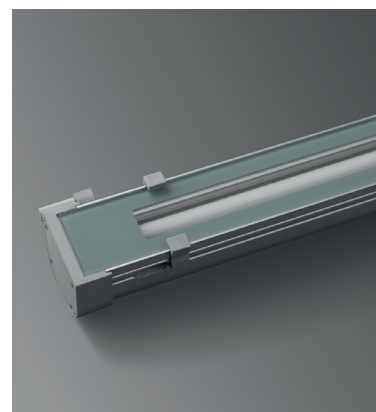
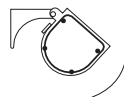
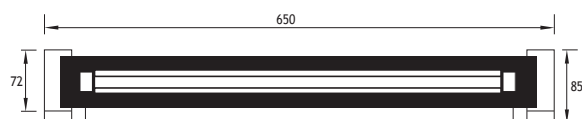
Class I IP44 IK07

Available in these 2 colors



Grey

Black



Voltage : 240V AC with integrated ballast
Diffuser : 4 mm Clear Glass
Lampholder : G5
Ballast : Electronic

T5 14W / 24W

Code No
431201

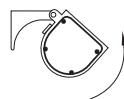
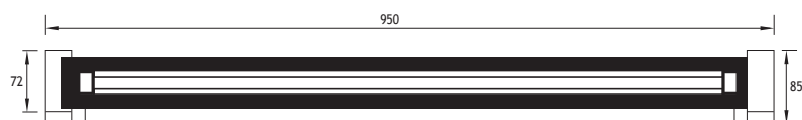


KARIA 3

SURFACE MOUNTED FIXTURES

Class I IP44 IK07

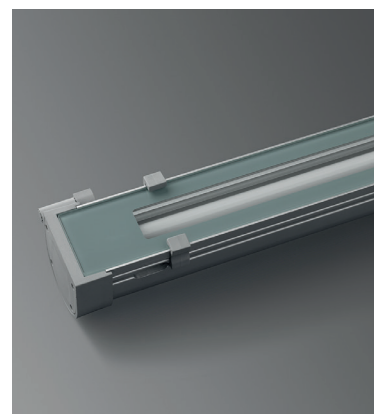
Available in these 2 colors



Voltage : 240V AC with integrated ballast
 Diffuser : 4 mm Clear Glass
 Lampholder : G5
 Ballast : Electronic

T5 21W / 39W

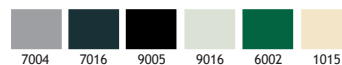
Code No
 431301



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)

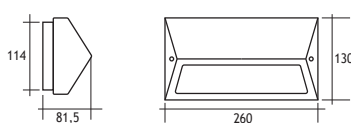
Lampholder : G24 d-1

Diffuser : Frosted Glass

Asymmetrical

1 x FLUO 9W

Code No
503501



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

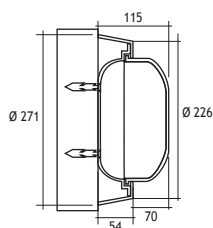
Die Cast Aluminium

Paint

Electrostatic powder paint

Diffuser

Pressed glass or polycarbonate



SIDE 1

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 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



SIDE 3

Lampholder: E27

INCANDESCENT 75W

Code No

Glass Diffuser

507101

P.C. Diffuser

507201

Lampholder: G24 d-2

FLUO. 18W

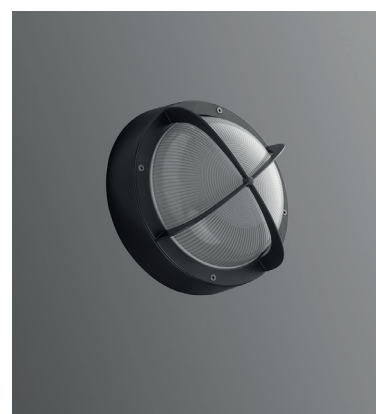
Code No

Glass Diffuser

507121

P.C. Diffuser

507221

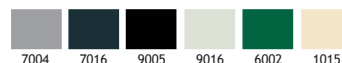


PERGE

SURFACE MOUNTED BULKHEADS

Class I IP65 IK08

Available in any
of these RAL colors



Body

Die Cast Aluminium

Cover

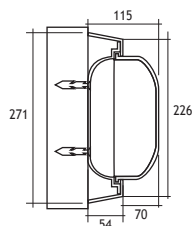
Die Cast Aluminium

Paint

Electrostatic powder paint

Diffuser

Pressed glass or polycarbonate



PERGE 1

Lampholder: E27

INCANDESCENT 75W

Code No

Glass Diffuser

515101

P.C. Diffuser

515201

Lampholder: G24 d-2

FLUO. 18W

Code No

Glass Diffuser

515121

P.C. Diffuser

515221



PERGE 2

Lampholder: E27

INCANDESCENT 75W

Code No

Glass Diffuser

516101

P.C. Diffuser

516201

Lampholder: G24 d-2

FLUO. 18W

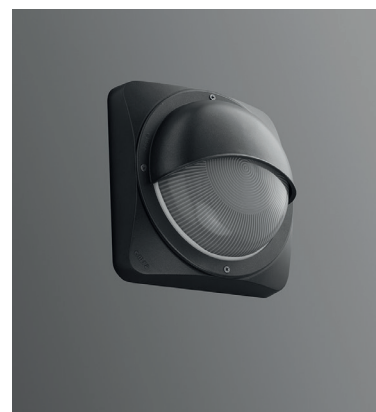
Code No

Glass Diffuser

516121

P.C. Diffuser

516221



PERGE 3

Lampholder: E27

INCANDESCENT 75W

Code No

Glass Diffuser

517101

P.C. Diffuser

517201

Lampholder: G24 d-2

FLUO. 18W

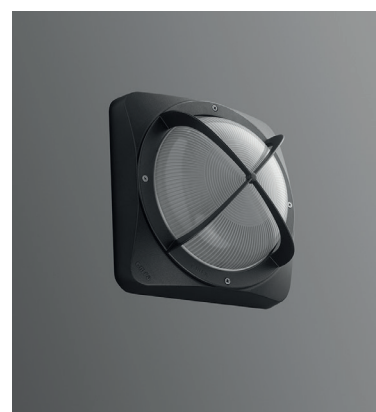
Code No

Glass Diffuser

517121

P.C. Diffuser

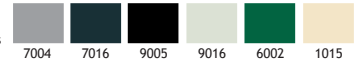
517221



MILET

SURFACE MOUNTED FIXTURES IP54

Available in any
of these RAL colors



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

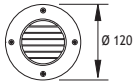
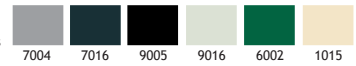


MILET

SURFACE MOUNTED FIXTURES

Class III IP54

Available in any
of these RAL colors

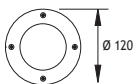
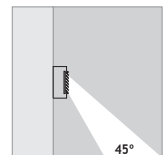
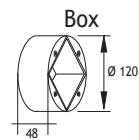


Lampholder : G9
Reflector : -
Diffuser : Clear Glass
Class III

HALOGEN 240V 25-40W

Alum
Inox

Code No
310111
311111

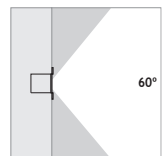
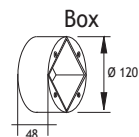


Lampholder : G9
Reflector : -
Diffuser : Frosted Glass
Class III

HALOGEN 240V 25-40W

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

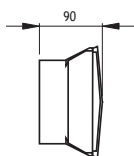
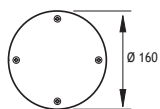
IP connection box

Gaskets

Silicone

Diffusers

Polycarbonate



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



Special Application

For room numbers, names, signs etc.
The acrylic part inside can be colour
of choice.



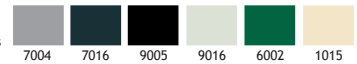
CODE NO 295115
ELECTR. CIR. FLUO. 6W

BELKIS 1 LLA

SURFACE MOUNTED LED FIXTURES

Class I IP65 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 5000K.

Body

Die cast aluminium

Paint

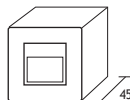
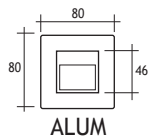
Electrostatic powder

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

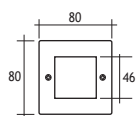
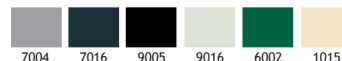
		Total Lighting Output	Code No
☀ Warm White	3300 K	92 lm	424141
☾ Natural White	5000 K	107 lm	424142



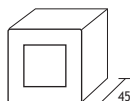
BELKIS 1 LLS

SURFACE MOUNTED LED FIXTURES Class I IP65 IK08

Available in any
of these RAL colors



ALUM



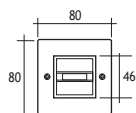
Symmetrical With Milky Glass

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

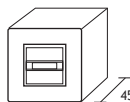
Diffuser : Milky Glass

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

			Total Lighting Output	Code No
1 x 350 mA (4 W) LED				
☀ Warm White	3300 K	128 lm	424151	
☾ Natural White	5000 K	148 lm	424152	



ALUM



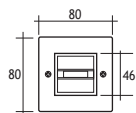
Symmetrical With Anti-Glare Glass

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

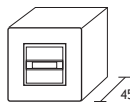
Diffuser : Anti-Glare Glass 4 mm

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

			Total Lighting Output	Code No
1 x 350 mA (4 W) LED				
☀ Warm White	3300 K	255 lm	424161	
☾ Natural White	5000 K	295 lm	424162	



ALUM



Symmetrical With 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

			Total Lighting Output	Code No
1 x 350 mA (4 W) LED				
☀ Warm White	3300 K	255 lm	424171	
☾ Natural White	5000 K	295 lm	424172	



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

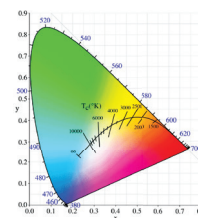
Tempered Glass

Gaskets

Silicone

Connection

IP connection box



LEDs

Only highest quality LEDs such as CREE 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.

"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.

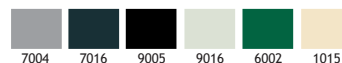


BELKIS

ONE-WAY APPLIQUES

Class I IP55 IK08

Available in any
of these RAL colors



BELKIS 1

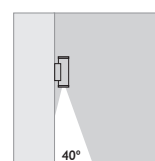
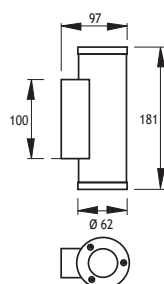
Lampholder : G9

Reflector : 40°

Diffuser : 8 mm Frosted Glass

HALOGEN 240V 25W

Code No
340101



BELKIS 2

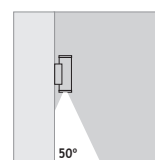
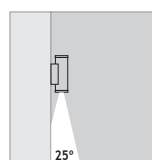
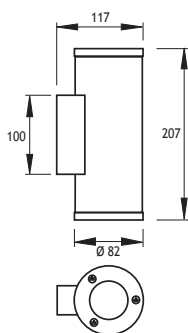
Lampholder : Gu10

Reflector : -

Diffuser : 8 mm Clear Glass

HALOGEN 240V 50W (25° or 50°)

Code No
341111



BELKIS 5

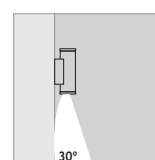
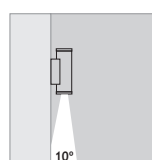
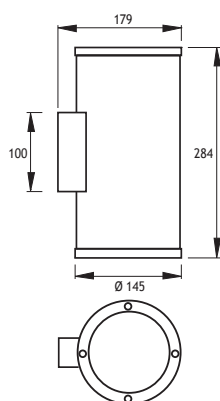
Lampholder : E27

Reflector : -

Diffuser : 8 mm Clear Glass

HALOGEN PAR 30 75W (10° or 30°)

Code No
342111

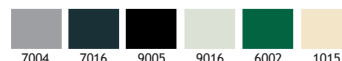


BELKIS

ONE-WAY LED APPLIQUES

Class I IP55 IK08

Available in any
of these RAL colors



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

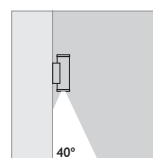
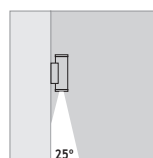
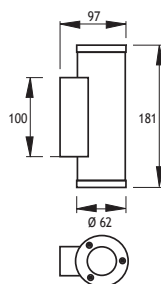
Lens : 25° (10° - 40° or without lens on request)

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

BELKIS 1

1 x 350 mA (1 W) LED

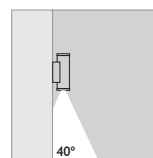
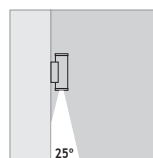
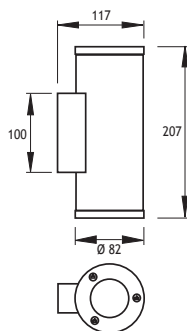
		Total Lighting Output	Code No
Warm White	3300 K	70 lm	425101
Natural White	4500 K	70 lm	425106
Cool White	6000 K	82 lm	425107
Blue			425102
Red			425103
Amber			425104
Green			425105



BELKIS 2

3 x 350 mA (3 W) LED

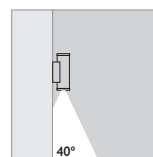
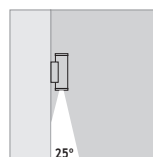
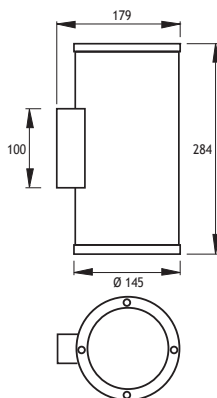
		Total Lighting Output	Code No
Warm White	3300 K	210 lm	425121
Natural White	4500 K	210 lm	425126
Cool White	6000 K	252 lm	425127
Blue			425122
Red			425123
Amber			425124
Green			425125



BELKIS 5

6 x 350 mA (6 W) LED

		Total Lighting Output	Code No
Warm White	3300 K	420 lm	425141
Natural White	4500 K	420 lm	425146
Cool White	6000 K	505 lm	425147
Blue			425142
Red			425143
Amber			425144
Green			425145



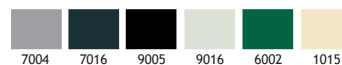


BELKIS

TWO-WAY APPLIQUES

Class I IP55 IK08

Available in any
of these RAL colors



BELKIS 1

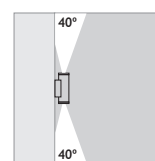
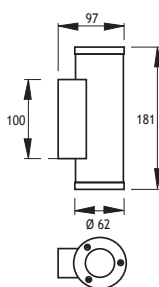
Lampholder : 2 x G9

Reflector : 40°

Diffuser : 8 mm Frosted Glass

2 x HALOGEN 240V 25W

Code No
343101



BELKIS 2

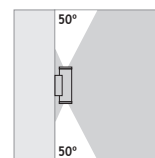
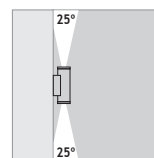
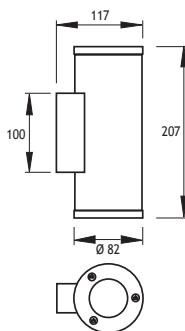
Lampholder : 2 x Gu10

Reflector : -

Diffuser : 8 mm Frosted Glass

2 x HALOGEN 240V 50W (25° or 50°)

Code No
344111



BELKIS 5

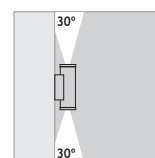
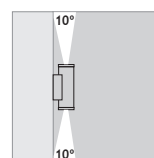
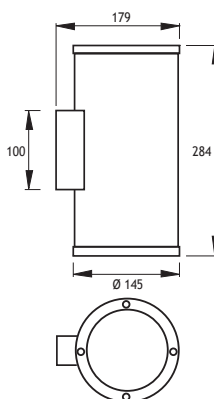
Lampholder : 2 x E27

Reflector : -

Diffuser : 8 mm Frosted Glass

2 x HALOGEN PAR 30 75W (10° or 30°)

Code No
345111

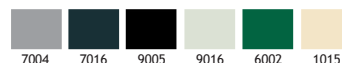


BELKIS

TWO-WAY LED APPLIQUES

Class I IP55 IK08

Available in any
of these RAL colors



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

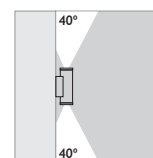
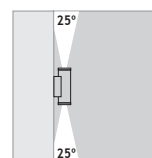
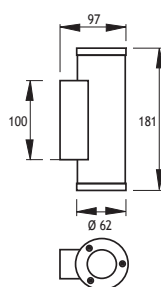
Lens : 25° (10° - 40° or without lens on request)

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

BELKIS 1

2 x 1 x 350 mA (2 W) LED

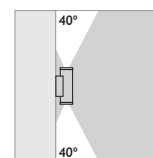
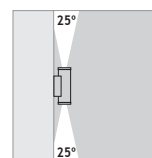
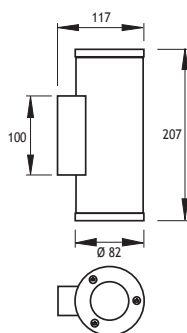
		Total Lighting Output	Code No
☀ Warm White	3300 K	70 lm	425111
☀ Natural White	4500 K	70 lm	425116
☀ Cool White	6000 K	82 lm	425117
🔵 Blue			425112
🔴 Red			425113
🟡 Amber			425114
🟢 Green			425115



BELKIS 2

2 x 3 x 350 mA (6 W) LED

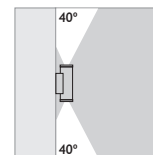
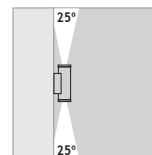
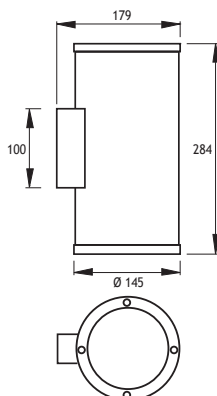
		Total Lighting Output	Code No
☀ Warm White	3300 K	210 lm	425131
☀ Natural White	4500 K	210 lm	425136
☀ Cool White	6000 K	252 lm	425137
🔵 Blue			425132
🔴 Red			425133
🟡 Amber			425134
🟢 Green			425135



BELKIS 5

2 x 6 x 350 mA (12 W) LED

		Total Lighting Output	Code No
☀ Warm White	3300 K	420 lm	425151
☀ Natural White	4500 K	420 lm	425156
☀ Cool White	6000 K	505 lm	425157
🔵 Blue			425152
🔴 Red			425153
🟡 Amber			425154
🟢 Green			425155



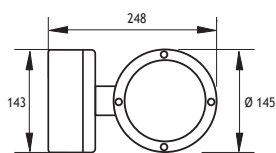
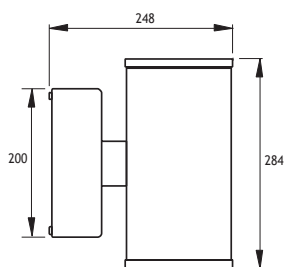
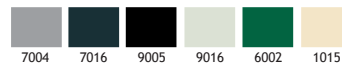


BELKIS 5

ONE-WAY APPLIQUES WITH GEARBOX

Class I IP55 IK08

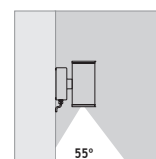
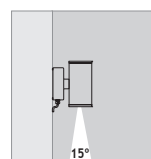
Available in any
of these RAL colors



Lampholder : G12
Reflector : 15°, 55°
Diffuser : 8 mm Clear Glass

METAL HALIDE 35W

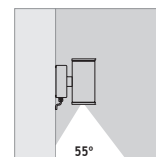
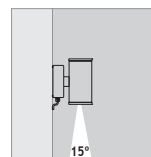
Code No
346401



Lampholder : G12
Reflector : 15°, 55°
Diffuser : 8 mm Clear Glass

METAL HALIDE 70W

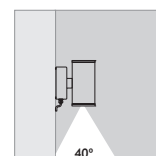
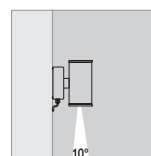
Code No
346411



Lampholder : Gx8.5
Reflector : -
Diffuser : 8 mm Clear Glass

METAL HALIDE CDM-R111 35W
(10° or 40°)

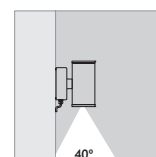
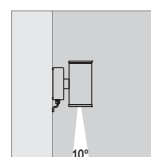
Code No
346421



Lampholder : Gx8.5
Reflector : -
Diffuser : 8 mm Clear Glass

METAL HALIDE CDM-R111 70W
(10° or 40°)

Code No
346431

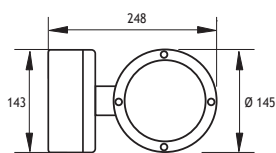
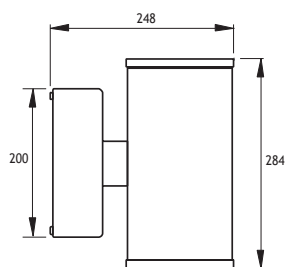
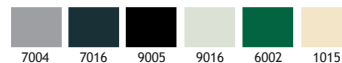


BELKIS 5

TWO-WAY APPLIQUES WITH GEARBOX

Class I IP55 IK08

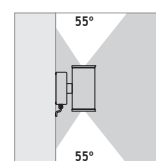
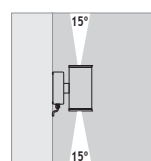
Available in any
of these RAL colors



Lampholder : 2 x G12
Reflector : 15°, 55°
Diffuser : 8 mm Clear Glass

2 x METAL HALIDE 35W

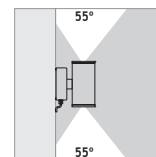
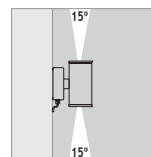
Code No
346501



Lampholder : 2 x G12
Reflector : 15°, 55°
Diffuser : 8 mm Clear Glass

2 x METAL HALIDE 70W

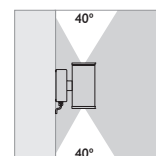
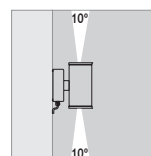
Code No
346511



Lampholder : 2 x Gx8.5
Reflector : -
Diffuser : 8 mm Clear Glass

2 x METAL HALIDE CDM-R111 35W
(10° or 40°)

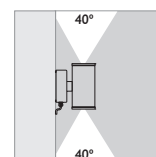
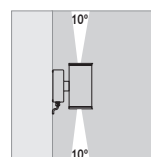
Code No
346521



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

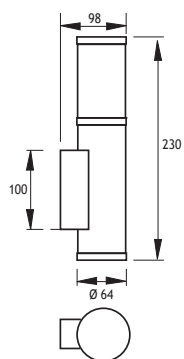
APPLIQUES

Class I IP55

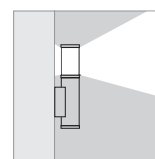
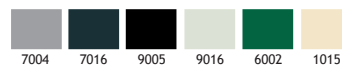
Lampholder : G24 q - 1
 Reflector : -
 Diffuser : Acrylic Pipe
 Transformer : Electronic

COMPACT FLUO. 13W

Code No
 293301



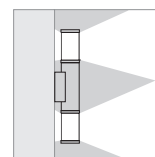
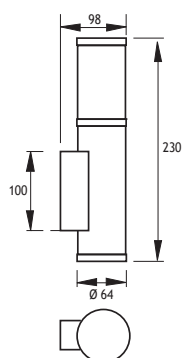
Available in any
 of these RAL colors



Lampholder : 2 x G24 q - 1
 Reflector : -
 Diffuser : Acrylic Pipe
 Transformer : Electronic

2 x COMPACT FLUO. 13W

Code No
 293401



BELKIS 1 TORCH APPLIQUES

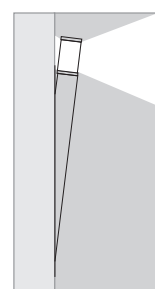
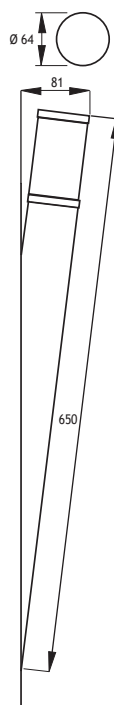
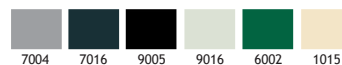
Class I IP44

Lampholder : G24 q - 1
 Reflector : -
 Diffuser : Acrylic Pipe
 Transformer : Electronic

COMPACT FLUO. 13W

Code No
 293201

Available in any
 of these RAL colors

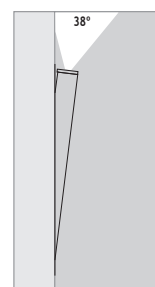
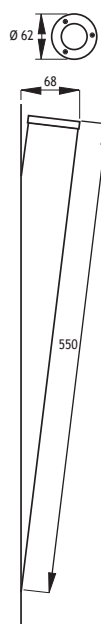


Lampholder : Gu4
 Reflector : -
 Diffuser : Acrylic Pipe

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

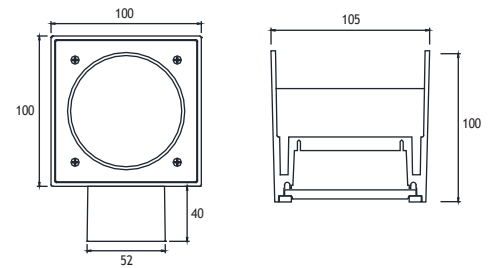
Tempered Glass or acrylic

Gaskets

Silicone

Connection

IP connection box



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

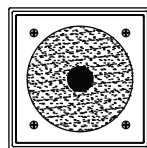
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

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

DOM LED

320 mA (11 W) LED

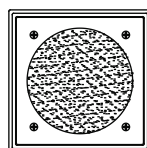
		Total Lighting Output	Code No
☀ Warm White	3000 K	925 lm	434001
☀ Natural White	4000 K	975 lm	434002



OSRAM SMD LED

350 mA (6W) LED

		Total Lighting Output	Code No
☀ 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

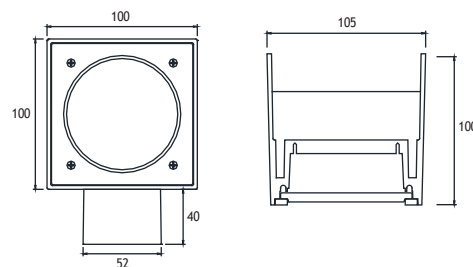
Tempered Glass

Gaskets

Silicone

Connection

IP connection box



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

Lens : 10°, 25°, 40°

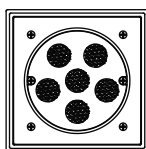
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

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

POWERLED

350 mA (6W) LED

		Total Lighting Output	Code No
☀ Warm White	3300 K	70 lm	434021
☀ Natural White	4500 K	70 lm	434022
☀ Cool White	6000 K	82 lm	434023



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

Lens : 20°, 32°, 52°

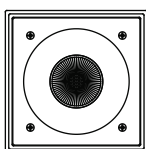
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

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

Multichip LED

350 mA (9W)

		Total Lighting Output	Code No
☀ Warm White	3000 K	672 lm	434031
☀ Natural White	4000 K	756 lm	434032



PEDESA

ROUND APPLIQUES

Class I IP55

Body

Aluminium profile

Paint

Electrostatic powder

Bracket

Die cast aluminium

Diffusers

Acrylic

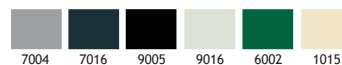
Gaskets

Silicone

Connection

IP connection box

Available in any
of these RAL colors

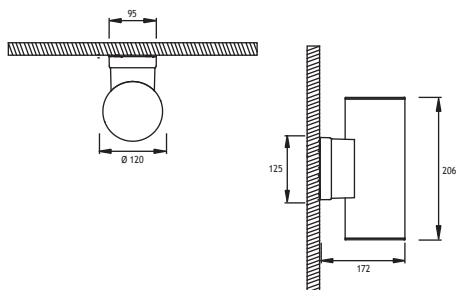


PEDESA 1 ROUND APPLIQUE

320 mA (11W) LED

Code No

☀ Warm White	3000 K	504001
☾ Natural White	4000 K	504002

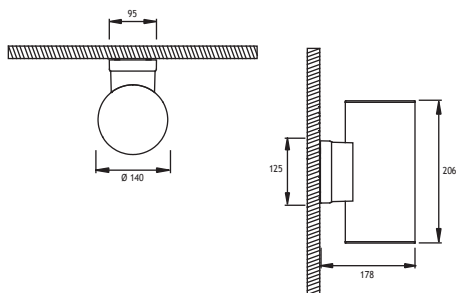


PEDESA 2 ROUND APPLIQUE

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

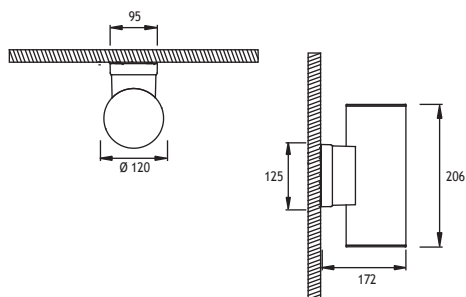


PEDESA 1 ROUND APPLIQUE

320 mA (11W) LED

Code No

☀ Warm White	3000 K	504021
☀ Natural White	4000 K	504022

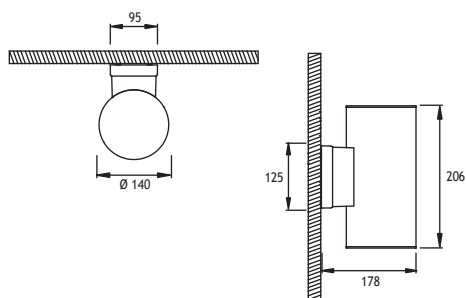


PEDESA 2 ROUND APPLIQUE

320 mA (11W) LED

Code No

☀ Warm White	3000 K	504031
☀ Natural White	4000 K	504032



PEDESA

SQUARE APPLIQUES

Class I IP55

Body

Aluminium profile

Paint

Electrostatic powder

Bracket

Die cast aluminium

Diffusers

Acrylic

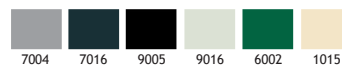
Gaskets

Silicone

Connection

IP connection box

Available in any
of these RAL colors

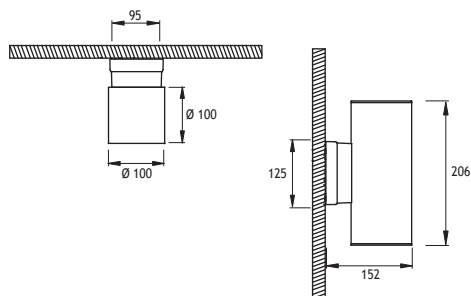


ALUMINIUM PEDESA SQUARE APPLIQUE

320 mA (11W) LED

Code No

☀ Warm White	3000 K	504041
☾ Natural White	4000 K	504042



SATURN APPLIQUES

Inner Body

Die cast aluminium

Rings

Aluminium plate

Diffuser

Polycarbonate

Gaskets

Silicone

Head & Reflector

Anodized aluminium



SATURN

APPLIQUES

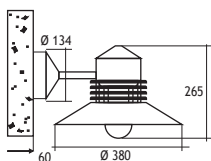
Class I IP44

SATURN 1

Lampholder : E27

INCANDESCENT 60W

Code No
525101



Lampholder : E27

ELECTRONIC FLUO. DEL 23W

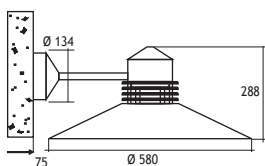
Code No
525111

SATURN 2

Lampholder : G24 d-3

FLUO. 26W

Code No
525201



SATURN 3

Lampholder : G24 q-4

FLUO. 42W

Code No
525301

