# Laser Blade XS

**Design iGuzzini** **iGuzzini**

Last information update: June 2025

**Product configuration: Q548**
Q548: Minimal 5 cells - Wideflood beam - LED

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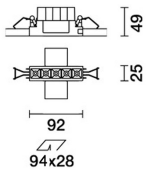
**Technical description**
Linear miniaturised recessed luminaire with 5 optical elements for LED lamps - fixed optic. Despite the ultracompact size of the product, the patented technology of the optic system guarantees an efficient flow and a high level of controlled glare visual comfort. Main body with die-cast zamak radiant surface, minimal (frameless) version for mounting flush with the ceiling. Metallised, thermoplastic, high definition Opti Beam reflectors, integrated in a set-back position in the anti-glare screen. Supplied with a power supply unit connected to the luminaire.

**Installation**
Recessed with steel wire springs on the specific adapter (included) which allows flush-mounting with the ceiling. Adapter fixed to false ceiling (compatible thicknesses of 12.5 / 15 / 20 mm) with screws; subsequent filling and smoothing operations; insertion of luminaire body and aesthetic end finishing. A special protective sheath allows finishing operations on the plasterboard to be simplified and speeded up. Preparation hole 28 x 94.




**Weight (Kg)**
0.37

**Mounting**
wall recessed|ceiling recessed

**Wiring**
On the power supply unit with terminal board included.

**Notes**
The special steel wire spring provided is required to facilitate the eventual extraction of the recessed body once it has been inserted.

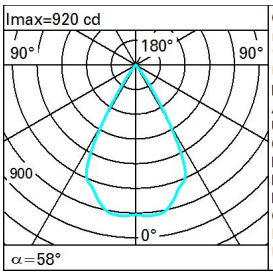
Complies with EN60598-1 and pertinent regulations

IP20

**Technical data**

| | | | |
|---|---|---|---|
| lm system: | 722 | CRI (minimum): | 90 |
| W system: | 12.7 | Colour temperature [K]: | 4000 |
| lm source: | 870 | MacAdam Step: | 3 |
| W source: | 9.7 | Life Time LED 1: | > 50,000h - L80 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value): | 56.9 | Voltage [Vin]: | 230 |
| lm in emergency mode: | - | Lamp code: | LED |
| Total light flux at or above an angle of 90° [Lm]: | 0 | Number of lamps for optical assembly: | 1 |
| Light Output Ratio (L.O.R.) [%]: | 83 | ZVEI Code: | LED |
| Beam angle [°]: | 58° | Number of optical assemblies: | 1 |

**Polar**




**CIE**
nL 0.83
100-100-100-100-83
UGR 16.3-16.3
**DIN**
A.61
**UTE**
0.83A+0.00T
F"1=996
F"1+F"2=1000
F"1+F"2+F"3=1000
**CIBSE**
LG3 L<1500 cd/m² at 65°
UGR<19 | L<1500 cd/mq @65°

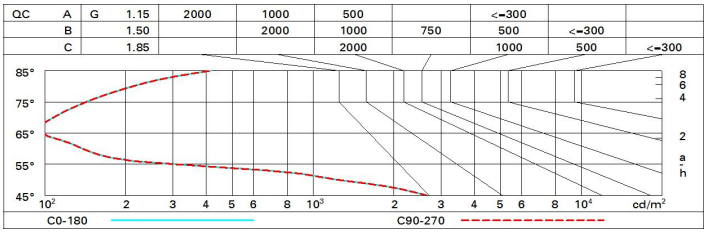
Lux

| h | d | Em | Emax |
|---|---|---|---|
| 1 | 1.1 | 732 | 913 |
| 2 | 2.2 | 183 | 228 |
| 3 | 3.3 | 81 | 101 |
| 4 | 4.4 | 46 | 57 |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 75 | 71 | 68 | 66 | 70 | 68 | 68 | 65 | 78 |
| 1.0 | 78 | 75 | 72 | 70 | 74 | 72 | 71 | 69 | 83 |
| 1.5 | 82 | 79 | 77 | 76 | 78 | 77 | 76 | 73 | 89 |
| 2.0 | 85 | 83 | 81 | 80 | 82 | 80 | 79 | 77 | 93 |
| 2.5 | 86 | 85 | 84 | 83 | 84 | 83 | 82 | 79 | 96 |
| 3.0 | 87 | 86 | 85 | 85 | 85 | 84 | 83 | 81 | 98 |
| 4.0 | 88 | 87 | 87 | 86 | 86 | 86 | 84 | 82 | 99 |
| 5.0 | 89 | 88 | 88 | 88 | 87 | 86 | 85 | 83 | 100 |

**Luminance curve limit**




**UGR diagram**

Corrected UGR values (at 870 lm bare lamp luminous flux)

| Riflect.: ceil/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 | 16.8 | 17.3 | 17.1 | 17.5 | 17.8 | 16.8 | 17.3 | 17.1 | 17.5 | 17.8 |
| | 3H | 16.7 | 17.1 | 17.0 | 17.4 | 17.7 | 16.7 | 17.1 | 17.0 | 17.4 | 17.7 |
| | 4H | 16.6 | 17.0 | 17.0 | 17.3 | 17.6 | 16.6 | 17.0 | 17.0 | 17.3 | 17.6 |
| | 6H | 16.6 | 16.9 | 16.9 | 17.2 | 17.6 | 16.6 | 16.9 | 16.9 | 17.2 | 17.6 |
| | 8H | 16.5 | 16.9 | 16.9 | 17.2 | 17.5 | 16.5 | 16.9 | 16.9 | 17.2 | 17.5 |
| | 12H | 16.5 | 16.8 | 16.9 | 17.2 | 17.5 | 16.5 | 16.8 | 16.9 | 17.2 | 17.5 |
| 4H | 2H | 16.6 | 17.0 | 17.0 | 17.3 | 17.6 | 16.6 | 17.0 | 17.0 | 17.3 | 17.6 |
| | 3H | 16.5 | 16.8 | 16.9 | 17.2 | 17.5 | 16.5 | 16.8 | 16.9 | 17.2 | 17.5 |
| | 4H | 16.4 | 16.7 | 16.8 | 17.1 | 17.4 | 16.4 | 16.7 | 16.8 | 17.1 | 17.4 |
| | 6H | 16.3 | 16.6 | 16.7 | 17.0 | 17.4 | 16.3 | 16.6 | 16.7 | 17.0 | 17.4 |
| | 8H | 16.3 | 16.5 | 16.7 | 16.9 | 17.4 | 16.3 | 16.5 | 16.7 | 16.9 | 17.4 |
| | 12H | 16.2 | 16.4 | 16.7 | 16.9 | 17.3 | 16.2 | 16.4 | 16.7 | 16.9 | 17.3 |
| 8H | 4H | 16.3 | 16.5 | 16.7 | 16.9 | 17.4 | 16.3 | 16.5 | 16.7 | 16.9 | 17.4 |
| | 6H | 16.2 | 16.4 | 16.6 | 16.8 | 17.3 | 16.2 | 16.4 | 16.6 | 16.8 | 17.3 |
| | 8H | 16.1 | 16.3 | 16.6 | 16.7 | 17.2 | 16.1 | 16.3 | 16.6 | 16.7 | 17.2 |
| | 12H | 16.1 | 16.2 | 16.6 | 16.7 | 17.2 | 16.1 | 16.2 | 16.6 | 16.7 | 17.2 |
| 12H | 4H | 16.2 | 16.4 | 16.7 | 16.9 | 17.3 | 16.2 | 16.4 | 16.7 | 16.9 | 17.3 |
| | 6H | 16.1 | 16.3 | 16.6 | 16.7 | 17.2 | 16.1 | 16.3 | 16.6 | 16.7 | 17.2 |
| | 8H | 16.1 | 16.2 | 16.6 | 16.7 | 17.2 | 16.1 | 16.2 | 16.6 | 16.7 | 17.2 |

Variations with the observer position at spacing:

| S = | | | |
|---|---|---|---|
| | 1.0H | 6.5 / -24.9 | 6.5 / -24.9 |
| | 1.5H | 9.4 / -25.6 | 9.4 / -25.6 |
| | 2.0H | 11.4 / -25.8 | 11.4 / -25.8 |