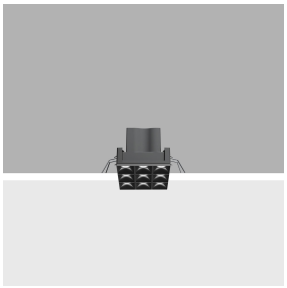
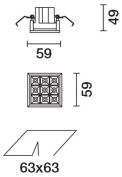
# Laser Blade XS

**Design iGuzzini** **iGuzzini**

Last information update: August 2025

**Product configuration: QJ27**
QJ27: Minimal Square 9 cells - Wide Flood beam - Tunable White - LED






**Product code**
QJ27: Minimal Square 9 cells - Wide Flood beam - Tunable White - LED

**Technical description**
Minimal square 9 optic element recessed miniaturised luminaire. Using LED lamps with a high colour rendering index and a different colour temperature allows dynamic light modulation to be obtained. The variation is achieved by mixing an emission of 5 x 2700K LEDs and 4 x 5700K LEDs. Despite the disparity of lamps that use extreme channels - 2700K and 5700K - the intensity of the flux emitted remains the same. Moreover, even when products of different sizes are used, the colour temperature remains constant and uniform. Main body with die-cast aluminium radiant surface; frameless version for mounting flush with 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 reflectors, integrated in a set-back position in the anti-glare screen. The product is designed to be used together with codes 6170 + M630 to obtain a solution suitable for small to medium systems that can be programmed with a DALI protocol via a simple and intuitive user touch-panel. Other management systems are also available with a separate code for larger systems that require the intervention of a specialised technician to programme them: the MH97 + MH93 + MI02 group offers a DALI / KNX programmable solution, and the MH97 + MH93 + M618 group allows the system management to be extended to remote devices like tablet and smartphones too.

**Installation**
The luminaire is recessed in the specific adapter (QJ91) 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)**
0.37

* Colours on request

**Mounting**
wall recessed|ceiling recessed

**Wiring**
DALI control gear units included. Different management systems are available with a separate code. For technical details, properties and connection procedures see the instruction sheet.

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

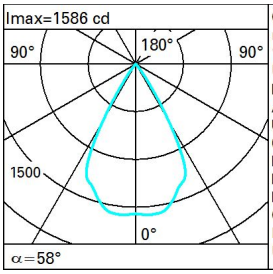
Complies with EN60598-1 and pertinent regulations

IP20 IP23

**Technical data**

| | | | |
|---|---|---|---|
| lm system: | 1245 | CRI (minimum): | 90 |
| W system: | 19.7 | Colour temperature [K]: | Tunable white 2700 - 5700 |
| lm source: | 1500 | Life Time LED 1: | > 50,000h - L80 - B10 (Ta 25°C) |
| W source: | 15 | Lamp code: | LED |
| Luminous efficiency (lm/W, real value): | 63.2 | Number of lamps for optical assembly: | 1 |
| lm in emergency mode: | - | ZVEI Code: | LED |
| Total light flux at or above an angle of 90° [Lm]: | 0 | Number of optical assemblies: | 1 |
| Light Output Ratio (L.O.R.) [%]: | 83 | Control: | DALI-2 |
| Beam angle [°]: | 58° | | |

**Polar**




**CIE**
nL 0.83
100-100-100-100-83
UGR 15.9-15.9
**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<16 I L<1500 cd/mq @65°

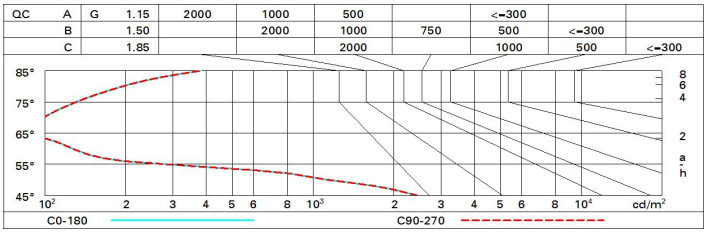
Lux

| h | d | Em | Emax |
|---|---|---|---|
| 1 | 1.1 | 1262 | 1573 |
| 2 | 2.2 | 315 | 393 |
| 3 | 3.3 | 140 | 175 |
| 4 | 4.4 | 79 | 98 |

**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 1500 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 | 16.5 | 17.1 | 16.8 | 17.4 | 17.6 | 16.5 | 17.1 | 16.8 | 17.4 | 17.6 |
| | 3H | 16.4 | 16.9 | 16.7 | 17.2 | 17.5 | 16.4 | 16.9 | 16.7 | 17.2 | 17.5 |
| | 4H | 16.3 | 16.8 | 16.7 | 17.1 | 17.4 | 16.3 | 16.8 | 16.7 | 17.1 | 17.4 |
| | 6H | 16.2 | 16.7 | 16.6 | 17.0 | 17.3 | 16.2 | 16.7 | 16.6 | 17.0 | 17.3 |
| | 8H | 16.2 | 16.6 | 16.6 | 17.0 | 17.3 | 16.2 | 16.6 | 16.6 | 17.0 | 17.3 |
| | 12H | 16.2 | 16.6 | 16.5 | 16.9 | 17.3 | 16.2 | 16.6 | 16.5 | 16.9 | 17.3 |
| 4H | 2H | 16.3 | 16.8 | 16.7 | 17.1 | 17.4 | 16.3 | 16.8 | 16.7 | 17.1 | 17.4 |
| | 3H | 16.2 | 16.6 | 16.5 | 16.9 | 17.3 | 16.2 | 16.6 | 16.5 | 16.9 | 17.3 |
| | 4H | 16.1 | 16.4 | 16.5 | 16.8 | 17.2 | 16.1 | 16.4 | 16.5 | 16.8 | 17.2 |
| | 6H | 16.0 | 16.3 | 16.4 | 16.7 | 17.1 | 16.0 | 16.3 | 16.4 | 16.7 | 17.1 |
| | 8H | 15.9 | 16.2 | 16.4 | 16.7 | 17.1 | 15.9 | 16.2 | 16.4 | 16.7 | 17.1 |
| | 12H | 15.9 | 16.2 | 16.4 | 16.6 | 17.1 | 15.9 | 16.2 | 16.4 | 16.6 | 17.1 |
| 8H | 4H | 15.9 | 16.2 | 16.4 | 16.7 | 17.1 | 15.9 | 16.2 | 16.4 | 16.7 | 17.1 |
| | 6H | 15.9 | 16.1 | 16.3 | 16.5 | 17.0 | 15.9 | 16.1 | 16.3 | 16.5 | 17.0 |
| | 8H | 15.8 | 16.0 | 16.3 | 16.5 | 17.0 | 15.8 | 16.0 | 16.3 | 16.5 | 17.0 |
| | 12H | 15.7 | 15.9 | 16.2 | 16.4 | 16.9 | 15.7 | 15.9 | 16.2 | 16.4 | 16.9 |
| 12H | 4H | 15.9 | 16.2 | 16.4 | 16.6 | 17.1 | 15.9 | 16.2 | 16.4 | 16.6 | 17.1 |
| | 6H | 15.8 | 16.0 | 16.3 | 16.5 | 17.0 | 15.8 | 16.0 | 16.3 | 16.5 | 17.0 |
| | 8H | 15.7 | 15.9 | 16.2 | 16.4 | 16.9 | 15.7 | 15.9 | 16.2 | 16.4 | 16.9 |

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 |