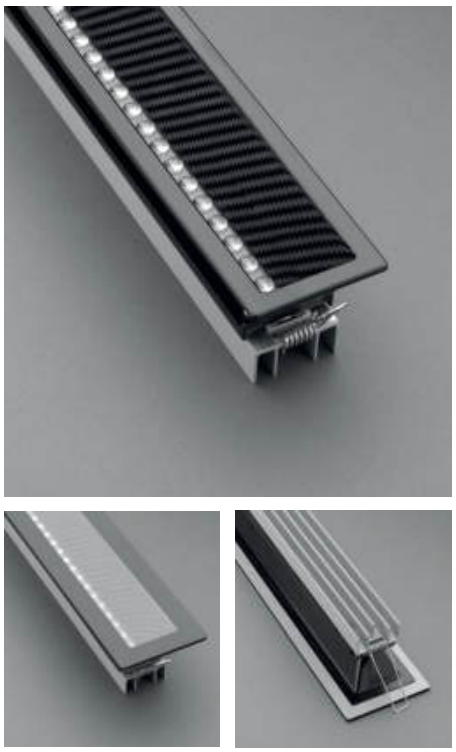
# PINARA

## LINEAR LED DOWNLIGHT
## Class II IP20

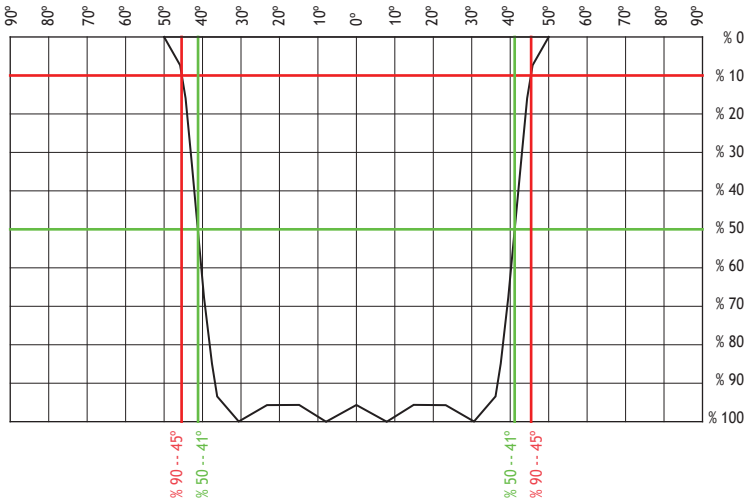
The PINARA LED downlight is specially designed to deliver high output LED light with very clean beam angles to corridors, hotel rooms, museums and general lighting of public spaces. The Nichia LEDs in the PINARA are very efficient and have a high CRI (90). The unique lens that is used in this fixture 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)

### 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, 3 white tones, 3 wattages are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.




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

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

# PINARA

## LINEAR LED DOWNLIGHT
## Class II IP20

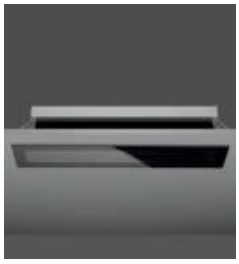
**Finish :** Black or White

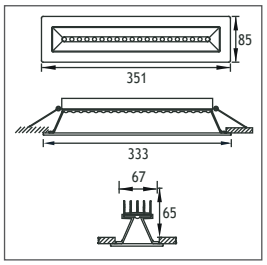


**POWER LED**

**Led** : 350 - 500 - 700 mA (Nichia)
**Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver and
DALI Driver available on request)
**Diffuser :** Clear of frosted tempered Glass
**Cable** : 0.5 m 2x0,75 mm H03 VV-F

PINARA 1 CLEAR OR FROSTED TEMPERED GLASS

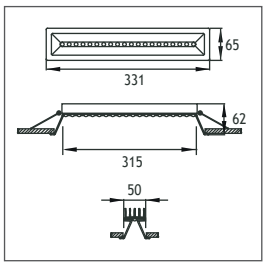





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 10W LED | 2700 K | 950 lm | 392001 |
| 10W LED | 3000 K | 950 lm | 392002 |
| 10W LED | 4000 K | 968 lm | 392003 |
| 15W LED | 2700 K | 1425 lm | 392011 |
| 15W LED | 3000 K | 1425 lm | 392012 |
| 15W LED | 4000 K | 1453 lm | 392013 |
| 21W LED | 2700 K | 1995 lm | 392021 |
| 21W LED | 3000 K | 1995 lm | 392022 |
| 21W LED | 4000 K | 2053 lm | 392023 |

PINARA 2 SYMMETRICAL

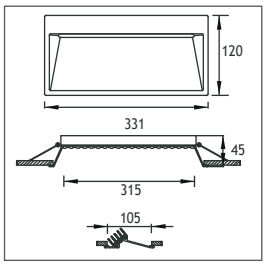





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 10W LED | 2700 K | 950 lm | 392101 |
| 10W LED | 3000 K | 950 lm | 392102 |
| 10W LED | 4000 K | 968 lm | 392103 |
| 15W LED | 2700 K | 1425 lm | 392111 |
| 15W LED | 3000 K | 1425 lm | 392112 |
| 15W LED | 4000 K | 1453 lm | 392113 |
| 21W LED | 2700 K | 1995 lm | 392121 |
| 21W LED | 3000 K | 1995 lm | 392122 |
| 21W LED | 4000 K | 2053 lm | 392123 |

PINARA 2 ASYMMETRICAL






| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 10W LED | 2700 K | 950 lm | 392201 |
| 10W LED | 3000 K | 950 lm | 392202 |
| 10W LED | 4000 K | 968 lm | 392203 |
| 15W LED | 2700 K | 1425 lm | 392211 |
| 15W LED | 3000 K | 1425 lm | 392212 |
| 15W LED | 4000 K | 1453 lm | 392213 |
| 21W LED | 2700 K | 1995 lm | 392221 |
| 21W LED | 3000 K | 1995 lm | 392222 |
| 21W LED | 4000 K | 2053 lm | 392223 |



EMFA

# PINARA

## TRIMLESS LINEAR LED DOWNLIGHT
## Class II IP20

**Finish :** Black or White

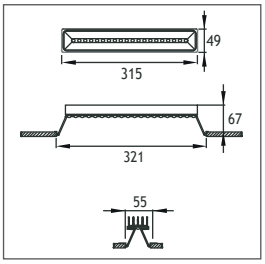


**POWER LED**

**Led** : 350 - 500 - 700 mA (Nichia)
**Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver and
DALI Driver available on request)
**Diffuser :** Clear of frosted tempered Glass
**Cable** : 0.5 m 2x0,75 mm H03 VV-F

PINARA SYMMETRICAL TRIMLESS

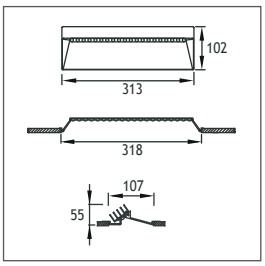




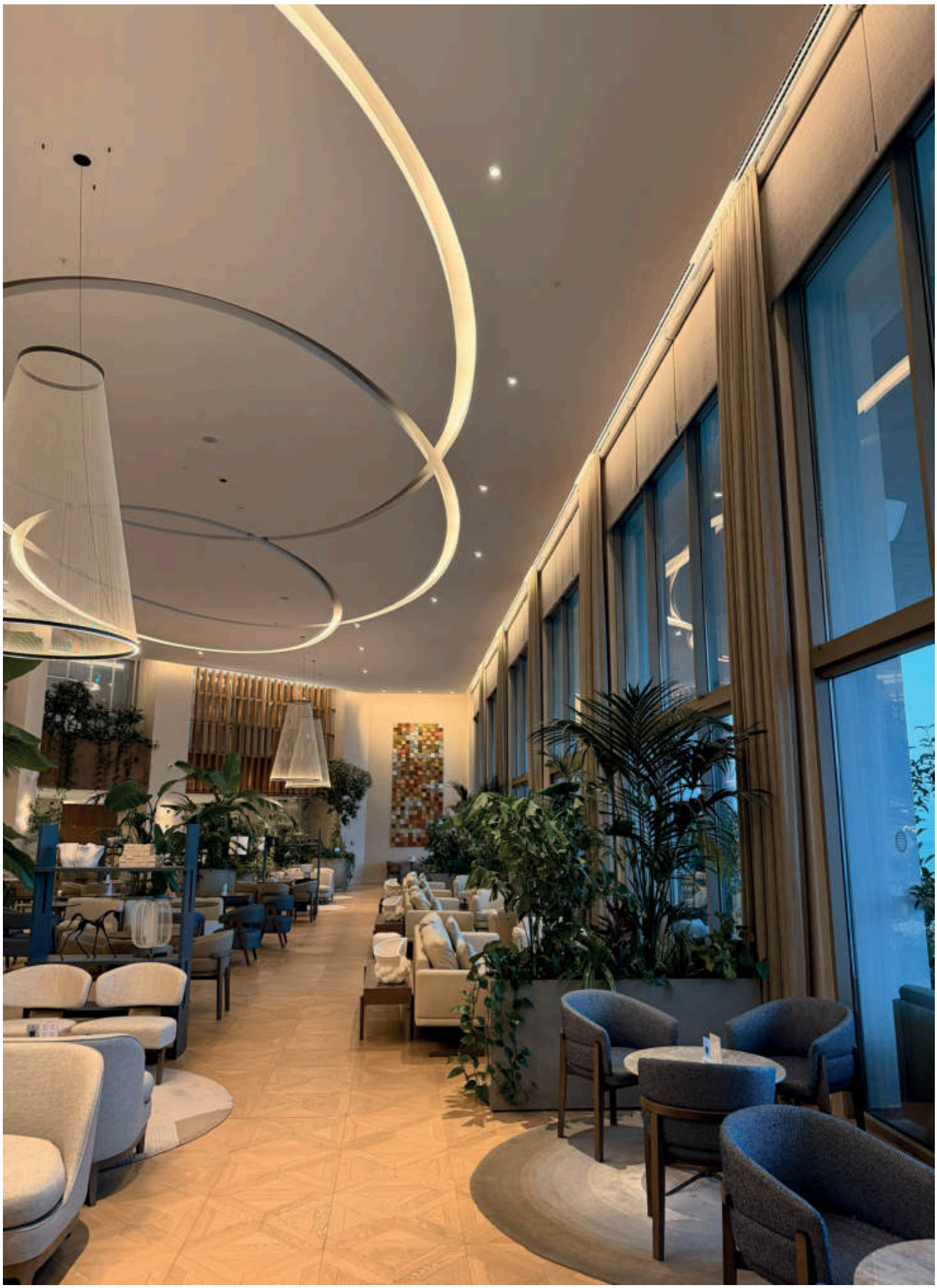

| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 10W LED | 2700 K | 950 lm | 393001 |
| 10W LED | 3000 K | 950 lm | 393002 |
| 10W LED | 4000 K | 968 lm | 393003 |
| 15W LED | 2700 K | 1425 lm | 393011 |
| 15W LED | 3000 K | 1425 lm | 393012 |
| 15W LED | 4000 K | 1453 lm | 393013 |
| 21W LED | 2700 K | 1995 lm | 393021 |
| 21W LED | 3000 K | 1995 lm | 393022 |
| 21W LED | 4000 K | 2053 lm | 393023 |

PINARA ASYMMETRICAL TRIMLESS






| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 10W LED | 2700 K | 950 lm | 393101 |
| 10W LED | 3000 K | 950 lm | 393102 |
| 10W LED | 4000 K | 968 lm | 393103 |
| 15W LED | 2700 K | 1425 lm | 393111 |
| 15W LED | 3000 K | 1425 lm | 393112 |
| 15W LED | 4000 K | 1453 lm | 393113 |
| 21W LED | 2700 K | 1995 lm | 393121 |
| 21W LED | 3000 K | 1995 lm | 393122 |
| 21W LED | 4000 K | 2053 lm | 393123 |



# HARPUT

## LED DOWNLIGHT
## Class II IP65/20

The Harput 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 LEDs used in the HARPUT 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** : Aluminium
**Heatsink** : Aluminium
**Diffuser** : With clear or frosted tempered Glass
**Springs** : Steel
**Cable** : 0.5 m exiting top of fixture
**Gear** : 240V Non-Dimmable electronic LED driver
(1-10V Dimmable and DALI drivers available on request)

HARPUT MINI


Fixed


Adjustable


Trimless Fixed


Trimless Adjustable

HARPUT 2


Fixed


Adjustable


Trimless Fixed


Trimless Adjustable

HARPUT 3


Fixed


Adjustable


Trimless Fixed


Trimless Adjustable

HARPUT 4


Fixed


Adjustable


Trimless Fixed


Trimless Adjustable

**Application**
Symmetrical and asymmetrical lighting for general lighting such as museums, hospitals, hotel rooms, dormitories, corridors, shops, and balconies.



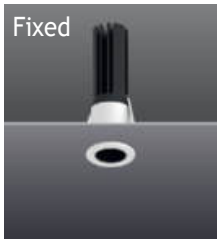


**LEDs**
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates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

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

# HARPUT MINI LED DOWNLIGHT
## Class II IP20

**Finish** : Black or White





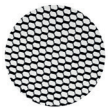


**Led** : 1W or 3W POWER LED
**Reflector** : 15˚,24˚,38˚or 60˚
**Gear** : 240V
(1-10V Dimmable Driver & DALI Driver available on request)
**Cable** : 0,5 m 2x0,75 mm H03 VV-F





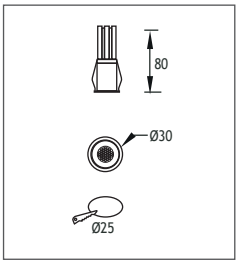




HONEYCOMB FOR HARPUT MINI LED DOWNLIGHT
Code No: 953957

### Fixed

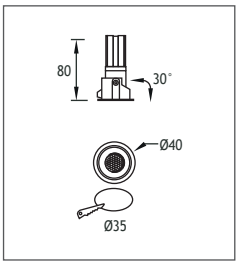





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 1W LED | 2700 K | 95 lm | 230003 |
| 1W LED | 3000 K | 95 lm | 230001 |
| 1W LED | 4500 K | 97 lm | 230002 |
| 3W LED | 2700 K | 285 lm | 230013 |
| 3W LED | 3000 K | 285 lm | 230011 |
| 3W LED | 4500 K | 290 lm | 230012 |

### Adjustable

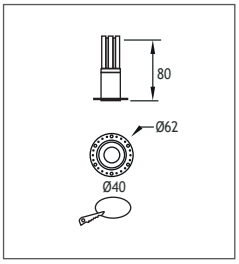





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 1W LED | 2700 K | 95 lm | 230103 |
| 1W LED | 3000 K | 95 lm | 230101 |
| 1W LED | 4500 K | 97 lm | 230102 |
| 3W LED | 2700 K | 285 lm | 230113 |
| 3W LED | 3000 K | 285 lm | 230111 |
| 3W LED | 4500 K | 290 lm | 230112 |

### Trimless Fixed

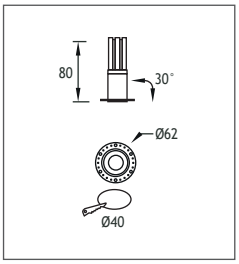





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 1W LED | 2700 K | 95 lm | 234003 |
| 1W LED | 3000 K | 95 lm | 234001 |
| 1W LED | 4500 K | 97 lm | 234002 |
| 3W LED | 2700 K | 285 lm | 234013 |
| 3W LED | 3000 K | 285 lm | 234011 |
| 3W LED | 4500 K | 290 lm | 234012 |

### Trimless Adjustable





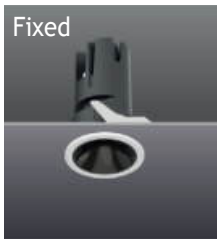

| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 1W LED | 2700 K | 95 lm | 234103 |
| 1W LED | 3000 K | 95 lm | 234101 |
| 1W LED | 4500 K | 97 lm | 234102 |
| 3W LED | 2700 K | 285 lm | 234113 |
| 3W LED | 3000 K | 285 lm | 234111 |
| 3W LED | 4500 K | 290 lm | 234112 |



EMFA

# HARPUT 2 LED DOWNLIGHT
## Class II IP65

**Finish** : Black or White







**6W or 12W COB LED**

**Led** : 6W or 12W COB LED

**Reflector** : 15°,24°,38° or 60°

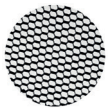
**Gear** : 240V
(1-10V Dimmable Driver & DALI Driver available on request)

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





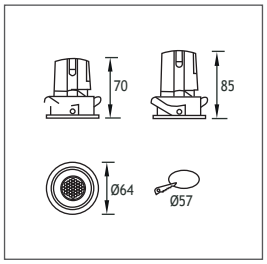




HONEYCOMB FOR HARPUT 2 LED DOWNLIGHT
Code No: 953958

### Fixed

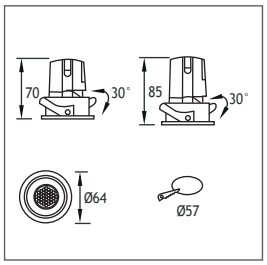





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 231003 |
| 6W LED | 3000 K | 570 lm | 231001 |
| 6W LED | 4500 K | 581 lm | 231002 |
| 12W LED | 2700 K | 1140 lm | 231013 |
| 12W LED | 3000 K | 1140 lm | 231011 |
| 12W LED | 4500 K | 1162 lm | 231012 |

### Adjustable

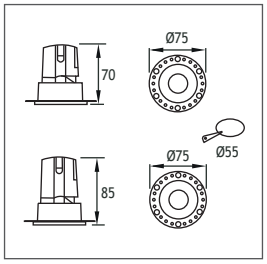





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 231103 |
| 6W LED | 3000 K | 570 lm | 231101 |
| 6W LED | 4500 K | 581 lm | 231102 |
| 12W LED | 2700 K | 1140 lm | 231113 |
| 12W LED | 3000 K | 1140 lm | 231111 |
| 12W LED | 4500 K | 1162 lm | 231112 |

### Trimless Fixed

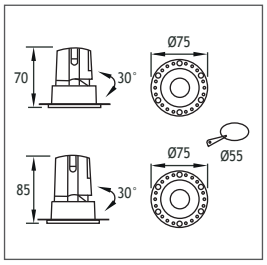





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 235003 |
| 6W LED | 3000 K | 570 lm | 235001 |
| 6W LED | 4500 K | 581 lm | 235002 |
| 12W LED | 2700 K | 1140 lm | 235013 |
| 12W LED | 3000 K | 1140 lm | 235011 |
| 12W LED | 4500 K | 1162 lm | 235012 |

### Trimless Adjustable






| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 235103 |
| 6W LED | 3000 K | 570 lm | 235101 |
| 6W LED | 4500 K | 581 lm | 235102 |
| 12W LED | 2700 K | 1140 lm | 235113 |
| 12W LED | 3000 K | 1140 lm | 235111 |
| 12W LED | 4500 K | 1162 lm | 235112 |

# HARPUT 3 LED DOWNLIGHT
## Class II IP65

**Finish** : Black or White













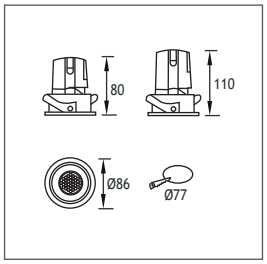
**Led** : 12W or 20W COB LED
**Reflector** : 15˚,24˚,38˚or 60˚
**Gear** : 240V
(1-10V Dimmable Driver & DALI Driver available on request)
**Cable** : 0,5 m 2x0,75 mm H03 VV-F



HONEYCOMB FOR HARPUT 3 LED DOWNLIGHT
Code No: 953959

### Fixed

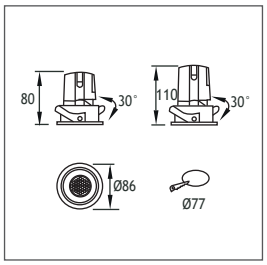





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 12W LED | 2700 K | 1140 lm | 232003 |
| 12W LED | 3000 K | 1140 lm | 232001 |
| 12W LED | 4500 K | 1162 lm | 232002 |
| 20W LED | 2700 K | 1900 lm | 232013 |
| 20W LED | 3000 K | 1900 lm | 232011 |
| 20W LED | 4500 K | 1936 lm | 232012 |

### Adjustable

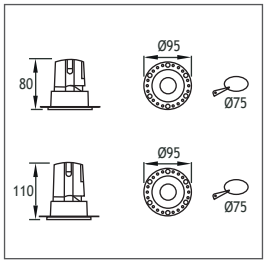





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 12W LED | 2700 K | 1140 lm | 232103 |
| 12W LED | 3000 K | 1140 lm | 232101 |
| 12W LED | 4500 K | 1162 lm | 232102 |
| 20W LED | 2700 K | 1900 lm | 232113 |
| 20W LED | 3000 K | 1900 lm | 232111 |
| 20W LED | 4500 K | 1936 lm | 232112 |

### Trimless Fixed

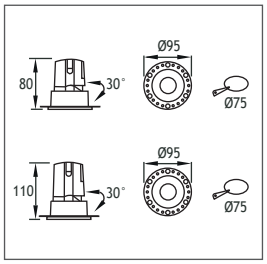





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 12W LED | 2700 K | 1140 lm | 236003 |
| 12W LED | 3000 K | 1140 lm | 236001 |
| 12W LED | 4500 K | 1162 lm | 236002 |
| 20W LED | 2700 K | 1900 lm | 236013 |
| 20W LED | 3000 K | 1900 lm | 236011 |
| 20W LED | 4500 K | 1936 lm | 236012 |

### Trimless Adjustable






| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 12W LED | 2700 K | 1140 lm | 236103 |
| 12W LED | 3000 K | 1140 lm | 236101 |
| 12W LED | 4500 K | 1162 lm | 236102 |
| 20W LED | 2700 K | 1900 lm | 236113 |
| 20W LED | 3000 K | 1900 lm | 236111 |
| 20W LED | 4500 K | 1936 lm | 236112 |



EMFA

# HARPUT 4 LED DOWNLIGHT
## Class II IP65

**Finish** : Black or White







**Led** : 20W or 30W COB LED
**Reflector** : 15°,24°,38° or 60°
**Gear** : 240V
(1-10V Dimmable Driver & DALI Driver available on request)
**Cable** : 0,5 m 2x0,75 mm H03 VV-F





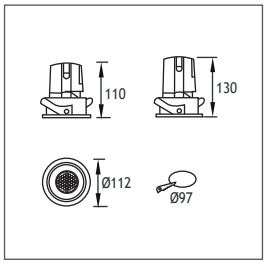




HONEYCOMB FOR HARPUT 4 LED DOWNLIGHT
Code No: 953960

### Fixed

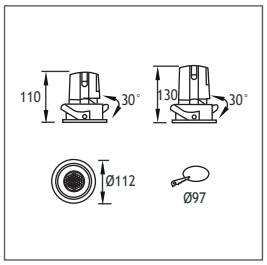





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 20W LED | 2700 K | 1800 lm | 233003 |
| 20W LED | 3000 K | 1800 lm | 233001 |
| 20W LED | 4500 K | 1980 lm | 233002 |
| 30W LED | 2700 K | 2700 lm | 233013 |
| 30W LED | 3000 K | 2700 lm | 233011 |
| 30W LED | 4500 K | 2970 lm | 233012 |

### Adjustable

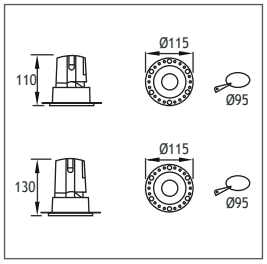





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 20W LED | 2700 K | 1800 lm | 233103 |
| 20W LED | 3000 K | 1800 lm | 233101 |
| 20W LED | 4500 K | 1980 lm | 233102 |
| 30W LED | 2700 K | 2700 lm | 233113 |
| 30W LED | 3000 K | 2700 lm | 233111 |
| 30W LED | 4500 K | 2970 lm | 233112 |

### Trimless Fixed

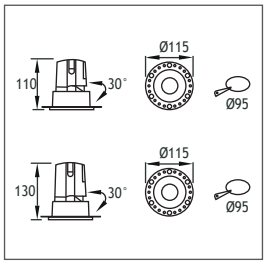





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 20W LED | 2700 K | 1800 lm | 237003 |
| 20W LED | 3000 K | 1800 lm | 237001 |
| 20W LED | 4500 K | 1980 lm | 237002 |
| 30W LED | 2700 K | 2700 lm | 237013 |
| 30W LED | 3000 K | 2700 lm | 237011 |
| 30W LED | 4500 K | 2970 lm | 237012 |

### Trimless Adjustable






| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 20W LED | 2700 K | 1800 lm | 237103 |
| 20W LED | 3000 K | 1800 lm | 237101 |
| 20W LED | 4500 K | 1980 lm | 237102 |
| 30W LED | 2700 K | 2700 lm | 237113 |
| 30W LED | 3000 K | 2700 lm | 237111 |
| 30W LED | 4500 K | 2970 lm | 237112 |

# 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.


Symmetrical


Asymmetrical

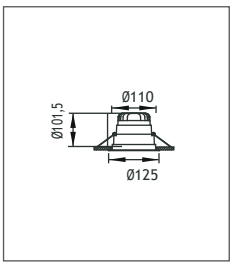
**Body**
Die cast aluminium
**Paint**
Electrostatic powder paint RAL 9016 (available in other RAL colors)
**Springs**
Steel for mounting in ceilings of 1-25mm thickness
**Gear**
Non-Dimmable electronic LED driver
(1-10V Dimmable and DALI drivers available on request)
**Cable**
0.5m exiting from top of fixture

**COB LED**

**Led** : 350mA 13W / 500mA 18W LED (Nichia)
**Reflector** : 24° or 38°
**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
**Finish** : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

SYMMETRICAL

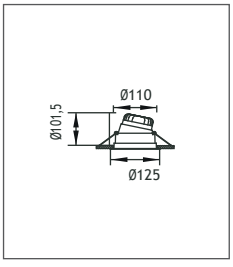





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 13W LED | 2700 K | 1235 lm | 24°,38° | 118203 |
| 13W LED | 3000 K | 1235 lm | 24°,38° | 118201 |
| 13W LED | 4000 K | 1259 lm | 24°,38° | 118202 |
| 18W LED | 2700 K | 1710 lm | 24°,38° | 118403 |
| 18W LED | 3000 K | 1710 lm | 24°,38° | 118401 |
| 18W LED | 4000 K | 1779 lm | 24°,38° | 118402 |

ASYMMETRICAL

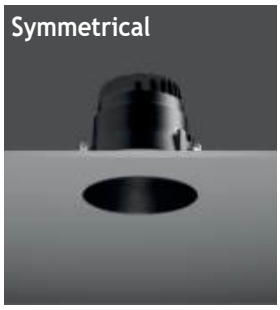


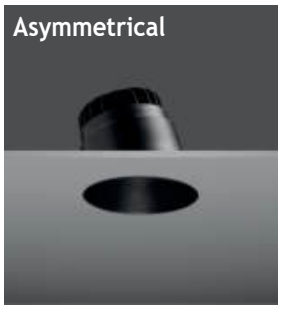



| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 13W LED | 2700 K | 1235 lm | 24°,38° | 118223 |
| 13W LED | 3000 K | 1235 lm | 24°,38° | 118221 |
| 13W LED | 4000 K | 1259 lm | 24°,38° | 118222 |
| 18W LED | 2700 K | 1710 lm | 24°,38° | 118213 |
| 18W LED | 3000 K | 1710 lm | 24°,38° | 118211 |
| 18W LED | 4000 K | 1779 lm | 24°,38° | 118212 |

# PENTATHLON

## TRIMLESS LED DOWNLIGHT
## Class II IP20



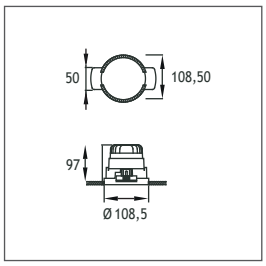




**COB LED**

**Led** : 350mA 13W / 500mA 18W LED (Nichia)
**Reflector** : 24° or 38°
**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
**Finish** : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

TRIMLESS SYMMETRICAL

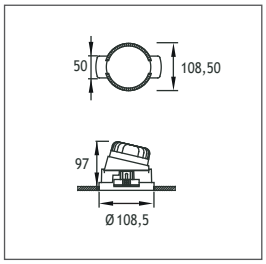





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 13W LED | 2700 K | 1235 lm | 24°,38° | 118303 |
| 13W LED | 3000 K | 1235 lm | 24°,38° | 118301 |
| 13W LED | 4000 K | 1259 lm | 24°,38° | 118302 |
| 18W LED | 2700 K | 1710 lm | 24°,38° | 118333 |
| 18W LED | 3000 K | 1710 lm | 24°,38° | 118331 |
| 18W LED | 4000 K | 1779 lm | 24°,38° | 118332 |

TRIMLESS ASYMMETRICAL






| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 13W LED | 2700 K | 1235 lm | 24°,38° | 118323 |
| 13W LED | 3000 K | 1235 lm | 24°,38° | 118321 |
| 13W LED | 4000 K | 1259 lm | 24°,38° | 118322 |
| 18W LED | 2700 K | 1710 lm | 24°,38° | 118343 |
| 18W LED | 3000 K | 1710 lm | 24°,38° | 118341 |
| 18W LED | 4000 K | 1779 lm | 24°,38° | 118342 |


Beauty



# SATURN LED DOWNLIGHT
## Class II IP20

The Saturn LED Downlight is specially designed to provide highest energy efficiency in general lighting applications. Using latest LED technology in combination with special plastic moulding and paint application allows for around 90lm/W lighting output. The highly efficient diffuser provides a completely homogenous light output.



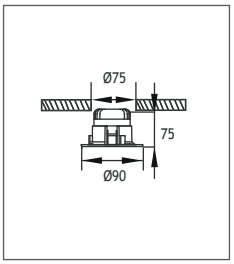
**Body**
Die cast aluminium
**Paint**
Electrostatic powder paint RAL 9016 (available in other RAL colors)
**Springs**
Steel for mounting in ceilings of 1-25mm thickness
**Gear**
Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)
**Cable**
0.5m exiting from top of fixture

**COB LED**

**Led** : 180mA 6W / 250mA 8W COB LED
**Reflector** : 10° / 38° / 60°
**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
**Finish** : EMFA Anthracite · RAL 9016 / 9005 / 7016 / 7039 / 8014 – other RAL on request

FIXED

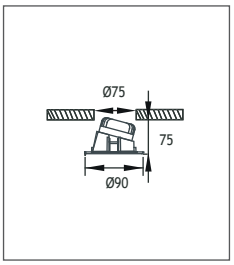




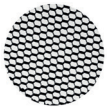

| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 10°,38°,60° | 528004 |
| 6W LED | 3000 K | 570 lm | 10°,38°,60° | 528001 |
| 6W LED | 4000 K | 581 lm | 10°,38°,60° | 528002 |
| 6W LED | 6000 K | 593 lm | 10°,38°,60° | 528003 |
| 8W LED | 2700 K | 760 lm | 10°,38°,60° | 528014 |
| 8W LED | 3000 K | 760 lm | 10°,38°,60° | 528011 |
| 8W LED | 4000 K | 774 lm | 10°,38°,60° | 528012 |
| 8W LED | 6000 K | 790 lm | 10°,38°,60° | 528013 |

ADJUSTABLE

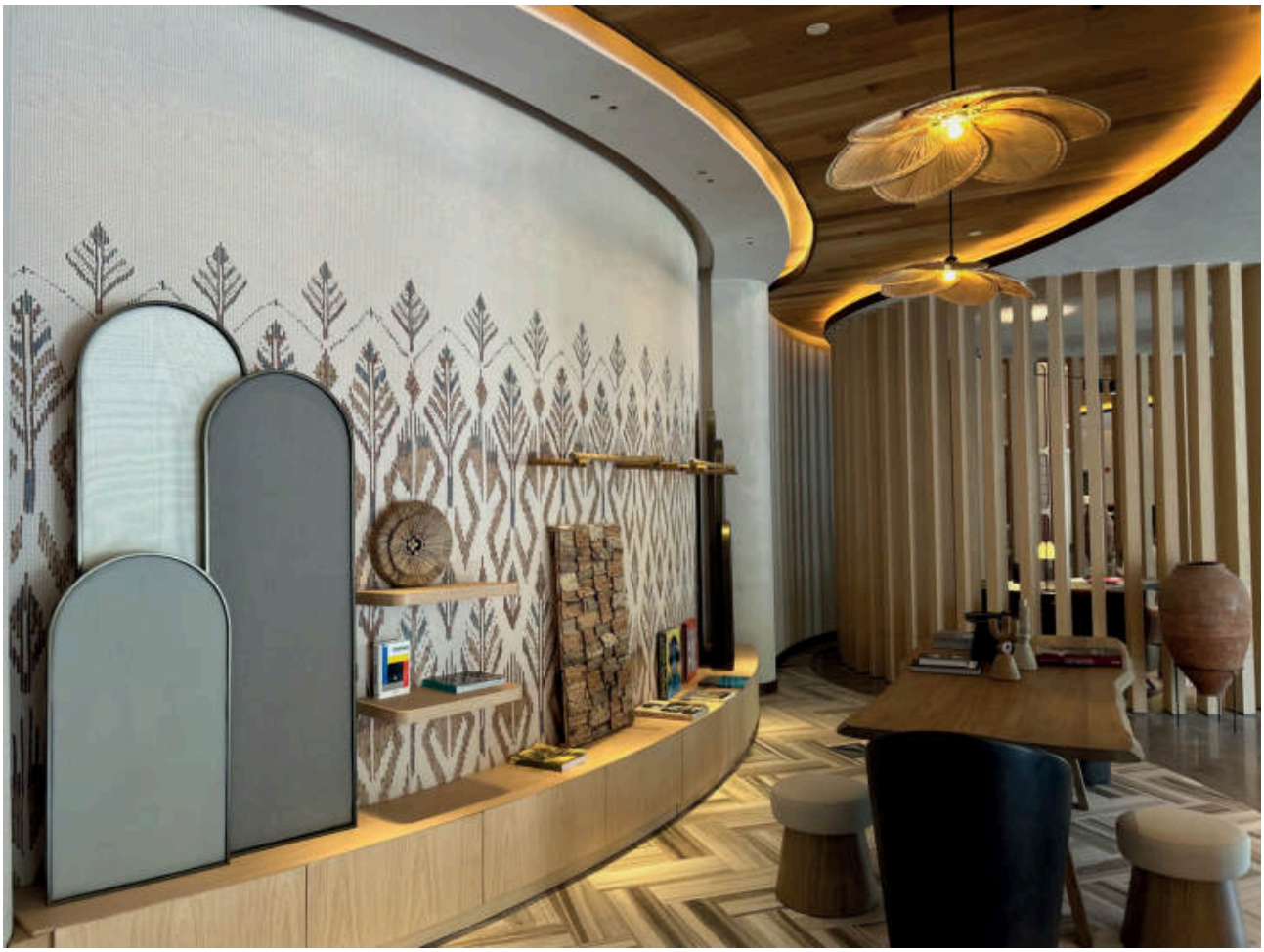





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 10°,38°,60° | 528104 |
| 6W LED | 3000 K | 570 lm | 10°,38°,60° | 528101 |
| 6W LED | 4000 K | 581 lm | 10°,38°,60° | 528102 |
| 6W LED | 6000 K | 593 lm | 10°,38°,60° | 528103 |
| 8W LED | 2700 K | 760 lm | 10°,38°,60° | 528114 |
| 8W LED | 3000 K | 760 lm | 10°,38°,60° | 528111 |
| 8W LED | 4000 K | 774 lm | 10°,38°,60° | 528112 |
| 8W LED | 6000 K | 790 lm | 10°,38°,60° | 528113 |



Honeycomb
Code No: 953956



# SATURN MINI

## DEEP LED DOWNLIGHT
## Class I IP20



**COB LED**

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

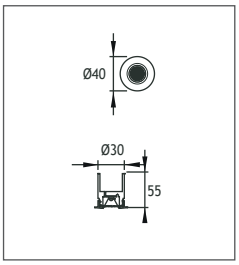
**Diffuser** : Clear Glass with painted circumference
8 mm (Frosted Glass on request)

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

**Finish** : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

SATURN MINI






| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 1W LED | 2700 K | 95 lm | 25°,40° | 529004 |
| 1W LED | 3000 K | 95 lm | 25°,40° | 529001 |
| 1W LED | 4500 K | 97 lm | 25°,40° | 529002 |
| 1W LED | 6000 K | 99 lm | 25°,40° | 529003 |
| 3W LED | 2700 K | 285 lm | 25°,40° | 529014 |
| 3W LED | 3000 K | 285 lm | 25°,40° | 529011 |
| 3W LED | 4500 K | 290 lm | 25°,40° | 529012 |
| 3W LED | 6000 K | 296 lm | 25°,40° | 529013 |

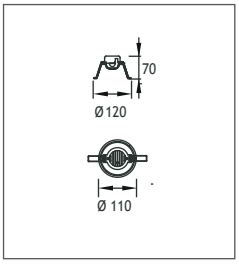
# CUNDA

## LED DOWNLIGHT
## Class II IP44

**Finish :** EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

CUNDA 1

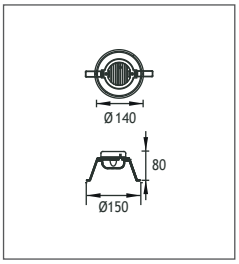





| Power | Kelvin | Real Lumen Output | Code No DOT | Code No HALO |
|---|---|---|---|---|
| 7W LED | 2700 K | 665 lm | 419203 | 419213 |
| 7W LED | 3000 K | 665 lm | 419201 | 419211 |
| 7W LED | 4000 K | 677 lm | 419202 | 419212 |

CUNDA 2






| Power | Kelvin | Real Lumen Output | Code No DOT | Code No HALO |
|---|---|---|---|---|
| 11W LED | 2700 K | 1045 lm | 419303 | 419313 |
| 11W LED | 3000 K | 1045 lm | 419301 | 419314 |
| 11W LED | 4000 K | 1065 lm | 419302 | 419315 |

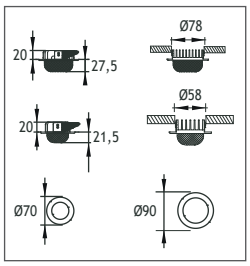
# DOT

## LED DOWNLIGHT
## Class II IP44

**Finish :** EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

DOT

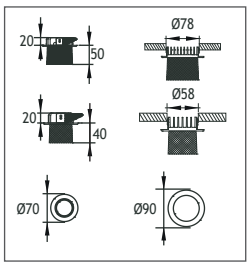





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 7W LED | 2700 K | 665 lm | 112303 |
| 7W LED | 3000 K | 665 lm | 112301 |
| 7W LED | 4000 K | 677 lm | 112302 |
| 11W LED | 2700 K | 1045 lm | 112313 |
| 11W LED | 3000 K | 1045 lm | 112311 |
| 11W LED | 4000 K | 1065 lm | 112312 |

HALO





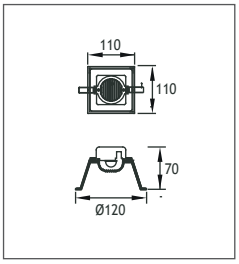

| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 7W LED | 2700 K | 665 lm | 112403 |
| 7W LED | 3000 K | 665 lm | 112401 |
| 7W LED | 4000 K | 677 lm | 112402 |
| 11W LED | 2700 K | 1045 lm | 112413 |
| 11W LED | 3000 K | 1045 lm | 112411 |
| 11W LED | 4000 K | 1065 lm | 112412 |

# PATARA

## LED DOWNLIGHT
## Class II IP44

PATARA 1

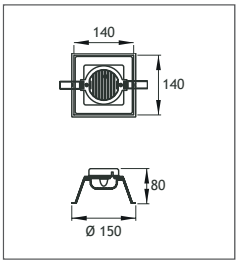





| Power | Kelvin | Real Lumen Output | Code No DOT | Code No HALO |
|---|---|---|---|---|
| 7W LED | 2700 K | 665 lm | 420303 | 420313 |
| 7W LED | 3000 K | 665 lm | 420301 | 420314 |
| 7W LED | 4000 K | 677 lm | 420302 | 420315 |

PATARA 2






| Power | Kelvin | Real Lumen Output | Code No DOT | Code No HALO |
|---|---|---|---|---|
| 7W LED | 2700 K | 665 lm | 420403 | 420413 |
| 7W LED | 3000 K | 665 lm | 420401 | 420414 |
| 7W LED | 4000 K | 677 lm | 420402 | 420415 |

# BELKIS MINI LED DOWNLIGHT
## Class I IP65

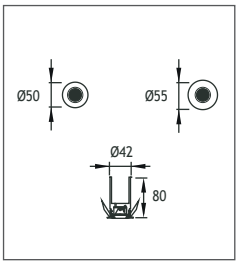
**Cover**
Die cast aluminium or Stainless steel
**Body**
Die cast aluminium
**Gaskets**
Silicone
**Diffusers**
Tempered Glass



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

BELKIS MINI






| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 1W LED | 2700 K | 95 lm | 25°,40° | 297004 |
| 1W LED | 3000 K | 95 lm | 25°,40° | 297001 |
| 1W LED | 4500 K | 97 lm | 25°,40° | 297002 |
| 1W LED | 6000 K | 99 lm | 25°,40° | 297003 |
| 3W LED | 2700 K | 285 lm | 25°,40° | 297014 |
| 3W LED | 3000 K | 285 lm | 25°,40° | 297011 |
| 3W LED | 4500 K | 290 lm | 25°,40° | 297012 |
| 3W LED | 6000 K | 296 lm | 25°,40° | 297013 |

# MARATHON

## LED DOWNLIGHT
## Class II IP65 IK10



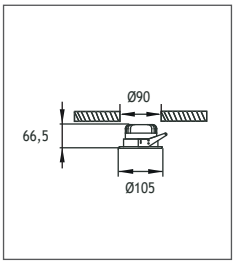
**Body**
Die cast aluminium designed to be heat sink
**Cover**
Die cast aluminium RAL9002 (available in other RAL colors as well as chrome or gold on request)
**Diffuser**
Clear of frosted tempered Glass
**Springs**
Stainless steel for mounting in ceilings or 1-25 mm
(with plastic covers for the Marathon 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)

**COB LED (350-500 mA)**

**Led** : COB LED (350-500mA)
**Reflector** : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector
**Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
**Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
**Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
**Cable** : 0,5 m 2x0,75 mm H03 VV-F
**Finish** : EMFA Anthracite · RAL 9016 / 9005 / 7016 / 7039 / 8014 — other RAL on request

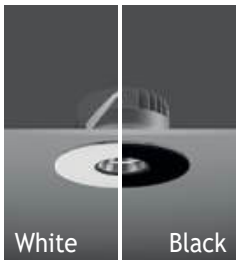
MARATHON 2

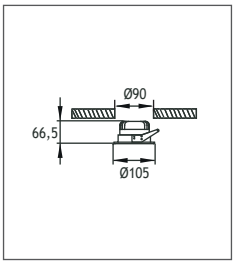





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 11W LED | 2700 K | 1045 lm | 10°,23°,38° | 260101 |
| 11W LED | 3000 K | 1045 lm | 10°,23°,38° | 260102 |
| 11W LED | 4000 K | 1065 lm | 10°,23°,38° | 260103 |
| 18W LED | 2700 K | 1710 lm | 10°,23°,38° | 260113 |
| 18W LED | 3000 K | 1710 lm | 10°,23°,38° | 260111 |
| 18W LED | 4000 K | 1779 lm | 10°,23°,38° | 260112 |

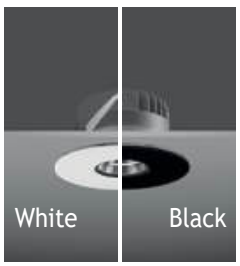
MARATHON 2 GLASS

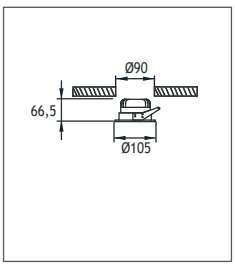



| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 11W LED | 2700 K | 1045 lm | 10°,23°,38° | 263001 |
| 11W LED | 3000 K | 1045 lm | 10°,23°,38° | 263002 |
| 11W LED | 4000 K | 1065 lm | 10°,23°,38° | 263003 |
| 18W LED | 2700 K | 1710 lm | 10°,23°,38° | 263011 |
| 18W LED | 3000 K | 1710 lm | 10°,23°,38° | 263012 |
| 18W LED | 4000 K | 1744 lm | 10°,23°,38° | 263013 |

MARATHON 2 GLASS




| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 11W LED | 2700 K | 1045 lm | 10°,23°,38° | 263201 |
| 11W LED | 3000 K | 1045 lm | 10°,23°,38° | 263202 |
| 11W LED | 4000 K | 1065 lm | 10°,23°,38° | 263203 |
| 18W LED | 2700 K | 1710 lm | 10°,23°,38° | 263211 |
| 18W LED | 3000 K | 1710 lm | 10°,23°,38° | 263212 |
| 18W LED | 4000 K | 1744 lm | 10°,23°,38° | 263213 |



# MARATHON

## TIR LENS LED DOWNLIGHT
## Class II IP65 IK10



**COB LED (350-700 mA)**

**Lens** : 10°, 20°, 30° Mirror TIR Lens

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

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

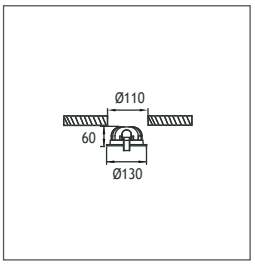
**Springs** : Stainless Steel for mounting in ceilings of 1-25 mm

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

**Finish** : EMFA Anthracite · RAL 9016 / 9005 / 7016 / 7039 / 8014 – other RAL on request

MARATHON 3

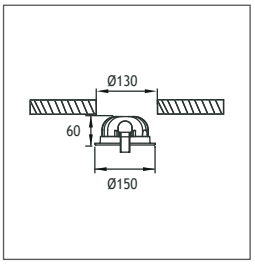




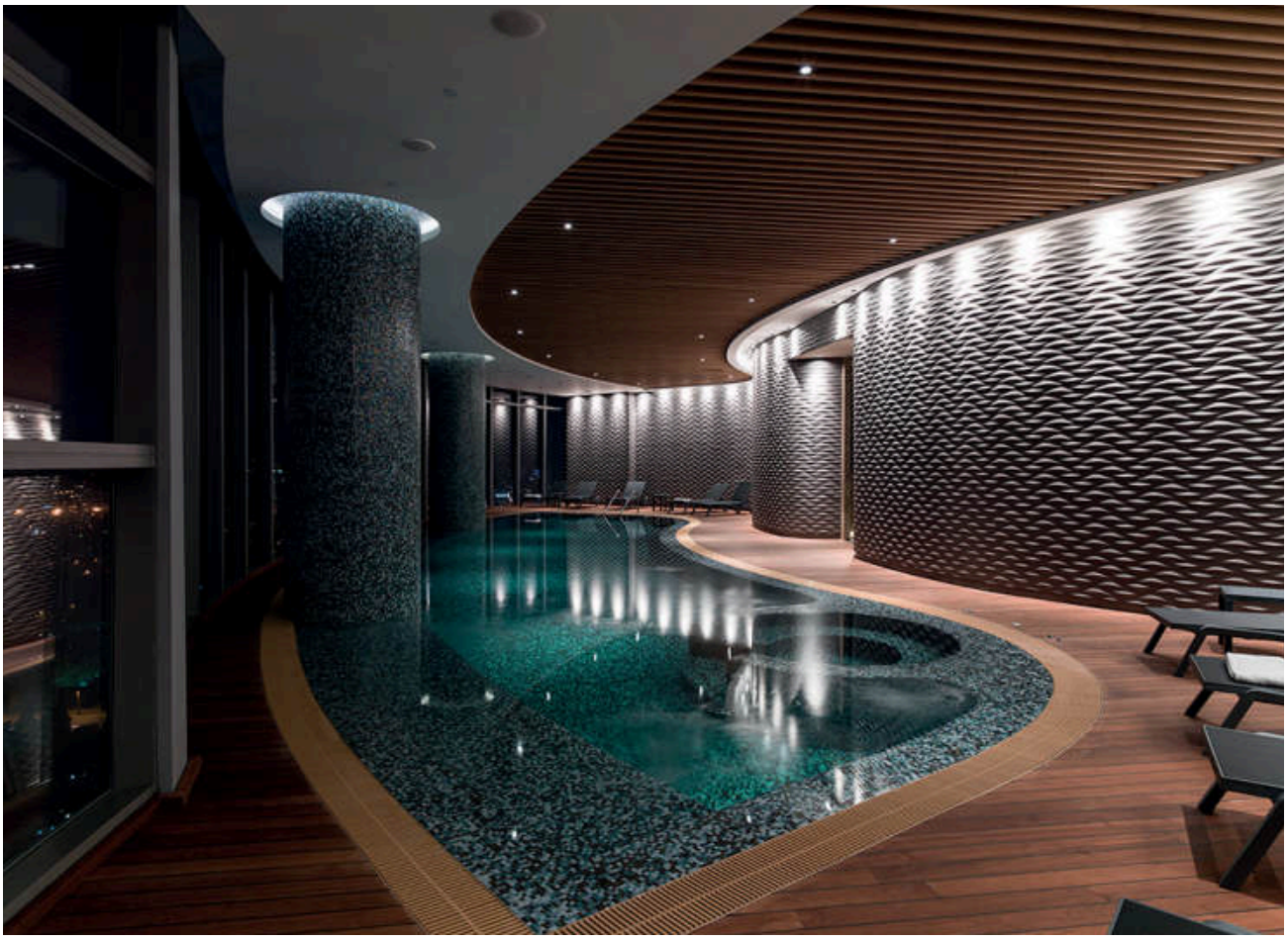

| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 11W LED | 2700 K | 1045 lm | 10°,20°,30° | 261003 |
| 11W LED | 3000 K | 1045 lm | 10°,20°,30° | 261001 |
| 11W LED | 4000 K | 1065 lm | 10°,20°,30° | 261002 |
| 18W LED | 2700 K | 1710 lm | 10°,20°,30° | 261013 |
| 18W LED | 3000 K | 1710 lm | 10°,20°,30° | 261011 |
| 18W LED | 4000 K | 1779 lm | 10°,20°,30° | 261012 |

MARATHON 4





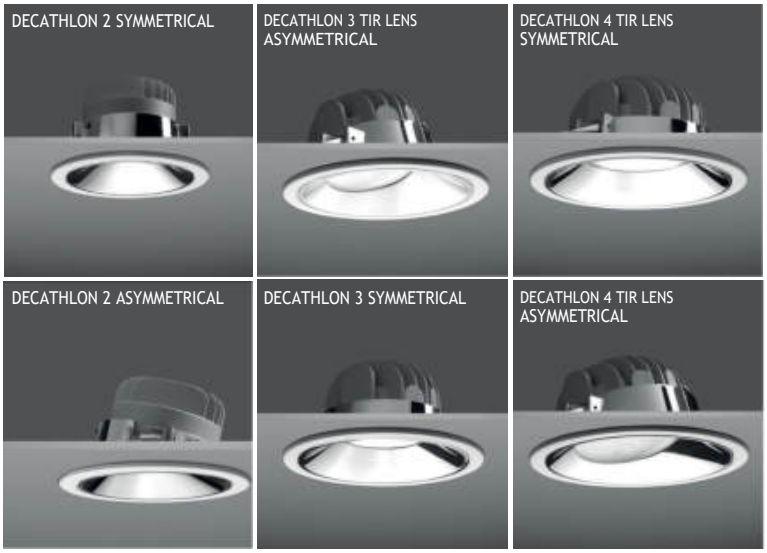

| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 25W LED | 2700 K | 2375 lm | 10°,20°,30° | 262003 |
| 25W LED | 3000 K | 2375 lm | 10°,20°,30° | 262001 |
| 25W LED | 4000 K | 2422 lm | 10°,20°,30° | 262002 |
| 32W LED | 2700 K | 3040 lm | 10°,20°,30° | 262023 |
| 32W LED | 3000 K | 3040 lm | 10°,20°,30° | 262021 |
| 32W LED | 4000 K | 3100 lm | 10°,20°,30° | 262022 |



# DECATHLON LED DOWNLIGHT
## Class III 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)




**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.

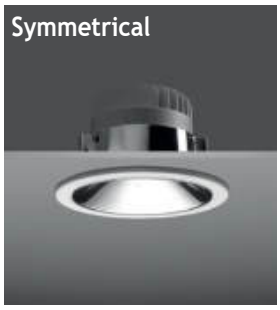


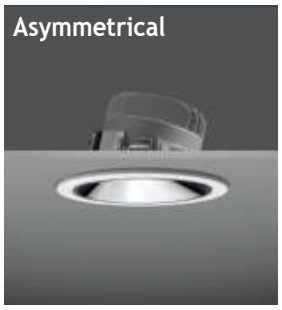
**LEDs**
Only highest quality LEDs such as Cree or Toplite are used in production allowing for maximum lumen output and maximum lifetime. Most LEDs run on 350mA or 700mA depending on how much light output is required. The white color temperature binning is 200K at most, and always on the same x,y coordinates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

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



# DECATHLON LED DOWNLIGHT
## Class III IP65 IK10




**COB CREE LED (350-700mA)**

**Reflector** : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector

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

**Gear** : 240V Non-Dimmable Driver

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

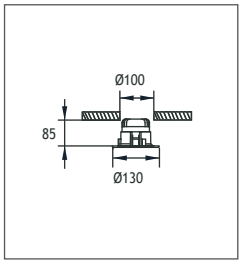
**Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm

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

**Finish** : EMFA Anthracite · RAL 9016 / 9005 / 7016 / 7039 / 8014 – other RAL on request

DECATHLON 2 SYMMETRICAL

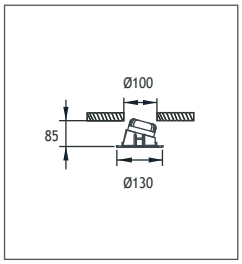




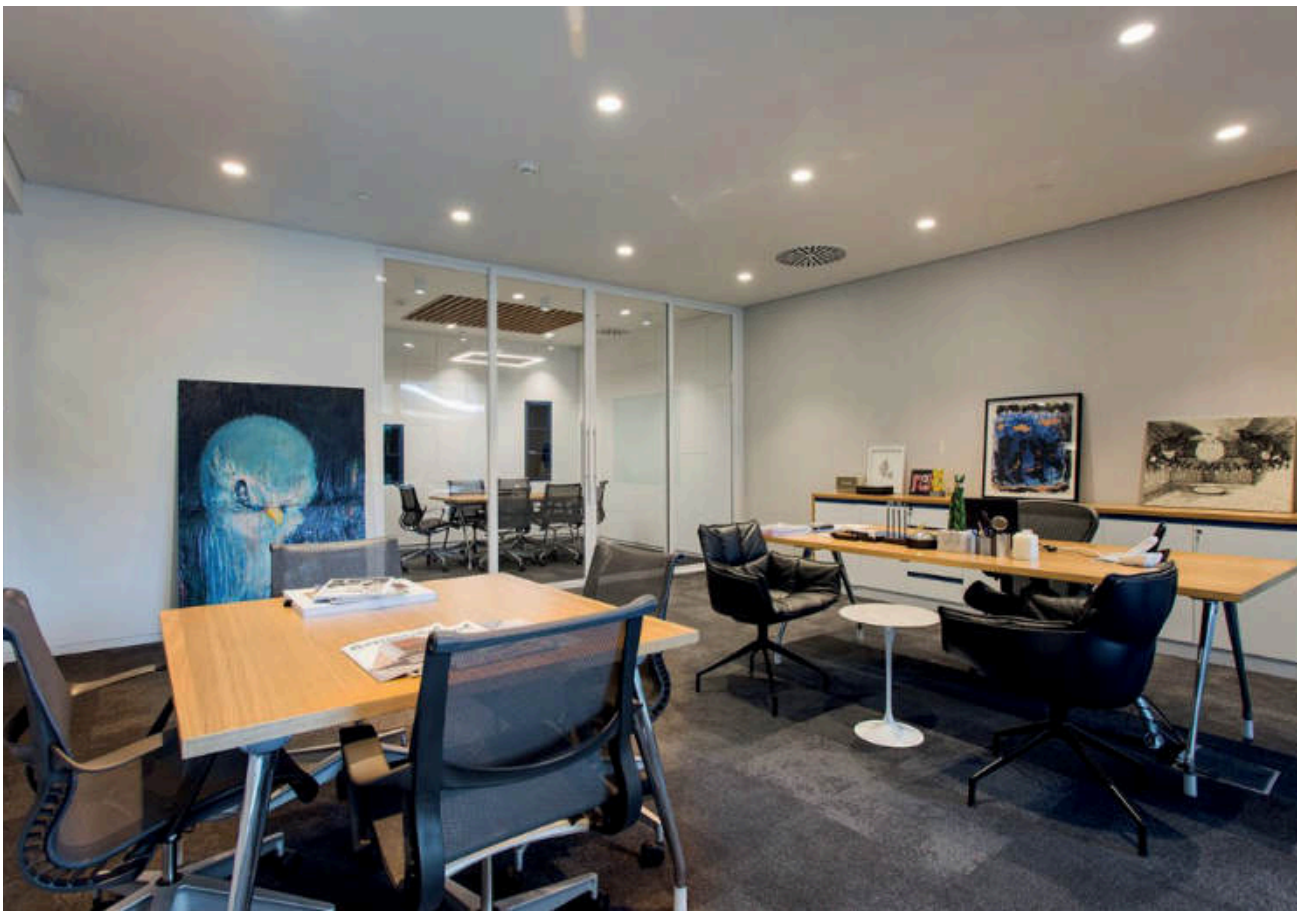

| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 13W 350mA | 2700 K | 1235 lm | 10°,23°,38° | 260201 |
| 13W 350mA | 3000 K | 1235 lm | 10°,23°,38° | 260202 |
| 13W 350mA | 4000 K | 1259 lm | 10°,23°,38° | 260203 |
| 18W 500mA | 2700 K | 1710 lm | 10°,23°,38° | 260211 |
| 18W 500mA | 3000 K | 1710 lm | 10°,23°,38° | 260212 |
| 18W 500mA | 4000 K | 1779 lm | 10°,23°,38° | 260213 |

DECATHLON 2 ASYMMETRICAL





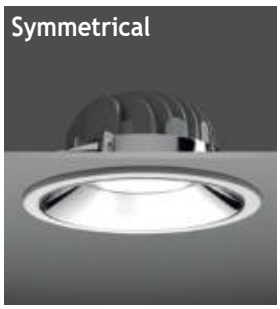

| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 13W 350mA | 2700 K | 1235 lm | 10°,23°,38° | 260231 |
| 13W 350mA | 3000 K | 1235 lm | 10°,23°,38° | 260232 |
| 13W 350mA | 4000 K | 1259 lm | 10°,23°,38° | 260233 |
| 18W 500mA | 2700 K | 1710 lm | 10°,23°,38° | 260241 |
| 18W 500mA | 3000 K | 1710 lm | 10°,23°,38° | 260242 |
| 18W 500mA | 4000 K | 1779 lm | 10°,23°,38° | 260243 |

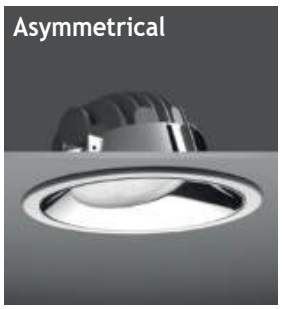




# DECATHLON

## TIR LENS LED DOWNLIGHT
## Class II IP65 IK10



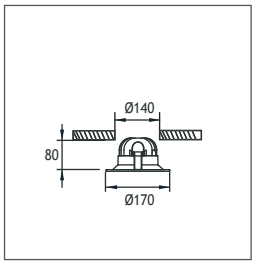




**COB CREE LED (350-700mA)**

**Reflector** : 10°, 20°, 30° 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
**Finish** : EMFA Anthracite · RAL 9016 / 9005 / 7016 / 7039 / 8014 – other RAL on request

DECATHLON 3 SYMMETRICAL

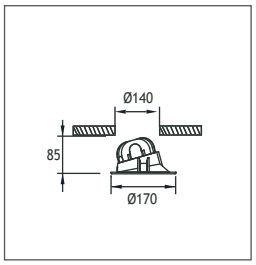





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 11W LED | 2700 K | 1045 lm | 10°,20°,30° | 266002 |
| 11W LED | 3000 K | 1045 lm | 10°,20°,30° | 266001 |
| 11W LED | 4000 K | 1065 lm | 10°,20°,30° | 266003 |
| 18W LED | 2700 K | 1710 lm | 10°,20°,30° | 266022 |
| 18W LED | 3000 K | 1710 lm | 10°,20°,30° | 266021 |
| 18W LED | 4000 K | 1779 lm | 10°,20°,30° | 266023 |

DECATHLON 3 ASYMMETRICAL

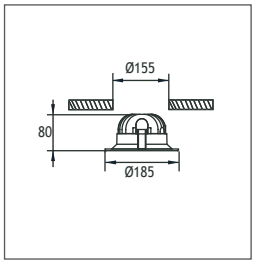





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 11W LED | 2700 K | 1045 lm | 10°,20°,30° | 266102 |
| 11W LED | 3000 K | 1045 lm | 10°,20°,30° | 266101 |
| 11W LED | 4000 K | 1065 lm | 10°,20°,30° | 266103 |
| 18W LED | 2700 K | 1710 lm | 10°,20°,30° | 266122 |
| 18W LED | 3000 K | 1710 lm | 10°,20°,30° | 266121 |
| 18W LED | 4000 K | 1779 lm | 10°,20°,30° | 266123 |

DECATHLON 4 SYMMETRICAL

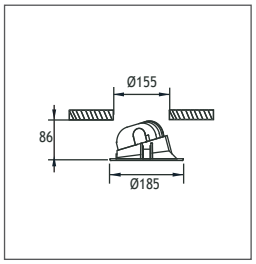





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 25W LED | 2700 K | 2375 lm | 10°,20°,30° | 267002 |
| 25W LED | 3000 K | 2375 lm | 10°,20°,30° | 267001 |
| 25W LED | 4000 K | 2422 lm | 10°,20°,30° | 267003 |
| 32W LED | 2700 K | 3040 lm | 10°,20°,30° | 267022 |
| 32W LED | 3000 K | 3040 lm | 10°,20°,30° | 267021 |
| 32W LED | 4000 K | 3100 lm | 10°,20°,30° | 267023 |

DECATHLON 4 ASYMMETRICAL






| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 25W LED | 2700 K | 2375 lm | 10°,20°,30° | 267102 |
| 25W LED | 3000 K | 2375 lm | 10°,20°,30° | 267101 |
| 25W LED | 4000 K | 2422 lm | 10°,20°,30° | 267103 |
| 32W LED | 2700 K | 3040 lm | 10°,20°,30° | 267122 |
| 32W LED | 3000 K | 3040 lm | 10°,20°,30° | 267121 |
| 32W LED | 4000 K | 3100 lm | 10°,20°,30° | 267123 |



# TRIATHLON

## LED DOWNLIGHT
## Class II IP55 IK08

The Triathlon LED Downlight is specially designed to provide highest energy efficiency in general lighting applications. Using latest LED technology in combination with special plastic moulding and paint application allows for around 90lm/W lighting output. The highly efficient diffuser provides a completely homogenous light output. The simple installation method allows for easy installation into ceilings from 1-25mm thickness. One can choose from three compact sizes, 120mm, 150mm, and 175mm to achieve the desired lighting level.



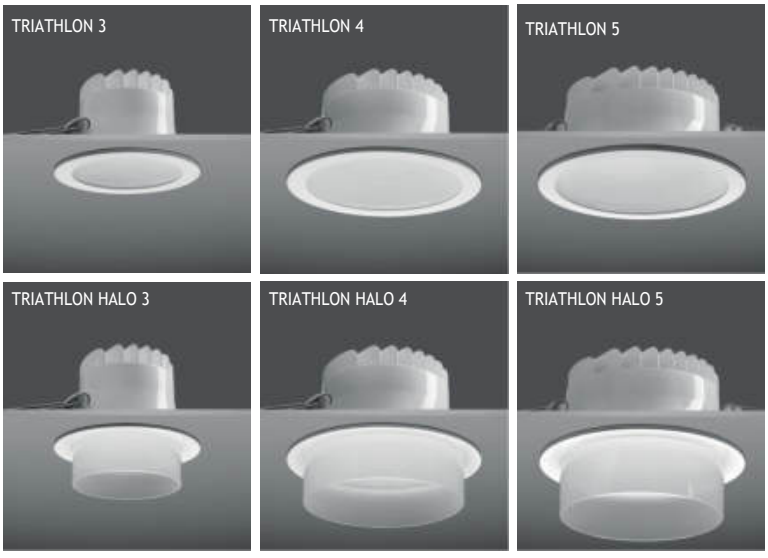
**Body**
Die cast aluminium
**Paint**
Electrostatic powder paint RAL 9016 (available in other RAL colors)
**Diffuser**
High efficiency frosted acrylic diffuser with 90º beam angle
**Springs**
Steel for mounting in ceilings of 1-25mm thickness
**Gear**
Non-Dimmable electronic LED driver (1-10V Dimmable and DALI drivers available on request)
**Cable**
0.5m exiting from top of fixture

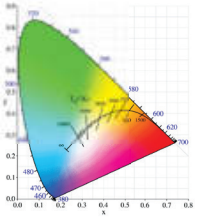
**Downlight**



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

**“Customization” is EMFA’s standard**
EMFA offers many combinations for each fixture, as all fixtures are made in house. A combination of 4 standard paint colors, 3 white tones, 3 wattages, and 3 or more lenses and reflectors are available to make the fixture suitable for the required application. This is done without increasing lead-time and is available for large as well as small quantities.



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

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

# TRIATHLON

## LED DOWNLIGHT
## Class II IP55 IK08



**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)

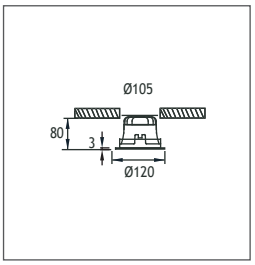
**Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm

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

**Finish** : EMFA Anthracite · RAL 9016 / 9005 / 7016 / 7039 / 8014 – other RAL on request

TRIATHLON 3

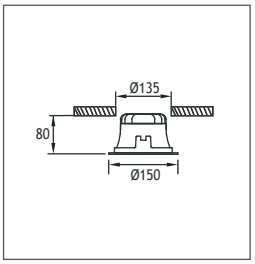





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 90° | 268301 |
| 6W LED | 3000 K | 570 lm | 90° | 268302 |
| 8W LED | 2700 K | 760 lm | 90° | 268311 |
| 8W LED | 3000 K | 760 lm | 90° | 268312 |
| 10W LED | 2700 K | 950 lm | 90° | 268321 |
| 10W LED | 3000 K | 950 lm | 90° | 268322 |

TRIATHLON 4

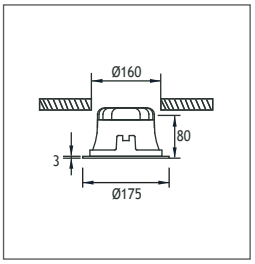





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 11W LED | 2700 K | 1045 lm | 90° | 268401 |
| 11W LED | 3000 K | 1045 lm | 90° | 268402 |
| 16W LED | 2700 K | 1520 lm | 90° | 268411 |
| 16W LED | 3000 K | 1520 lm | 90° | 268412 |
| 20W LED | 2700 K | 1900 lm | 90° | 268421 |
| 20W LED | 3000 K | 1900 lm | 90° | 268422 |

TRIATHLON 5






| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 16W LED | 2700 K | 1520 lm | 90° | 268501 |
| 16W LED | 3000 K | 1520 lm | 90° | 268502 |
| 24W LED | 2700 K | 2280 lm | 90° | 268511 |
| 24W LED | 3000 K | 2280 lm | 90° | 268512 |
| 31W LED | 2700 K | 2945 lm | 90° | 268521 |
| 31W LED | 3000 K | 2945 lm | 90° | 268522 |
| 40W LED | 2700 K | 3800 lm | 90° | 268531 |
| 40W LED | 3000 K | 3800 lm | 90° | 268532 |

# TRIATHLON HALO

## LED DOWNLIGHT
## Class II IP55 IK08



**Osram SMD LEDs**

**Reflector** : 90º

**Diffuser** : High efficiency frosted acrylic diffuser with 90º beam angle

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

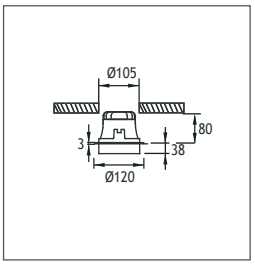
**Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm

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

**Finish** : EMFA Anthracite · RAL 9016 / 9005 / 7016 / 7039 / 8014 – other RAL on request

TRIATHLON HALO 3

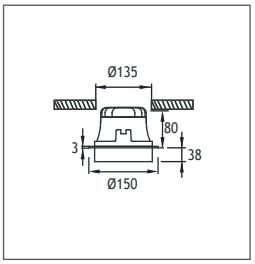





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 6W 350mA | 2700 K | 570 lm | 90° | 269301 |
| 6W 350mA | 3000 K | 570 lm | 90° | 269302 |
| 8W 500mA | 2700 K | 760 lm | 90° | 269311 |
| 8W 500mA | 3000 K | 760 lm | 90° | 269312 |
| 10W 700mA | 2700 K | 950 lm | 90° | 269321 |
| 10W 700mA | 3000 K | 950 lm | 90° | 269322 |

TRIATHLON HALO 4

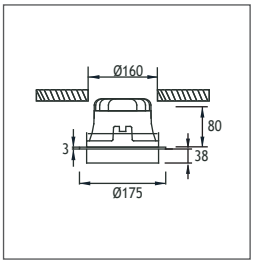





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 11W 350mA | 2700 K | 1045 lm | 90° | 269401 |
| 11W 350mA | 3000 K | 1045 lm | 90° | 269402 |
| 16W 500mA | 2700 K | 1520 lm | 90° | 269411 |
| 16W 500mA | 3000 K | 1520 lm | 90° | 269412 |
| 20W 700mA | 2700 K | 1900 lm | 90° | 269421 |
| 20W 700mA | 3000 K | 1900 lm | 90° | 269422 |

TRIATHLON HALO 5






| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 16W 350mA | 2700 K | 1520 lm | 90° | 269501 |
| 16W 350mA | 3000 K | 1520 lm | 90° | 269502 |
| 24W 500mA | 2700 K | 2280 lm | 90° | 269511 |
| 24W 500mA | 3000 K | 2280 lm | 90° | 269512 |
| 31W 700mA | 2700 K | 2945 lm | 90° | 269521 |
| 31W 700mA | 3000 K | 2945 lm | 90° | 269522 |

# BELKIS

## RECESSED FIXTURES
## Downlights (For False Ceiling)
## Class III IP67 IK10







**LED LAMP**

**Lampholder** : Gu4 / Gu10 / E27

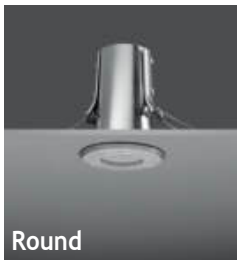
**Reflector** : -

**Diffuser** : 6 mm Tempered Glass
(8mm Tempered Glass for BELKIS 5)

Transformer is not included.

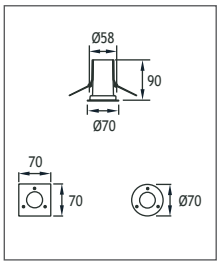
Remote transformer should be used.

BELKIS 1









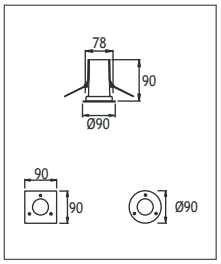

| Power | Lampholder | Class | Code No Round | Square |
|---|---|---|---|---|
| 12V Led Lamp | Gu4 | I | 321101 | 321201 |

BELKIS 2









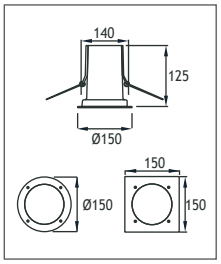

| Power | Lampholder | Class | Code No Round | Square |
|---|---|---|---|---|
| Led Lamp | Gu10 | I | 323121 | 323221 |

BELKIS 5

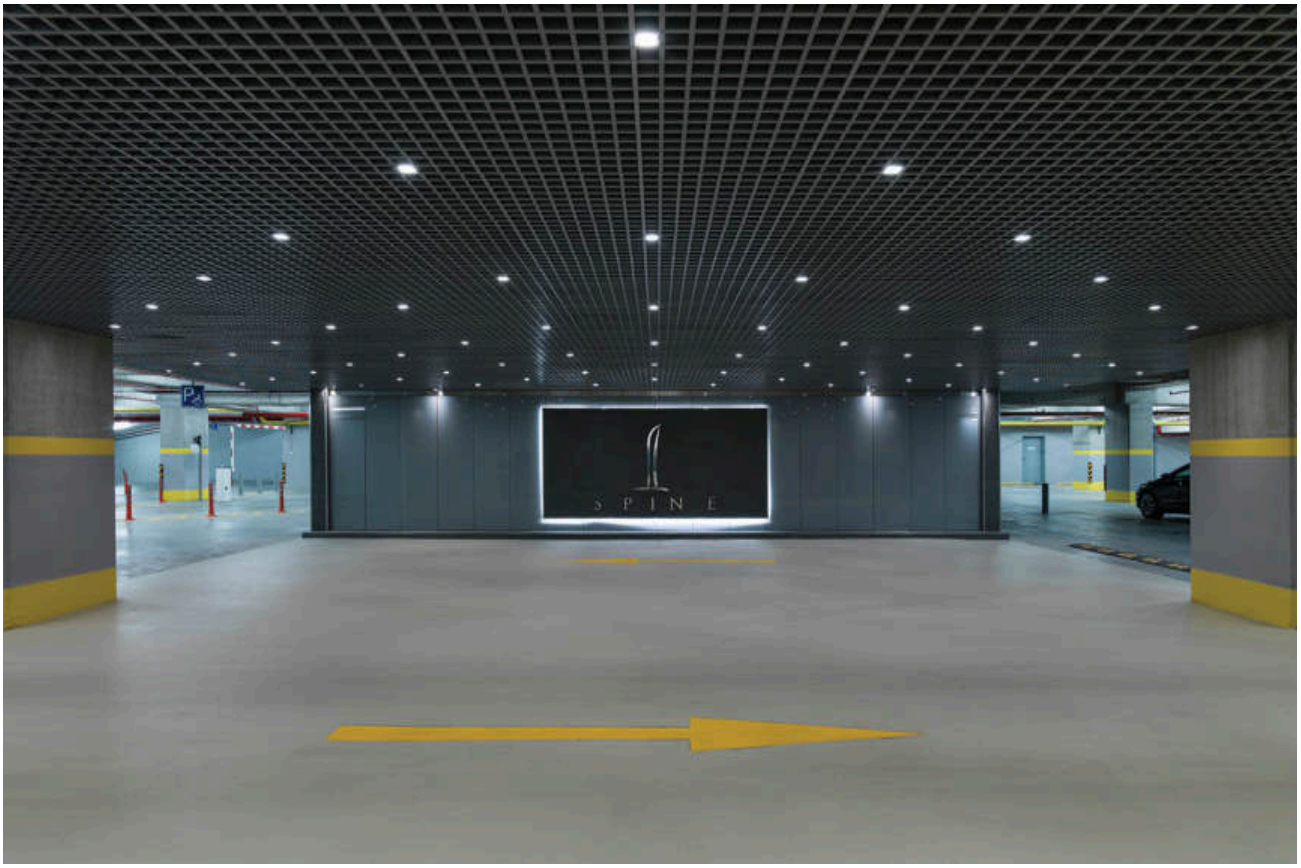









| Power | Lampholder | Class | Code No Round | Square |
|---|---|---|---|---|
| PAR30 Led Lamp | E27 | I | 325111 | 325211 |


SPINE

# DYO DOWNLIGHT FIXTURES IP20



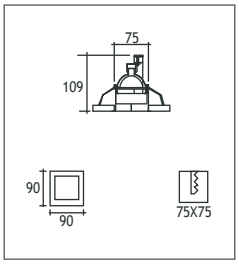




**COB LED**
**Class** : II
**Lampholder** : Gu10
**Reflector** : -
**Diffuser** : -
**Finish** : EMFA Anthracite · RAL 9016 / 9005 / 7016 / 7039 / 8014 – other RAL on request

DYO SINGLE



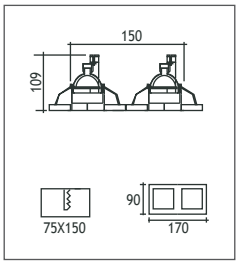



| Power | Kelvin | Real Lumen Output | Code No Fixed | Adjustable |
|---|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 133304 | 133324 |
| 6W LED | 3000 K | 570 lm | 133301 | 133321 |
| 6W LED | 4000 K | 581 lm | 133302 | 133322 |
| 6W LED | 6000 K | 593 lm | 133303 | 133323 |
| 8W LED | 2700 K | 760 lm | 133314 | 133334 |
| 8W LED | 3000 K | 760 lm | 133311 | 133331 |
| 8W LED | 4000 K | 774 lm | 133312 | 133332 |
| 8W LED | 6000 K | 790 lm | 133313 | 133333 |

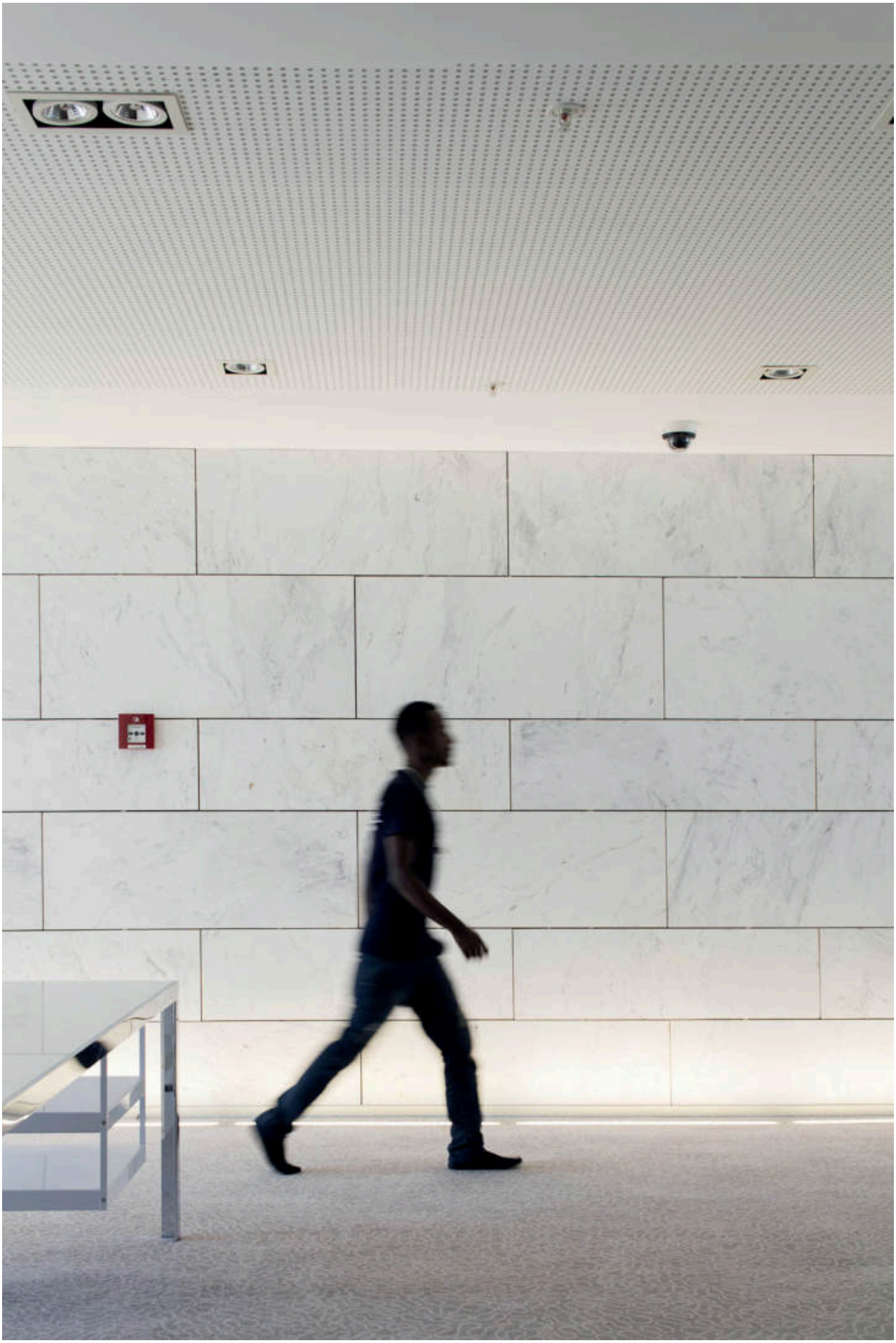
| Power | Glass | Lampholder | Class | Code No Fixed | Adjustable |
|---|---|---|---|---|---|
| Led Lamp | Without Glass | Gu10 | II | 133111 | 133131 |
| Led Lamp | With Glass | Gu10 | II | 133211 | 133231 |

DYO TWIN






| Power | Kelvin | Real Lumen Output | Code No Fixed | Adjustable |
|---|---|---|---|---|
| 2x6W LED | 2700 K | 1140 lm | 133404 | 133424 |
| 2x6W LED | 3000 K | 1140 lm | 133401 | 133421 |
| 2x6W LED | 4000 K | 1162 lm | 133402 | 133422 |
| 2x6W LED | 6000 K | 1186 lm | 133403 | 133423 |
| 2x8W LED | 2700 K | 1520 lm | 133414 | 133434 |
| 2x8W LED | 3000 K | 1520 lm | 133411 | 133431 |
| 2x8W LED | 4000 K | 1548 lm | 133412 | 133432 |
| 2x8W LED | 6000 K | 1580 lm | 133413 | 133433 |



# CUNDA / PATARA

## RECESSED INDOOR CRADLE FIXTURES IP20

**Patara Single**



**Patara Twin**



**Cunda**

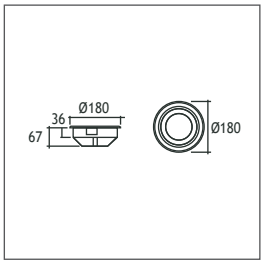


**Outer Frame**
Steel
**Cradle Frame**
Die cast aluminium
**Paint**
Electrostatic powder

**Class** : I
**Lampholder** : E27
**Reflector** : -
**Diffuser** : -

CUNDA ROUND



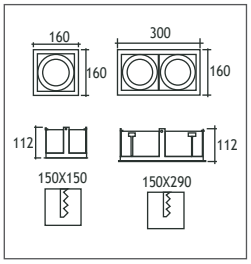



| Power | Lampholder | Class | Code No |
|---|---|---|---|
| PAR30 Led Lamp | E 27 | I | 419111 |

PATARA SINGLE 2 x 12V 50W








| Power | Lampholder | Class | Code No Round | Code No Square |
|---|---|---|---|---|
| PAR 30 Led Lamp | E 27 | I | 420111 | 420211 |

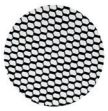
# MILET HOLE SPOT DOWNLIGHT IP20



**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

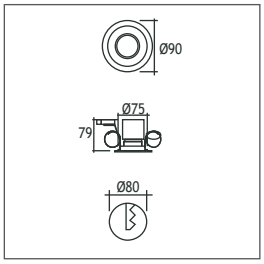
**LED**

**Lampholder** : Gu10
**Reflector** : -
**Diffuser** : -
**Finish** : EMFA Anthracite · RAL 9016 / 9005 / 7016 / 7039 / 8014 – other RAL on request



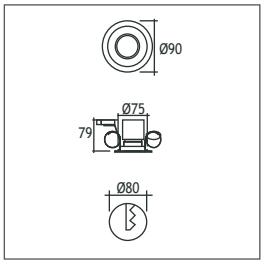
HONEYCOMB FOR MILET HOLE SPOT DOWNLIGHT
Code No: 953961






| Power | Lampholder | Code No |
|---|---|---|
| Led Lamp | Gu10 | 113401 |






| Power | Kelvin | Real Lumen Output | Lens | Code No Fixed | Code No Adjustable |
|---|---|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 10°,38°,60° | 113424 | 113444 |
| 6W LED | 3000 K | 570 lm | 10°,38°,60° | 113421 | 113441 |
| 6W LED | 4000 K | 581 lm | 10°,38°,60° | 113422 | 113442 |
| 6W LED | 6000 K | 593 lm | 10°,38°,60° | 113423 | 113443 |
| 8W LED | 2700 K | 760 lm | 10°,38°,60° | 113434 | 113454 |
| 8W LED | 3000 K | 760 lm | 10°,38°,60° | 113431 | 113451 |
| 8W LED | 4000 K | 774 lm | 10°,38°,60° | 113432 | 113452 |
| 8W LED | 6000 K | 790 lm | 10°,38°,60° | 113433 | 113453 |





# SQUARE

## SURFACE MOUNTED CEILING FIXTURES
## Class I IP65

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







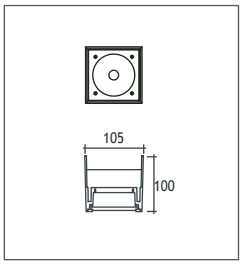



**COB LED or Power LEDs**

**Voltage** : 240V A.C with integrated Driver
(24V AC or DC on request)
**Diffuser** : Acrylic / Clear Glass 8 mm (Frosted Glass on request)
**Cable** : Potted 5 m 3x0,75 mm H03 VV-F
**Finish** : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

SQUARE DOT

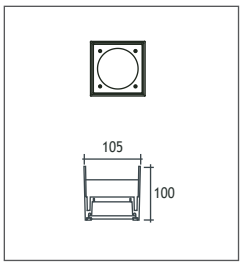





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 289043 |
| 6W LED | 3000 K | 570 lm | 289041 |
| 6W LED | 4000 K | 581 lm | 289042 |
| 11W LED | 2700 K | 1045 lm | 289003 |
| 11W LED | 3000 K | 1045 lm | 289001 |
| 11W LED | 4000 K | 1065 lm | 289002 |

SQUARE DIFFUSE GLASS

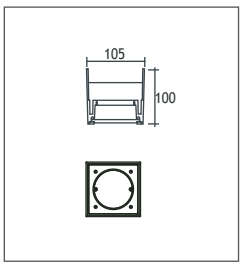





| Power | Kelvin | Real Lumen Output | Code No |
|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 289013 |
| 6W LED | 3000 K | 570 lm | 289011 |
| 6W LED | 4000 K | 581 lm | 289012 |
| 11W LED | 2700 K | 1045 lm | 289053 |
| 11W LED | 3000 K | 1045 lm | 289051 |
| 11W LED | 4000 K | 1065 lm | 289052 |

SQUARE






| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 10°,25°,40° | 289024 |
| 6W LED | 3000 K | 570 lm | 10°,25°,40° | 289021 |
| 6W LED | 4000 K | 581 lm | 10°,25°,40° | 289022 |
| 6W LED | 6000 K | 593 lm | 10°,25°,40° | 289023 |
| 11W LED | 2700 K | 1045 lm | 10°,20°,30° | 289031 |
| 11W LED | 3000 K | 1045 lm | 10°,20°,30° | 289032 |
| 11W LED | 4000 K | 1065 lm | 10°,20°,30° | 289033 |
| 11W LED | 6000 K | 1088 lm | 10°,20°,30° | 289034 |

# MARATHON 2 GLASS

## SURFACE MOUNTED CEILING FIXTURES
## Class I IP65

Glass available in these pastel colors

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

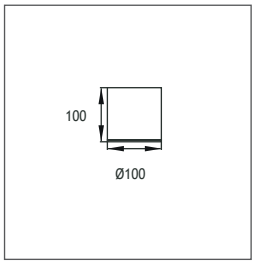




**COB LED (350-500mA)**

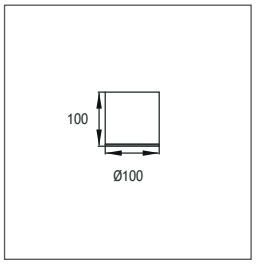
**Reflector** : 10°, 23°, 38° Aluminium-Coated Polycarbonate Reflector
**Diffuser** : Clear Glass 8 mm (Frosted Glass on request)
**Gear** : 240V Non-Dimmable Driver
(1-10V Dimmable Driver & DALI Driver available on request)
**Springs** : Plastic covered Stainless Steel for mounting in ceilings of 1-25 mm
**Cable** : 0,5 m 2x0,75 mm H03 VV-F






| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 3W LED | 2700 K | 285 lm | 10°,23°,38° | 260301 |
| 3W LED | 3000 K | 285 lm | 10°,23°,38° | 260302 |
| 3W LED | 4000 K | 290 lm | 10°,23°,38° | 260303 |
| 11W LED | 2700 K | 1045 lm | 10°,23°,38° | 260333 |
| 11W LED | 3000 K | 1045 lm | 10°,23°,38° | 260331 |
| 11W LED | 4000 K | 1065 lm | 10°,23°,38° | 260332 |






| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 3W LED | 2700 K | 285 lm | 10°,23°,38° | 260402 |
| 3W LED | 3000 K | 285 lm | 10°,23°,38° | 260401 |
| 3W LED | 4000 K | 290 lm | 10°,23°,38° | 260403 |
| 11W LED | 2700 K | 1045 lm | 10°,23°,38° | 260433 |
| 11W LED | 3000 K | 1045 lm | 10°,23°,38° | 260431 |
| 11W LED | 4000 K | 1065 lm | 10°,23°,38° | 260432 |

# DECATHLON 3

## SURFACE MOUNTED CEILING FIXTURES
## Class I IP55

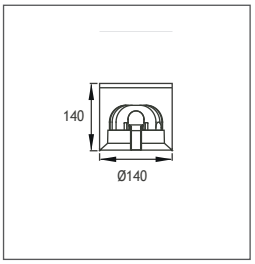


**Body**
Die cast aluminium
**Paint**
Electrostatic powder
**Bracket**
Die cast aluminium
**Diffusers**
Tempered glass
**Gaskets**
Silicone
**Connection**
IP connection box

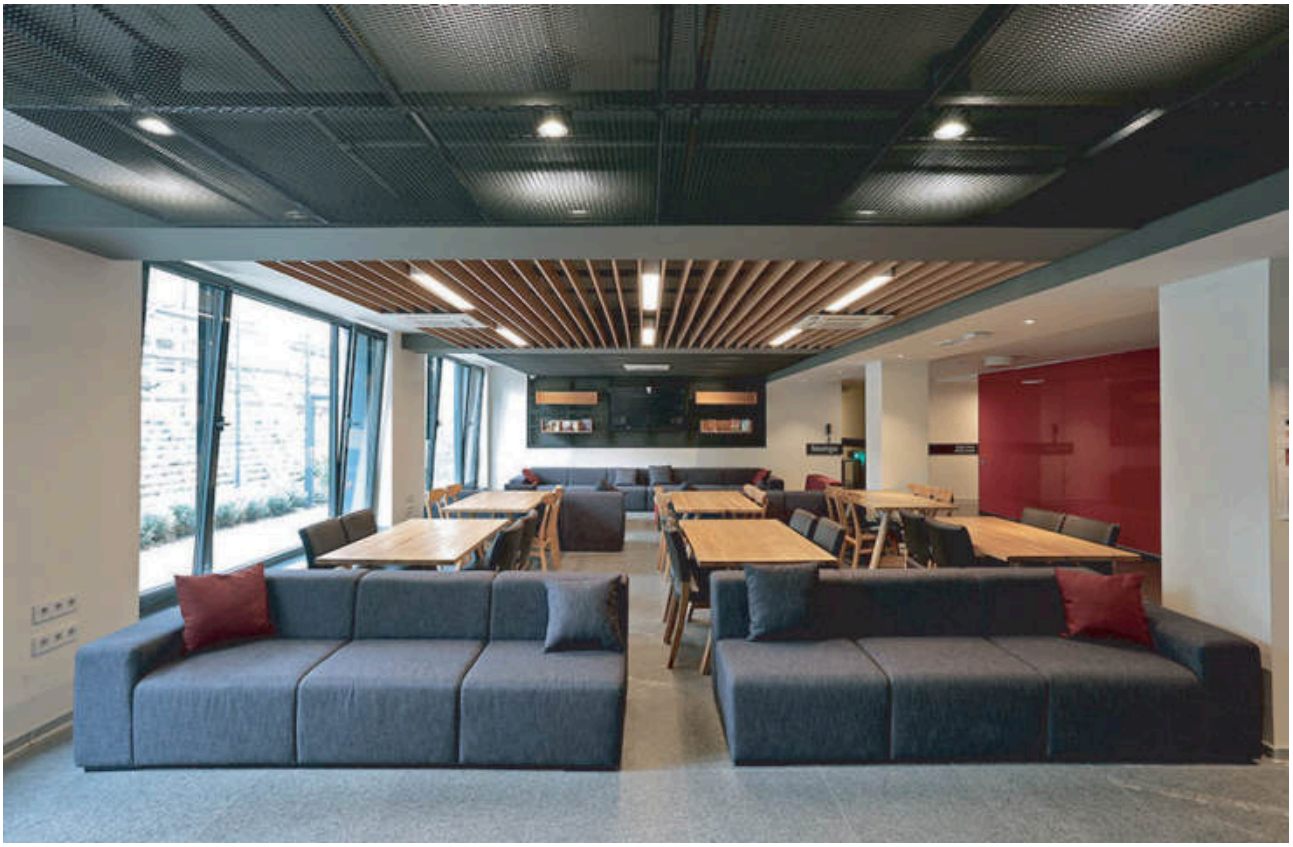
**POWER LED**

**Voltage** : 240V A.C with integrated Driver (24V AC or DC on request)
**Lens** : 10°, 25°, 40°
**Diffuser** : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
**Cable** : Potted 5 m 3x0,75 H03 VV-F
**Finish** : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 — other RAL on request






| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 10°,25°,40° | 266204 |
| 6W LED | 3000 K | 570 lm | 10°,25°,40° | 266201 |
| 6W LED | 4500 K | 581 lm | 10°,25°,40° | 266202 |
| 6W LED | 6000 K | 612 lm | 10°,25°,40° | 266203 |
| 12W LED | 2700 K | 1140 lm | 10°,25°,40° | 266304 |
| 12W LED | 3000 K | 1140 lm | 10°,25°,40° | 266301 |
| 12W LED | 4500 K | 1162 lm | 10°,25°,40° | 266302 |
| 12W LED | 6000 K | 1224 lm | 10°,25°,40° | 266303 |





# BELKIS 2

## SURFACE MOUNTED CEILING FIXTURES
## Class I IP65



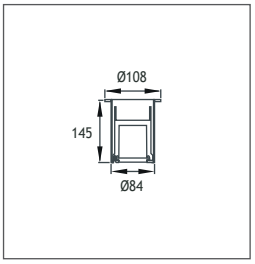
**Body**
Die cast aluminium
**Paint**
Electrostatic powder
**Bracket**
Die cast aluminium
**Diffusers**
Tempered glass
**Gaskets**
Silicone
**Connection**
IP connection box

**COB LED**

**Voltage** : 240V A.C with integrated Driver (24V AC or DC on request)
**Lens** : 10°, 25°, 40°
**Diffuser** : Clear Glass with painted circumference 8 mm (Frosted Glass on request)
**Cable** : Potted 5 m 3x0,75 H03 VV-F
**Finish** : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

Single color LED options upon request are ;
Blue Amber Green Red






| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 3W LED | 2700 K | 285 lm | 10°,25°,40° | 435004 |
| 3W LED | 3000 K | 285 lm | 10°,25°,40° | 435001 |
| 3W LED | 4500 K | 290 lm | 10°,25°,40° | 435002 |
| 3W LED | 6000 K | 296 lm | 10°,25°,40° | 435003 |
| 9W LED | 2700 K | 855 lm | 10°,25°,40° | 435014 |
| 9W LED | 3000 K | 855 lm | 10°,25°,40° | 435011 |
| 9W LED | 4500 K | 872 lm | 10°,25°,40° | 435012 |
| 9W LED | 6000 K | 890 lm | 10°,25°,40° | 435013 |



# BELKIS

## SURFACE MOUNTED CEILING FIXTURES
## Class I IP44

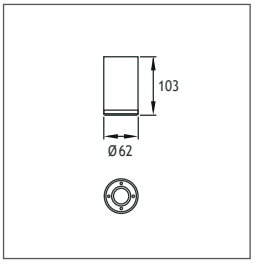


**POWER LED, LED LAMP or METAL HALIDE**

**Voltage** : 240V A.C with integrated Driver (24V AC or DC on request)
**Lens** : 10°, 20°, 25°, 30°, 40°
**Diffuser** : 4mm Frosted Glass for LED LAMP
Clear Glass with painted circumference 8 mm
**Lampholder** : G9, Gu10, E27, G12
**Cable** : Potted 5 m 3x0,75 H03 VV-F
**Finish** : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

BELKIS 1

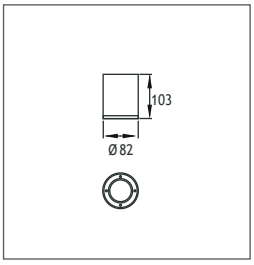





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 3W LED | 2700 K | 285 lm | 10°,25°,40° | 427004 |
| 3W LED | 3000 K | 285 lm | 10°,25°,40° | 427001 |
| 3W LED | 4500 K | 290 lm | 10°,25°,40° | 427002 |
| 3W LED | 6000 K | 296 lm | 10°,25°,40° | 427003 |
| LED LAMP | G9 | | | 335101 |

BELKIS 2

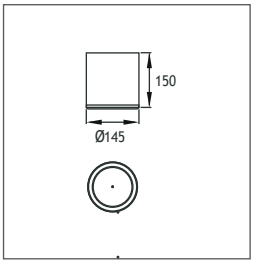





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 6W COB LED | 2700 K | 570 lm | 10°,20°,30° | 427104 |
| 6W COB LED | 3000 K | 570 lm | 10°,20°,30° | 427101 |
| 6W COB LED | 4500 K | 581 lm | 10°,20°,30° | 427102 |
| 6W COB LED | 6000 K | 593 lm | 10°,20°,30° | 427103 |
| LED LAMP | Gu10 | | | 336111 |

BELKIS 5

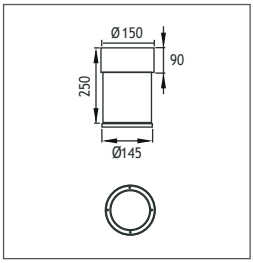





| Power | Kelvin | Real Lumen Output | Lens | Code No |
|---|---|---|---|---|
| 6W LED | 2700 K | 570 lm | 10°,25°,40° | 427204 |
| 6W LED | 3000 K | 570 lm | 10°,25°,40° | 427201 |
| 6W LED | 4500 K | 581 lm | 10°,25°,40° | 427202 |
| 6W LED | 6000 K | 593 lm | 10°,25°,40° | 427203 |
| 9W LED | 2700 K | 855 lm | 10°,25°,40° | 427214 |
| 9W LED | 3000 K | 855 lm | 10°,25°,40° | 427211 |
| 9W LED | 4500 K | 872 lm | 10°,25°,40° | 427212 |
| 9W LED | 6000 K | 890 lm | 10°,25°,40° | 427213 |
| LED LAMP | E27 | | | 337121 |

BELKIS 5 METAL HALIDE






| Power | Lampholder | Code No |
|---|---|---|
| 35W/70W METAL HALIDE | G12 | 337131 |



EMFA

# BELKIS

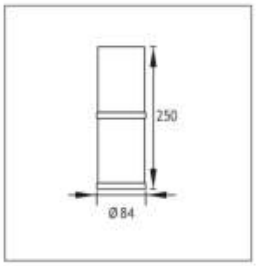
## SURFACE MOUNTED CEILING FIXTURES
## Class I IP44



**Voltage** : 240V A.C with integrated Driver (24V AC or DC on request)
**Diffuser** : Acrylic Pipe
**Cable** : Potted 5 m 3x0,75 H03 VV-F
**Lampholder** : Gu10
**Finish** : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

BELKIS 2






| Power | Lampholder | Code No |
|---|---|---|
| Led Lamp | Gu10 | 293111 |

# BELKIS

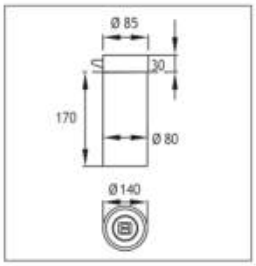
## RECESSED CEILING FIXTURES
## Class I IP44



**Voltage** : 240V A.C with integrated Driver (24V AC or DC on request)
**Diffuser** : Acrylic Pipe
**Cable** : Potted 5 m 3x0,75 H03 VV-F
**Lampholder** : Gu10 / E27 / G12
**Finish** : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

BELKIS 2

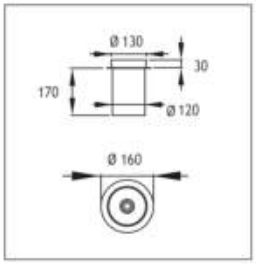





| Power | Lampholder | Code No |
|---|---|---|
| Led Lamp | Gu10 | 296111 |

BELKIS 5

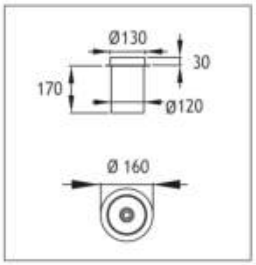





| Power | Lampholder | Code No |
|---|---|---|
| Led Lamp | E27 | 296121 |

BELKIS 5






| Power | Lampholder | Code No |
|---|---|---|
| Led Lamp | G12 | 296131 |



EMFA

# BERGAMA

## SURFACE MOUNTED CEILING FIXTURES
## Class I IP20



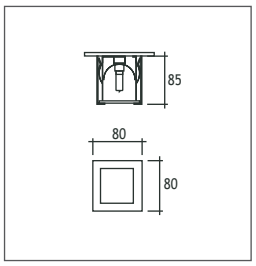




**Voltage** : 240V A.C with integrated Driver (24V AC or DC on request)
**Reflector** : Symmetrical
**Cable** : Potted 5 m 3x0,75 H03 VV-F
**Lampholder** : G9 / Gu10
**Finish** : EMFA Anthracite · RAL 7039 / 7016 / 9005 / 9016 / 6013 / 8014 – other RAL on request

SQUARE

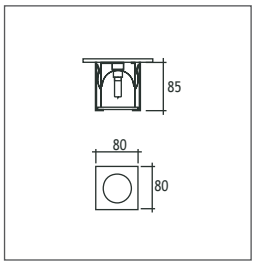





| Power | Lampholder | Code No |
|---|---|---|
| Led Lamp | G9 | 360111 |
| Led Lamp | Gu10 | 360121 |

ROUND

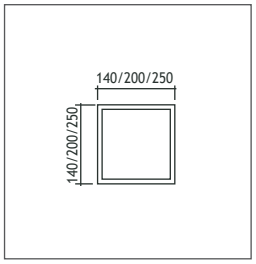





| Power | Lampholder | Code No |
|---|---|---|
| Led Lamp | G9 | 360211 |
| Led Lamp | Gu10 | 360221 |

FROSTED GLASS






| Power | Lampholder | Code No |
|---|---|---|
| Led Lamp | G9 | 363111 |