

Last information update: October 2024

Product configuration: QQ68

QQ68: 10 - cell Frameless Recessed luminaire - LED - Neutral white flood optic



Product code

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Technical description

rectangular miniaturised recessed luminaire with 10 optical elements with LED lamps - fixed optics - flood beam angle. Main body with die-cast aluminium radiant surface; minimal (frameless) version for mounting flush with the ceiling. Metallised thermoplastic high definition optics, integrated in a rear position in the black anti-glare screen; the structure of the optical system prevents a pinpoint effect, allowing precise, circular light distribution and emission with controlled glare . Neutral white LED.

Installation

recessed with steel wire springs on the specific adapter (included) which allows flush-mounting with the ceiling. Adapter fixed to false ceiling (12.5 mm thick) with self-tapping screws; subsequent filling and smoothing operations; insertion of luminaire body and aesthetic finishing. Preparation hole 35 x 271

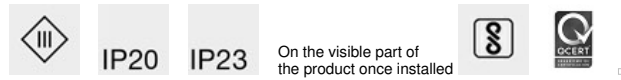
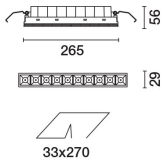
Colour

White (01) | Black (04)

Mounting

wall recessed|ceiling recessed

Complies with EN60598-1 and pertinent regulations

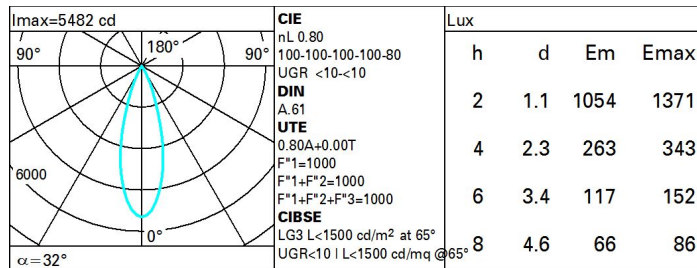


On the visible part of the product once installed

Technical data

| | | | |
|--|------|---------------------------------------|-------------------------------|
| lm system: | 1597 | CRI (typical): | 97 |
| W system: | 21 | Colour temperature [K]: | 4000 |
| lm source: | 2000 | MacAdam Step: | 3 |
| W source: | 21 | Life Time LED 1: | 50,000h - L90 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value): | 76.1 | Lamp code: | LED |
| lm 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.) [%]: | 80 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 31° | LED current [mA]: | 700 |
| CRI (minimum): | 95 | | |

Polar



Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 72 | 69 | 66 | 64 | 68 | 66 | 65 | 63 | 78 |
| 1.0 | 75 | 72 | 70 | 68 | 71 | 69 | 69 | 66 | 83 |
| 1.5 | 79 | 77 | 75 | 73 | 76 | 74 | 73 | 71 | 89 |
| 2.0 | 81 | 80 | 78 | 77 | 79 | 77 | 76 | 74 | 93 |
| 2.5 | 83 | 82 | 81 | 80 | 80 | 79 | 79 | 77 | 96 |
| 3.0 | 84 | 83 | 82 | 81 | 82 | 81 | 80 | 78 | 98 |
| 4.0 | 85 | 84 | 84 | 83 | 83 | 82 | 81 | 79 | 99 |
| 5.0 | 85 | 85 | 85 | 84 | 84 | 83 | 82 | 80 | 100 |

UGR diagram

| Corrected UGR values (at 2000 lm bare lamp luminous flux) | | | | | | | | | | | |
|---|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Reflect.: | | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 |
| 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 | -2.6 | -2.9 | -2.4 | -2.2 | -3.1 | -2.6 | -2.9 | -2.4 | -2.2 |
| | 3H | -3.3 | -2.8 | -3.0 | -2.5 | -2.3 | -3.3 | -2.8 | -3.0 | -2.5 | -2.3 |
| | 4H | -3.3 | -2.9 | -3.0 | -2.6 | -2.3 | -3.3 | -2.9 | -3.0 | -2.6 | -2.3 |
| | 6H | -3.4 | -3.0 | -3.1 | -2.7 | -2.4 | -3.4 | -3.0 | -3.1 | -2.7 | -2.4 |
| | 8H | -3.5 | -3.1 | -3.1 | -2.8 | -2.4 | -3.5 | -3.1 | -3.1 | -2.8 | -2.4 |
| | 12H | -3.5 | -3.1 | -3.1 | -2.8 | -2.4 | -3.5 | -3.1 | -3.1 | -2.8 | -2.4 |
| 4H | 2H | -3.3 | -2.9 | -3.0 | -2.6 | -2.3 | -3.3 | -2.9 | -3.0 | -2.6 | -2.3 |
| | 3H | -3.5 | -3.1 | -3.1 | -2.8 | -2.4 | -3.5 | -3.1 | -3.1 | -2.8 | -2.4 |
| | 4H | -3.6 | -3.3 | -3.2 | -2.9 | -2.5 | -3.6 | -3.3 | -3.2 | -2.9 | -2.5 |
| | 6H | -3.7 | -3.4 | -3.3 | -3.0 | -2.6 | -3.7 | -3.4 | -3.3 | -3.0 | -2.6 |
| | 8H | -3.7 | -3.5 | -3.3 | -3.0 | -2.6 | -3.7 | -3.5 | -3.3 | -3.0 | -2.6 |
| | 12H | -3.8 | -3.5 | -3.3 | -3.1 | -2.7 | -3.8 | -3.5 | -3.3 | -3.1 | -2.7 |
| 8H | 4H | -3.7 | -3.5 | -3.3 | -3.0 | -2.6 | -3.7 | -3.5 | -3.3 | -3.0 | -2.6 |
| | 6H | -3.8 | -3.6 | -3.4 | -3.2 | -2.7 | -3.8 | -3.6 | -3.4 | -3.2 | -2.7 |
| | 8H | -3.9 | -3.7 | -3.4 | -3.2 | -2.7 | -3.9 | -3.7 | -3.4 | -3.2 | -2.7 |
| | 12H | -3.9 | -3.8 | -3.4 | -3.3 | -2.8 | -3.9 | -3.8 | -3.4 | -3.3 | -2.8 |
| 12H | 4H | -3.8 | -3.5 | -3.3 | -3.1 | -2.7 | -3.8 | -3.5 | -3.3 | -3.1 | -2.7 |
| | 6H | -3.9 | -3.7 | -3.4 | -3.2 | -2.7 | -3.9 | -3.7 | -3.4 | -3.2 | -2.7 |
| | 8H | -3.9 | -3.8 | -3.4 | -3.3 | -2.8 | -3.9 | -3.8 | -3.4 | -3.3 | -2.8 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | 1.0H | 0.8 / -18.5 | | | | | 0.8 / -18.5 | | | | |
| | 1.5H | 9.6 / -18.7 | | | | | 9.6 / -18.7 | | | | |
| | 2.0H | 11.6 / -23.0 | | | | | 11.6 / -23.0 | | | | |