

Last information update: May 2018



adjustable luminaire - Ø 153 mm - neutral white - medium optic - minimal

Product code
N053

Technical description

Round adjustable luminaire designed to use an LED lamp with C.O.B.technology in a neutral white colour tone 4000K. Version without rim for mounting flush with ceiling. Lower reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Anodised aluminium upper reflector. Black, zinc-plated sheet steel bracket. The luminaire can be rotated 30° relative to the horizontal plane and 358° about the vertical axis. The luminaire is fitted with mechanical locks for light beam aiming. Painted extruded aluminium dissipater.

Installation

Installation flush with the ceiling is for false ceilings 12.5 mm thick

Dimension (mm)
Ø140x213

Colour
Aluminium (12)

Weight (Kg)
1.43

Mounting

ceiling recessed

Wiring

Product complete with electronic components

Complies with EN60598-1 and pertinent regulations



Product configuration: N053

Product characteristics

Total lighting output [Lm]: 1827
Total power [W]: 23.7
Luminous efficacy [Lm/W]: 77.1
Life Time: 50,000h - L80 - B10 (Ta 25°C)

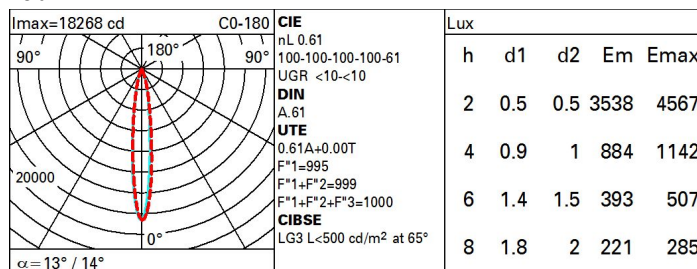
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 61
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 21
Nominal luminous [Lm]: 3000
Lamp maximum intensity [cd]: /
Beam angle [°]: 13° / 14°

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

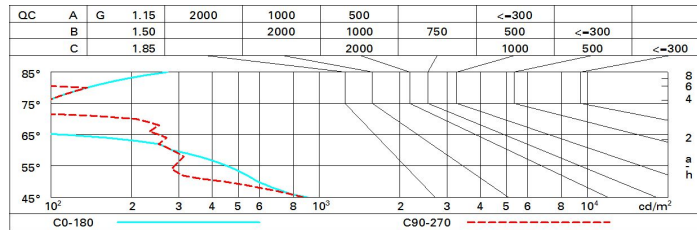
Polar



Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 55 | 52 | 50 | 49 | 52 | 50 | 49 | 48 | 78 |
| 1.0 | 57 | 55 | 53 | 52 | 54 | 53 | 52 | 50 | 83 |
| 1.5 | 60 | 58 | 57 | 56 | 58 | 56 | 56 | 54 | 88 |
| 2.0 | 62 | 61 | 60 | 59 | 60 | 59 | 58 | 57 | 93 |
| 2.5 | 63 | 62 | 61 | 61 | 61 | 61 | 60 | 58 | 96 |
| 3.0 | 64 | 63 | 63 | 62 | 62 | 62 | 61 | 59 | 98 |
| 4.0 | 65 | 64 | 64 | 63 | 63 | 63 | 62 | 60 | 99 |
| 5.0 | 65 | 65 | 64 | 64 | 64 | 63 | 62 | 61 | 100 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 3000 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 | -3.1 | -1.0 | -2.7 | -0.7 | -0.3 | -0.7 | 1.4 | -0.3 | 1.7 | 2.0 |
| | 3H | -3.2 | -1.7 | -2.8 | -1.4 | -1.1 | -0.8 | 0.7 | -0.5 | 1.0 | 1.3 |
| | 4H | -3.2 | -2.1 | -2.8 | -1.7 | -1.4 | -0.9 | 0.3 | -0.5 | 0.6 | 0.9 |
| | 6H | -3.2 | -2.4 | -2.8 | -2.0 | -1.7 | -0.9 | -0.1 | -0.5 | 0.2 | 0.6 |
| | 8H | -3.2 | -2.3 | -2.8 | -2.0 | -1.6 | -0.9 | -0.1 | -0.6 | 0.2 | 0.6 |
| | 12H | -3.1 | -2.2 | -2.7 | -1.9 | -1.5 | -1.0 | -0.1 | -0.6 | 0.2 | 0.6 |
| 4H | 2H | -3.2 | -2.1 | -2.8 | -1.7 | -1.4 | -0.9 | 0.3 | -0.5 | 0.6 | 0.9 |
| | 3H | -3.3 | -2.4 | -2.9 | -2.1 | -1.7 | -1.0 | -0.1 | -0.6 | 0.3 | 0.6 |
| | 4H | -3.4 | -2.4 | -3.0 | -2.0 | -1.6 | -1.1 | -0.1 | -0.7 | 0.3 | 0.7 |
| | 6H | -3.7 | -2.0 | -3.2 | -1.5 | -1.1 | -1.5 | 0.2 | -1.0 | 0.7 | 1.2 |
| | 8H | -3.7 | -1.8 | -3.2 | -1.3 | -0.8 | -1.6 | 0.3 | -1.1 | 0.8 | 1.3 |
| | 12H | -3.6 | -1.6 | -3.1 | -1.1 | -0.6 | -1.7 | 0.2 | -1.2 | 0.7 | 1.2 |
| 8H | 4H | -3.9 | -2.0 | -3.4 | -1.5 | -1.0 | -1.6 | 0.3 | -1.1 | 0.8 | 1.3 |
| | 6H | -3.9 | -2.1 | -3.3 | -1.6 | -1.1 | -1.6 | 0.1 | -1.1 | 0.6 | 1.1 |
| | 8H | -3.6 | -2.1 | -3.0 | -1.6 | -1.1 | -1.6 | -0.2 | -1.1 | 0.3 | 0.9 |
| | 12H | -3.1 | -2.1 | -2.5 | -1.6 | -1.1 | -1.5 | -0.5 | -0.9 | -0.0 | 0.5 |
| 12H | 4H | -4.0 | -2.0 | -3.5 | -1.6 | -1.0 | -1.7 | 0.3 | -1.2 | 0.8 | 1.3 |
| | 6H | -3.8 | -2.4 | -3.3 | -1.9 | -1.3 | -1.6 | -0.2 | -1.1 | 0.3 | 0.9 |
| | 8H | -3.4 | -2.4 | -2.8 | -1.9 | -1.4 | -1.5 | -0.5 | -0.9 | -0.0 | 0.5 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | 3.6 / -3.8 | | | | | 6.4 / -9.1 | | | | |
| | 1.5H | 0.1 / -4.7 | | | | | 9.1 / -9.8 | | | | |
| | 2.0H | 8.0 / -5.0 | | | | | 11.1 / -10.1 | | | | |