



Downlights | 1 arrayLED 9 W DC 700 mA | CRI 90
77331M15



| Technical data | |
|--|------------------------|
| Type | Encasement with flange |
| Installation position | Ceiling |
| Installation environment | Indoor |
| Light Source | LED |
| Circuit structure | arrayLED |
| Optics | Spot |
| Light emission direction | downward |
| Nominal power | 9 W DC |
| Source lumens | 1059 lm |
| Input voltage range | 700mA |
| CCT / Tone | 2700 K |
| Colour rendering index | 90 Ra |
| C.C. / C.V. | CC |
| Safety class | 3 |
| IP | IP40 |
| Optical compartment IP | IP65 |
| Glow wire test | 850° |
| Direct mounting on normally flammable surfaces | Yes |
| CE | Yes |
| Driver included | No |
| Dimmable article | DALI - 1-10V |
| Directional | No |
| Tilting | No |
| Walk-over | No |
| Drive-over | No |
| Cable included | Yes |
| Cable length | 0.2 m |
| Resin potting | No |
| Type of light emission | Single emission |
| Net weight | 0.2 Kg |
| Electrostatic discharge protection | No |
| Surge protection | No |

Finishing casing

| | |
|------------|---------------|
| Material | Technopolymer |
| Colour | Black |
| Processing | Coating |

Finishing diffuser

| | |
|----------|----------------------------|
| Material | UV Resistant Polycarbonate |
| Colour | transparent |

Finishing radiator

| | |
|------------|----------------------------------|
| Material | Die-cast Aluminium EN AB - 46100 |
| Colour | Aluminium |
| Processing | Polishing |

Electronics



99147
On/Off Driver 198-264V AC (1 - 2 art.)



99735
Multi Power 198-264V AC / 180-275V DC (1 art.)



99733
1-10V Multi Power 198-264V AC / 180-275V DC (1 art.)



C-E100012
Push and Simply Dim - DALI-2 Controller (1 art.)



C-E100016
Push and Simply Dim - DALI-2 Controller (1 - 2 art.)



Downlights | 1 arrayLED 9 W DC 700 mA | CRI 90 | Base 77331M15

Single emission recessed downlights for indoor application. The super warm white LED light source with a spot light distribution is composed of 1 arrayLEDs with CCT of 2700 K and a CRI 90; the source luminous flux is 1059 lm, with a 117.7 lm/W nominal luminous efficacy.

The device body is made of technopolymer and features a black finish, processed by means of coating; the diffuser is made of uv resistant polycarbonate. The ingress protection degree is IP40; the total weight is of 0.2 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 9 W. The power supply cable is included and features a 0.2 m length.

The device features protection class III and can be ceiling-mounted, with a 64 mm diameter hole (in plasterboard) with an outer casing, code 99849(for concrete or masonry).

Compliant with the EN 60598-1 standard and its specific provisions.

Energy efficiency class

This product contains a light source of energy efficiency class F.

Illuminotechnical Features

| | |
|--|----------------|
| Light Output Ratio (LOR) | 57 % |
| Source lumens | 1059 lm |
| Delivered lumens | 604 lm |
| Consumption | 9 W |
| Luminaire efficacy | 67 lm/W |
| Colour temperature | 2700 K |
| Standard Deviation of Colour Matching | 2 Step MacAdam |
| Colour rendering index | 90 Ra |
| Standard Operating Ambient Temperature | -20 / +50°C |
| Ordinary temperature on the glass | 40°C |

LED Life / Failure Ratio

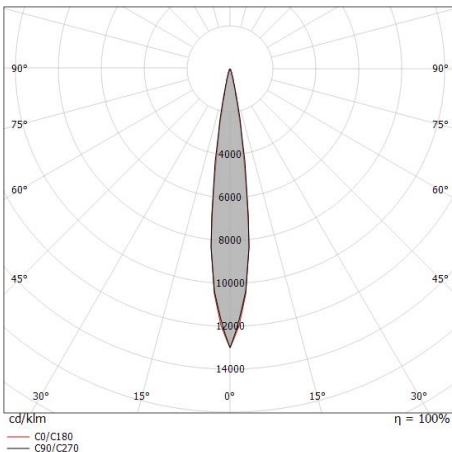
L70 B10 C0 112960h (at Tj 65 Ta 25)

UGR

| | |
|-------------------|----------|
| UGR axial | 4.4 |
| UGR transversal | 4.2 |
| X=4H Y=8H | S=0.25H |
| Reflection factor | 70/50/20 |

OPTICAL

| | |
|-----------------------------|-------------|
| C0/C180 optics | 14° |
| Light distribution simmetry | Symmetrical |











| Distance [m] | Cone diameter [m] | illuminance [lx] |
|--------------|-------------------|--|
| 0.5 | 0.13 0.12 | E(0°) 31347 E(C90) 7.3° 15470 E(C0) 7.1° 15662 |
| 1.0 | 0.26 0.25 | E(0°) 7837 E(C90) 7.3° 3868 E(C0) 7.1° 3916 |
| 1.5 | 0.38 0.37 | E(0°) 3483 E(C90) 7.3° 1719 E(C0) 7.1° 1740 |
| 2.0 | 0.51 0.50 | E(0°) 1959 E(C90) 7.3° 967 E(C0) 7.1° 979 |
| 2.5 | 0.64 0.62 | E(0°) 1254 E(C90) 7.3° 619 E(C0) 7.1° 626 |
| 3.0 | 0.77 0.75 | E(0°) 871 E(C90) 7.3° 430 E(C0) 7.1° 435 |

— C0/C180 (Half-peak divergence: 14.2°)
— C90/C270 (Half-peak divergence: 14.6°)



| | | | |
|--|--|---|--|
| | | <p>Outer casing installation position: ceiling; type of installation: masonry L=200mm, H=113mm, D=137mm. Material:polypropylene, colour:white.</p> | <p>Code <u>89373</u></p> |
| | | <p>Outer casing installation position: ceiling; type of installation: masonry L=370mm, H=120mm, D=200mm. Material:polypropylene, colour:white.</p> | <p>Code <u>89374</u></p> |
| | | <p>Outer casing installation position: ceiling; type of installation: drywall L=77.5mm, H=28mm, D=77.5mm. Material:Aluminium, colour:Anodised Aluminum, processing:Anodisation.</p> | <p>Finish [Grey Box] Code <u>99849</u></p> |
| | | <p>Optics Light distribution: medium wide flood,Cover material: uv resistant polycarbonate</p> | <p>Code <u>83372</u></p> |
| | | <p>Optics Light distribution: medium flood,Cover material: uv resistant polycarbonate</p> | <p>Code <u>83371</u></p> |
| | | <p>Optics Light distribution: spot,Cover material: uv resistant polycarbonate</p> | <p>Code <u>83370</u></p> |
| | | <p>Anti-glare Anti-glare Type: honeycomb louvre. Material:Pom-C, colour:Black.</p> | <p>Code <u>83367</u></p> |
| | | <p>Diffuser Diffuser Type: elliptical filter</p> | <p>Code <u>83368</u></p> |



| | | |
|---|--|-------------------------------------|
|  | <p>Diffuser Diffuser Type: aesthetic filter</p> | <p>Code <u>83369</u></p> |
|  | <p>White Quantum_R EVO frontal Kit</p> | <p>Code <u>83361</u></p> |
|  | <p>Black Quantum_R EVO frontal Kit</p> | <p>Code <u>83362</u></p> |
|  | <p>Black Vos_R EVO frontal Kit</p> | <p>Code <u>83366</u></p> |
|  | <p>White Vos_R EVO frontal Kit</p> | <p>Code <u>83365</u></p> |
|  | <p>Black Warp_R EVO frontal Kit</p> | <p>Code <u>83364</u></p> |
|  | <p>White Warp_R EVO frontal Kit</p> | <p>Code <u>83363</u></p> |
|  <p>Ø81</p> | <p>White front adaptive flange for Warp EVO or Quantum EVO</p> | <p>Code <u>83393</u></p> |



Black front adaptive flange for Warp EVO or Quantum EVO

Code
83394



Gold Quantum_R EVO frontal Kit

Code
C-K400038



Copper Quantum EVO frontal Kit

Code
C-K400039



Gold Warp_R EVO frontal Kit

Code
C-K400040



Copper Warp_R EVO frontal Kit

Code
C-K400041



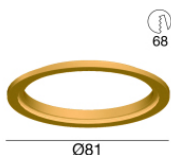
Gold Vos_R EVO frontal Kit

Code
C-K400042



Copper Vos_R EVO frontal Kit

Code
C-K400043



Gold front adaptive flange for Warp EVO or Quantum EVO

Code
C-K400044



Copper front adaptive flange for Warp EVO or Quantum EVO

Code

C-K400045