

Laser Blade L

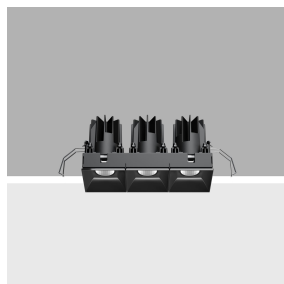
Design iGuzzini

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Last information update: October 2024

Product configuration: QK14.04

QK14.04: Minimal 3 cells - Wide Flood beam - LED - Black



Product code

QK14.04: Minimal 3 cells - Wide Flood beam - LED - Black

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

Black (04)

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: | 2745 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| W system: | 28.4 | Voltage [Vin]: | 230 |
| Im source: | 3350 | Lamp code: | LED |
| W source: | 25 | Number of lamps for optical assembly: | 1 |
| Luminous efficiency (Im/W, real value): | 96.6 | 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.) [%]: | 82 | Inrush current: | 10 A / 200 µs |
| Beam angle [°]: | 54° | 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): | 90 | Minimum dimming %: | 1 |
| Colour temperature [K]: | 3000 | Overvoltage protection: | 5kV Common mode & 4kV Differential mode |
| MacAdam Step: | 2 | Control: | DALI-2 |

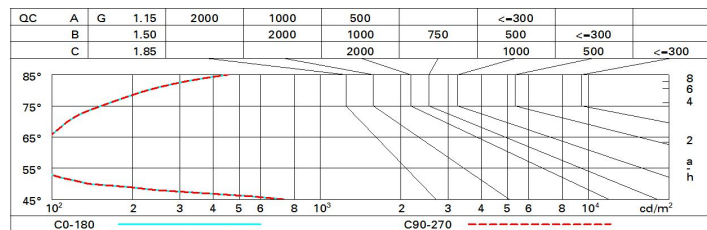
Polar

| | | | | |
|---|-----|-----|-----|------|
| Imax=3931 cd CIE nL 0.82 100-100-100-100-82 UGR 11.5-11.5 DIN A.61 UTE 0.82A+0.00T F*1=997 F*1+F*2=999 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m² at 65° UGR<16 L<1500 cd/mq @65° α=54° | Lux | | | |
| | h | d | Em | Emax |
| | 2 | 2 | 785 | 983 |
| | 4 | 4.1 | 196 | 246 |
| | 6 | 6.1 | 87 | 109 |
| | 8 | 8.2 | 49 | 61 |

Utilisation factors

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|------|----|----|----|----|----|----|----|----|-----|
| K0.8 | 74 | 70 | 68 | 65 | 69 | 67 | 67 | 64 | 78 |
| 1.0 | 77 | 74 | 71 | 69 | 73 | 71 | 70 | 68 | 83 |
| 1.5 | 81 | 78 | 76 | 75 | 77 | 76 | 75 | 73 | 89 |
| 2.0 | 83 | 82 | 80 | 79 | 81 | 79 | 78 | 76 | 93 |
| 2.5 | 85 | 84 | 83 | 82 | 82 | 81 | 81 | 78 | 96 |
| 3.0 | 86 | 85 | 84 | 84 | 84 | 83 | 82 | 80 | 98 |
| 4.0 | 87 | 86 | 86 | 85 | 85 | 85 | 83 | 81 | 99 |
| 5.0 | 88 | 87 | 87 | 86 | 86 | 85 | 84 | 82 | 100 |

Luminance curve limit



UGR diagram

| Corrected UGR values (at 3350 lm bare lamp luminous flux) | | | | | | | | | | | |
|--|-----|---------------------|------|---------|------|------|-------------------|------|---------|------|------|
| Reflect.: ceiling/cav walls work pl. Room dim x y | | viewed crosswise | | | | | viewed endwise | | | | |
| 2H | 2H | 12.1 | 12.5 | 12.3 | 12.7 | 12.9 | 12.1 | 12.5 | 12.3 | 12.7 | 12.9 |
| | 3H | 11.9 | 12.3 | 12.2 | 12.6 | 12.9 | 11.9 | 12.3 | 12.2 | 12.6 | 12.9 |
| | 4H | 11.9 | 12.2 | 12.2 | 12.5 | 12.8 | 11.9 | 12.2 | 12.2 | 12.5 | 12.8 |
| | 6H | 11.8 | 12.1 | 12.1 | 12.4 | 12.8 | 11.8 | 12.1 | 12.1 | 12.4 | 12.8 |
| | 8H | 11.7 | 12.1 | 12.1 | 12.4 | 12.7 | 11.7 | 12.1 | 12.1 | 12.4 | 12.7 |
| | 12H | 11.7 | 12.0 | 12.1 | 12.4 | 12.7 | 11.7 | 12.0 | 12.1 | 12.4 | 12.7 |
| 4H | 2H | 11.9 | 12.2 | 12.2 | 12.5 | 12.8 | 11.9 | 12.2 | 12.2 | 12.5 | 12.8 |
| | 3H | 11.7 | 12.0 | 12.1 | 12.4 | 12.7 | 11.7 | 12.0 | 12.1 | 12.4 | 12.7 |
| | 4H | 11.6 | 11.9 | 12.0 | 12.3 | 12.6 | 11.6 | 11.9 | 12.0 | 12.3 | 12.6 |
| | 6H | 11.5 | 11.8 | 11.9 | 12.2 | 12.6 | 11.5 | 11.8 | 11.9 | 12.2 | 12.6 |
| | 8H | 11.5 | 11.7 | 11.9 | 12.1 | 12.6 | 11.5 | 11.7 | 11.9 | 12.1 | 12.6 |
| | 12H | 11.4 | 11.6 | 11.9 | 12.1 | 12.5 | 11.4 | 11.6 | 11.9 | 12.1 | 12.5 |
| 8H | 4H | 11.5 | 11.7 | 11.9 | 12.1 | 12.6 | 11.5 | 11.7 | 11.9 | 12.1 | 12.6 |
| | 6H | 11.4 | 11.6 | 11.8 | 12.0 | 12.5 | 11.4 | 11.6 | 11.8 | 12.0 | 12.5 |
| | 8H | 11.3 | 11.5 | 11.8 | 12.0 | 12.5 | 11.3 | 11.5 | 11.8 | 12.0 | 12.5 |
| | 12H | 11.3 | 11.4 | 11.8 | 11.9 | 12.4 | 11.3 | 11.4 | 11.8 | 11.9 | 12.4 |
| 12H | 4H | 11.4 | 11.6 | 11.9 | 12.1 | 12.5 | 11.4 | 11.6 | 11.9 | 12.1 | 12.5 |
| | 6H | 11.3 | 11.5 | 11.8 | 12.0 | 12.5 | 11.3 | 11.5 | 11.8 | 12.0 | 12.5 |
| | 8H | 11.3 | 11.4 | 11.8 | 11.9 | 12.4 | 11.3 | 11.4 | 11.8 | 11.9 | 12.4 |
| Variations with the observer position at spacing: | | | | | | | | | | | |
| S = | | 1.0H | 6.5 | / -17.3 | | | | 6.5 | / -17.3 | | |
| | | 1.5H | 9.3 | / -17.4 | | | | 9.3 | / -17.4 | | |
| | | 2.0H | 11.3 | / -17.6 | | | | 11.3 | / -17.6 | | |