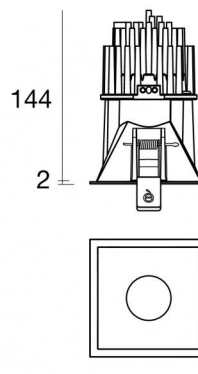




Downlights | 1 arrayLED 15 W DC 400 mA | CRI 92  
**90784M60**



91

## Technical data

|  |                        |
|--|------------------------|
| Type   | Encasement with flange |
| Installation position                          | Ceiling                |
| Installation environment                       | Indoor                 |
| Light Source                                   | LED                    |
| Circuit structure                              | arrayLED               |
| Optics   | Wide Flood             |
| Light emission direction                       | downward               |
| Nominal power                                  | 15 W DC                |
| Source lumens                                  | 1568 lm                |
| Input voltage range                            | 400mA                  |
| 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  | No                     |
| Walk-over                                      | No                     |
| Drive-over                                     | No                     |
| Cable included                                 | Yes                    |
| Cable length                                   | 0.300 m                |
| Resin potting                                  | No                     |
| Type of light emission                         | Single emission        |
| Net weight                                     | 0.511 Kg               |
| Electrostatic discharge protection             | No                     |
| Surge protection                               | No                     |
| Optics technology                              | F.O.L.                 |

## Finishing casing

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


## Finishing diffuser

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


## Finishing radiator

|            |                                  |
|------------|----------------------------------|
| Material   | Die-cast Aluminium EN AB - 46100 |
| Processing | Tumbling                         |

## Electronics

 99740  
Multi Power 198~264V AC / 180~275V DC

 99739  
1-10V Multi Power 198~264V AC / 180~275V DC

 C-E100032  
Push and Simply Dim - DALI-2 Controller

## Cables Electrification

|                       |                |
|-----------------------|----------------|
| Cable connector       | Male Easy plug |
| IP (locked condition) | 66             |



## Downlights | 1 arrayLED 15 W DC 400 mA | CRI 92 | Base 90784M60

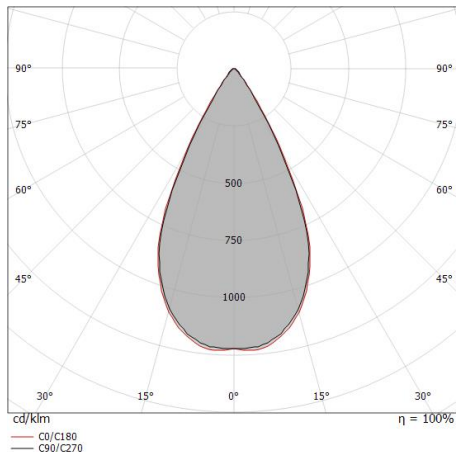
Single emission recessed downlights for indoor application. The super warm white LED light source with a wide flood light distribution is composed of 1 arrayed LEDs with CCT of 2700 K and a CRI 92; the source luminous flux is 1568 lm, with a 104.5 lm/W nominal luminous efficacy.

The device body is made of die-cast aluminium en ab - 46100 and features a white finish, processed by means of powder coating; the diffuser is made of uv resistant polycarbonate. The ingress protection degree is IP44; the total weight is of 0.511 kg. The power supply driver is not provided and is to be ordered separately.

The total absorbed power is 15 W. The power supply cable is included and features a 0.300 m length.

The device features protection class III and can be ceiling-mounted, with a 91 x 91 mm hole (in plasterboard).

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



| Distance [m] | Cone diameter [m] | illuminance [lx]                        |
|--------------|-------------------|---|
| 0.5          | 0.50<br>0.51      | E(0°) 4969<br>E(C90) 1776<br>E(C0) 1786 |
| 1.0          | 1.01<br>1.01      | E(0°) 1242<br>E(C90) 444<br>E(C0) 447   |
| 1.5          | 1.51<br>1.52      | E(0°) 552<br>E(C90) 197<br>E(C0) 198    |
| 2.0          | 2.01<br>2.03      | E(0°) 311<br>E(C90) 111<br>E(C0) 112    |
| 2.5          | 2.51<br>2.54      | E(0°) 199<br>E(C90) 71<br>E(C0) 71      |
| 3.0          | 3.02<br>3.04      | E(0°) 138<br>E(C90) 49<br>E(C0) 50      |

— C0/C180 (Half-peak divergence: 53.8°)  
— C90/C270 (Half-peak divergence: 53.4°)

### Energy efficiency class

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

### Illuminotechnical Features

|  |                |
|--|----------------|
| Light Output Ratio (LOR)               | 64 %           |
| Source lumens                          | 1568 lm        |
| Delivered lumens                       | 1016 lm        |
| Consumption                            | 15 W           |
| Luminaire efficacy                     | 67 lm/W        |
| Colour temperature                     | 2700 K         |
| Standard Deviation of Colour Matching  | 2 Step MacAdam |
| Colour rendering index                 | 92 Ra          |
| Gamut Area Index                       | 51 GAI         |
| Colour Rendering Index                 | 60 R9          |
| IES TM-30 Rf                           | 90             |
| IES TM-30 Rg                           | 99             |
| 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 296960h (at Tj 65 Ta 25 )

### UGR

|                   |          |
|-------------------|----------|
| UGR axial         | 16.4     |
| UGR transversal   | 16.6     |
| X=4H   Y=8H       | S=0.25H  |
| Reflection factor | 70/50/20 |

### OPTICAL

|                             |             |
|-----------------------------|-------------|
| C0/C180 optics              | 53°         |
| Light distribution simmetry | Symmetrical |

### COLOR VECTOR GRAPHIC

