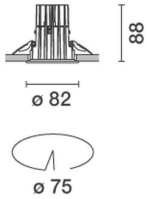


Last information update: May 2018



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

Product code
MV78

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 neutral white colour tone (4,000K). General light emission, with controlled luminance UGR<19 1500 cd/m² α>65° 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 an electronic ballast

Complies with EN60598-1 and pertinent regulations



Product configuration: MV78

Product characteristics

Total lighting output [Lm]: 778
Total power [W]: 9
Luminous efficacy [Lm/W]: 86.5
Life Time: 50,000h - L80 - B10 (Ta 25°C)

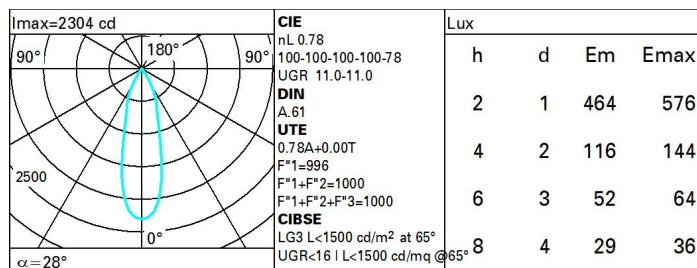
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 78
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 6.3
Nominal luminous [Lm]: 1000
Lamp maximum intensity [cd]: /
Beam angle [°]: 28°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 2.7
Colour temperature [K]: 4000
CRI: 80
Wavelength [Nm]: /
MacAdam Step: 2

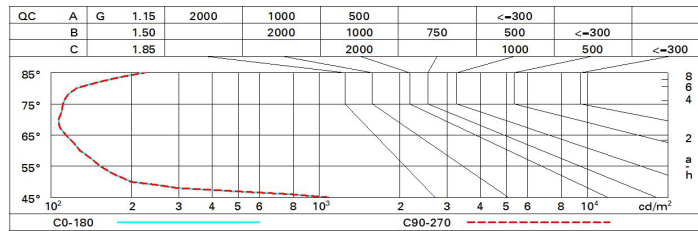
Polar



Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 70 | 67 | 64 | 62 | 66 | 64 | 63 | 61 | 78 |
| 1.0 | 73 | 70 | 68 | 66 | 69 | 67 | 67 | 64 | 83 |
| 1.5 | 77 | 75 | 73 | 71 | 74 | 72 | 71 | 69 | 89 |
| 2.0 | 79 | 78 | 76 | 75 | 76 | 75 | 74 | 72 | 93 |
| 2.5 | 81 | 79 | 78 | 78 | 78 | 77 | 77 | 74 | 96 |
| 3.0 | 82 | 81 | 80 | 79 | 80 | 79 | 78 | 76 | 98 |
| 4.0 | 83 | 82 | 82 | 81 | 81 | 80 | 79 | 77 | 99 |
| 5.0 | 83 | 83 | 82 | 82 | 81 | 81 | 80 | 78 | 100 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 1000 lm bare lamp luminous flux) | | | | | | | | | | | |
|---|------|------------------|------|------|-------|------|----------------|------|-------|------|--|
| Reflect.: | | viewed crosswise | | | | | viewed endwise | | | | |
| ceiling | 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 | | | | | | | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 12.0 | 14.0 | 12.3 | 14.3 | 14.6 | 12.0 | 14.0 | 12.3 | 14.3 | |
| | 3H | 11.8 | 13.4 | 12.2 | 13.7 | 14.0 | 11.8 | 13.4 | 12.2 | 13.7 | |
| | 4H | 11.7 | 13.1 | 12.1 | 13.5 | 13.8 | 11.7 | 13.1 | 12.1 | 13.5 | |
| | 6H | 11.6 | 12.9 | 12.0 | 13.2 | 13.6 | 11.6 | 12.9 | 12.0 | 13.2 | |
| | 8H | 11.6 | 12.8 | 12.0 | 13.2 | 13.5 | 11.6 | 12.8 | 12.0 | 13.2 | |
| | 12H | 11.6 | 12.7 | 12.0 | 13.1 | 13.5 | 11.6 | 12.7 | 12.0 | 13.1 | |
| 4H | 2H | 11.7 | 13.1 | 12.1 | 13.5 | 13.8 | 11.7 | 13.1 | 12.1 | 13.5 | |
| | 3H | 11.6 | 12.7 | 12.0 | 13.1 | 13.5 | 11.6 | 12.7 | 12.0 | 13.1 | |
| | 4H | 11.5 | 12.5 | 11.9 | 12.9 | 13.3 | 11.5 | 12.5 | 11.9 | 12.9 | |
| | 6H | 11.2 | 12.7 | 11.6 | 13.1 | 13.6 | 11.2 | 12.7 | 11.6 | 13.1 | |
| | 8H | 11.0 | 12.8 | 11.5 | 13.2 | 13.7 | 11.0 | 12.8 | 11.5 | 13.2 | |
| | 12H | 10.9 | 12.8 | 11.4 | 13.2 | 13.8 | 10.9 | 12.8 | 11.4 | 13.2 | |
| 8H | 4H | 11.0 | 12.8 | 11.5 | 13.2 | 13.7 | 11.0 | 12.8 | 11.5 | 13.2 | |
| | 6H | 10.9 | 12.6 | 11.4 | 13.1 | 13.6 | 10.9 | 12.6 | 11.4 | 13.1 | |
| | 8H | 10.9 | 12.4 | 11.4 | 12.9 | 13.4 | 10.9 | 12.4 | 11.4 | 12.9 | |
| | 12H | 11.0 | 12.0 | 11.5 | 12.5 | 13.0 | 11.0 | 12.0 | 11.5 | 12.5 | |
| 12H | 4H | 10.9 | 12.8 | 11.4 | 13.2 | 13.7 | 10.9 | 12.8 | 11.4 | 13.2 | |
| | 6H | 10.9 | 12.4 | 11.4 | 12.9 | 13.4 | 10.9 | 12.4 | 11.4 | 12.9 | |
| | 8H | 11.0 | 12.0 | 11.5 | 12.5 | 13.0 | 11.0 | 12.0 | 11.5 | 12.5 | |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | | 6.3 | / | -21.8 | | 6.3 | / | -21.8 | | |
| | 1.5H | | 9.1 | / | -22.1 | | 9.1 | / | -22.1 | | |
| | 2.0H | | 11.1 | / | -22.3 | | 11.1 | / | -22.3 | | |