

Laser Blade L

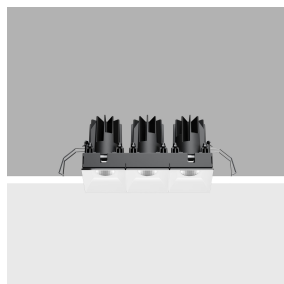
Design iGuzzini

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Last information update: October 2024

Product configuration: QK13.01

QK13.01: Minimal 3 cells - Wide Flood beam - LED - White



Product code

QK13.01: Minimal 3 cells - Wide Flood beam - LED - White

Technical description

Fixed optic, three compartment recessed luminaire for a high efficiency LED lamps. Passive heat dissipation system. Lamp body with die-cast aluminium radiant surface, flush with ceiling version (frameless). For recessed installation in a false ceiling a specific adapter is required that is available with a separate item code. Metallised, thermoplastic, high definition optics, integrated in a rear position in the anti-glare screens. Glass cover for LED lamp. The structure of the optic system produces controlled luminance emission to guarantee high visual comfort. Supplied with a dimmable DALI electronic ballast connected to the luminaire.

Installation

The luminaire is recessed in the specific adapter (QK51) by means of a steel wire spring, previously installed on the ceiling that can be between 12.5 and 25 mm thick. Installation possible in a horizontal or vertical position.

Colour

White (01)

Weight (Kg)

1.24

Mounting

wall recessed|ceiling recessed

Wiring

Quick-coupling connections on the ballast unit. Digital electronic cabling that allows dimming to be performed with DALI protocol or a pushbutton switch (read the indications on the instruction sheet carefully).

Notes

The product with its white finish (01) includes an optic ring for limiting luminance; a feature that renders optimal performance and determines slight variations in the opening of the optic and yield.

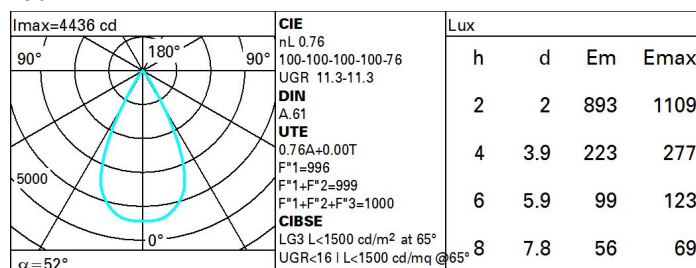
Complies with EN60598-1 and pertinent regulations



Technical data

| | | | |
|--|-------|--|--|
| Im system: | 2963 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| W system: | 28.4 | Voltage [Vin]: | 230 |
| Im source: | 3900 | Lamp code: | LED |
| W source: | 25 | Number of lamps for optical assembly: | 1 |
| Luminous efficiency (Im/W, real value): | 104.3 | ZVEI Code: | LED |
| Im in emergency mode: | - | Number of optical assemblies: | 1 |
| Total light flux at or above an angle of 90° [Lm]: | 0 | Power factor: | See installation instructions |
| Light Output Ratio (L.O.R.) [%]: | 76 | Inrush current: | 10 A / 200 µs |
| Beam angle [°]: | 52° | Maximum number of luminaires of this type per miniature circuit breaker: | B10A: 18 luminaires B16A: 30 luminaires C10A: 31 luminaires C16A: 51 luminaires |
| CRI (minimum): | 80 | Minimum dimming %: | 1 |
| Colour temperature [K]: | 4000 | Overvoltage protection: | 5kV Common mode & 4kV Differential mode |
| MacAdam Step: | 2 | Control: | DALI-2 |

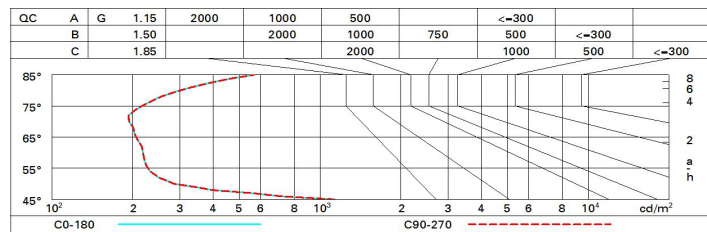
Polar



Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 69 | 65 | 63 | 61 | 64 | 62 | 62 | 59 | 78 |
| 1.0 | 72 | 68 | 66 | 64 | 68 | 66 | 65 | 63 | 83 |
| 1.5 | 75 | 73 | 71 | 69 | 72 | 70 | 69 | 67 | 88 |
| 2.0 | 77 | 76 | 74 | 73 | 75 | 73 | 73 | 71 | 93 |
| 2.5 | 79 | 78 | 77 | 76 | 76 | 76 | 75 | 73 | 96 |
| 3.0 | 80 | 79 | 78 | 77 | 78 | 77 | 76 | 74 | 98 |
| 4.0 | 81 | 80 | 80 | 79 | 79 | 78 | 77 | 75 | 99 |
| 5.0 | 81 | 81 | 80 | 80 | 79 | 79 | 78 | 76 | 100 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 3900 lm bare lamp luminous flux) | | | | | | | | | | | |
|--|-----|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.: ceiling/cav walls work pl. Room dim x y | | viewed crosswise | | | | | viewed endwise | | | | |
| 2H | 2H | 11.9 | 12.3 | 12.1 | 12.5 | 12.7 | 11.9 | 12.3 | 12.1 | 12.5 | 12.7 |
| | 3H | 11.7 | 12.1 | 12.0 | 12.4 | 12.7 | 11.7 | 12.1 | 12.0 | 12.4 | 12.7 |
| | 4H | 11.7 | 12.0 | 12.0 | 12.3 | 12.6 | 11.7 | 12.0 | 12.0 | 12.3 | 12.6 |
| | 6H | 11.6 | 11.9 | 11.9 | 12.2 | 12.6 | 11.6 | 11.9 | 11.9 | 12.2 | 12.6 |
| | 8H | 11.6 | 11.9 | 11.9 | 12.2 | 12.5 | 11.6 | 11.9 | 11.9 | 12.2 | 12.5 |
| | 12H | 11.5 | 11.8 | 11.9 | 12.2 | 12.5 | 11.5 | 11.8 | 11.9 | 12.2 | 12.5 |
| 4H | 2H | 11.7 | 12.0 | 12.0 | 12.3 | 12.6 | 11.7 | 12.0 | 12.0 | 12.3 | 12.6 |
| | 3H | 11.5 | 11.8 | 11.9 | 12.2 | 12.5 | 11.5 | 11.8 | 11.9 | 12.2 | 12.5 |
| | 4H | 11.4 | 11.7 | 11.8 | 12.1 | 12.5 | 11.4 | 11.7 | 11.8 | 12.1 | 12.5 |
| | 6H | 11.3 | 11.6 | 11.8 | 12.0 | 12.4 | 11.3 | 11.6 | 11.8 | 12.0 | 12.4 |
| | 8H | 11.3 | 11.5 | 11.7 | 11.9 | 12.4 | 11.3 | 11.5 | 11.7 | 11.9 | 12.4 |
| | 12H | 11.3 | 11.5 | 11.7 | 11.9 | 12.3 | 11.2 | 11.4 | 11.7 | 11.9 | 12.3 |
| 8H | 4H | 11.3 | 11.5 | 11.7 | 11.9 | 12.4 | 11.3 | 11.5 | 11.7 | 11.9 | 12.4 |
| | 6H | 11.2 | 11.4 | 11.7 | 11.8 | 12.3 | 11.2 | 11.4 | 11.7 | 11.8 | 12.3 |
| | 8H | 11.2 | 11.3 | 11.6 | 11.8 | 12.3 | 11.2 | 11.3 | 11.6 | 11.8 | 12.3 |
| | 12H | 11.1 | 11.2 | 11.6 | 11.7 | 12.3 | 11.1 | 11.2 | 11.6 | 11.7 | 12.2 |
| 12H | 4H | 11.2 | 11.4 | 11.7 | 11.9 | 12.3 | 11.3 | 11.5 | 11.7 | 11.9 | 12.3 |
| | 6H | 11.1 | 11.3 | 11.6 | 11.8 | 12.3 | 11.2 | 11.3 | 11.6 | 11.8 | 12.3 |
| | 8H | 11.1 | 11.2 | 11.6 | 11.7 | 12.2 | 11.1 | 11.2 | 11.6 | 11.7 | 12.3 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | | 0.5 / -15.1 | | | | | 0.5 / -15.1 | | | | |
| | | 1.5H / -15.3 | | | | | 1.5H / -15.3 | | | | |
| | | 2.0H / -15.5 | | | | | 2.0H / -15.5 | | | | |