# Laser Blade XS

**Design iGuzzini** **iGuzzini**

Last information update: February 2025

**Product configuration: QJ12**
QJ12: Minimal 5 cells - Medium beam - LED

**Product code**
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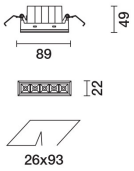
**Technical description**
Linear miniaturised recessed luminaire with 5 optical elements for LED lamps - fixed optic. Despite the ultracompact size of the product, the patented technology of the optic system guarantees an efficient luminous flux and a high level of controlled glare visual comfort. Main body with die-cast aluminium radiant surface, minimal (frameless) version for mounting flush with the ceiling. For recessed installation in a false ceiling a specific adapter is required that is available with a separate item code. Metallised, thermoplastic, high definition Opti Beam reflector, integrated in a set-back position in the anti-glare screen. Supplied with a dimmable DALI power supply unit connected to the luminaire.

**Installation**
The luminaire is recessed in the specific adapter (QJ90) by means of a steel wire spring, previously installed on the ceiling that can be 12.5 / 15 / 20 mm thick. A special protective sheath allows finishing operations on the plasterboard to be simplified and speeded up.




**Colour**
White (01) | Black (04) | Gold (14)* | Burnished chrome (E6)*

**Weight (Kg)**
0.32

* Colours on request

**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.

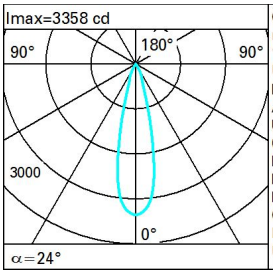
Complies with EN60598-1 and pertinent regulations

IP20 IP23

**Technical data**

| | | | |
|---|---|---|---|
| lm system: | 727 | Colour temperature [K]: | 3000 |
| W system: | 12.4 | MacAdam Step: | 2 |
| lm source: | 920 | Life Time LED 1: | > 50,000h - L80 - B10 (Ta 25°C) |
| W source: | 9.9 | Voltage [Vin]: | 230 |
| Luminous efficiency (lm/W, real value): | 58.6 | Lamp code: | LED |
| lm in emergency mode: | - | Number of lamps for optical assembly: | 1 |
| Total light flux at or above an angle of 90° [Lm]: | 0 | ZVEI Code: | LED |
| Light Output Ratio (L.O.R.) [%]: | 79 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 25° | Control: | DALI-2 |
| CRI (minimum): | 90 | | |

**Polar**




**CIE**
nL 0.79
100-100-100-100-79
UGR <10-<10
**DIN**
A.61
**UTE**
0.79A+0.00T
F"1=999
F"1+F"2=1000
F"1+F"2+F"3=1000
**CIBSE**
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

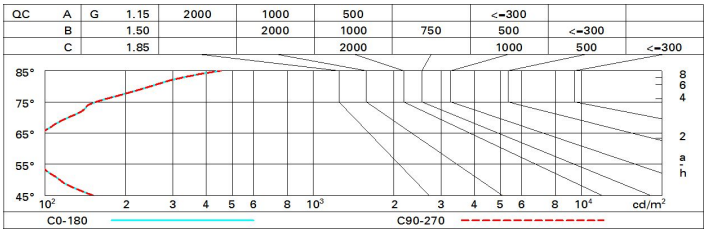
Lux

| h | d | Em | Emax |
|---|---|---|---|
| 2 | 0.9 | 697 | 839 |
| 4 | 1.7 | 174 | 210 |
| 6 | 2.6 | 77 | 93 |
| 8 | 3.4 | 44 | 52 |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 71 | 68 | 65 | 63 | 67 | 65 | 64 | 62 | 78 |
| 1.0 | 75 | 71 | 69 | 67 | 70 | 68 | 68 | 66 | 83 |
| 1.5 | 78 | 76 | 74 | 72 | 75 | 73 | 72 | 70 | 89 |
| 2.0 | 81 | 79 | 77 | 76 | 78 | 76 | 76 | 73 | 93 |
| 2.5 | 82 | 81 | 80 | 79 | 80 | 79 | 78 | 76 | 96 |
| 3.0 | 83 | 82 | 81 | 81 | 81 | 80 | 79 | 77 | 98 |
| 4.0 | 84 | 83 | 83 | 82 | 82 | 82 | 80 | 79 | 99 |
| 5.0 | 84 | 84 | 84 | 83 | 83 | 82 | 81 | 79 | 100 |

**Luminance curve limit**




**UGR diagram**

Corrected UGR values (at 920 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 | 3.1 | 5.2 | 3.4 | 5.5 | 5.9 | 3.1 | 5.2 | 3.4 | 5.5 | 5.9 |
| | 3H | 2.9 | 4.5 | 3.3 | 4.9 | 5.2 | 2.9 | 4.5 | 3.3 | 4.9 | 5.2 |
| | 4H | 2.9 | 4.2 | 3.3 | 4.5 | 4.9 | 2.9 | 4.2 | 3.2 | 4.5 | 4.9 |
| | 6H | 2.8 | 3.9 | 3.2 | 4.2 | 4.6 | 2.8 | 3.8 | 3.2 | 4.2 | 4.5 |
| | 8H | 2.8 | 3.8 | 3.2 | 4.2 | 4.5 | 2.8 | 3.8 | 3.2 | 4.1 | 4.5 |
| | 12H | 2.8 | 3.8 | 3.2 | 4.1 | 4.5 | 2.7 | 3.7 | 3.1 | 4.1 | 4.5 |
| 4H | 2H | 2.9 | 4.2 | 3.2 | 4.5 | 4.9 | 2.9 | 4.2 | 3.3 | 4.5 | 4.9 |
| | 3H | 2.7 | 3.8 | 3.1 | 4.1 | 4.5 | 2.7 | 3.8 | 3.1 | 4.1 | 4.5 |
| | 4H | 2.6 | 3.6 | 3.0 | 4.0 | 4.4 | 2.6 | 3.6 | 3.0 | 4.0 | 4.4 |
| | 6H | 2.3 | 4.0 | 2.7 | 4.4 | 4.9 | 2.3 | 3.9 | 2.7 | 4.4 | 4.9 |
| | 8H | 2.1 | 4.0 | 2.6 | 4.5 | 5.0 | 2.1 | 4.0 | 2.6 | 4.5 | 5.0 |
| | 12H | 2.1 | 4.0 | 2.6 | 4.5 | 5.0 | 2.0 | 4.0 | 2.5 | 4.5 | 5.0 |
| 8H | 4H | 2.1 | 4.0 | 2.6 | 4.5 | 5.0 | 2.1 | 4.0 | 2.6 | 4.5 | 5.0 |
| | 6H | 2.0 | 3.8 | 2.5 | 4.3 | 4.8 | 2.0 | 3.8 | 2.6 | 4.3 | 4.8 |
| | 8H | 2.0 | 3.6 | 2.6 | 4.1 | 4.6 | 2.0 | 3.6 | 2.6 | 4.1 | 4.6 |
| | 12H | 2.2 | 3.2 | 2.7 | 3.7 | 4.3 | 2.2 | 3.2 | 2.7 | 3.7 | 4.2 |
| 12H | 4H | 2.0 | 4.0 | 2.5 | 4.5 | 5.0 | 2.1 | 4.0 | 2.6 | 4.5 | 5.0 |
| | 6H | 2.0 | 3.6 | 2.5 | 4.1 | 4.6 | 2.1 | 3.6 | 2.6 | 4.1 | 4.7 |
| | 8H | 2.2 | 3.2 | 2.7 | 3.7 | 4.2 | 2.2 | 3.2 | 2.7 | 3.7 | 4.3 |

Variations with the observer position at spacing:

| S = | | | |
|---|---|---|---|
| | 1.0H | 6.9 / -11.5 | 6.9 / -11.5 |
| | 1.5H | 9.7 / -11.7 | 9.7 / -11.7 |
| | 2.0H | 11.7 / -11.8 | 11.7 / -11.8 |