



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

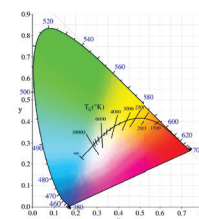
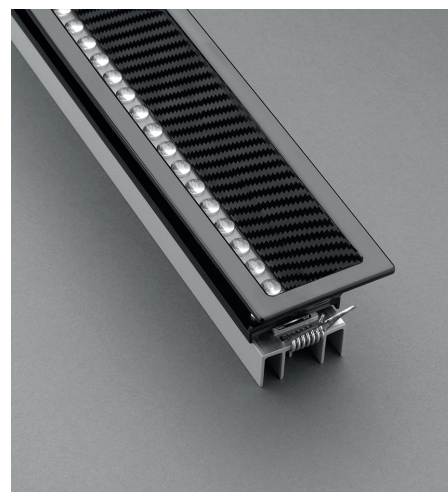
Steel

Cable

0.5 m exiting top of fixture

Gear

Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)



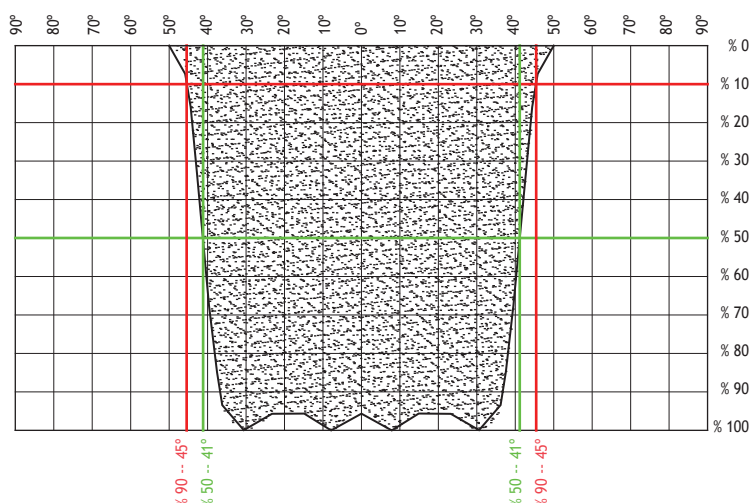
Downlight

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 Nichia and Seoul conductor are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA, 500mA 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 2016.

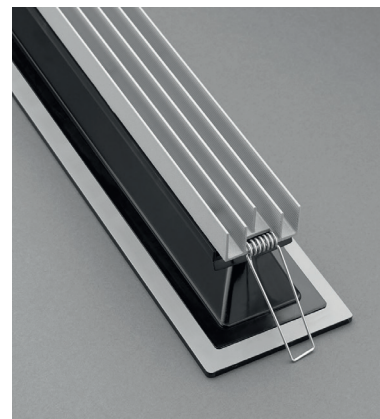
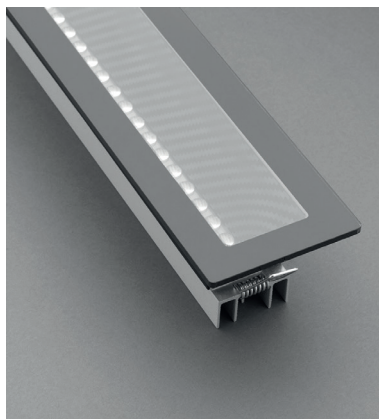
Thermal Management

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



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

PINARA 1 Clear or frosted tempered Glass

☀ Warm White 3000 K

10W - 350 mA 1050 lm Code No: 392001

15W - 500 mA 1500 lm Code No: 392002

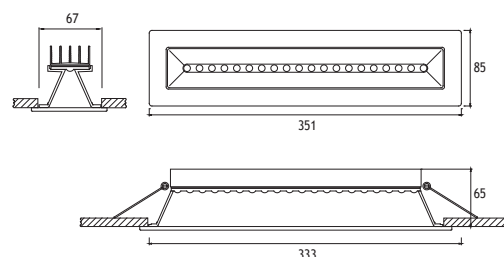
21W - 700 mA 2050 lm Code No: 392003

☀ Natural White 4000 K

10W - 350 mA 1150 lm Code No: 392011

15W - 500 mA 1600 lm Code No: 392012

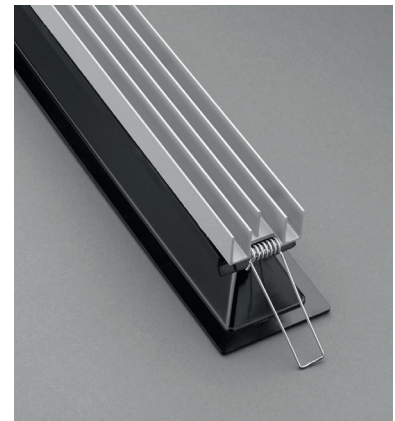
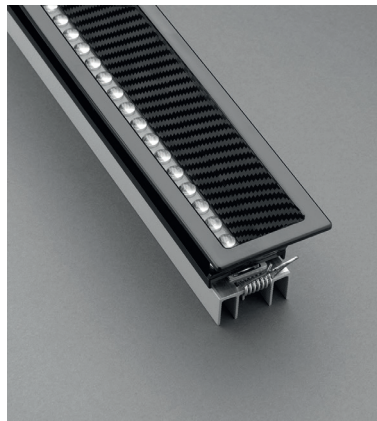
21W - 700 mA 2200 lm Code No: 392013



PINARA

LINEAR LED DOWNLIGHT

Class II IP20



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

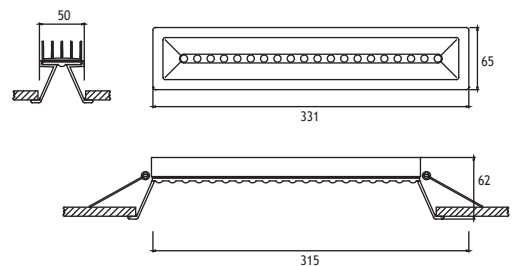
PINARA 2

☀ 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



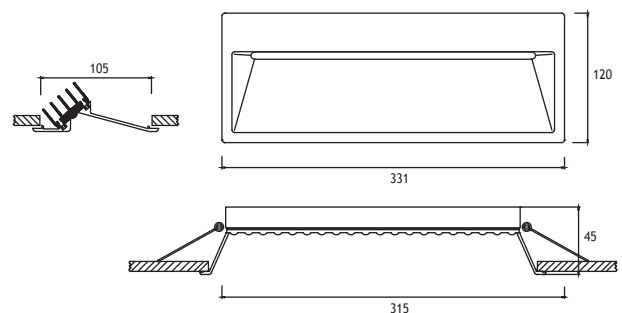
PINARA 2 ASYMMETRICAL

☀ 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

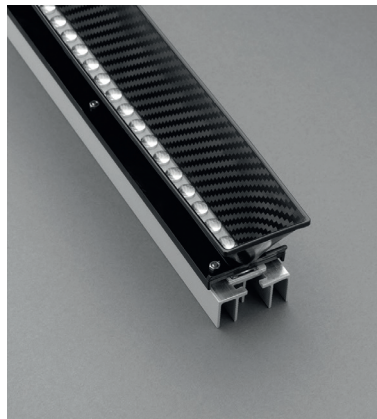
10W - 350 mA	1150 lm	Code No: 392131
15W - 500 mA	1600 lm	Code No: 392132
21W - 700 mA	2200 lm	Code No: 392133



PINARA

TRIMLESS LINEAR LED DOWNLIGHT

Class II IP20



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

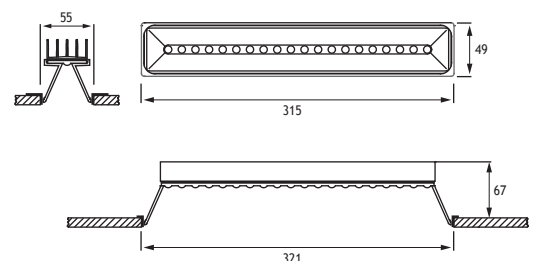
PINARA 2 TRIMLESS

☀ 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



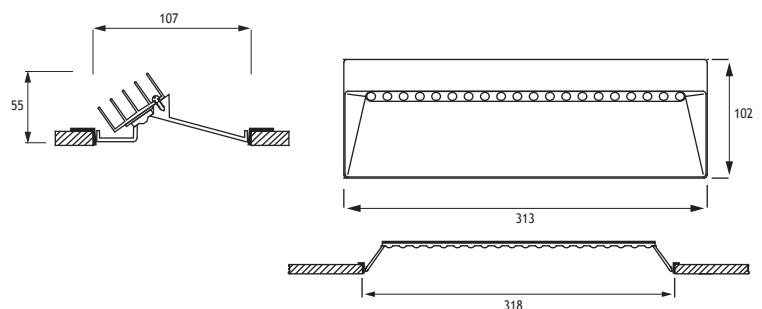
PINARA 2 ASYMMETRICAL TRIMLESS

☀ 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

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

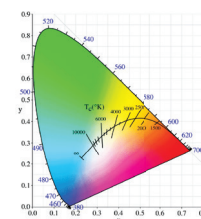
Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)

Cable

0.5m exiting from top of fixture

Available in any of these RAL colors

7004	7016	9005	9016	6002	1015
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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 Nichia and 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 2016.

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

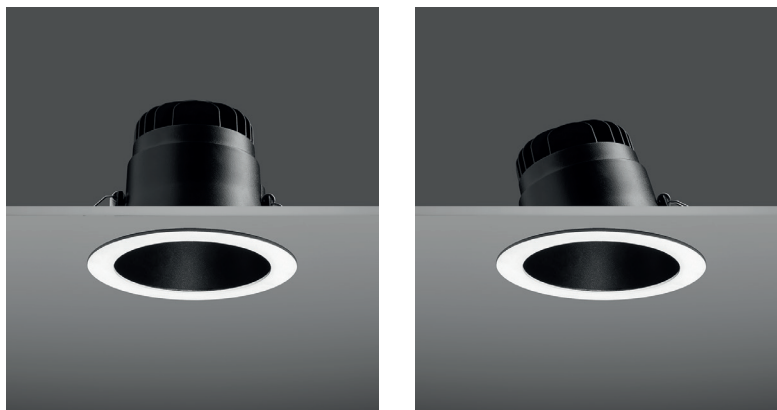
7004	7016	9005	9016	6002	1015
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Led : 350mA 13W / 700mA 24W LED (Nichia)

Reflector : 28° or 38°

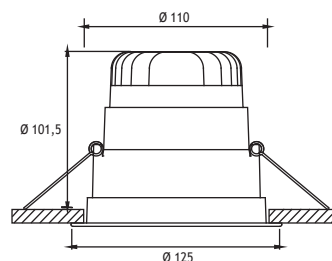
Gear : 240V Non-Dimmable Driver (1-10V Dimmable Driver & DALI Driver available on request)

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



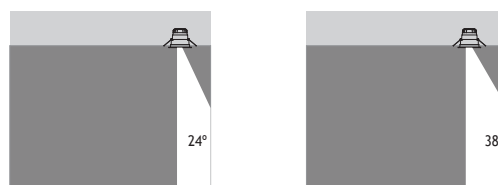
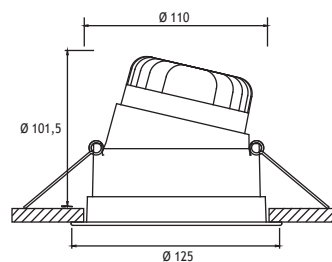
SYMMETRICAL

			Total Lighting Output	Code No
13W - 350 mA				
☪ Warm White	3000 K	1250 lm	118201	
☪ Natural White	4000 K	2100 lm	118202	
24W - 700 mA				
☪ Warm White	3000 K	2300 lm	118211	
☪ Natural White	4000 K	3000 lm	118212	



ASYMMETRICAL

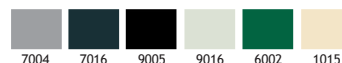
			Total Lighting Output	Code No
13W - 350 mA				
☪ Warm White	3000 K	1250 lm	118221	
☪ Natural White	4000 K	2100 lm	118222	
24W - 700 mA				
☪ Warm White	3000 K	2300 lm	118231	
☪ Natural White	4000 K	3000 lm	118232	



PENTATHLON

TRIMLESS LED DOWNLIGHT Class II IP20

Available in any
of these RAL colors



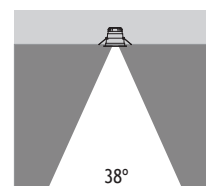
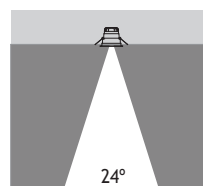
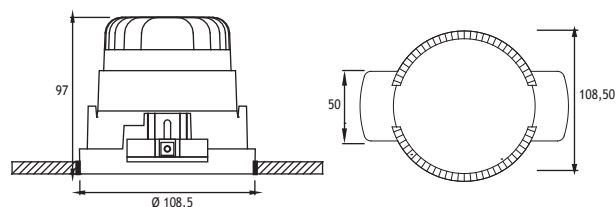
Led : 350mA 13W / 700mA 24W LED
(Nichia)
Reflector : 28° or 38°
Gear : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available
on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F



SYMMETRICAL

13W - 350 mA		Total Lighting Output	Code No
☾ Warm White	3000 K	1250 lm	118301
☼ Natural White	4000 K	2100 lm	118302

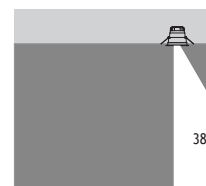
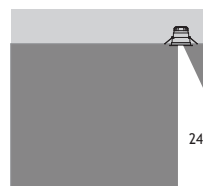
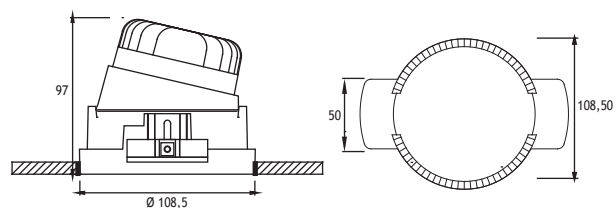
24W - 700 mA		Total Lighting Output	Code No
☾ Warm White	3000 K	2300 lm	118311
☼ Natural White	4000 K	3000 lm	118312



ASYMMETRICAL

13W - 350 mA		Total Lighting Output	Code No
☾ Warm White	3000 K	1250 lm	118321
☼ Natural White	4000 K	2100 lm	118322

24W - 700 mA		Total Lighting Output	Code No
☾ Warm White	3000 K	2300 lm	118331
☼ Natural White	4000 K	3000 lm	118332



CUNDA 1

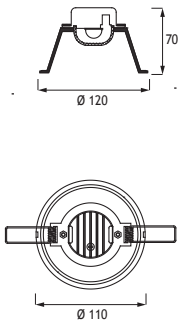
LED DOWNLIGHT

Class II IP44

- Body
 - Polycarbonate
- Diffuser
 - Acrylic
- Springs
 - Steel
- Gear
 - Electronic LED driver
- Cable
 - 0.5m exiting from top of fixture

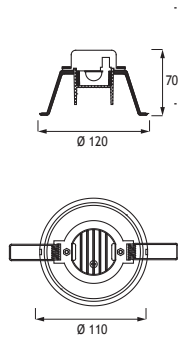
CUNDA 1 DOT

250 mA (7 W) LED		Total Lighting Output	Code No
 Warm White	3000 K	560 lm	419201
 Natural White	4000 K	590 lm	419202



CUNDA 1 HALO

250 mA (7 W) LED		Total Lighting Output	Code No
 Warm White	3000 K	490 lm	419211
 Natural White	4000 K	530 lm	419212



CUNDA 2

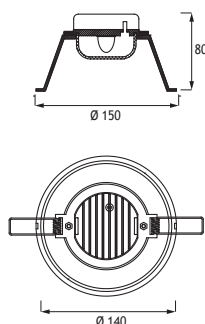
LED DOWNLIGHT

Class II IP44

Body
 Polycarbonate
Diffuser
 Acrylic
Springs
 Steel
Gear
 Electronic LED driver
Cable
 0.5m exiting from top of fixture

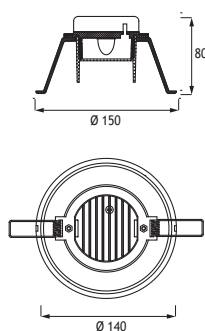
CUNDA 2 DOT

320 mA (11 W) LED		Total Lighting Output	Code No
 Warm White	3000 K	890 lm	419301
 Natural White	4000 K	925 lm	419302



CUNDA 2 HALO

320 mA (11 W) LED		Total Lighting Output	Code No
 Warm White	3000 K	790 lm	419311
 Natural White	4000 K	830 lm	419312



PATARA 1

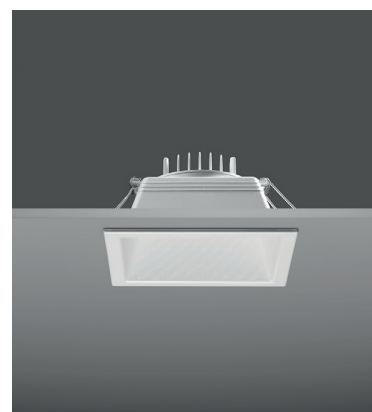
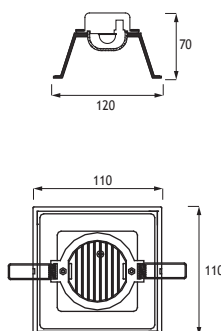
LED DOWNLIGHT

Class II IP44

Body
 Polycarbonate
Diffuser
 Acrylic
Springs
 Steel
Gear
 Electronic LED driver
Cable
 0.5m exiting from top of fixture

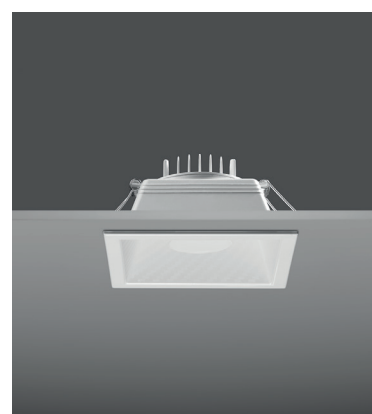
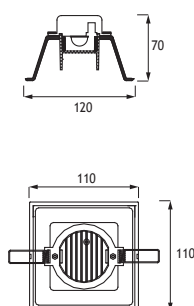
PATARA 1 DOT

250 mA (7 W) LED		Total Lighting Output	Code No
☾ Warm White	3000 K	560 lm	420301
☼ Natural White	4000 K	590 lm	420302



PATARA 1 HALO

250 mA (7 W) LED		Total Lighting Output	Code No
☾ Warm White	3000 K	490 lm	420311
☼ Natural White	4000 K	530 lm	420312



PATARA 2

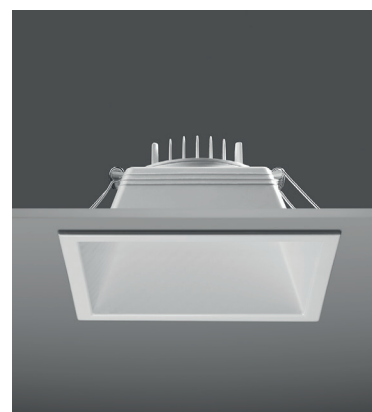
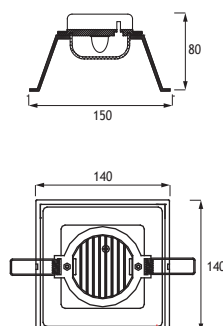
LED DOWNLIGHT

Class II IP44

Body
 Polycarbonate
Diffuser
 Acrylic
Springs
 Steel
Gear
 Electronic LED driver
Cable
 0.5m exiting from top of fixture

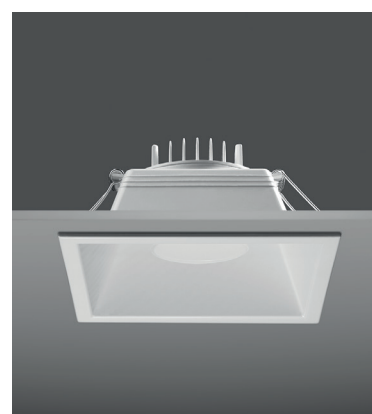
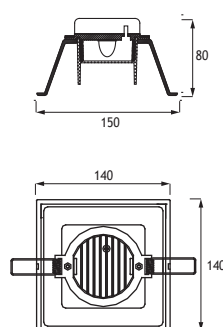
PATARA 2 DOT

320 mA (11 W) LED		Total Lighting Output	Code No
☾ Warm White	3000 K	890 lm	420401
☼ Natural White	4000 K	925 lm	420402



PATARA 2 HALO

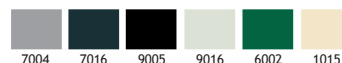
320 mA (11 W) LED		Total Lighting Output	Code No
☾ Warm White	3000 K	790 lm	420411
☼ Natural White	4000 K	830 lm	420412



DOT LED DOWNLIGHT

Class II IP44

Available in any
of these RAL colors



Body

Aluminium

Paint

Electrostatic powder

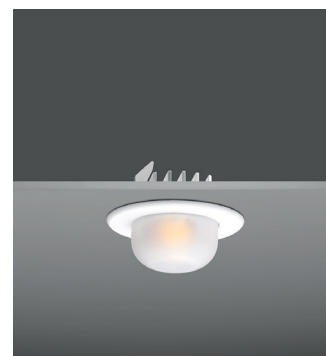
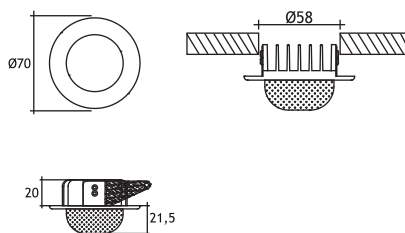
Glass

Acrylic

DOWNLIGHT DOT SPOT

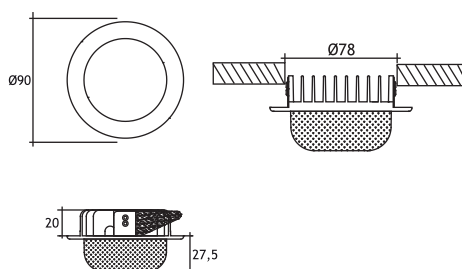
250 mA (7 W) LED

		Total Lighting Output	Code No
☀ Warm White	3000 K	600 lm	112301
☀ Natural White	4000 K	640 lm	112302



350 mA (11 W) LED

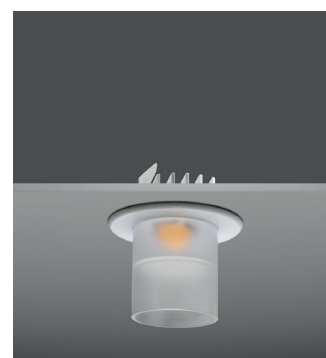
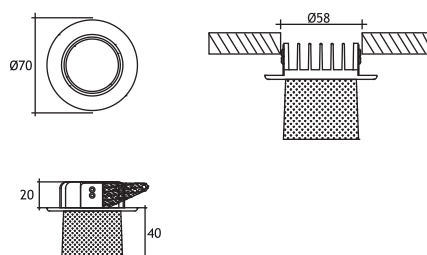
		Total Lighting Output	Code No
☀ Warm White	3000 K	925 lm	112311
☀ Natural White	4000 K	975 lm	112312



DOWNLIGHT HALO SPOT

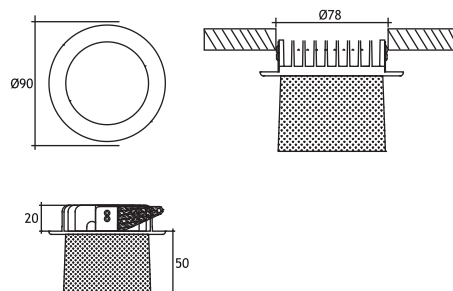
250 mA (7 W) LED

		Total Lighting Output	Code No
☀ Warm White	3000 K	540 lm	112401
☀ Natural White	4000 K	580 lm	112402



350 mA (11 W) LED

		Total Lighting Output	Code No
☀ Warm White	3000 K	830 lm	112411
☀ Natural White	4000 K	880 lm	112412

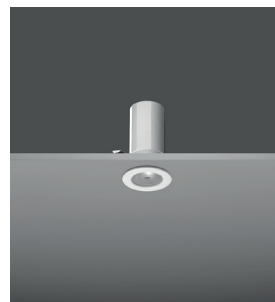
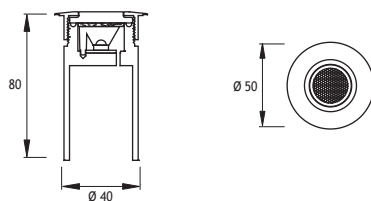


BELKIS MINI

LED DOWNLIGHT

Class I IP65

Cover
316L 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	3300 K	70 lm	297001
 Natural White	4500 K	70 lm	297002
 Cool White	6000 K	82 lm	297003

1 x 700 mA (3 W) LED		Total Lighting Output	Code No
 Warm White	3300 K	150 lm	297021
 Natural White	4500 K	150 lm	297022
 Cool White	6000 K	165 lm	297023

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

3 x 350 mA (3 W) RGB LED	Code No
	297041

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 of 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

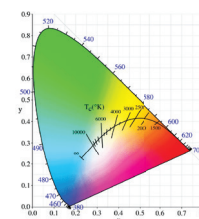


Application

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 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.

MARATHON 2

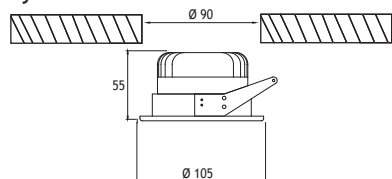
LED DOWNLIGHT

Class II IP65 IK10

Available in any of these RAL colors

9016	9005	7016	7004	1015
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Symmetrical



- Led** : Multichip CREE LED (350-700mA)
- Reflector** : 20°, 32°, 52° 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



9W - 350mA		Total Lighting Output	Code No
☀ Warm White	2700 K	588 lm	260101

☀ Warm White	3000 K	672 lm	Code No 260102
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☀ Natural White	4000 K	756 lm	260103
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13W - 500mA		Total Lighting Output	Code No
☀ Warm White	2700 K	672 lm	260111

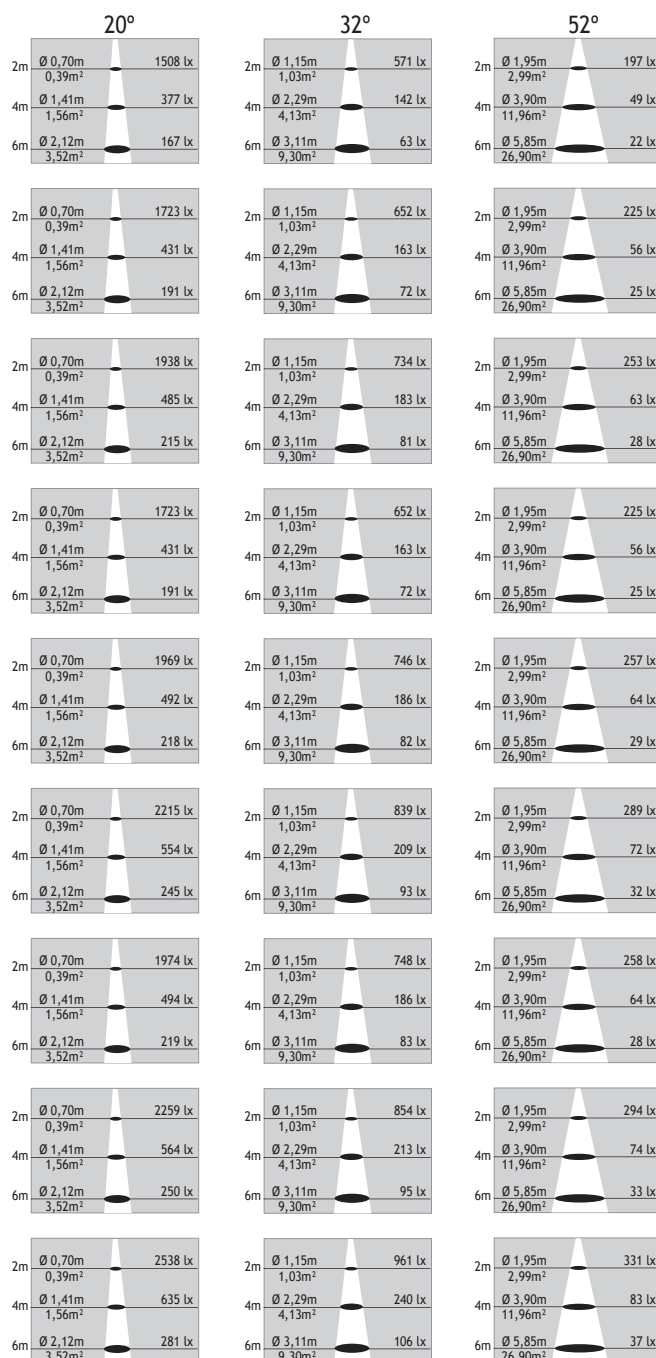
☀ Warm White	3000 K	768 lm	260112
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☀ Natural White	4000 K	864 lm	260113
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19W - 700mA		Total Lighting Output	Code No
☀ Warm White	2700 K	770 lm	260121

☀ Warm White	3000 K	880 lm	260122
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☀ Natural White	4000 K	990 lm	260123
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MARATHON 3

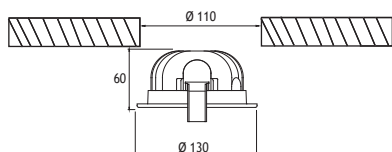
LED DOWNLIGHT

Class II IP65 IK10

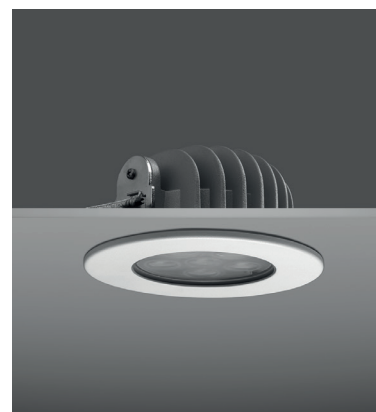
Available in any
of these RAL colors



Symmetrical

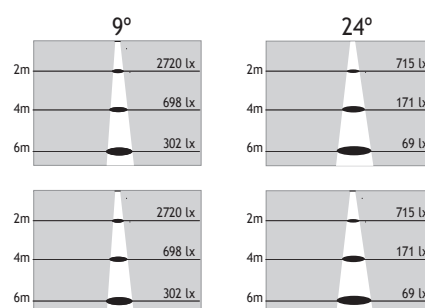


Lens : 10°, 25°, 40°
Diffuser : Clear Glass 8 mm (Frosted Glass on request)
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver & DALI Driver available on request)
Springs : Stainless Steel for mounting in ceilings of 1-25 mm
Cable : 0,5 m 2x0,75 mm H03 VV-F



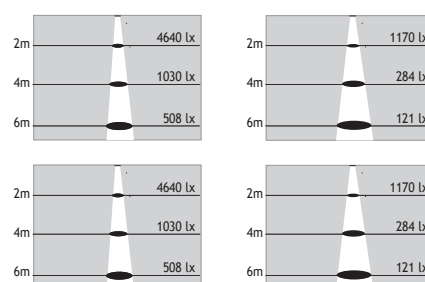
6 x 350mA (6W)
 ☀ Warm White 3300 K 420 lm
 Total Lighting Output 420 lm
 Code No 261001

☾ Natural White 4500 K 420 lm
 Code No 261002



6 x 700mA (18W)
 ☀ Warm White 3300 K 900 lm
 Total Lighting Output 900 lm
 Code No 261011

☾ Natural White 4500 K 900 lm
 Code No 261012

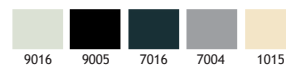


MARATHON 4

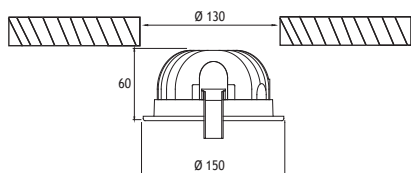
LED DOWNLIGHT

Class II IP65 IK10

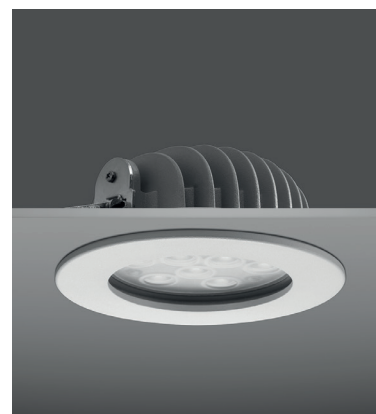
Available in any
of these RAL colors



Symmetrical



- Lens** : 10°, 25°, 40°
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

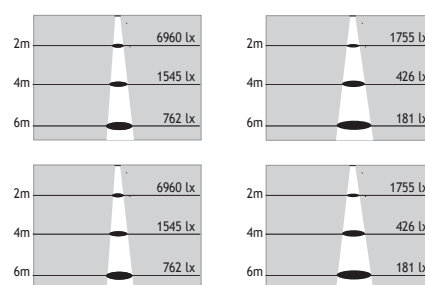
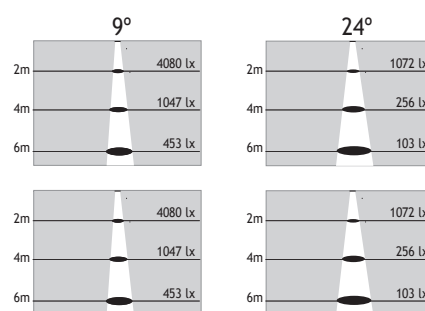


9 x 350mA (9W)		Total Lighting Output	Code No
☀ Warm White	3300 K	630 lm	262001

☀ Natural White	4500 K	630 lm	262002
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9 x 700mA (27W)		Total Lighting Output	Code No
☀ Warm White	3300 K	1350 lm	262021

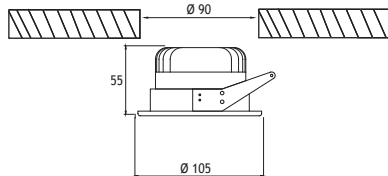
☀ Natural White	4500 K	1350 lm	262022
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MARATHON 2 GLASS

LED DOWNLIGHT
Class II IP65 IK10

Symmetrical



- Led** : Multichip CREE LED (350-700mA)
Reflector : 20°, 32°, 52° Aluminium-Coated Polycarbonate Reflector
Diffuser : Painted Glass 8 mm
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



9W - 350mA		Total Lighting Output	Code No
☀ Warm White	2700 K	588 lm	263001

☀ Warm White	3000 K	672 lm	263002
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☀ Natural White	4000 K	756 lm	263003
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13W - 500mA		Total Lighting Output	Code No
☀ Warm White	2700 K	672 lm	263011

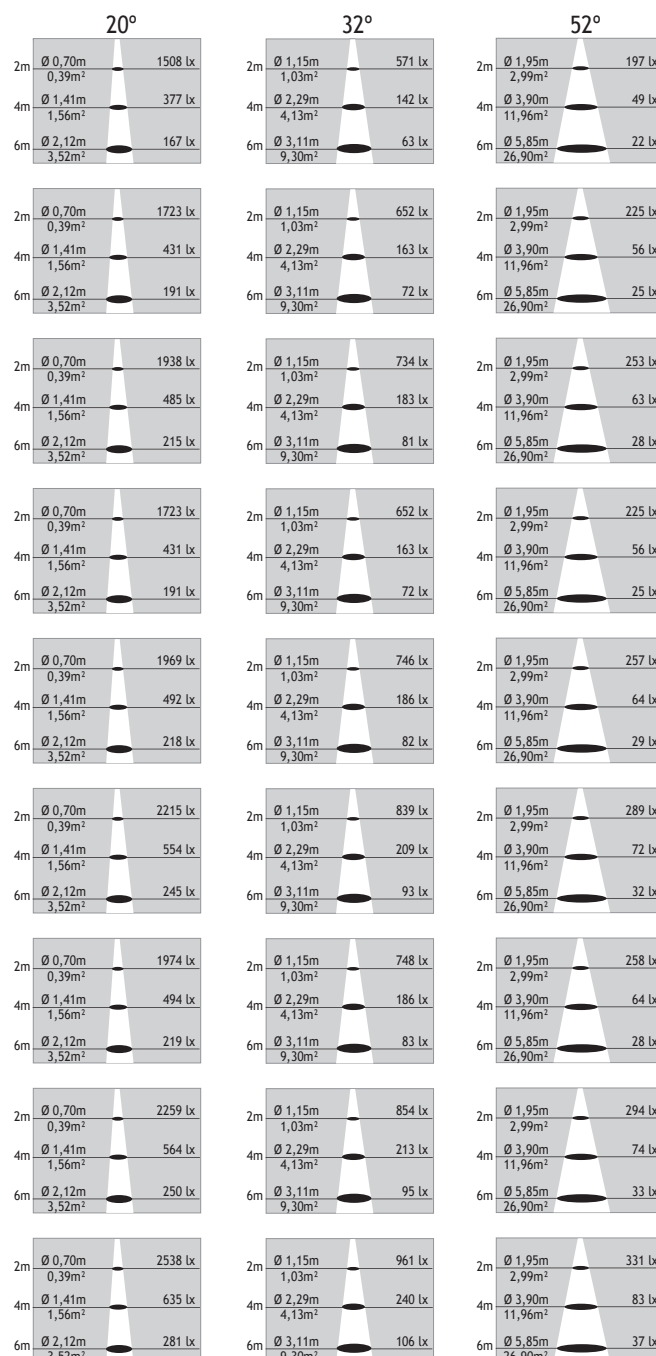
☀ Warm White	3000 K	768 lm	263012
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☀ Natural White	4000 K	864 lm	263013
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19W - 700mA		Total Lighting Output	Code No
☀ Warm White	2700 K	770 lm	263021

☀ Warm White	3000 K	880 lm	263022
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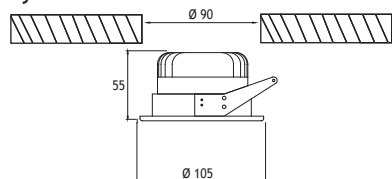
☀ Natural White	4000 K	990 lm	263023
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MARATHON 2 GLASS

LED DOWNLIGHT Class II IP65 IK10

Symmetrical



- Led** : Multichip CREE LED (350-700mA)
- Reflector** : 20°, 32°, 52° Aluminium-Coated Polycarbonate Reflector
- Diffuser** : Painted Glass 8 mm
- 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



9W - 350mA		Total Lighting Output	Code No
☀ Warm White	2700 K	588 lm	263101

☀ Warm White	3000 K	672 lm	263102
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☀ Natural White	4000 K	756 lm	263103
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13W - 500mA		Total Lighting Output	Code No
☀ Warm White	2700 K	672 lm	263111

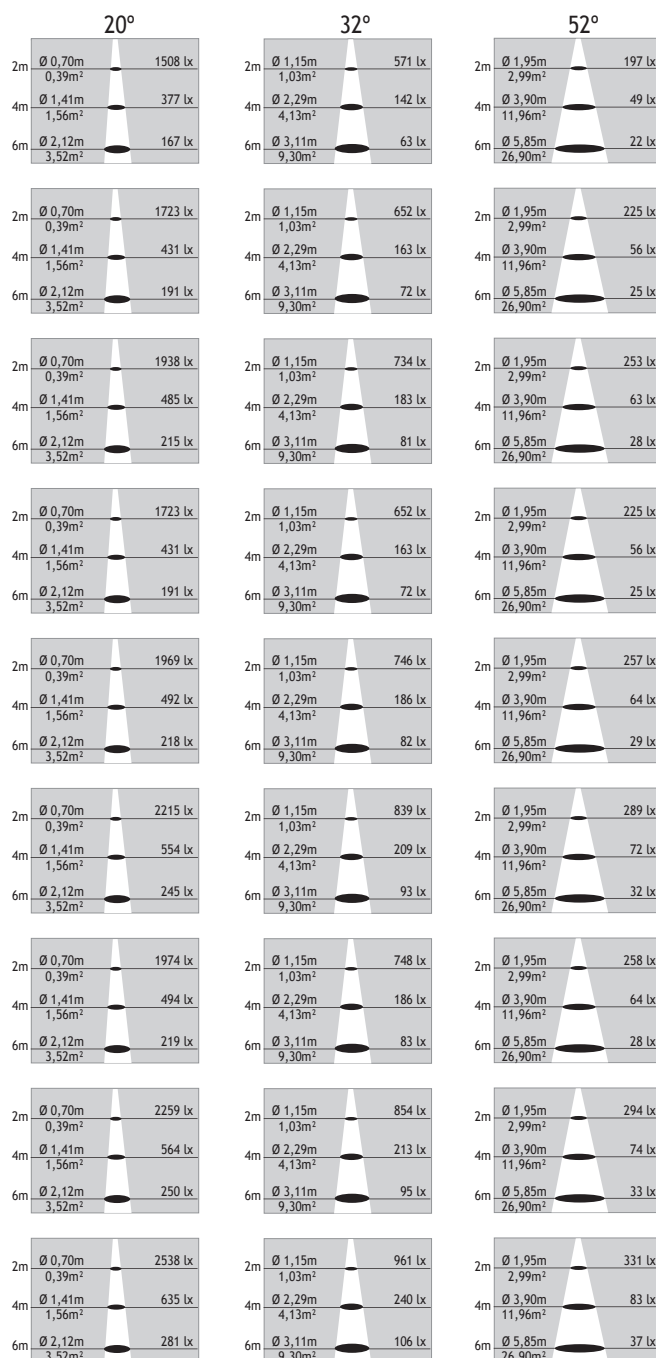
☀ Warm White	3000 K	768 lm	263112
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☀ Natural White	4000 K	864 lm	263113
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19W - 700mA		Total Lighting Output	Code No
☀ Warm White	2700 K	770 lm	263121

☀ Warm White	3000 K	880 lm	263122
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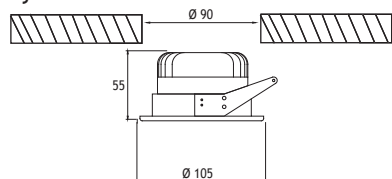
☀ Natural White	4000 K	990 lm	263123
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MARATHON 2 GLASS

LED DOWNLIGHT
Class II IP65 IK10

Symmetrical



- Led** : Multichip CREE LED (350-700mA)
- Reflector** : 20°, 32°, 52° Aluminium-Coated Polycarbonate Reflector
- Diffuser** : Painted Glass 8 mm
- 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



9W - 350mA		Total Lighting Output	Code No
☀ Warm White	2700 K	588 lm	263201

☀ Warm White	3000 K	672 lm	263202
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☀ Natural White	4000 K	756 lm	263203
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13W - 500mA		Total Lighting Output	Code No
☀ Warm White	2700 K	672 lm	263211

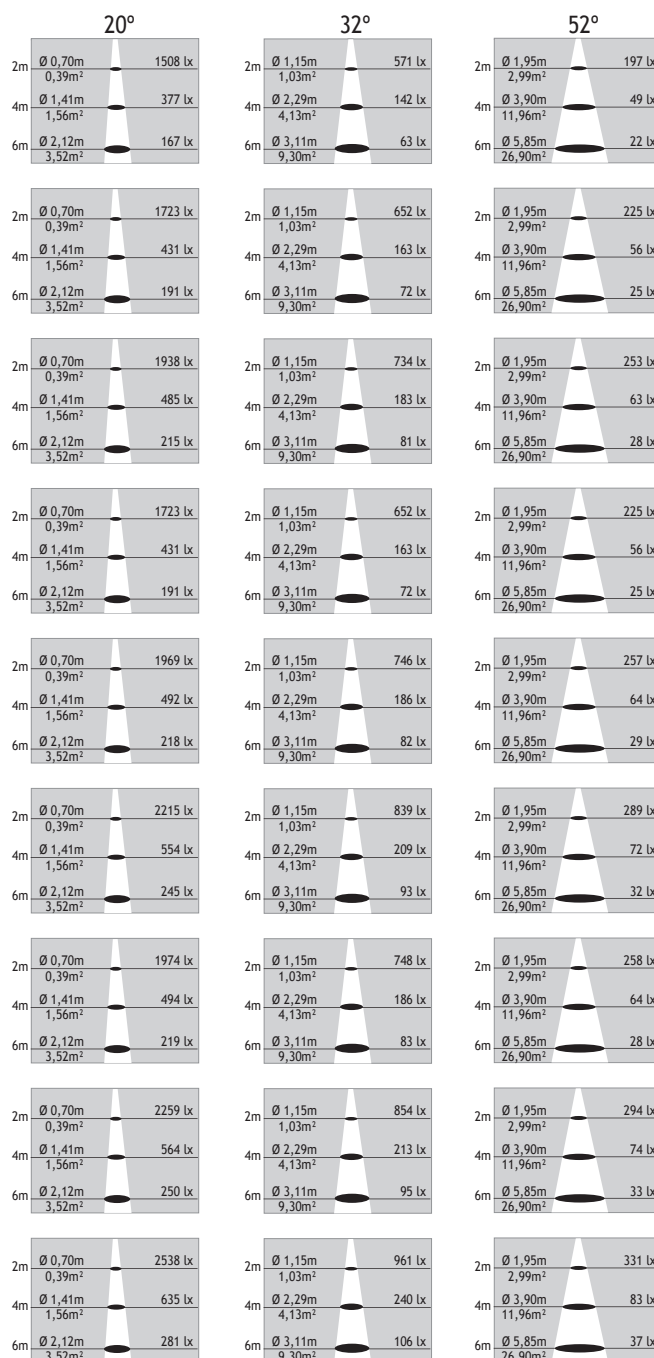
☀ Warm White	3000 K	768 lm	263212
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☀ Natural White	4000 K	864 lm	263213
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19W - 700mA		Total Lighting Output	Code No
☀ Warm White	2700 K	770 lm	263221

☀ Warm White	3000 K	880 lm	263222
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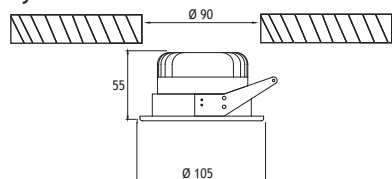
☀ Natural White	4000 K	990 lm	263223
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MARATHON 2 GLASS

LED DOWNLIGHT
Class II IP65 IK10

Symmetrical



- Led** : Multichip CREE LED (350-700mA)
- Reflector** : 20°, 32°, 52° Aluminium-Coated Polycarbonate Reflector
- Diffuser** : Painted Glass 8 mm
- 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



9W - 350mA		Total Lighting Output	Code No
☀ Warm White	2700 K	588 lm	263301

☀ Warm White	3000 K	672 lm	263302
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☀ Natural White	4000 K	756 lm	263303
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13W - 500mA		Total Lighting Output	Code No
☀ Warm White	2700 K	672 lm	263311

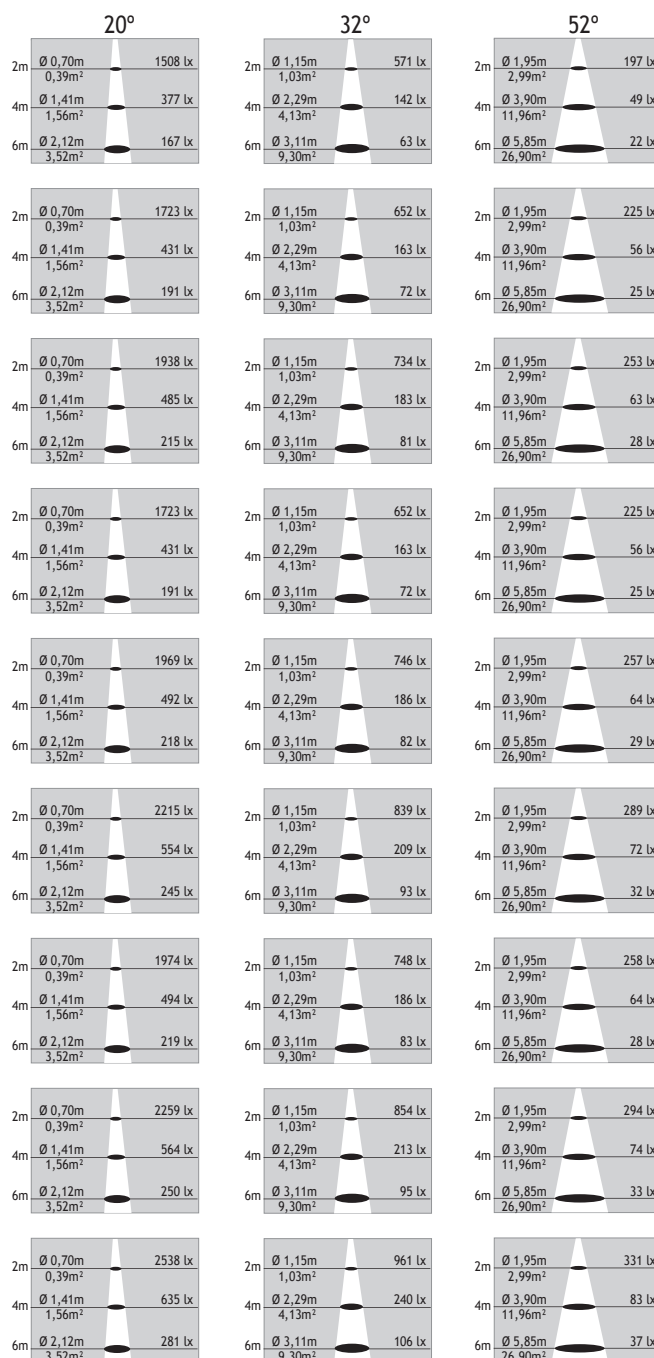
☀ Warm White	3000 K	768 lm	263312
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☀ Natural White	4000 K	864 lm	263313
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19W - 700mA		Total Lighting Output	Code No
☀ Warm White	2700 K	770 lm	263321

☀ Warm White	3000 K	880 lm	263322
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☀ Natural White	4000 K	990 lm	263323
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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 of frosted tempered Glass

Springs

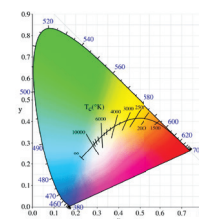
Stainless steel for mounting in ceilings or 1-25 mm (with plastic covers for the Marathon 2 Downlight)

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 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.

DECATHLON 2

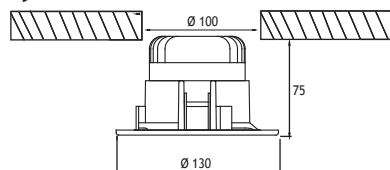
LED DOWNLIGHT

Class II IP65 IK10

Available in any of these RAL colors

9016	9005	7016	7004	1015
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Symmetrical



Led : Multichip CREE LED (350-700mA)
Reflector : 20°, 32°, 52° 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



9W - 350mA

Warm White 2700 K 588 lm 260201

Warm White 3000 K 672 lm 260202

Natural White 4000 K 756 lm 260203

13W - 500mA

Warm White 2700 K 672 lm 260211

Warm White 3000 K 768 lm 260212

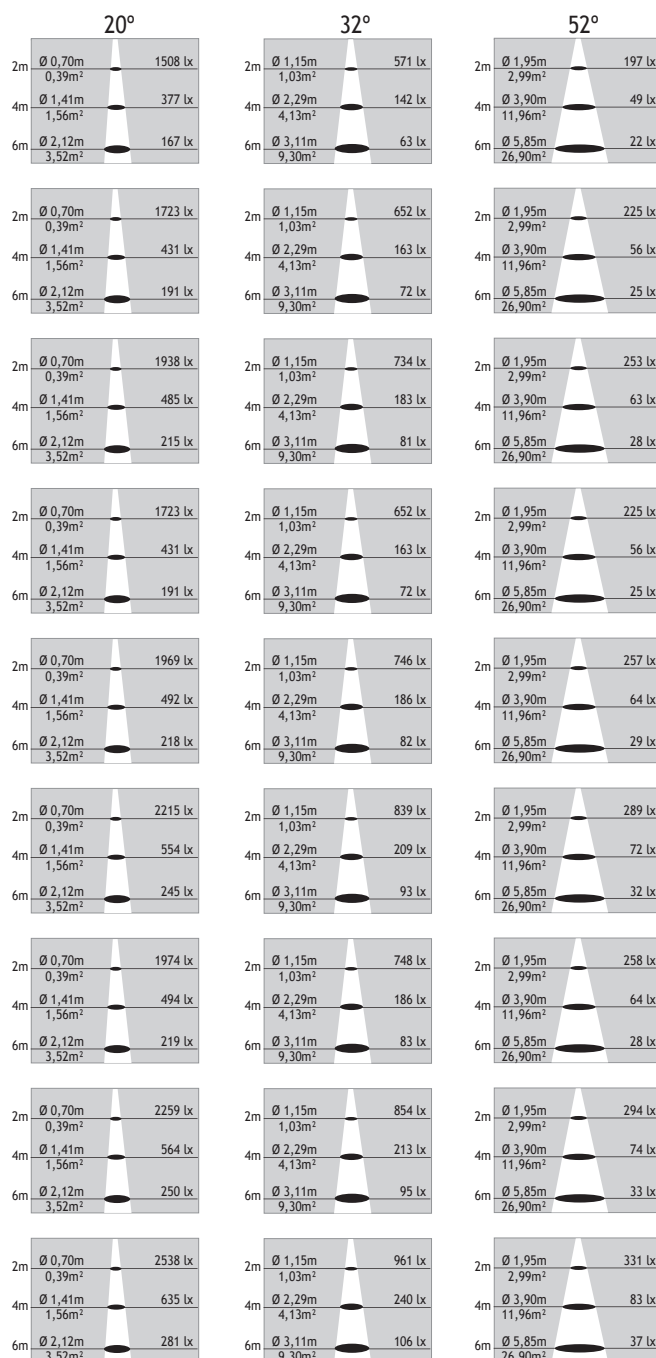
Natural White 4000 K 864 lm 260213

19W - 700mA

Warm White 2700 K 770 lm 260221

Warm White 3000 K 880 lm 260222

Natural White 4000 K 990 lm 260223



DECATHLON 2

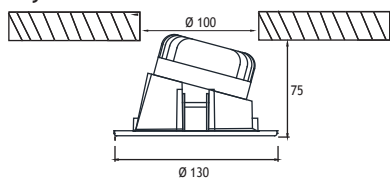
LED DOWNLIGHT

Class I IP65 IK10

Available in any of these RAL colors

9016	9005	7016	7004	1015
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Asymmetrical



Led : Multichip CREE LED (350-700mA)
Reflector : 20°, 32°, 52° 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



9W - 350mA		Total Lighting Output	Code No
☀ Warm White	2700 K	588 lm	260231

☀ Warm White	3000 K	672 lm	260232
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☀ Natural White	4000 K	756 lm	260233
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13W - 500mA			
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☀ Warm White	2700 K	672 lm	260241
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☀ Warm White	3000 K	768 lm	260242
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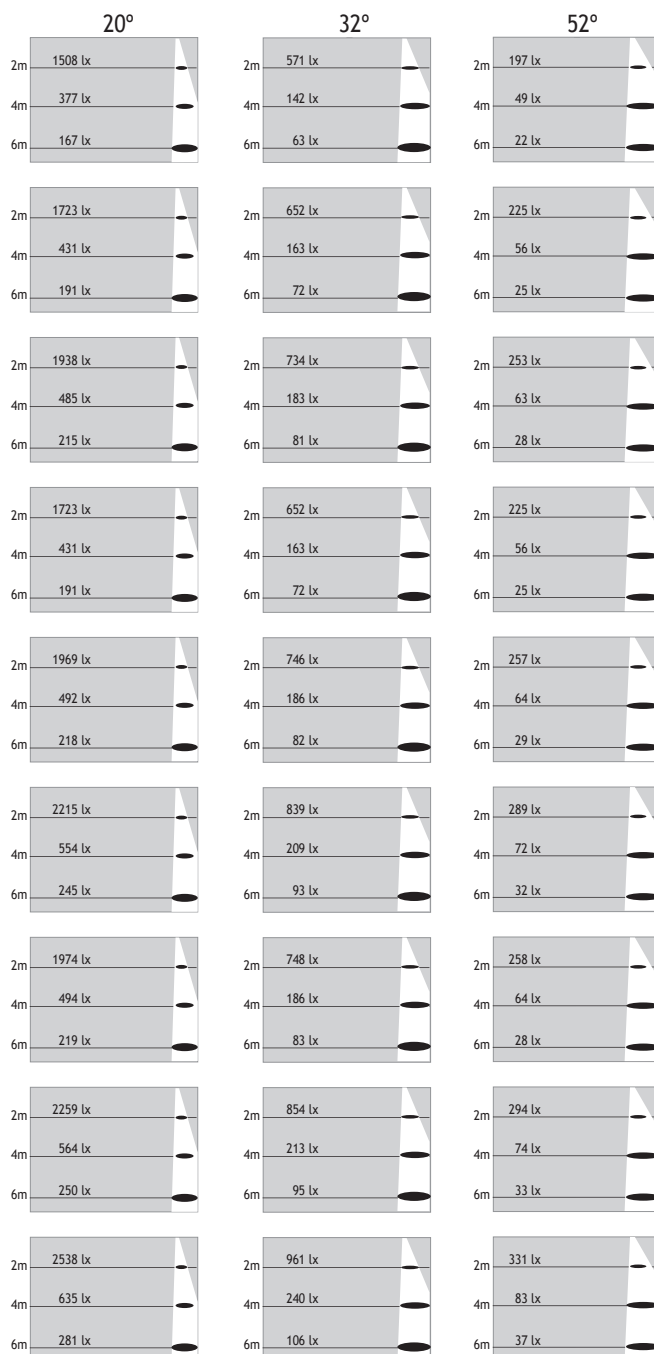
☀ Natural White	4000 K	864 lm	260243
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19W - 700mA			
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☀ Warm White	2700 K	770 lm	260251
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☀ Warm White	3000 K	880 lm	260252
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☀ Natural White	4000 K	990 lm	260253
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DECATHLON 3

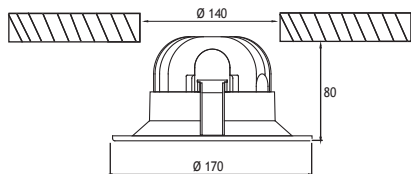
LED DOWNLIGHT

Class II IP65 IK10

Available in any
of these RAL colors



Symmetrical



- Lens** : 10°, 25°, 40°
- 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

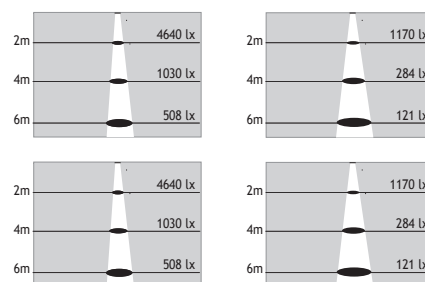
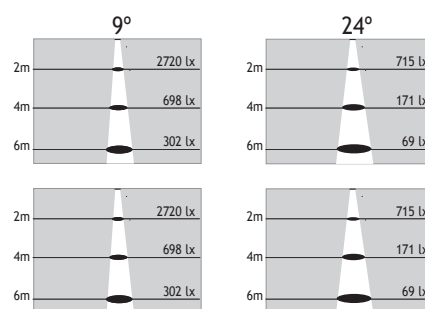


6 x 350mA (6W)		Total Lighting Output	Code No
Warm White	3300 K	420 lm	266001

Natural White	4500 K	420 lm	266003
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6 x 700mA (18W)		Total Lighting Output	Code No
Warm White	3300 K	900 lm	266021

Natural White	4500 K	900 lm	266023
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DECATHLON 3

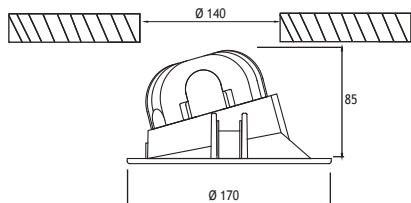
LED DOWNLIGHT

Class II IP65 IK10

Available in any
of these RAL colors



Asymmetrical 15° Tilted



- Lens** : 10°, 25°, 40°
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

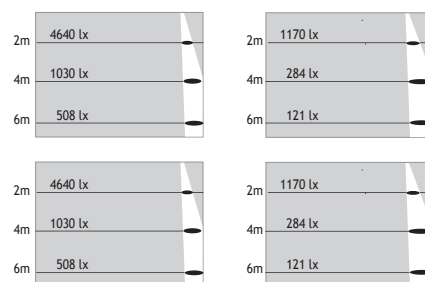
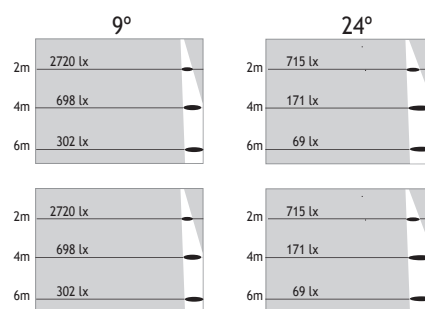


6 x 350mA (6W)		Total Lighting Output	Code No
☀ Warm White	3300 K	420 lm	266101

☀ Natural White	4500 K	420 lm	266103
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6 x 700mA (18W)			Code No
☀ Warm White	3300 K	900 lm	266121

☀ Natural White	4500 K	900 lm	266123
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DECATHLON 4

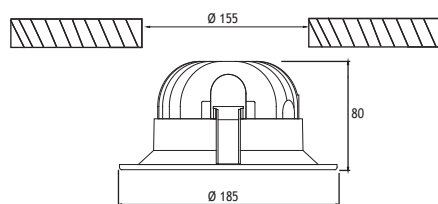
LED DOWNLIGHT

Class II IP65 IK10

Available in any
of these RAL colors



Symmetrical



Lens : 10°, 25°, 40°

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

Gear : 240V Non-Dimmable Driver

(1-10V Dimmable Driver & DALI Driver available on request)

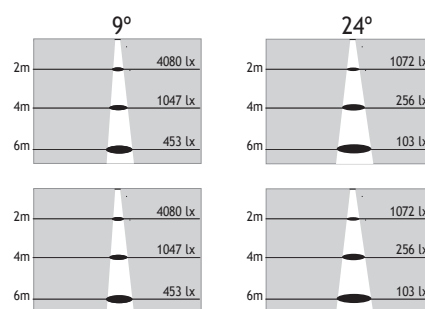
Springs : Stainless Steel for mounting in ceilings of 1-25 mm

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



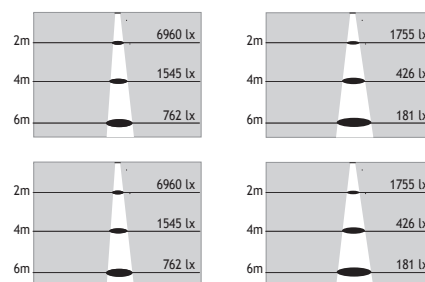
9 x 350mA (9W)		Total Lighting Output	Code No
☀ Warm White	3300 K	630 lm	267001

☀ Natural White	4500 K	630 lm	Code No 267003
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9 x 700mA (27W)		Total Lighting Output	Code No
☀ Warm White	3300 K	1350 lm	267021

☀ Natural White	4500 K	1350 lm	Code No 267023
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DECATHLON 4

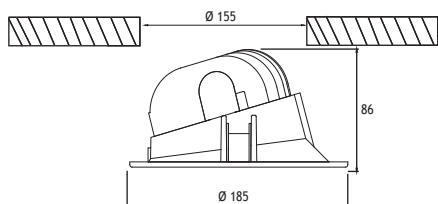
LED DOWNLIGHT

Class II IP65 IK10

Available in any
of these RAL colors



Asymmetrical 15° Tilted



- Lens** : 10°, 25°, 40°
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

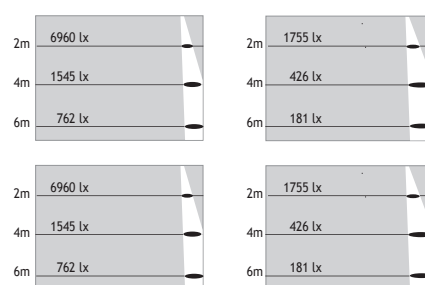
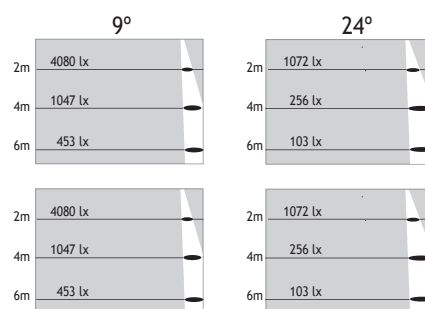


9 x 350mA (9W)		Total Lighting Output	Code No
☀ Warm White	3300 K	630 lm	267101

☀ Natural White	4500 K	630 lm	Code No 267103
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9 x 700mA (27W)		Total Lighting Output	Code No
☀ Warm White	3300 K	1350 lm	267121

☀ Natural White	4500 K	1350 lm	Code No 267123
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TRIATHLON

LED DOWNLIGHT Class II IP65 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

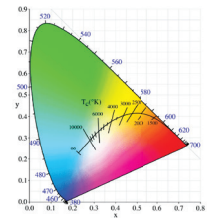
Steel for mounting in ceilings of 1-25mm thickness

Gear

Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)

Cable

0.5m exiting from top of fixture



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.

Downlight



Application

Wide beam symmetrical lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.

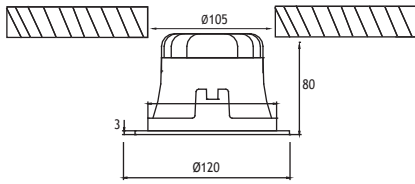
“Customization” is EMFA’s standard

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.

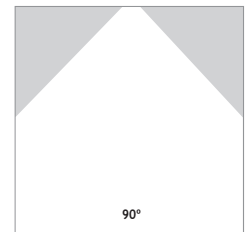
TRIATHLON 3

LED DOWNLIGHT Class II IP65 IK10

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

			Code No
☀	Warm White	3000 K 640 lm	268301
☾	Natural White	4000 K 640 lm	268302

8W - 500mA

☀	Warm White	3000 K 800 lm	268311
☾	Natural White	4000 K 800 lm	268312

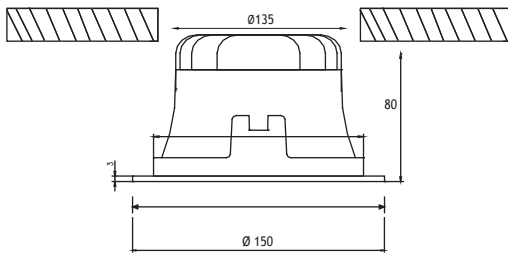
10W - 600mA

☀	Warm White	3000 K 950 lm	268321
☾	Natural White	4000 K 950 lm	268322

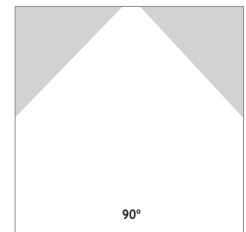
TRIATHLON 4

LED DOWNLIGHT
Class II IP65 IK10

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



11W - 350mA

				Code No
☀	Warm White	3000 K	1280 lm	268401
☾	Natural White	4000 K	1280 lm	268402

16W - 500mA

☀	Warm White	3000 K	1600 lm	268411
☾	Natural White	4000 K	1600 lm	268412

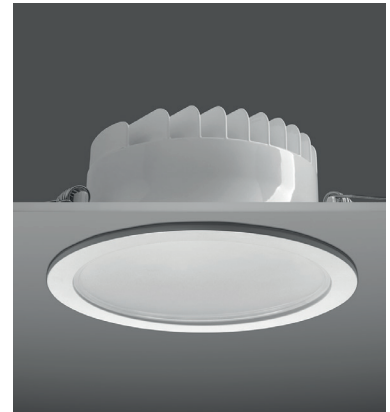
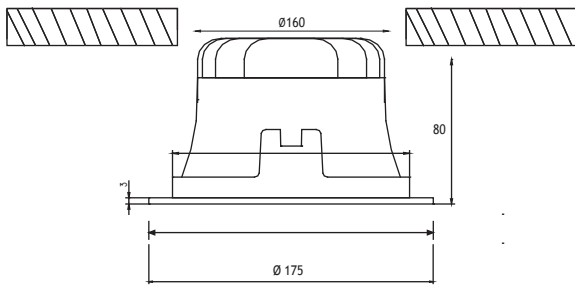
20W - 600mA

☀	Warm White	3000 K	1900 lm	268421
☾	Natural White	4000 K	1900 lm	268422

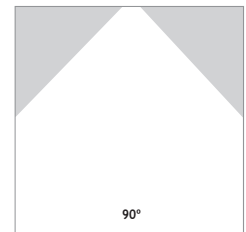
TRIATHLON 5

LED DOWNLIGHT Class II IP65 IK10

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



16W - 350mA

				Code No
☀	Warm White	3000 K	1900 lm	268501
☾	Natural White	4000 K	1900 lm	268502

24W - 500mA

☀	Warm White	3000 K	2400 lm	268511
☾	Natural White	4000 K	2400 lm	268512

31W - 600mA

☀	Warm White	3000 K	2850 lm	268521
☾	Natural White	4000 K	2850 lm	268522

TRIATHLON

LED DOWNLIGHT Class II IP65 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

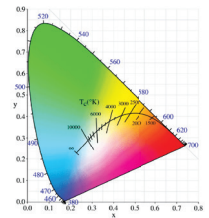
Steel for mounting in ceilings of 1-25mm thickness

Gear

Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)

Cable

0.5m exiting from top of fixture



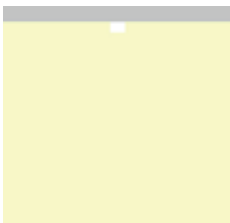
LEDs

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.

Downlight



Application

Wide beam symmetrical lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.

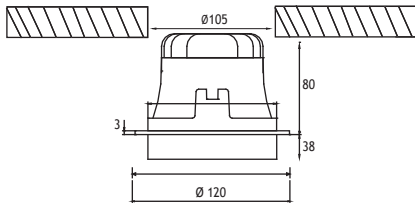
“Customization” is EMFA’s standard

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.

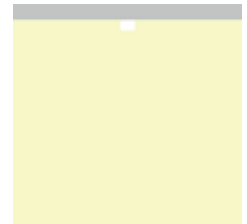
TRIATHLON 3

LED DOWNLIGHT Class II IP65 IK10

Available in any
of these RAL colors



- Led** : 20 x Osram SMD LEDs; over 110lm/W
- Reflector** : 64°
- 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



6W - 350mA

			Code No
☀	Warm White	3000 K 640 lm	269301
☾	Natural White	4000 K 640 lm	269302

8W - 500mA

☀	Warm White	3000 K 800 lm	269311
☾	Natural White	4000 K 800 lm	269312

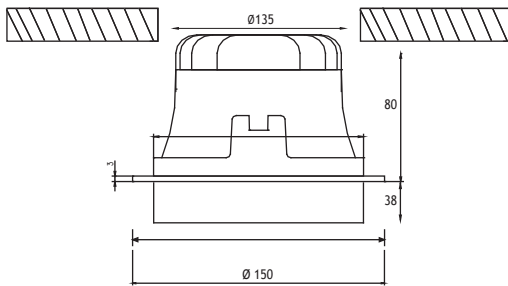
10W - 600mA

☀	Warm White	3000 K 950 lm	269321
☾	Natural White	4000 K 950 lm	269322

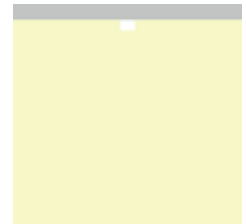
TRIATHLON 4

LED DOWNLIGHT Class II IP65 IK10

Available in any
of these RAL colors



- Led** : 40 x Osram SMD LEDs; over 110lm/W
- Reflector** : 64°
- 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



11W - 350mA

				Code No
☀	Warm White	3000 K	1280 lm	269401
☾	Natural White	4000 K	1280 lm	269402

16W - 500mA

☀	Warm White	3000 K	1600 lm	269411
☾	Natural White	4000 K	1600 lm	269412

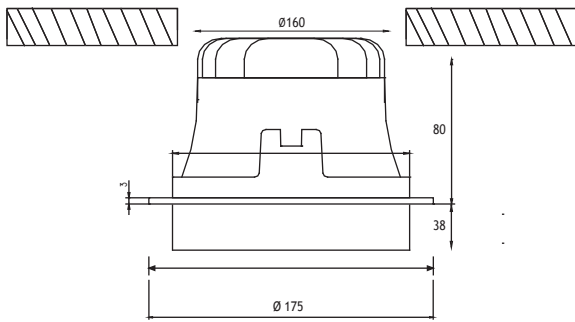
20W - 600mA

☀	Warm White	3000 K	1900 lm	269421
☾	Natural White	4000 K	1900 lm	269422

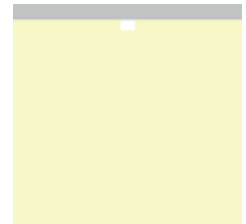
TRIATHLON 5

LED DOWNLIGHT Class II IP65 IK10

Available in any
of these RAL colors



- Led** : 60 x Osram SMD LEDs; over 110lm/W
- Reflector** : 64°
- 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



16W - 350mA

				Code No
☀	Warm White	3000 K	1900 lm	269501
☾	Natural White	4000 K	1900 lm	269502

24W - 500mA

☀	Warm White	3000 K	2400 lm	269511
☾	Natural White	4000 K	2400 lm	269512

31W - 600mA

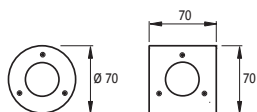
☀	Warm White	3000 K	2850 lm	269521
☾	Natural White	4000 K	2850 lm	269522

BELKIS 1

RECESSED FIXTURES

Downlights (For False Ceiling)

Class III IP67 IK10



Class III

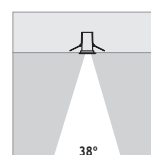
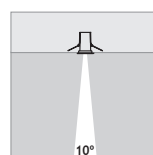
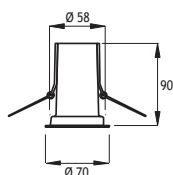
Lampholder : Gu4

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

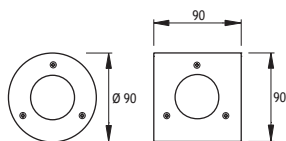


BELKIS 2

RECESSED FIXTURES

Downlights (For False Ceiling)

IP67 IK10



Class III

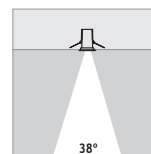
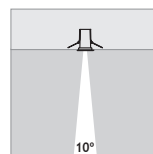
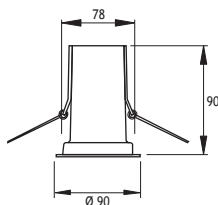
Lampholder : Gu 5.3

Reflector : -

Diffuser : 6 mm Tempered Glass

Transformer is not included.

Remote transformer should be used.



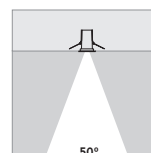
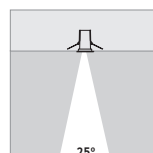
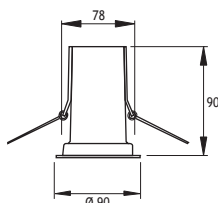
	Code No	
HALOGEN 12V 35W / 50W	Round	Square
(10° or 38°)	323101	323201

Class I

Lampholder : Gu 10

Reflector : -

Diffuser : 6 mm Tempered Glass



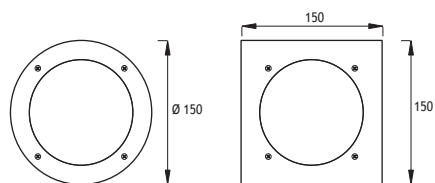
	Code No	
HALOGEN 240V 35W / 50W	Round	Square
(25° or 50°)	323121	323221

BELKIS 5

RECESSED FIXTURES

Downlights (For False Ceiling)

Class I IP67 IK10



Class I

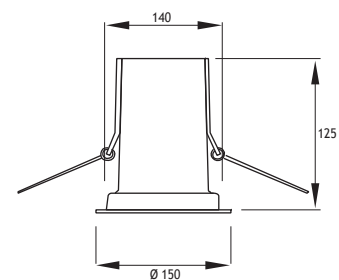
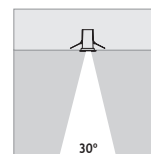
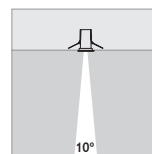
Lampholder : E27 Fixed

Reflector : -

Diffuser : 8 mm Glass

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

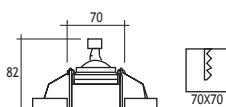
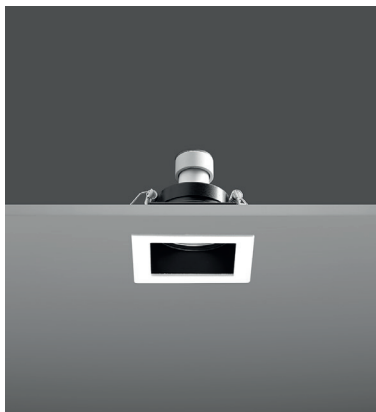
Code No
Round Square
325111 325211



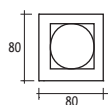


DYO RECESSED CEILING FIXTURES

Outer Frame & Body
Steel



DYO 70 16 S
(WITHOUT 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 II

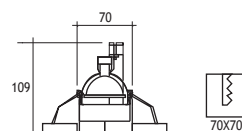
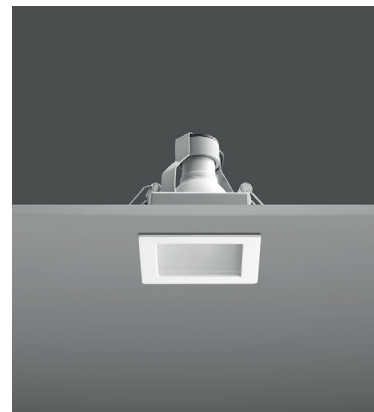
Lampholder : Gu10

Reflector : -

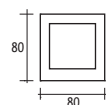
Diffuser : -

HALOGEN 240V 50W

Code No
133111



DYO 70 18 S
(WITH GLASS)



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 : Frosted Glass

HALOGEN 240V 50W

Code No
133211

CUNDA / PATARA RECESSED INDOOR CRADLE FIXTURES

Outer Frame

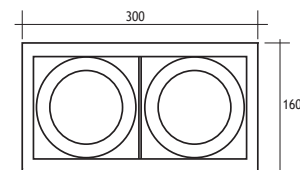
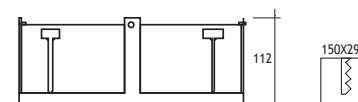
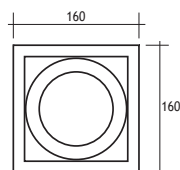
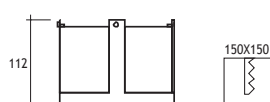
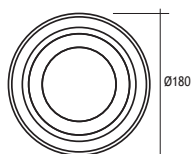
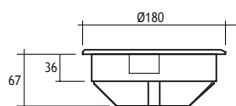
Steel

Cradle Frame

Die cast aluminium

Paint

Electrostatic powder



CUNDA ROUND

Class III

Lampholder : G53

Reflector : -

Diffuser : -

HALOGEN RJ111 12V 50W Code No 419101

PATARA ROUND SINGLE

Class III

Lampholder : G53

Reflector : -

Diffuser : -

HALOGEN RJ111 12V 50W Code No 420101

PATARA ROUND TWIN

Class III

Lampholder : G53

Reflector : -

Diffuser : -

2 x HALOGEN RJ111 12V 50W Code No 420201

Class I

Lampholder : E27

Reflector : -

Diffuser : -

HALOGEN 240V PAR 30 75W Code No 419111

Class I

Lampholder : E27

Reflector : -

Diffuser : -

HALOGEN 240V PAR 30 75W Code No 420111

Class I

Lampholder : E27

Reflector : -

Diffuser : -

2 x HALOGEN 240V PAR 30 75W Code No 420211

HALOGEN SPOT DOWNLIGHT

Body

Aluminium

Frame

Steel

Holding Force

Magnetism, no screws
for easy assembly
and maintenance

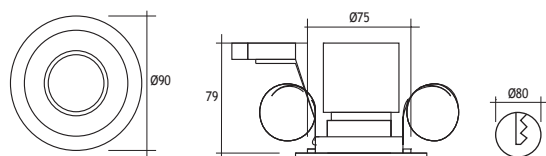
Spring

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.

Class III

Lampholder : Gu 5.3

Reflector : -

Diffuser : -

Transformer is not included.

Remote transformer should be used.

HALOGEN 12V 20W

Code No
113401

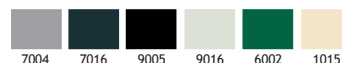
HALOGEN 12V 50W

Code No
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

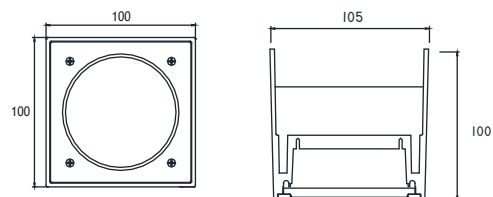
Tempered glass or acrylic

Gaskets

Silicone

Connection

IP connection box



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

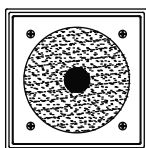
Diffuser : Clear Glass 8 mm (Frosted Glass on request)

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

DOM LED

350 mA (11 W) LED

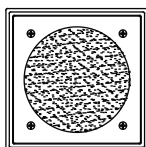
		Total Lighting Output	Code No
☾ Warm White	3000 K	925 lm	289001
☼ Natural White	4000 K	975 lm	289002



OSRAM SMD LED

350 mA (6 W) LED

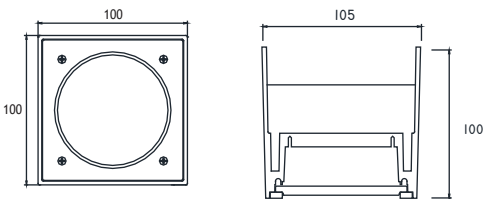
		Total Lighting Output	Code No
☾ Warm White	3000 K	640 lm	289011
☼ Natural White	4000 K	640 lm	289012



SQUARE

SURFACE MOUNTED
Class I IP65

- Body
 - Die cast aluminium
- Paint
 - Electrostatic powder
- Bracket
 - Die cast aluminium
- Diffusers
 - Tempered glass
- Gaskets
 - Silicone
- Connection
 - IP connection box

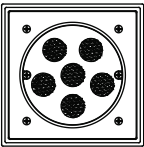


- Voltage
 - : 240V A.C with integrated Driver
(24V AC or DC on request)
- Lens
 - : 10°, 25°, 40°
- Diffuser
 - : Clear Glass 8 mm (Frosted Glass on request)
- Cable
 - : Potted 5 m 3x0,75 mm H03 VV-F

POWERLED

350 mA (6 W) LED

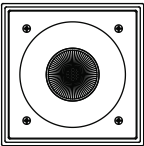
	Warm White	3000 K	46 lm	289021
	Natural White	4000 K	46 lm	289022
	Cool White	6000 K	70 lm	289023



Multichip LED

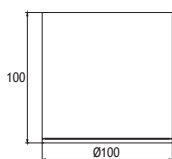
350 mA (9 W)

	Warm White	3000 K	672 lm	289031
	Natural White	4000 K	756 lm	289032



MARATHON 2 GLASS

SURFACE MOUNTED CEILING FIXTURES Class I IP65



Led : Multichip CREE LED (350-700mA)
Reflector : 20°, 32°, 52° Aluminium-Coated Polycarbonate Reflector
Diffuser : Painted Glass 4 mm
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

9W - 350mA
 ☀ Warm White 2700 K 588 lm 260301
 ☀ Warm White 3000 K 672 lm 260302
 ☀ Natural White 4000 K 756 lm 260303

☀ Warm White 3000 K 672 lm 260311
 ☀ Warm White 3000 K 768 lm 260312
 ☀ Natural White 4000 K 864 lm 260313

13W - 500mA

☀ Warm White 2700 K 672 lm 260311
 ☀ Warm White 3000 K 768 lm 260312
 ☀ Natural White 4000 K 864 lm 260313

☀ Warm White 3000 K 768 lm 260312
 ☀ Natural White 4000 K 864 lm 260313

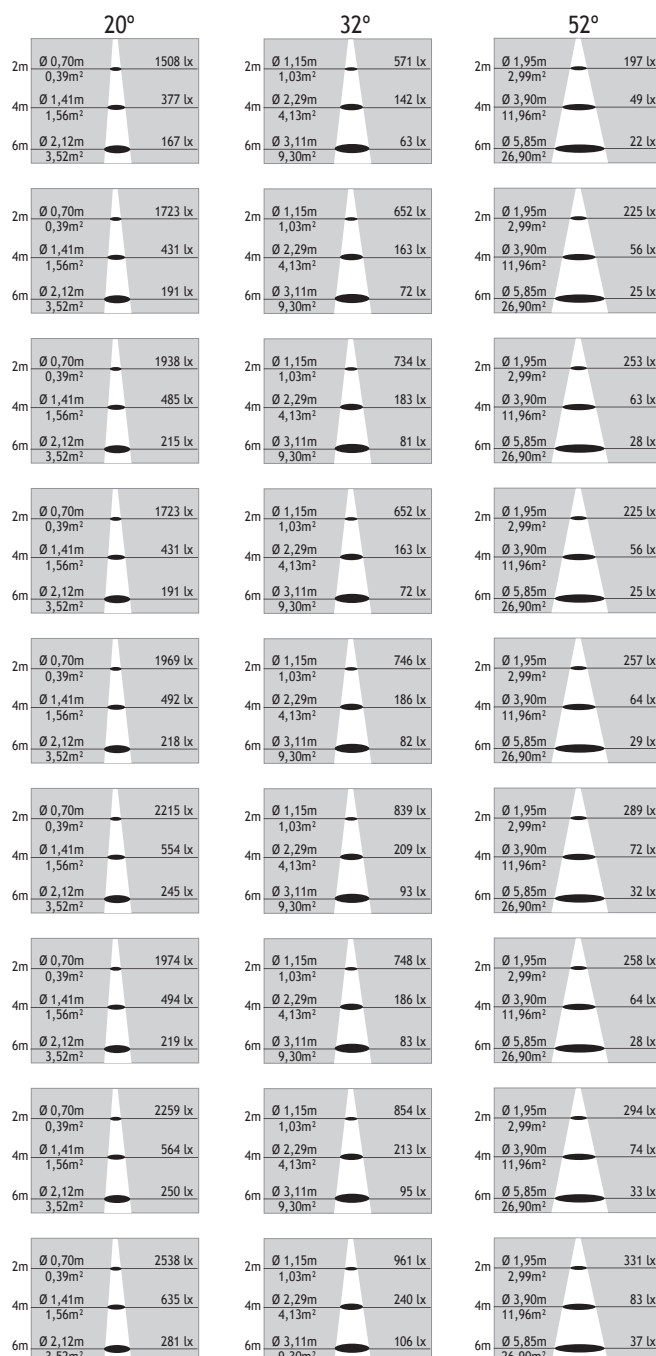
☀ Natural White 4000 K 864 lm 260313

19W - 700mA

☀ Warm White 2700 K 770 lm 260321
 ☀ Warm White 3000 K 880 lm 260322
 ☀ Natural White 4000 K 990 lm 260323

☀ Warm White 3000 K 880 lm 260322
 ☀ Natural White 4000 K 990 lm 260323

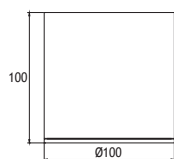
☀ Natural White 4000 K 990 lm 260323



MARATHON 2 GLASS

SURFACE MOUNTED CEILING FIXTURES Class I IP65

Glass available in these
pastel colors



Led : Multichip CREE LED (350-700mA)
Reflector : 20°, 32°, 52° Aluminium-Coated Polycarbonate Reflector
Diffuser : Painted Glass 4 mm
Gear : 240V Non-Dimmable Driver
 (1-10V Dimmable Driver & DALI Driver available on request)
Cable : 0,5 m 2x0,75 mm H03 VV-F

9W - 350mA
 Warm White 2700 K 588 lm 260401

Warm White 3000 K 672 lm 260402

Natural White 4000 K 756 lm 260403

13W - 500mA
 Warm White 2700 K 672 lm 260411

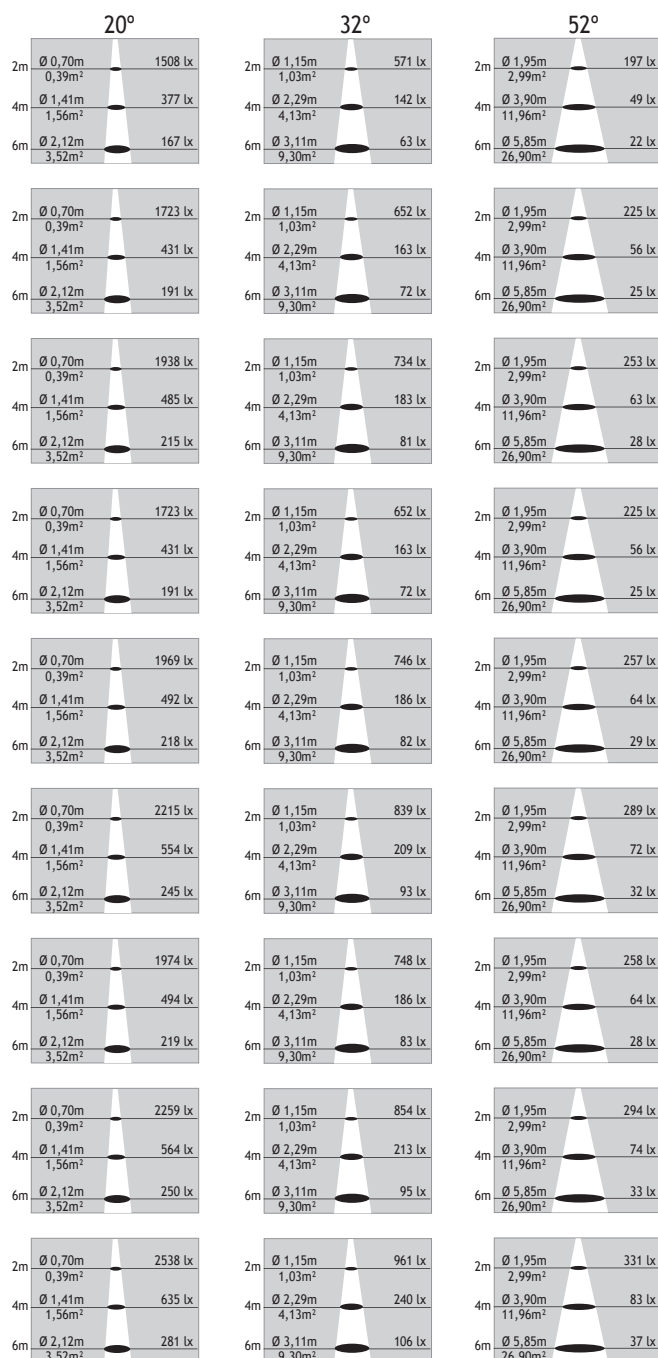
Warm White 3000 K 768 lm 260412

Natural White 4000 K 864 lm 260413

19W - 700mA
 Warm White 2700 K 770 lm 260421

Warm White 3000 K 880 lm 260422

Natural White 4000 K 990 lm 260423

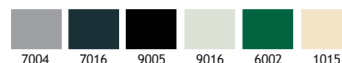


BELKIS 1

SURFACE MOUNTED CEILING FIXTURES

Class I IP44

Available in any
of these RAL colors



BELKIS 1

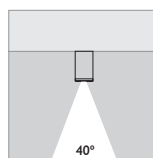
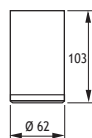
Lampholder : G9

Reflector : 40°

Diffuser : 4 mm Frosted Glass

HALOGEN 240V 25W

Code No
335101



BELKIS 2

Lampholder : Gu10

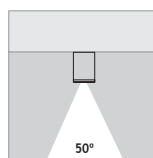
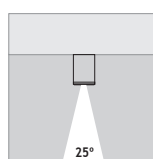
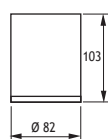
Reflector : -

Diffuser : 4 mm Clear Glass

HALOGEN 240V 50W (25° or 50°) 336111

Code No

336111



BELKIS 5

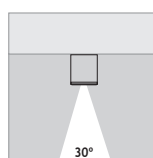
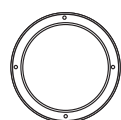
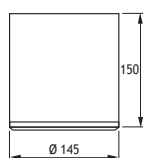
Lampholder : E27

Reflector : -

Diffuser : 4 mm Clear Glass

HALOGEN PAR 30 75W 30°

Code No
337121



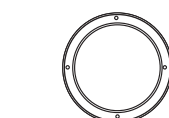
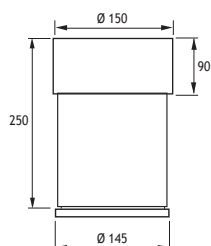
Lampholder : G12

Reflector : 30°, 42°

Diffuser : Clear Glass

METAL HALIDE 35W/70W

Code No
337131

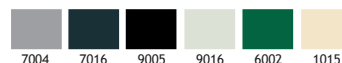


BELKIS 1

SURFACE MOUNTED CEILING FIXTURES

Class I IP55

Available in any
of these RAL colors

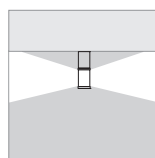
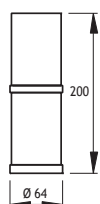


BELKIS 1

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

COMPACT FLUO. 13W

Code No
293101

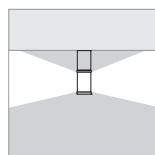
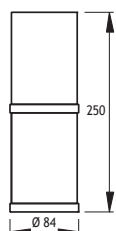


BELKIS 2

Lampholder : E27
Reflector : -
Diffuser : Acrylic Pipe

ELECTRONIC FLUO. DEL 23W

Code No
293111

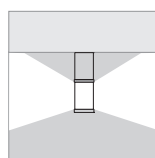
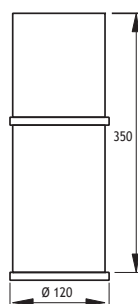


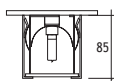
BELKIS 4

Lampholder : E27
Reflector : -
Diffuser : Acrylic Pipe

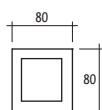
ELECTRONIC FLUO. DEL 23W

Code No
293121





BERGAMA 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
 360101

Lampholder : G9
Reflector : Symmetrical
Diffuser : Frosted Glass
 Class I

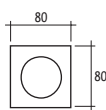
HALOGEN 240V 25W Code No
 360111

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

HALOGEN 240V 50W Code No
 360121



BERGAMA 80 x 80 ROUND



Lampholder : Gu 5.3
Reflector : Symmetrical
Diffuser : Clear Glass
 Transformer is not included.
 Remote transformer should be used.
 Class III

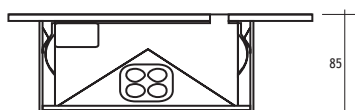
HALOGEN 12V 50W Code No
 360201

Lampholder : G9
Reflector : Symmetrical
Diffuser : Frosted Glass
 Class I

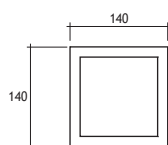
HALOGEN 240V 25W Code No
 360211

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

HALOGEN 240V 50W Code No
 360221



BERGAMA 140 x 140

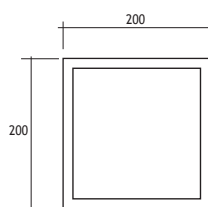


Lampholder : R7 s
Reflector : Symmetrical
Diffuser : Frosted Glass

HALOGEN LINEAR 60W

Code No
363101

BERGAMA 200 x 200

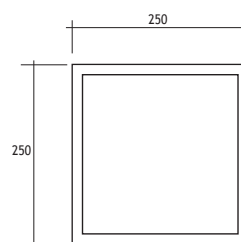


Lampholder : G24 d-2
Reflector : Symmetrical
Diffuser : Frosted Glass
Transformer : Included

2 x COMPACT FLUO. 18W

Code No
379101

BERGAMA 250 x 250



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 1

RECESSED CEILING FIXTURES

Class I IP20

BELKIS 1

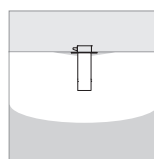
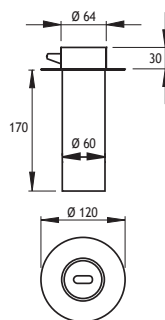
Lampholder : G23

Reflector : -

Diffuser : Acrylic Pipe

COMPACT FLUO. 9W

Code No
296101



BELKIS 2

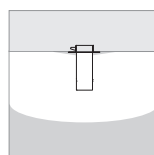
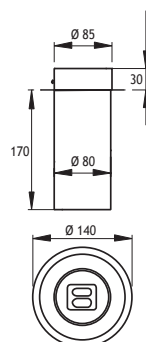
Lampholder : G24 d - 2

Reflector : -

Diffuser : Acrylic Pipe

COMPACT FLUO. 18W

Code No
296111



BELKIS 5

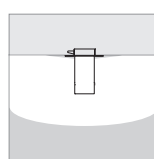
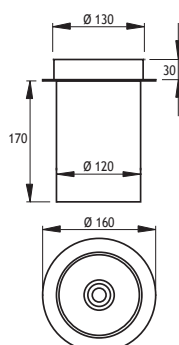
Lampholder : G24 d - 3

Reflector : -

Diffuser : Acrylic Pipe

COMPACT FLUO. 26W

Code No
296121



Lampholder : G12

Reflector : -

Diffuser : Acrylic Pipe

METAL HALIDE 35W

Code No
296131