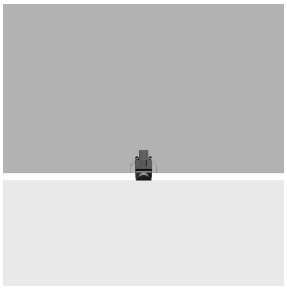
# Laser Blade XS

**Design iGuzzini** **iGuzzini**

Last information update: June 2025

**Product configuration: RA84**
RA84: Minimal 1 cell - Flood beam - LED



**Product code**
RA84: Minimal 1 cell - Flood beam - LED

**Technical description**
Square miniaturised recessed luminaire for a single LED lamp - 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 zamak 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. Ballast not included, available with separate code.

**Installation**
The luminaire is recessed in the specific adapter (QJ86) 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)**
0.04

* Colours on request

**Mounting**
wall recessed|ceiling recessed

**Wiring**
Constant current ballasts to be ordered separately: ON-OFF - code no. MXF9 (min 1 / max 8); dimmable DALI - code no. BZM4 (min 2 / max 20) - check the instruction sheet for the lengths and compatible cross-sections of the cables to be used.

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

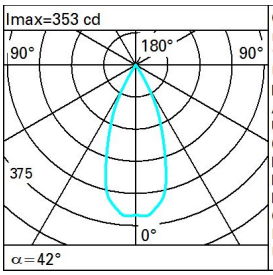
Complies with EN60598-1 and pertinent regulations

IP20

**Technical data**

| | | | |
|---|---|---|---|
| lm system: | 168 | CRI (minimum): | 90 |
| W system: | 2 | Colour temperature [K]: | 3500 |
| lm source: | 210 | MacAdam Step: | 2 |
| W source: | 2 | Life Time LED 1: | > 50,000h - L80 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value): | 84 | 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.) [%]: | 80 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 42° | LED current [mA]: | 700 |

**Polar**




**CIE**
nL 0.80
100-100-100-100-80
UGR <10-<10
**DIN**
A.61
**UTE**
0.80A+0.00T
F"1=997
F"1+F"2=999
F"1+F"2+F"3=1000
**CIBSE**
LG3 L<3000 cd/m² at 65°
UGR<10 | L<3000 cd/mq @65°

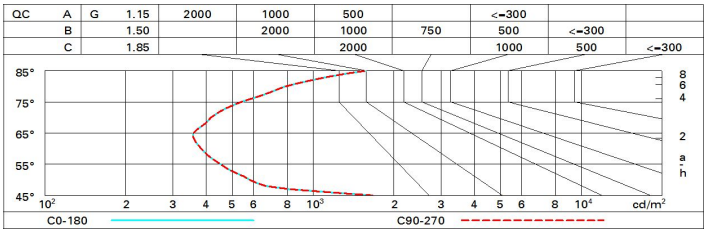
Lux

| h | d | Em | Emax |
|---|---|---|---|
| 1 | 0.8 | 281 | 352 |
| 2 | 1.5 | 70 | 88 |
| 3 | 2.3 | 31 | 39 |
| 4 | 3.1 | 18 | 22 |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 72 | 69 | 66 | 64 | 68 | 66 | 65 | 63 | 78 |
| 1.0 | 75 | 72 | 70 | 68 | 71 | 69 | 69 | 66 | 83 |
| 1.5 | 79 | 77 | 75 | 73 | 76 | 74 | 73 | 71 | 89 |
| 2.0 | 82 | 80 | 78 | 77 | 79 | 77 | 76 | 74 | 93 |
| 2.5 | 83 | 82 | 81 | 80 | 81 | 80 | 79 | 77 | 96 |
| 3.0 | 84 | 83 | 82 | 82 | 82 | 81 | 80 | 78 | 98 |
| 4.0 | 85 | 84 | 84 | 83 | 83 | 83 | 81 | 79 | 99 |
| 5.0 | 86 | 85 | 85 | 84 | 84 | 83 | 82 | 80 | 100 |

**Luminance curve limit**




**UGR diagram**

Corrected UGR values (at 210 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 | 8.5 | 9.1 | 8.8 | 9.3 | 9.6 | 8.5 | 9.1 | 8.8 | 9.3 | 9.6 |
| | 3H | 8.4 | 8.9 | 8.7 | 9.2 | 9.5 | 8.4 | 8.9 | 8.7 | 9.2 | 9.5 |
| | 4H | 8.3 | 8.8 | 8.7 | 9.1 | 9.4 | 8.3 | 8.8 | 8.7 | 9.1 | 9.4 |
| | 6H | 8.3 | 8.7 | 8.6 | 9.0 | 9.4 | 8.2 | 8.7 | 8.6 | 9.0 | 9.3 |
| | 8H | 8.3 | 8.7 | 8.6 | 9.0 | 9.4 | 8.2 | 8.6 | 8.6 | 9.0 | 9.3 |
| | 12H | 8.2 | 8.7 | 8.6 | 9.0 | 9.4 | 8.2 | 8.6 | 8.6 | 8.9 | 9.3 |
| 4H | 2H | 8.3 | 8.8 | 8.7 | 9.1 | 9.4 | 8.3 | 8.8 | 8.7 | 9.1 | 9.4 |
| | 3H | 8.2 | 8.6 | 8.6 | 8.9 | 9.3 | 8.2 | 8.6 | 8.6 | 8.9 | 9.3 |
| | 4H | 8.1 | 8.5 | 8.5 | 8.8 | 9.2 | 8.1 | 8.5 | 8.5 | 8.8 | 9.2 |
| | 6H | 8.1 | 8.4 | 8.5 | 8.8 | 9.2 | 8.0 | 8.4 | 8.5 | 8.7 | 9.2 |
| | 8H | 8.0 | 8.3 | 8.5 | 8.7 | 9.2 | 8.0 | 8.3 | 8.4 | 8.7 | 9.1 |
| | 12H | 8.0 | 8.3 | 8.5 | 8.7 | 9.2 | 7.9 | 8.2 | 8.4 | 8.6 | 9.1 |
| 8H | 4H | 8.0 | 8.3 | 8.4 | 8.7 | 9.1 | 8.0 | 8.3 | 8.5 | 8.7 | 9.2 |
| | 6H | 7.9 | 8.2 | 8.4 | 8.6 | 9.1 | 8.0 | 8.2 | 8.4 | 8.7 | 9.1 |
| | 8H | 7.9 | 8.1 | 8.4 | 8.6 | 9.1 | 7.9 | 8.1 | 8.4 | 8.6 | 9.1 |
| | 12H | 8.0 | 8.2 | 8.5 | 8.6 | 9.2 | 7.9 | 8.1 | 8.4 | 8.6 | 9.1 |
| 12H | 4H | 7.9 | 8.2 | 8.4 | 8.6 | 9.1 | 8.0 | 8.3 | 8.5 | 8.7 | 9.2 |
| | 6H | 7.9 | 8.1 | 8.4 | 8.6 | 9.1 | 8.0 | 8.2 | 8.5 | 8.7 | 9.2 |
| | 8H | 7.9 | 8.1 | 8.4 | 8.6 | 9.1 | 8.0 | 8.2 | 8.5 | 8.6 | 9.2 |

Variations with the observer position at spacing:

| S = | | | |
|---|---|---|---|
| | 1.0H | 6.7 / -8.9 | 6.7 / -8.9 |
| | 1.5H | 9.5 / -9.1 | 9.5 / -9.1 |
| | 2.0H | 11.5 / -9.3 | 11.5 / -9.3 |