

Laser Blade L

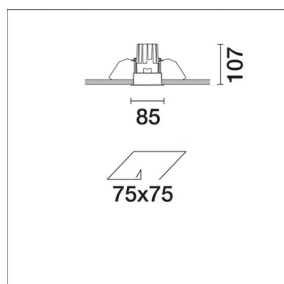
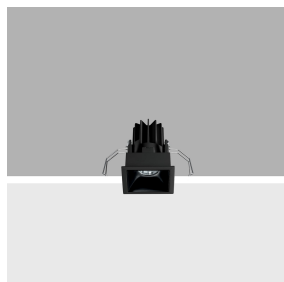
Design iGuzzini

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Last information update: October 2024

Product configuration: N162.43

N162.43: Fixed, Recessed luminaire - Warm LED - Incorporated DALI dimmable power supply - WideFlood optic Beam - Black/Black



Product code

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Technical description

Fixed optic, recessed luminaire for a warm white LED lamp with a high color rendering index. Passive heat dissipation system. Lamp body with die-cast aluminium radiant surface, version with perimeter surface frame. Metallised, thermoplastic, high definition optic, integrated in a rear position in the anti-glare screen. Glass cover for LED lamp. The structure of the optical system produces light emission with controlled luminance (UGR < 19). Equipped with a dimmable DALI ballast connected to the luminaire.

Installation

recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 75 x 75. Installation permitted in either a horizontal or vertical position.

Colour

Black / Black (43)

Weight (Kg)

0.5

Mounting

wall recessed|ceiling recessed

Wiring

on the control gears box with quick-coupling connections. Digital electronic cabling that allows dimming to be performed with DALI protocol or a pushbutton switch (DIM SWITCH).

Notes

The product with its white finish (01) includes an optic ring for limiting luminance; a feature that renders a performance of UGR < 19 and determines slight variations in the opening of the optic (52°) and yield (0.74).

Complies with EN60598-1 and pertinent regulations



Technical data

| | | | |
|--|------|--|--|
| Im system: | 942 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| W system: | 10.6 | Voltage [Vin]: | 230 |
| Im source: | 1150 | Lamp code: | LED |
| W source: | 8.3 | Number of lamps for optical assembly: | 1 |
| Luminous efficiency (Im/W, real value): | 88.9 | 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: | 16 A / 220 µs |
| Beam angle [°]: | 54° | Maximum number of luminaires of this type per miniature circuit breaker: | B10A: 15 luminaires B16A: 24 luminaires C10A: 24 luminaires C16A: 40 luminaires |
| CRI (minimum): | 90 | Overvoltage protection: | 2kV Common mode & 1kV Differential mode |
| Colour temperature [K]: | 3000 | Control: | DALI-2 |
| MacAdam Step: | 2 | | |

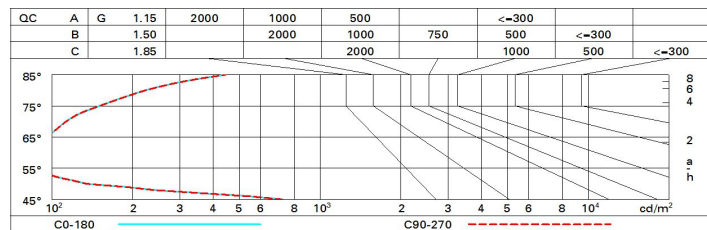
Polar

| | | | | | |
|--------------|--|-------------------------------|--|---------------|--|
| Imax=1291 cd | | CIE | | Lux | |
| 90° 180° 90° | | nL 0.82 | | h d Em Emax | |
| 1000 | | 100-100-100-100-82 | | 1 1 1031 1291 | |
| 0° | | UGR 11.4-11.4 | | 2 2 258 323 | |
| α=54° | | DIN A.61 | | 3 3.1 115 143 | |
| | | UTE 0.82A+0.00T | | 4 4.1 64 81 | |
| | | 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° | | | |

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 1100 lm bare lamp luminous flux) | | | | | | | | | | | |
|--|-----|---------------------|--------------|------|------|------|-------------------|------|------|------|------|
| Reflect.: ceiling/cav walls work pl. Room dim x y | | viewed crosswise | | | | | viewed endwise | | | | |
| 2H | 2H | 12.0 | 12.5 | 12.3 | 12.8 | 13.0 | 12.0 | 12.5 | 12.3 | 12.8 | 13.0 |
| | 3H | 11.8 | 12.4 | 12.2 | 12.6 | 12.9 | 11.8 | 12.4 | 12.2 | 12.6 | 12.9 |
| | 4H | 11.8 | 12.2 | 12.1 | 12.5 | 12.8 | 11.8 | 12.2 | 12.1 | 12.5 | 12.8 |
| | 6H | 11.7 | 12.1 | 12.0 | 12.4 | 12.8 | 11.7 | 12.1 | 12.0 | 12.4 | 12.8 |
| | 8H | 11.7 | 12.1 | 12.0 | 12.4 | 12.7 | 11.7 | 12.1 | 12.0 | 12.4 | 12.7 |
| | 12H | 11.6 | 12.0 | 12.0 | 12.4 | 12.7 | 11.6 | 12.0 | 12.0 | 12.4 | 12.7 |
| 4H | 2H | 11.8 | 12.2 | 12.1 | 12.5 | 12.8 | 11.8 | 12.2 | 12.1 | 12.5 | 12.8 |
| | 3H | 11.6 | 12.0 | 12.0 | 12.4 | 12.7 | 11.6 | 12.0 | 12.0 | 12.4 | 12.7 |
| | 4H | 11.5 | 11.9 | 11.9 | 12.3 | 12.6 | 11.5 | 11.9 | 11.9 | 12.3 | 12.6 |
| | 6H | 11.4 | 11.8 | 11.9 | 12.2 | 12.6 | 11.4 | 11.8 | 11.9 | 12.2 | 12.6 |
| | 8H | 11.4 | 11.7 | 11.8 | 12.1 | 12.5 | 11.4 | 11.7 | 11.8 | 12.1 | 12.5 |
| | 12H | 11.4 | 11.6 | 11.8 | 12.0 | 12.5 | 11.3 | 11.6 | 11.8 | 12.0 | 12.5 |
| 8H | 4H | 11.4 | 11.7 | 11.8 | 12.1 | 12.5 | 11.4 | 11.7 | 11.8 | 12.1 | 12.5 |
| | 6H | 11.3 | 11.5 | 11.8 | 12.0 | 12.5 | 11.3 | 11.5 | 11.8 | 12.0 | 12.5 |
| | 8H | 11.3 | 11.5 | 11.7 | 11.9 | 12.4 | 11.3 | 11.5 | 11.7 | 11.9 | 12.4 |
| | 12H | 11.2 | 11.4 | 11.7 | 11.9 | 12.4 | 11.2 | 11.4 | 11.7 | 11.9 | 12.4 |
| 12H | 4H | 11.3 | 11.6 | 11.8 | 12.0 | 12.5 | 11.4 | 11.6 | 11.8 | 12.0 | 12.5 |
| | 6H | 11.3 | 11.5 | 11.7 | 11.9 | 12.4 | 11.3 | 11.5 | 11.7 | 11.9 | 12.4 |
| | 8H | 11.2 | 11.4 | 11.7 | 11.9 | 12.4 | 11.2 | 11.4 | 11.7 | 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 | | | | |