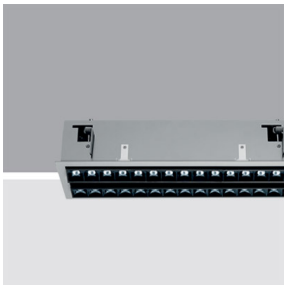
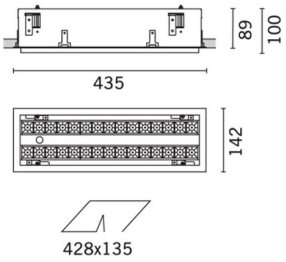
## Laser Blade

**Design iGuzzini** **iGuzzini**

Last information update: May 2018






**Adjustable 2 x 15 - cell Recessed frame - LED - Warm white - Incorporated DALI dimmable power supply - Beam 48°**

**Product code**
MQ41

**Technical description**
Recessed rectangular luminaire with LEDs. Shaped steel sheet structural compartment with outer rim. The two linear elements with 15 lighting cells, in die-cast aluminium and independently adjustable, 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 glare . Supplied with DALI dimmable control gear connected to the luminaire. Warm white high chromatic yield 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 135 x 428

**Dimension (mm)**
435x142x89

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

**Weight (Kg)**
3.36

**Mounting**
wall recessed|ceiling recessed

**Wiring**
On power box: screw and quick release connections. The product is fitted with a separate control gear for each lighting body; possibility of separate switching

**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

**Product configuration: MQ41**

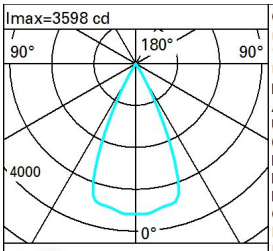
**Product characteristics**

| | |
|---|---|
| Total lighting output [Lm]: 4063.6 | Total luminous flux at or above an angle of 90° [Lm]: 0 |
| Total power [W]: 70 | Emergency luminous flux [Lm]: / |
| Luminous efficacy [Lm/W]: 58.1 | Voltage [V]: - |
| Life Time: 50,000h - L90 - B10 (Ta 25°C) | Number of optical assemblies: 2 |

**Optical assembly Characteristics Type 1**

| | |
|---|---|
| Light Output Ratio (L.O.R.) [%]: 83 | Number of lamps for optical assembly: 1 |
| Lamp code: LED | Socket: / |
| ZVEI Code: LED | Ballast losses [W]: 4 |
| Nominal power [W]: 31 | Colour temperature [K]: 3000 |
| Nominal luminous [Lm]: 2450 | CRI: 95 |
| Lamp maximum intensity [cd]: / | Wavelength [Nm]: / |
| Beam angle [°]: 48° | MacAdam Step: 3 |

**Polar**




**CIE**
nL 0.83
100-100-100-100-83
UGR <10-<10
**DIN**
A.61
**UTE**
0.83A+0.00T
F"1=999
F"1+F"2=1000
F"1+F"2+F"3=1000
**CIBSE**
LG3 L<200 cd/m² at 65°
BZ1

Lux

| h | d | Em | Emax |
|---|---|---|---|
| 2 | 1.8 | 753 | 898 |
| 4 | 3.6 | 188 | 224 |
| 6 | 5.3 | 84 | 100 |
| 8 | 7.1 | 47 | 56 |

**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 | 79 | 77 | 76 | 74 | 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 |

**UGR diagram**

Corrected UGR values (at 2450 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 | 1.5 | 1.3 | 1.7 | 1.9 | 1.0 | 1.5 | 1.3 | 1.7 | 1.9 |
| | 3H | 0.9 | 1.3 | 1.2 | 1.5 | 1.8 | 0.9 | 1.3 | 1.2 | 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 | 1.4 | 1.7 | 0.7 | 1.0 | 1.0 | 1.3 | 1.7 |
| | 12H | 0.6 | 1.0 | 1.0 | 1.3 | 1.7 | 0.6 | 1.0 | 1.0 | 1.3 | 1.7 |
| 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 | 1.7 | 0.6 | 1.0 | 1.0 | 1.3 | 1.7 |
| | 4H | 0.5 | 0.8 | 0.9 | 1.2 | 1.6 | 0.5 | 0.8 | 0.9 | 1.2 | 1.6 |
| | 6H | 0.5 | 0.7 | 0.9 | 1.1 | 1.5 | 0.5 | 0.7 | 0.9 | 1.1 | 1.5 |
| | 8H | 0.4 | 0.7 | 0.8 | 1.1 | 1.5 | 0.4 | 0.7 | 0.8 | 1.1 | 1.5 |
| | 12H | 0.4 | 0.6 | 0.8 | 1.0 | 1.5 | 0.4 | 0.6 | 0.8 | 1.0 | 1.5 |
| 8H | 4H | 0.4 | 0.7 | 0.8 | 1.1 | 1.5 | 0.4 | 0.7 | 0.8 | 1.1 | 1.5 |
| | 6H | 0.3 | 0.5 | 0.8 | 1.0 | 1.4 | 0.3 | 0.5 | 0.8 | 1.0 | 1.4 |
| | 8H | 0.3 | 0.4 | 0.7 | 0.9 | 1.4 | 0.3 | 0.4 | 0.7 | 0.9 | 1.4 |
| | 12H | 0.2 | 0.4 | 0.7 | 0.8 | 1.4 | 0.2 | 0.4 | 0.7 | 0.8 | 1.4 |
| 12H | 4H | 0.4 | 0.6 | 0.8 | 1.0 | 1.5 | 0.4 | 0.6 | 0.8 | 1.0 | 1.5 |
| | 6H | 0.3 | 0.4 | 0.7 | 0.9 | 1.4 | 0.3 | 0.4 | 0.7 | 0.9 | 1.4 |
| | 8H | 0.2 | 0.4 | 0.7 | 0.8 | 1.4 | 0.2 | 0.4 | 0.7 | 0.8 | 1.4 |

Variations with the observer position at spacing:

| S = | | | |
|---|---|---|---|
| | 1.0H | 6.9 / -18.0 | 6.9 / -18.0 |
| | 1.5H | 9.7 / -18.3 | 9.7 / -18.3 |
| | 2.0H | 11.7 / -18.4 | 11.7 / -18.4 |