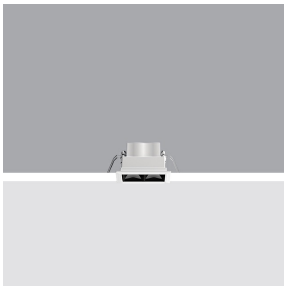
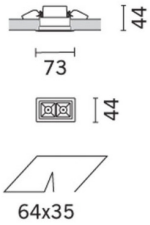
# Laser Blade

**Design iGuzzini** **iGuzzini**

Last information update: February 2025

**Product configuration: EJ72**
EJ72: 2 - cell Recessed luminaire - LED - Warm white - Flood optic






**Product code**
EJ72: 2 - cell Recessed luminaire - LED - Warm white - Flood optic

**Technical description**
rectangular miniaturised recessed luminaire with 2 optical elements with LED lamps - fixed optics - flood beam angle. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. Metallised thermoplastic high definition optics, integrated in a rear position in the black anti-glare screen. Connecting cable supplied. Ballast not included, available with separate code. Warm white LED.

**Installation**
recessed with steel wire springs for false ceilings from 1 to 20 mm thick - preparation hole 35 x 64

**Colour**
White (01) | Black / Black (43) | Black / White (47) | White/Gold (41)* | Grey / Black (74)* | White / burnished chrome (E7)*

**Weight (Kg)**
0.09

* Colours on request

**Mounting**
wall recessed|ceiling recessed

**Wiring**
direct current ballasts to be ordered separately: electronic (MXF9) for max. 7 LEDs; DALI dimmable (BZM4) for max. 20 LEDs (check instructions leaflet for compatible lengths of cables to be used)

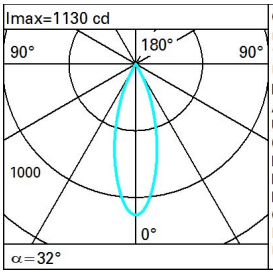
Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

**Technical data**

| | | | |
|---|---|---|---|
| lm system: | 357 | CRI (typical): | 92 |
| W system: | 4 | Colour temperature [K]: | 2700 |
| lm source: | 420 | MacAdam Step: | 3 |
| W source: | 4 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value): | 89.3 | 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.) [%]: | 85 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 32° | LED current [mA]: | 700 |
| CRI (minimum): | 90 | | |

**Polar**




**CIE**
nL 0.85
100-100-100-100-85
UGR <10-<10
**DIN**
A.61
**UTE**
0.85A+0.00T
F"1=1000
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 |
|---|---|---|---|
| 1 | 0.6 | 863 | 1130 |
| 2 | 1.1 | 216 | 283 |
| 3 | 1.7 | 96 | 126 |
| 4 | 2.3 | 54 | 71 |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 77 | 73 | 70 | 68 | 72 | 70 | 69 | 67 | 78 |
| 1.0 | 80 | 77 | 74 | 72 | 76 | 74 | 73 | 71 | 83 |
| 1.5 | 84 | 81 | 79 | 78 | 80 | 79 | 78 | 75 | 89 |
| 2.0 | 87 | 85 | 83 | 82 | 84 | 82 | 81 | 79 | 93 |
| 2.5 | 88 | 87 | 86 | 85 | 86 | 85 | 84 | 81 | 96 |
| 3.0 | 89 | 88 | 88 | 87 | 87 | 86 | 85 | 83 | 98 |
| 4.0 | 90 | 90 | 89 | 89 | 88 | 88 | 87 | 84 | 99 |
| 5.0 | 91 | 90 | 90 | 90 | 89 | 89 | 87 | 85 | 100 |

**UGR diagram**

Corrected UGR values (at 420 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 | -3.0 | -2.5 | -2.7 | -2.2 | -2.0 | -3.0 | -2.5 | -2.7 | -2.2 | -2.0 |
| | 3H | -3.1 | -2.6 | -2.8 | -2.4 | -2.1 | -3.1 | -2.6 | -2.8 | -2.4 | -2.1 |
| | 4H | -3.2 | -2.8 | -2.9 | -2.5 | -2.2 | -3.2 | -2.8 | -2.9 | -2.5 | -2.2 |
| | 6H | -3.3 | -2.9 | -2.9 | -2.6 | -2.2 | -3.3 | -2.9 | -2.9 | -2.6 | -2.2 |
| | 8H | -3.3 | -2.9 | -3.0 | -2.6 | -2.3 | -3.3 | -2.9 | -3.0 | -2.6 | -2.3 |
| | 12H | -3.4 | -3.0 | -3.0 | -2.6 | -2.3 | -3.4 | -3.0 | -3.0 | -2.6 | -2.3 |
| 4H | 2H | -3.2 | -2.8 | -2.9 | -2.5 | -2.2 | -3.2 | -2.8 | -2.9 | -2.5 | -2.2 |
| | 3H | -3.4 | -3.0 | -3.0 | -2.6 | -2.3 | -3.4 | -3.0 | -3.0 | -2.6 | -2.3 |
| | 4H | -3.4 | -3.1 | -3.0 | -2.7 | -2.4 | -3.4 | -3.1 | -3.0 | -2.7 | -2.4 |
| | 6H | -3.5 | -3.2 | -3.1 | -2.8 | -2.4 | -3.5 | -3.2 | -3.1 | -2.8 | -2.4 |
| | 8H | -3.6 | -3.3 | -3.1 | -2.9 | -2.5 | -3.6 | -3.3 | -3.1 | -2.9 | -2.5 |
| | 12H | -3.6 | -3.4 | -3.2 | -3.0 | -2.5 | -3.6 | -3.4 | -3.2 | -3.0 | -2.5 |
| 8H | 4H | -3.6 | -3.3 | -3.1 | -2.9 | -2.5 | -3.6 | -3.3 | -3.1 | -2.9 | -2.5 |
| | 6H | -3.7 | -3.5 | -3.2 | -3.0 | -2.5 | -3.7 | -3.5 | -3.2 | -3.0 | -2.5 |
| | 8H | -3.7 | -3.5 | -3.2 | -3.1 | -2.6 | -3.7 | -3.5 | -3.2 | -3.1 | -2.6 |
| | 12H | -3.8 | -3.6 | -3.3 | -3.1 | -2.6 | -3.8 | -3.6 | -3.3 | -3.1 | -2.6 |
| 12H | 4H | -3.6 | -3.4 | -3.2 | -3.0 | -2.5 | -3.6 | -3.4 | -3.2 | -3.0 | -2.5 |
| | 6H | -3.7 | -3.5 | -3.2 | -3.1 | -2.6 | -3.7 | -3.5 | -3.2 | -3.1 | -2.6 |
| | 8H | -3.8 | -3.6 | -3.3 | -3.1 | -2.6 | -3.8 | -3.6 | -3.3 | -3.1 | -2.6 |

Variations with the observer position at spacing:

| | | | |
|---|---|---|---|
| S = | 1.0H | 6.9 / -25.5 | 6.9 / -25.5 |
| | 1.5H | 9.7 / -26.0 | 9.7 / -26.0 |
| | 2.0H | 11.7 / -26.8 | 11.7 / -26.8 |