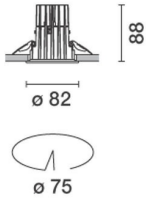


Last information update: May 2018



Fixed circular recessed luminaire - Ø 75 mm - warm white - wide flood optic - UGR<19

Product code
MV85

Technical description

Fixed round luminaire designed to use a LED lamp with C.O.B. technology. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with LED lamp in warm white colour tone CRI90 (2700K). General light emission, with controlled luminance UGR<19 1500 cd/m² α>65° wide flood optic.

Installation

Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 20 mm.

Dimension (mm)

Ø82x88

Colour

White/Aluminium (39)

Weight (Kg)

0.41

Mounting

ceiling recessed

Wiring

product complete with DALI components

Complies with EN60598-1 and pertinent regulations



Product configuration: MV85

Product characteristics

Total lighting output [Lm]: 789.3
Total power [W]: 10.5
Luminous efficacy [Lm/W]: 75.2
Life Time: 50,000h - L80 - B10 (Ta 25°C)

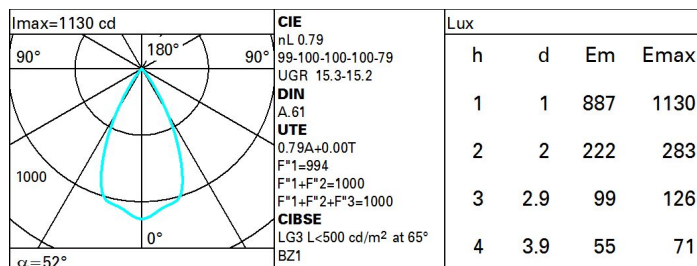
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 79
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 8.4
Nominal luminous [Lm]: 1000
Lamp maximum intensity [cd]: /
Beam angle [°]: 52°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.1
Colour temperature [K]: 2700
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 2

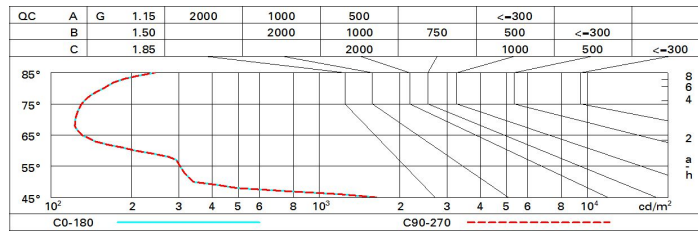
Polar



Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 71 | 67 | 65 | 63 | 67 | 64 | 64 | 62 | 78 |
| 1.0 | 74 | 71 | 69 | 67 | 70 | 68 | 68 | 65 | 83 |
| 1.5 | 78 | 75 | 74 | 72 | 75 | 73 | 72 | 70 | 88 |
| 2.0 | 80 | 79 | 77 | 76 | 78 | 76 | 75 | 73 | 93 |
| 2.5 | 82 | 81 | 79 | 79 | 79 | 78 | 78 | 75 | 96 |
| 3.0 | 83 | 82 | 81 | 80 | 81 | 80 | 79 | 77 | 98 |
| 4.0 | 84 | 83 | 83 | 82 | 82 | 81 | 80 | 78 | 99 |
| 5.0 | 84 | 84 | 83 | 83 | 83 | 82 | 81 | 79 | 100 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 1000 lm bare lamp luminous flux) | | | | | | | | | | | |
|---|-----|------------------|------|------|------|------|----------------|------|------|------|------|
| Reflect.: | | viewed crosswise | | | | | viewed endwise | | | | |
| ceiling | cav | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 |
| walls | | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 | 0.50 | 0.30 | 0.50 | 0.30 | 0.30 |
| work pl. | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 |
| Room dim | | viewed crosswise | | | | | viewed endwise | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 15.8 | 16.4 | 16.1 | 16.6 | 16.9 | 15.8 | 16.4 | 16.1 | 16.6 | 16.9 |
| | 3H | 15.7 | 16.2 | 16.0 | 16.5 | 16.8 | 15.7 | 16.2 | 16.0 | 16.5 | 16.8 |
| | 4H | 15.6 | 16.1 | 16.0 | 16.4 | 16.7 | 15.6 | 16.1 | 16.0 | 16.4 | 16.7 |
| | 6H | 15.5 | 16.0 | 15.9 | 16.3 | 16.6 | 15.5 | 16.0 | 15.9 | 16.3 | 16.6 |
| | 8H | 15.5 | 15.9 | 15.9 | 16.3 | 16.6 | 15.5 | 15.9 | 15.9 | 16.3 | 16.6 |
| | 12H | 15.5 | 15.9 | 15.8 | 16.2 | 16.6 | 15.5 | 15.9 | 15.8 | 16.2 | 16.6 |
| 4H | 2H | 15.6 | 16.1 | 16.0 | 16.4 | 16.7 | 15.6 | 16.1 | 16.0 | 16.4 | 16.7 |
| | 3H | 15.5 | 15.9 | 15.8 | 16.2 | 16.6 | 15.5 | 15.9 | 15.8 | 16.2 | 16.6 |
| | 4H | 15.4 | 15.7 | 15.8 | 16.1 | 16.5 | 15.4 | 15.7 | 15.8 | 16.1 | 16.5 |
| | 6H | 15.3 | 15.6 | 15.7 | 16.0 | 16.4 | 15.3 | 15.6 | 15.7 | 16.0 | 16.4 |
| | 8H | 15.3 | 15.5 | 15.7 | 16.0 | 16.4 | 15.2 | 15.5 | 15.7 | 16.0 | 16.4 |
| | 12H | 15.2 | 15.5 | 15.7 | 15.9 | 16.4 | 15.2 | 15.5 | 15.7 | 15.9 | 16.4 |
| 8H | 4H | 15.2 | 15.5 | 15.7 | 16.0 | 16.4 | 15.3 | 15.5 | 15.7 | 16.0 | 16.4 |
| | 6H | 15.2 | 15.4 | 15.6 | 15.8 | 16.3 | 15.2 | 15.4 | 15.6 | 15.8 | 16.3 |
| | 8H | 15.1 | 15.3 | 15.6 | 15.8 | 16.3 | 15.1 | 15.3 | 15.6 | 15.8 | 16.3 |
| | 12H | 15.1 | 15.2 | 15.6 | 15.7 | 16.2 | 15.1 | 15.2 | 15.6 | 15.7 | 16.2 |
| 12H | 4H | 15.2 | 15.5 | 15.7 | 15.9 | 16.4 | 15.2 | 15.5 | 15.7 | 15.9 | 16.4 |
| | 6H | 15.1 | 15.3 | 15.6 | 15.8 | 16.3 | 15.1 | 15.3 | 15.6 | 15.8 | 16.3 |
| | 8H | 15.1 | 15.2 | 15.6 | 15.7 | 16.2 | 15.1 | 15.2 | 15.6 | 15.7 | 16.2 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | | 1.0H | | | | | 6.0 / -23.7 | | | | |
| | | 1.5H | | | | | 8.8 / -24.6 | | | | |
| | | 2.0H | | | | | 10.8 / -25.0 | | | | |