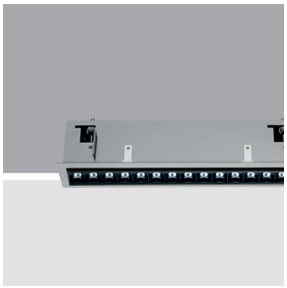
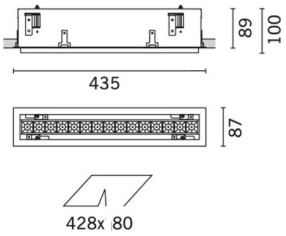
# Laser Blade

**Design iGuzzini** **iGuzzini**

Last information update: April 2025

**Product configuration: R625**
R625: Adjustable 15 - cell Recessed frame - LED Neutral white - DALI dimmable power supply - WideFlood Beam






**Product code**
R625: Adjustable 15 - cell Recessed frame - LED Neutral white - DALI dimmable power supply - WideFlood Beam

**Technical description**
Recessed rectangular luminaire with LEDs. Shaped steel sheet structural compartment with outer rim. The 15 lighting cells linear body, in die-cast aluminium, can be used to direct the emission with a tilting adjustability of +/- 30°. Metallised thermoplastic high definition optics, integrated in a rear position in the black anti-glare screen; the structure of the optical system prevents a pinpoint effect, allowing precise, circular light distribution and emission with controlled luminance . Supplied with DALI dimmable control gear connected to the luminaire. Neutral white LED.

**Installation**
recessed with mechanical blocking system for false ceilings from 1 to 25 mm; can be installed on cealings and walls (vertical + horizontal) - preparation slot 80 x 428

**Colour**
Black / Black (43) | Black / White (47) | Grey / Black (74)*

**Weight (Kg)**
2.06

* Colours on request

**Mounting**
wall recessed|ceiling recessed

**Wiring**
on power box: screw connections

**Notes**
dimming function with pushbutton (TOUCH DIM/PUSH): for this option consult the instructions included in the package

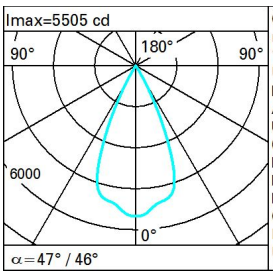
Complies with EN60598-1 and pertinent regulations

IP20

**Technical data**

| | | | |
|---|---|---|---|
| lm system: | 2876 | CRI (typical): | 92 |
| W system: | 33.5 | Colour temperature [K]: | 4000 |
| lm source: | 3550 | MacAdam Step: | 3 |
| W source: | 30 | Life Time LED 1: | > 50,000h - L90 - B10 (Ta 25°C) |
| Luminous efficiency (lm/W, real value): | 85.8 | 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.) [%]: | 81 | Number of optical assemblies: | 1 |
| Beam angle [°]: | 47° / 46° | Control: | DALI-2 |
| CRI (minimum): | 90 | | |

**Polar**




**CIE**
nL 0.81
100-100-100-100-81
UGR <10-<10
**DIN**
A.61
**UTE**
0.81A+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 |
|---|---|---|---|
| 2 | 1.7 | 1120 | 1376 |
| 4 | 3.5 | 280 | 344 |
| 6 | 5.2 | 124 | 153 |
| 8 | 7 | 70 | 86 |

**Utilisation factors**

| R | 77 | 75 | 73 | 71 | 55 | 53 | 33 | 00 | DRR |
|---|---|---|---|---|---|---|---|---|---|
| K0.8 | 73 | 70 | 67 | 65 | 69 | 66 | 66 | 64 | 78 |
| 1.0 | 76 | 73 | 71 | 69 | 72 | 70 | 70 | 67 | 83 |
| 1.5 | 80 | 78 | 76 | 74 | 77 | 75 | 74 | 72 | 89 |
| 2.0 | 83 | 81 | 79 | 78 | 80 | 78 | 78 | 75 | 93 |
| 2.5 | 84 | 83 | 82 | 81 | 82 | 81 | 80 | 78 | 96 |
| 3.0 | 85 | 84 | 83 | 83 | 83 | 82 | 81 | 79 | 98 |
| 4.0 | 86 | 85 | 85 | 84 | 84 | 84 | 82 | 81 | 99 |
| 5.0 | 87 | 86 | 86 | 86 | 85 | 84 | 83 | 81 | 100 |

**UGR diagram**

Corrected UGR values (at 3550 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 | 1.0 | 1.4 | 1.2 | 1.7 | 1.9 | 1.0 | 1.4 | 1.2 | 1.7 | 1.9 |
| | 3H | 0.8 | 1.3 | 1.1 | 1.5 | 1.8 | 0.8 | 1.3 | 1.1 | 1.5 | 1.8 |
| | 4H | 0.8 | 1.2 | 1.1 | 1.5 | 1.8 | 0.8 | 1.2 | 1.1 | 1.5 | 1.8 |
| | 6H | 0.7 | 1.1 | 1.0 | 1.4 | 1.7 | 0.7 | 1.1 | 1.0 | 1.4 | 1.7 |
| | 8H | 0.7 | 1.0 | 1.0 | 1.3 | 1.7 | 0.7 | 1.0 | 1.0 | 1.3 | 1.7 |
| | 12H | 0.6 | 1.0 | 1.0 | 1.3 | 1.6 | 0.6 | 1.0 | 1.0 | 1.3 | 1.6 |
| 4H | 2H | 0.8 | 1.2 | 1.1 | 1.5 | 1.8 | 0.8 | 1.2 | 1.1 | 1.5 | 1.8 |
| | 3H | 0.6 | 1.0 | 1.0 | 1.3 | 1.6 | 0.6 | 1.0 | 1.0 | 1.3 | 1.6 |
| | 4H | 0.5 | 0.8 | 0.9 | 1.2 | 1.6 | 0.5 | 0.8 | 0.9 | 1.2 | 1.6 |
| | 6H | 0.4 | 0.7 | 0.9 | 1.1 | 1.5 | 0.4 | 0.7 | 0.9 | 1.1 | 1.5 |
| | 8H | 0.4 | 0.6 | 0.8 | 1.0 | 1.5 | 0.4 | 0.6 | 0.8 | 1.0 | 1.5 |
| | 12H | 0.3 | 0.6 | 0.8 | 1.0 | 1.4 | 0.3 | 0.6 | 0.8 | 1.0 | 1.4 |
| 8H | 4H | 0.4 | 0.6 | 0.8 | 1.0 | 1.5 | 0.4 | 0.6 | 0.8 | 1.0 | 1.5 |
| | 6H | 0.3 | 0.5 | 0.8 | 0.9 | 1.4 | 0.3 | 0.5 | 0.8 | 0.9 | 1.4 |
| | 8H | 0.2 | 0.4 | 0.7 | 0.9 | 1.4 | 0.2 | 0.4 | 0.7 | 0.9 | 1.4 |
| | 12H | 0.2 | 0.3 | 0.7 | 0.8 | 1.3 | 0.2 | 0.3 | 0.7 | 0.8 | 1.3 |
| 12H | 4H | 0.3 | 0.6 | 0.8 | 1.0 | 1.4 | 0.3 | 0.6 | 0.8 | 1.0 | 1.4 |
| | 6H | 0.2 | 0.4 | 0.7 | 0.9 | 1.4 | 0.2 | 0.4 | 0.7 | 0.9 | 1.4 |
| | 8H | 0.2 | 0.3 | 0.7 | 0.8 | 1.3 | 0.2 | 0.3 | 0.7 | 0.8 | 1.3 |

Variations with the observer position at spacing:

| S = | | | |
|---|---|---|---|
| | 1.0H | 6.8 / -21.9 | 6.8 / -21.9 |
| | 1.5H | 9.7 / -22.0 | 9.7 / -22.0 |
| | 2.0H | 11.7 / -22.2 | 11.7 / -22.2 |