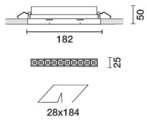
# Laser Blade XS

**Design iGuzzini** **iGuzzini**

Last information update: June 2025

**Product configuration: Q796**
Q796: Minimal 10 cells - Wide Flood beam - Tunable White - LED




**Product code**
Q796: Minimal 10 cells - Wide Flood beam - Tunable White - LED

**Technical description**
Minimal linear 10 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 5 x 5700K LEDs. The colour temperature remains constant and uniform even when products of different sizes with different numbers of warm and cold LEDs are used. Main body with die-cast aluminium radiant surface; frameless version for mounting flush with ceiling. 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 code 6170 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**
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 184.

**Weight (Kg)**
0.68

**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.

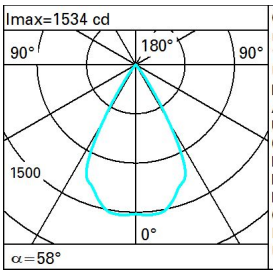
Complies with EN60598-1 and pertinent regulations

IP20

**Technical data**

| | | | |
|---|---|---|---|
| lm system: | 1204 | Beam angle [°]: | 58° |
| W system: | 21.3 | Colour temperature [K]: | Tunable white 2700 - 5700 |
| lm source: | 1450 | Life Time LED 1: | > 50,000h - L80 - B10 (Ta 25°C) |
| W source: | 17 | Lamp code: | LED |
| Luminous efficiency (lm/W, real value): | 56.5 | 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 |

**Polar**




**CIE**
nL 0.83
100-100-100-100-83
UGR 15.6-15.6
**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°

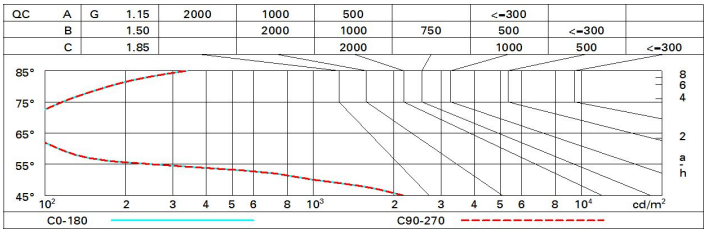
Lux

| h | d | Em | Emax |
|---|---|---|---|
| 1 | 1.1 | 1219 | 1521 |
| 2 | 2.2 | 305 | 380 |
| 3 | 3.3 | 135 | 169 |
| 4 | 4.4 | 76 | 95 |

**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 1450 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 | 16.1 | 16.6 | 16.4 | 16.8 | 17.1 | 16.1 | 16.6 | 16.4 | 16.8 | 17.1 |
| | 3H | 16.0 | 16.4 | 16.3 | 16.7 | 17.0 | 16.0 | 16.4 | 16.3 | 16.7 | 17.0 |
| | 4H | 15.9 | 16.3 | 16.3 | 16.6 | 16.9 | 15.9 | 16.3 | 16.3 | 16.6 | 16.9 |
| | 6H | 15.9 | 16.2 | 16.2 | 16.5 | 16.9 | 15.9 | 16.2 | 16.2 | 16.5 | 16.9 |
| | 8H | 15.8 | 16.2 | 16.2 | 16.5 | 16.8 | 15.8 | 16.2 | 16.2 | 16.5 | 16.8 |
| | 12H | 15.8 | 16.1 | 16.2 | 16.5 | 16.8 | 15.8 | 16.1 | 16.2 | 16.5 | 16.8 |
| 4H | 2H | 15.9 | 16.3 | 16.3 | 16.6 | 16.9 | 15.9 | 16.3 | 16.3 | 16.6 | 16.9 |
| | 3H | 15.8 | 16.1 | 16.2 | 16.5 | 16.8 | 15.8 | 16.1 | 16.2 | 16.5 | 16.8 |
| | 4H | 15.7 | 16.0 | 16.1 | 16.4 | 16.7 | 15.7 | 16.0 | 16.1 | 16.4 | 16.7 |
| | 6H | 15.6 | 15.9 | 16.0 | 16.3 | 16.7 | 15.6 | 15.9 | 16.0 | 16.3 | 16.7 |
| | 8H | 15.6 | 15.8 | 16.0 | 16.2 | 16.6 | 15.6 | 15.8 | 16.0 | 16.2 | 16.6 |
| | 12H | 15.5 | 15.7 | 16.0 | 16.2 | 16.6 | 15.5 | 15.7 | 16.0 | 16.1 | 16.6 |
| 8H | 4H | 15.6 | 15.8 | 16.0 | 16.2 | 16.6 | 15.6 | 15.8 | 16.0 | 16.2 | 16.6 |
| | 6H | 15.5 | 15.7 | 15.9 | 16.1 | 16.6 | 15.5 | 15.7 | 15.9 | 16.1 | 16.6 |
| | 8H | 15.4 | 15.6 | 15.9 | 16.0 | 16.5 | 15.4 | 15.6 | 15.9 | 16.0 | 16.5 |
| | 12H | 15.3 | 15.5 | 15.8 | 16.0 | 16.5 | 15.3 | 15.5 | 15.8 | 16.0 | 16.5 |
| 12H | 4H | 15.5 | 15.7 | 16.0 | 16.1 | 16.6 | 15.5 | 15.7 | 16.0 | 16.2 | 16.6 |
| | 6H | 15.4 | 15.6 | 15.9 | 16.0 | 16.5 | 15.4 | 15.6 | 15.9 | 16.0 | 16.5 |
| | 8H | 15.3 | 15.5 | 15.8 | 16.0 | 16.5 | 15.3 | 15.5 | 15.8 | 16.0 | 16.5 |

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 |