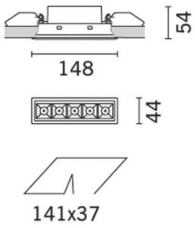
# Laser Blade

**Design iGuzzini** **iGuzzini**

Last information update: March 2025

**Product configuration: Q936**
Q936: Frame recessed luminaire - 5 cells - General Lighting Pro - DALI




**Product code**
Q936: Frame recessed luminaire - 5 cells - General Lighting Pro - DALI

**Technical description**
Rectangular recessed luminaire with 5 optical elements for LED lamps - fixed optics with metallised thermoplastic high definition Opti-Beam reflectors, integrated in a set-back position in the anti-glare screen. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. The total white finish and the patented technology of the optic system guarantee an even and efficient luminous flux optimised by a special diffuser screen that reduces direct glare significantly. Supplied with DALI dimmable electronic control gear connected to the luminaire.

**Installation**
Recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 141.

**Colour**
White (01)

**Weight (Kg)**
0.3

**Mounting**
wall recessed|ceiling recessed

**Wiring**
On control gear box with quick-coupling connections.

Complies with EN60598-1 and pertinent regulations

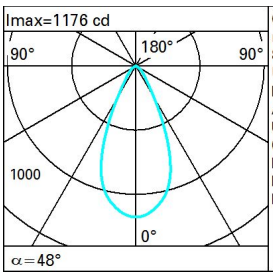
IP20 IP23

**Technical data**

| | |
|---|---|
| lm system: | 825 |
| W system: | 13 |
| lm source: | 1100 |
| W source: | 9.9 |
| Luminous efficiency (lm/W, real value): | 63.5 |
| lm in emergency mode: | - |
| Total light flux at or above an angle of 90° [Lm]: | 0 |
| Light Output Ratio (L.O.R.) [%]: | 75 |
| CRI (minimum): | 90 |
| CRI (typical): | 92 |
| Colour temperature [K]: | 3000 |
| MacAdam Step: | 3 |

| | |
|---|---|
| Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| Lamp code: | LED |
| Number of lamps for optical assembly: | 1 |
| ZVEI Code: | LED |
| Number of optical assemblies: | 1 |
| Power factor: | See installation instructions |
| Inrush current: | 20 A / 50 µs |
| Maximum number of luminaires of this type per miniature circuit breaker: | B10A: 50 luminaires<br>B16A: 80 luminaires<br>C10A: 83 luminaires<br>C16A: 136 luminaires |
| Minimum dimming %: | 1 |
| Overvoltage protection: | 2kV Common mode & 2kV Differential mode |
| Control: | DALI-2 |

**Polar**




**CIE**
nL 0.75
88-98-100-100-75
UGR 19.1-19.0
**DIN**
A.61
**UTE**
0.75A+0.00T
F"1=881
F"1+F"2=980
F"1+F"2+F"3=996

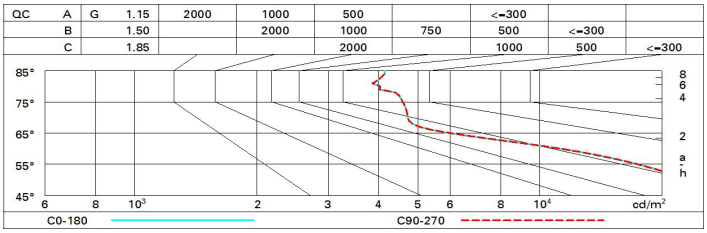
Lux

| h | d | Em | Emax |
|---|---|---|---|
| 1 | 0.9 | 911 | 1176 |
| 2 | 1.8 | 228 | 294 |
| 3 | 2.7 | 101 | 131 |
| 4 | 3.6 | 57 | 73 |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 64 | 59 | 56 | 54 | 58 | 56 | 55 | 52 | 70 |
| 1.0 | 67 | 63 | 60 | 58 | 62 | 60 | 59 | 56 | 75 |
| 1.5 | 72 | 69 | 66 | 64 | 68 | 66 | 65 | 62 | 83 |
| 2.0 | 75 | 72 | 70 | 69 | 71 | 70 | 69 | 66 | 88 |
| 2.5 | 76 | 74 | 73 | 72 | 73 | 72 | 71 | 69 | 92 |
| 3.0 | 77 | 76 | 75 | 74 | 75 | 74 | 73 | 71 | 94 |
| 4.0 | 79 | 77 | 77 | 76 | 76 | 75 | 74 | 72 | 96 |
| 5.0 | 79 | 78 | 78 | 77 | 77 | 76 | 75 | 73 | 97 |

**Luminance curve limit**




**UGR diagram**

Corrected UGR values (at 1100 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 | 18.9 | 19.6 | 19.2 | 19.8 | 20.1 | 18.9 | 19.6 | 19.2 | 19.8 | 20.1 |
| | 3H | 18.9 | 19.5 | 19.3 | 19.8 | 20.1 | 19.0 | 19.6 | 19.3 | 19.8 | 20.1 |
| | 4H | 19.0 | 19.5 | 19.3 | 19.8 | 20.1 | 18.9 | 19.5 | 19.3 | 19.8 | 20.1 |
| | 6H | 18.9 | 19.5 | 19.3 | 19.8 | 20.1 | 18.9 | 19.4 | 19.2 | 19.7 | 20.0 |
| | 8H | 18.9 | 19.5 | 19.3 | 19.8 | 20.1 | 18.8 | 19.3 | 19.2 | 19.7 | 20.0 |
| | 12H | 18.9 | 19.4 | 19.3 | 19.8 | 20.1 | 18.8 | 19.3 | 19.2 | 19.6 | 20.0 |
| 4H | 2H | 18.9 | 19.5 | 19.3 | 19.8 | 20.1 | 19.0 | 19.5 | 19.3 | 19.8 | 20.1 |
| | 3H | 19.0 | 19.5 | 19.4 | 19.8 | 20.2 | 19.0 | 19.5 | 19.4 | 19.9 | 20.2 |
| | 4H | 19.0 | 19.5 | 19.4 | 19.8 | 20.2 | 19.0 | 19.5 | 19.4 | 19.8 | 20.2 |
| | 6H | 19.1 | 19.4 | 19.5 | 19.8 | 20.3 | 19.0 | 19.4 | 19.4 | 19.8 | 20.2 |
| | 8H | 19.1 | 19.4 | 19.5 | 19.8 | 20.3 | 19.0 | 19.3 | 19.4 | 19.7 | 20.2 |
| | 12H | 19.1 | 19.4 | 19.5 | 19.8 | 20.3 | 18.9 | 19.2 | 19.4 | 19.7 | 20.1 |
| 8H | 4H | 19.0 | 19.3 | 19.4 | 19.7 | 20.2 | 19.1 | 19.4 | 19.5 | 19.8 | 20.3 |
| | 6H | 19.1 | 19.3 | 19.5 | 19.8 | 20.3 | 19.1 | 19.4 | 19.6 | 19.8 | 20.3 |
| | 8H | 19.1 | 19.3 | 19.6 | 19.8 | 20.3 | 19.1 | 19.3 | 19.6 | 19.8 | 20.3 |
| | 12H | 19.1 | 19.3 | 19.6 | 19.8 | 20.3 | 19.1 | 19.3 | 19.6 | 19.8 | 20.3 |
| 12H | 4H | 18.9 | 19.2 | 19.4 | 19.7 | 20.1 | 19.1 | 19.4 | 19.5 | 19.8 | 20.3 |
| | 6H | 19.0 | 19.3 | 19.5 | 19.7 | 20.2 | 19.1 | 19.3 | 19.6 | 19.8 | 20.3 |
| | 8H | 19.1 | 19.3 | 19.6 | 19.8 | 20.3 | 19.1 | 19.3 | 19.6 | 19.8 | 20.3 |

Variations with the observer position at spacing:

| S = | | | |
|---|---|---|---|
| | 1.0H | 1.4 / -1.5 | 1.4 / -1.5 |
| | 1.5H | 3.1 / -3.7 | 3.1 / -3.7 |
| | 2.0H | 4.8 / -4.9 | 4.8 / -4.9 |