

## Laser Blade L

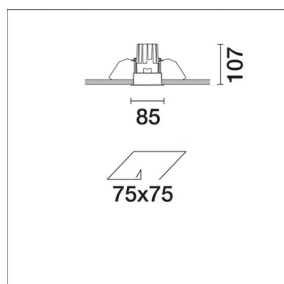
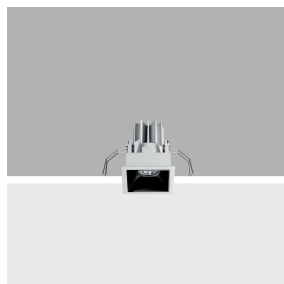
Design iGuzzini

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Last information update: October 2024

### Product configuration: N162.47

N162.47: Fixed, Recessed luminaire - Warm LED - Incorporated DALI dimmable power supply - WideFlood optic Beam - White/Black



### Product code

N162.47: Fixed, Recessed luminaire - Warm LED - Incorporated DALI dimmable power supply - WideFlood optic Beam - White/Black

### 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 / White (47)

### 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<br>B16A: 24 luminaires<br>C10A: 24 luminaires<br>C16A: 40 luminaires |
| CRI (minimum):                                     | 90   | Overvoltage protection:  | 2kV Common mode & 1kV Differential mode  |
| Colour temperature [K]:                            | 3000 | Control:   | DALI-2   |
| MacAdam Step:                                      | 2    |  |  |

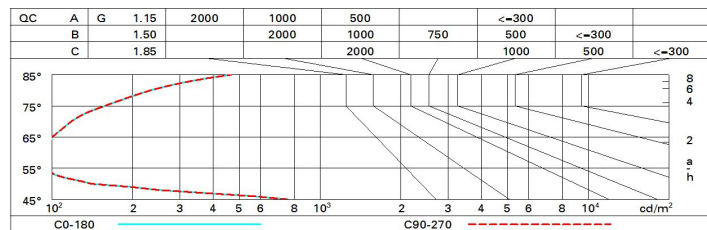
### Polar

|              |  |                               |  |               |  |
|--------------|--|-------------------------------|--|---------------|--|
| Imax=1349 cd |  | CIE                           |  | Lux           |  |
| 90° 180° 90° |  | nL 0.82                       |  | h d Em Emax   |  |
| 1500         |  | 100-100-100-100-82            |  | 1 1 1077 1349 |  |
| 0°           |  | UGR 11.6-11.6                 |  | 2 2 269 337   |  |
| α=54°        |  | DIN A.61                      |  | 3 3.1 120 150 |  |
|              |  | UTE 0.82A+0.00T               |  | 4 4.1 67 84   |  |
|              |  | 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 1150 lm bare lamp luminous flux)        |     |                     |      |      |      |      |                   |      |      |      |      |
|--|-----|---------------------|------|------|------|------|-------------------|------|------|------|------|
| Reflect.:<br>ceiling/cav<br>walls<br>work pl.<br>Room dim<br>x y |     | viewed<br>crosswise |      |      |      |      | viewed<br>endwise |      |      |      |      |
| 2H   | 2H  | 12.1                | 12.7 | 12.4 | 12.9 | 13.2 | 12.1              | 12.7 | 12.4 | 12.9 | 13.2 |
|  | 3H  | 12.0                | 12.5 | 12.3 | 12.8 | 13.1 | 12.0              | 12.5 | 12.3 | 12.8 | 13.0 |
|  | 4H  | 11.9                | 12.4 | 12.3 | 12.7 | 13.0 | 11.9              | 12.4 | 12.3 | 12.7 | 13.0 |
|  | 6H  | 11.9                | 12.3 | 12.2 | 12.6 | 12.9 | 11.8              | 12.3 | 12.2 | 12.6 | 12.9 |
|  | 8H  | 11.8                | 12.2 | 12.2 | 12.6 | 12.9 | 11.8              | 12.2 | 12.2 | 12.6 | 12.9 |
|  | 12H | 11.8                | 12.2 | 12.2 | 12.5 | 12.9 | 11.8              | 12.2 | 12.1 | 12.5 | 12.9 |
| 4H   | 2H  | 11.9                | 12.4 | 12.3 | 12.7 | 13.0 | 11.9              | 12.4 | 12.3 | 12.7 | 13.0 |
|  | 3H  | 11.8                | 12.2 | 12.2 | 12.5 | 12.9 | 11.8              | 12.2 | 12.2 | 12.5 | 12.9 |
|  | 4H  | 11.7                | 12.0 | 12.1 | 12.4 | 12.8 | 11.7              | 12.0 | 12.1 | 12.4 | 12.8 |
|  | 6H  | 11.6                | 11.9 | 12.0 | 12.3 | 12.7 | 11.6              | 11.9 | 12.0 | 12.3 | 12.7 |
|  | 8H  | 11.6                | 11.8 | 12.0 | 12.3 | 12.7 | 11.6              | 11.8 | 12.0 | 12.2 | 12.7 |
|  | 12H | 11.5                | 11.8 | 12.0 | 12.2 | 12.7 | 11.5              | 11.8 | 12.0 | 12.2 | 12.6 |
| 8H   | 4H  | 11.6                | 11.8 | 12.0 | 12.2 | 12.7 | 11.6              | 11.8 | 12.0 | 12.3 | 12.7 |
|  | 6H  | 11.5                | 11.7 | 11.9 | 12.1 | 12.6 | 11.5              | 11.7 | 11.9 | 12.1 | 12.6 |
|  | 8H  | 11.4                | 11.6 | 11.9 | 12.1 | 12.6 | 11.4              | 11.6 | 11.9 | 12.1 | 12.6 |
|  | 12H | 11.4                | 11.5 | 11.9 | 12.0 | 12.5 | 11.4              | 11.5 | 11.9 | 12.0 | 12.5 |
| 12H  | 4H  | 11.5                | 11.8 | 12.0 | 12.2 | 12.6 | 11.5              | 11.8 | 12.0 | 12.2 | 12.7 |
|  | 6H  | 11.4                | 11.6 | 11.9 | 12.1 | 12.6 | 11.4              | 11.6 | 11.9 | 12.1 | 12.6 |
|  | 8H  | 11.4                | 11.5 | 11.9 | 12.0 | 12.5 | 11.4              | 11.5 | 11.9 | 12.0 | 12.5 |
| Variations with the observer position at spacing:                |     |                     |      |      |      |      |                   |      |      |      |      |
| S =  |     | 1.0H                |      |      |      |      | 0.5 / -17.3       |      |      |      |      |
|  |     | 1.5H                |      |      |      |      | 9.3 / -17.4       |      |      |      |      |
|  |     | 2.0H                |      |      |      |      | 11.3 / -17.6      |      |      |      |      |