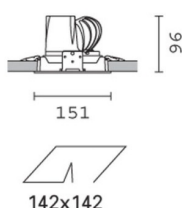
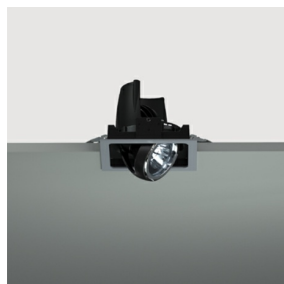


Last information update: May 2024

Product configuration: MP20

MP20: square recessed luminaire - warm white passive dissipation LED - integrated DALI control gear - medium

**Product code**MP20: square recessed luminaire - warm white passive dissipation LED - integrated DALI control gear - medium **Attention! Code no longer in production****Technical description**

Recessed adjustable removable luminaire for LED lamp with passive heat dissipation system. Square sheet steel perimeter frame. Main structure made of die-cast aluminium. Steel rotation hinges. Die-cast aluminium lamp body with shaped surface for high level radiant effect for effectively reducing the temperature and keeping the long-term LED lamp performance unchanged. Chrome-plated aluminium lamp body closing ring. Riflettore con ottica ad alta efficienza in alluminio superpuro - apertura medium. Orientamento del corpo con dispositivo di manovra manuale: interno 29° - esterno 75° - rorazione sull'asse 355°. Supplied with DALI dimmable control gear connected to the luminaire. Warm white high colour rendering LEDs CRI (Ra) > 90.

Installation

recessed using steel springs for false ceilings with thicknesses starting at 1 mm; preparation slot 142 x 142 mm

Colour

White / Aluminium (39) | Grey / Black / Aluminium (E1)

Weight (Kg)

0.93

Mounting

ceiling recessed

Wiring

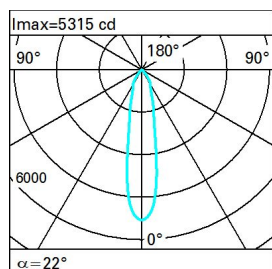
on control gear box with quick-coupling connections

Complies with EN60598-1 and pertinent regulations

**Technical data**

| | | | |
|--|------|---------------------------------------|---------------------------------|
| Im system: | 1580 | CRI: | 90 |
| W system: | 18.3 | Colour temperature [K]: | 3000 |
| Im source: | 2000 | MacAdam Step: | 2 |
| W source: | 16 | Life Time LED 1: | > 50,000h - L80 - B10 (Ta 25°C) |
| Luminous efficiency (Im/W, real value): | 86.3 | Lamp code: | LED |
| Im in emergency mode: | - | Number of lamps for optical assembly: | 1 |
| Total light flux at or above an angle of 90° [Lm]: | 0 | ZVEI Code: | LED |
| Light Output Ratio (L.O.R.) [%]: | 79 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 22° | Control: | DALI |

Polar

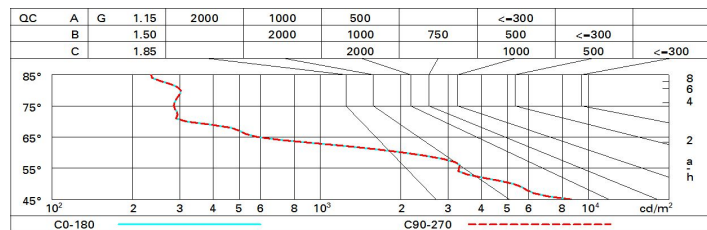
|  | Lux | | | |
|---|-----|-----|------|------|
| | h | d | Em | Emax |
| | 2 | 0.8 | 1050 | 1329 |
| | 4 | 1.6 | 262 | 332 |
| | 6 | 2.3 | 117 | 148 |
| α = 22° | 8 | 3.1 | 66 | 83 |

Technical data:
Imax=5315 cd
nL 0.79
85-100-100-100-79
UGR 15.4-15.4
DIN
A.61
UTE
0.79A+0.00T
F*1=954
F*1+F*2=997
F*1+F*2+F*3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<16 | L<1500 cd/mq @65°

Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 70 | 66 | 63 | 61 | 65 | 62 | 62 | 59 | 75 |
| 1.0 | 73 | 70 | 67 | 65 | 69 | 66 | 66 | 63 | 80 |
| 1.5 | 77 | 75 | 72 | 71 | 74 | 72 | 71 | 68 | 87 |
| 2.0 | 80 | 78 | 76 | 75 | 77 | 75 | 74 | 72 | 91 |
| 2.5 | 81 | 80 | 79 | 78 | 79 | 78 | 77 | 75 | 94 |
| 3.0 | 82 | 81 | 80 | 80 | 80 | 79 | 78 | 76 | 96 |
| 4.0 | 84 | 83 | 82 | 81 | 81 | 81 | 80 | 78 | 98 |
| 5.0 | 84 | 83 | 83 | 83 | 82 | 82 | 80 | 78 | 99 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 2000 lm bare lamp luminous flux) | | | | | | | | | | | |
|--|------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Reflect.: ceiling walls work pl. Room dim x y | | 0.70 0.50 0.20 | 0.70 0.30 0.20 | 0.50 0.50 0.20 | 0.50 0.30 0.20 | 0.30 0.30 0.20 | 0.70 0.50 0.20 | 0.70 0.30 0.20 | 0.50 0.50 0.20 | 0.50 0.30 0.20 | 0.30 0.30 0.20 |
| viewed crosswise | | | | | | viewed endwise | | | | | |
| 2H | 2H | 16.3 | 17.9 | 16.6 | 18.2 | 18.5 | 16.3 | 17.9 | 16.6 | 18.2 | 18.5 |
| | 3H | 16.2 | 17.4 | 16.5 | 17.7 | 18.0 | 16.2 | 17.4 | 16.5 | 17.7 | 18.0 |
| | 4H | 16.1 | 17.2 | 16.4 | 17.5 | 17.8 | 16.1 | 17.2 | 16.5 | 17.5 | 17.8 |
| | 6H | 16.0 | 17.1 | 16.4 | 17.4 | 17.8 | 16.0 | 17.1 | 16.4 | 17.4 | 17.8 |
| | 8H | 15.9 | 17.0 | 16.3 | 17.4 | 17.7 | 15.9 | 17.0 | 16.3 | 17.4 | 17.8 |
| 12H | 15.9 | 17.0 | 16.3 | 17.3 | 17.7 | 15.9 | 17.0 | 16.3 | 17.3 | 17.7 | |
| 4H | 2H | 16.1 | 17.2 | 16.5 | 17.5 | 17.8 | 16.1 | 17.2 | 16.4 | 17.5 | 17.8 |
| | 3H | 15.9 | 17.0 | 16.3 | 17.3 | 17.7 | 15.9 | 17.0 | 16.3 | 17.3 | 17.7 |
| | 4H | 15.8 | 16.8 | 16.2 | 17.2 | 17.6 | 15.8 | 16.8 | 16.2 | 17.2 | 17.6 |
| | 6H | 15.6 | 16.8 | 16.0 | 17.3 | 17.7 | 15.6 | 16.8 | 16.0 | 17.3 | 17.7 |
| | 8H | 15.4 | 16.9 | 15.9 | 17.3 | 17.8 | 15.4 | 16.9 | 15.9 | 17.3 | 17.8 |
| 12H | 15.3 | 16.9 | 15.8 | 17.3 | 17.8 | 15.3 | 16.9 | 15.8 | 17.3 | 17.8 | |
| 8H | 4H | 15.4 | 16.9 | 15.9 | 17.3 | 17.8 | 15.4 | 16.9 | 15.9 | 17.3 | 17.8 |
| | 6H | 15.3 | 16.7 | 15.8 | 17.2 | 17.7 | 15.3 | 16.7 | 15.8 | 17.2 | 17.7 |
| | 8H | 15.3 | 16.5 | 15.8 | 17.0 | 17.5 | 15.3 | 16.5 | 15.8 | 17.0 | 17.5 |
| | 12H | 15.4 | 16.3 | 15.9 | 16.7 | 17.3 | 15.4 | 16.3 | 15.9 | 16.7 | 17.3 |
| 12H | 4H | 15.3 | 16.9 | 15.8 | 17.3 | 17.8 | 15.3 | 16.9 | 15.8 | 17.3 | 17.8 |
| | 6H | 15.3 | 16.5 | 15.8 | 17.0 | 17.5 | 15.3 | 16.5 | 15.8 | 17.0 | 17.5 |
| | 8H | 15.4 | 16.3 | 15.9 | 16.7 | 17.3 | 15.4 | 16.3 | 15.9 | 16.7 | 17.3 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | 4.3 / -9.6 | | | | 4.3 / -9.6 | | | | | |
| | 1.5H | 7.1 / -15.0 | | | | 7.1 / -15.0 | | | | | |
| | 2.0H | 9.1 / -18.0 | | | | 9.1 / -18.0 | | | | | |