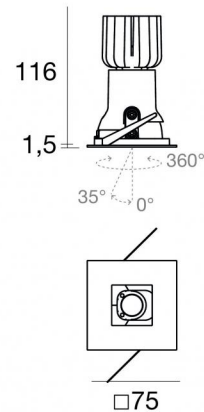




Downlights | 1 x powerLED 8 W DC 700 mA | CRI 92  
**81278M15**



## Technical data

|  |                        |
|--|------------------------|
| Type   | Encasement with flange |
| Installation position                          | Ceiling                |
| Installation environment                       | Indoor                 |
| Light Source                                   | LED                    |
| Circuit structure                              | powerLED               |
| Optics   | Spot                   |
| Light emission direction                       | downward               |
| Nominal power                                  | 8 W DC                 |
| Source lumens                                  | 689 lm                 |
| Input voltage range                            | 700mA                  |
| CCT / Tone                                     | 2700 K                 |
| Colour rendering index                         | 92 Ra                  |
| C.C. / C.V.                                    | CC                     |
| Safety class                                   | 3                      |
| IP   | IP44                   |
| 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  | Yes                    |
| total angle (horizontal plane)                 | 360 °                  |
| total angle (vertical plane)                   | 35 °                   |
| Walk-over                                      | No                     |
| Drive-over                                     | No                     |
| Cable included                                 | Yes                    |
| Cable length                                   | 0.170 m                |
| Resin potting                                  | No                     |
| Type of light emission                         | Single emission        |
| Net weight                                     | 0.277 Kg               |
| Electrostatic discharge protection             | No                     |
| Surge protection                               | No                     |
| Optics technology                              | F.O.L.                 |
| Product technological characteristics          | TVS                    |

## Finishing diffuser

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

## Finishing flange

|            |                                  |
|------------|----------------------------------|
| Material   | Die-cast Aluminium EN AB - 46100 |
| Colour     | White                            |
| Processing | Powder coating                   |

## Finishing radiator

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

## Electronics



99147  
On/Off Driver 198-264V AC (2 - 3 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 (2 - 3 art.)

## Cables Electrification

|                 |    |
|-----------------|----|
| Cable connector | No |
|-----------------|----|

## Downlights | 1 x powerLED 8 W DC 700 mA | CRI 92 | Base 81278M15

Single emission recessed downlights for indoor application. The super warm white LED light source with a spot light distribution is composed of 1 powerLED LEDs with CCT of 2700 K and a CRI 92; the source luminous flux is 689 lm, with a 86.1 lm/W nominal luminous efficacy.

The diffuser is made of uv resistant polycarbonate. The ingress protection degree is IP44; the total weight is of 0.277 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 8 W. The power supply cable is included and features a 0.170 m length.

The device features protection class III and can be ceiling-mounted, with a 70 mm diameter hole (in plasterboard).

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)               | 60 %           |
| Source lumens                          | 689 lm         |
| Delivered lumens                       | 420 lm         |
| Consumption                            | 8 W            |
| Luminaire efficacy                     | 52 lm/W        |
| Colour temperature                     | 2700 K         |
| Standard Deviation of Colour Matching  | 3 Step MacAdam |
| Colour rendering index                 | 92 Ra          |
| Black Body Locus                       | On             |
| Standard Operating Ambient Temperature | -20 / +50°C    |
| Ordinary temperature on the glass      | 40°C           |

### LED Life / Failure Ratio

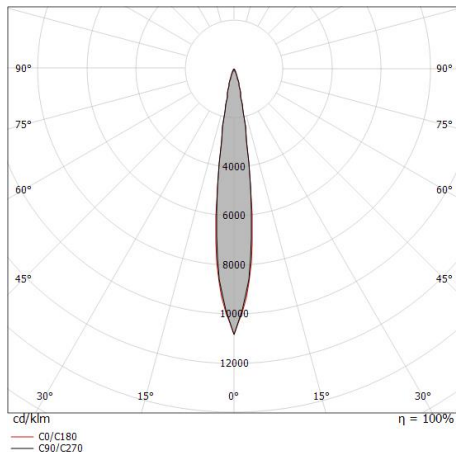
L70 B10 C0 247450h (at Tj 60 Ta 25)

### UGR

|                   |          |
|-------------------|----------|
| UGR axial         | 11.2     |
| UGR transversal   | 10.9     |
| X=4H   Y=8H       | S=0.25H  |
| Reflection factor | 70/50/20 |

### OPTICAL

|                             |             |
|-----------------------------|-------------|
| C0/C180 optics              | 15°         |
| Light distribution simmetry | Symmetrical |



| Distance [m] | Cone diameter [m] | illuminance [lx]                                   |
|--------------|-------------------|--|
| 0.5          | 0.170<br>0.170    | E(0°) 18160<br>E(C90) 7.4° 8886<br>E(C0) 7.5° 8898 |
| 1.0          | 0.26<br>0.26      | E(0°) 4540<br>E(C90) 7.4° 2221<br>E(C0) 7.5° 2225  |
| 1.5          | 0.39<br>0.39      | E(0°) 2018<br>E(C90) 7.4° 987<br>E(C0) 7.5° 989    |
| 2.0          | 0.52<br>0.53      | E(0°) 1135<br>E(C90) 7.4° 555<br>E(C0) 7.5° 556    |
| 2.5          | 0.65<br>0.66      | E(0°) 726<br>E(C90) 7.4° 355<br>E(C0) 7.5° 356     |
| 3.0          | 0.78<br>0.79      | E(0°) 504<br>E(C90) 7.4° 247<br>E(C0) 7.5° 247     |

— C0/C180 (Half-peak divergence: 15.0°)  
— C90/C270 (Half-peak divergence: 14.8°)

### COLOR VECTOR GRAPHIC

