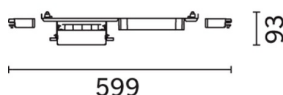
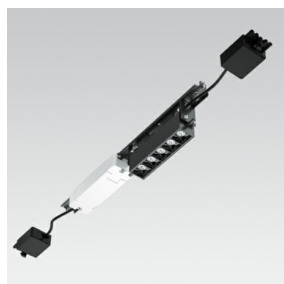


Last information update: May 2018



adjustable 5-cell module - LED - integrated DALI dimmable control gear - warm white - beam 48°

Product code

MQ44

Technical description

Adjustable linear module with LEDs, specifically designed to be housed in the Laser Blade System channel. The steel coupling plate includes the lighting group and the operating components. Module with 5 lighting cells, in die-cast aluminium, adjustable with a practical extraction and rotation system with max inclination +/- 45°. 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 (UGR < 19). Supplied with DALI dimmable control gear connected to the luminaire. Warm white high chromatic yield LED; CRI (Ra) > 90 - lifetime with residual flow at 80% (L80): 50,000 hours - Ta 25°.

Installation

Double rotating pin blocking system with return spring to facilitate the insertion in the profile seating. Can be manoeuvred with a screwdriver.

Dimension (mm)

599x93

Colour

Black (04)

Weight (Kg)

0.9

Mounting

ceiling recessed

Wiring

The module is fitted with connectors on both sides for connecting with subsequent modules. For connections at greater distances, there are accessory connectors (code MXN6 - cables not included).

Complies with EN60598-1 and pertinent regulations



IP20

**Product configuration: MQ44****Product characteristics**

Total lighting output [Lm]: 705
Total power [W]: 13
Luminous efficacy [Lm/W]: 54.2
Life Time: 50,000h - L90 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 83
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 10
Nominal luminous [Lm]: 850
Lamp maximum intensity [cd]: /
Beam angle [°]: 48°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 3
Colour temperature [K]: 3000
CRI: 95
Wavelength [Nm]: /
MacAdam Step: 3

Polar

| | | | |
|--|--|---|---|
| | Imax=1248 cd 90° 180° 90° 1000 0° α=48° | 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<1500 cd/m² at 65° UGR<10 L<1500 cd/mq @65° | Lux h d Em Emax 1 0.9 1045 1246 2 1.8 261 311 3 2.7 116 138 4 3.6 65 78 |
|--|--|---|---|

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 850 lm bare lamp luminous flux) | | | | | | | | | | | |
|--|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Reflect.: | | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 | 0.70 | 0.70 | 0.50 | 0.50 | 0.30 |
| ceiling/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 | 1.3 | 1.8 | 1.5 | 2.0 | 2.2 | 1.3 | 1.8 | 1.5 | 2.0 | 2.2 |
| | 3H | 1.2 | 1.6 | 1.5 | 1.8 | 2.1 | 1.1 | 1.6 | 1.5 | 1.8 | 2.1 |
| | 4H | 1.1 | 1.5 | 1.4 | 1.8 | 2.1 | 1.1 | 1.5 | 1.4 | 1.8 | 2.1 |
| | 6H | 1.0 | 1.4 | 1.3 | 1.7 | 2.0 | 1.0 | 1.4 | 1.3 | 1.7 | 2.0 |
| | 8H | 1.0 | 1.3 | 1.3 | 1.7 | 2.0 | 1.0 | 1.3 | 1.3 | 1.6 | 2.0 |
| | 12H | 0.9 | 1.3 | 1.3 | 1.6 | 2.0 | 0.9 | 1.3 | 1.3 | 1.6 | 2.0 |
| 4H | 2H | 1.1 | 1.5 | 1.4 | 1.8 | 2.1 | 1.1 | 1.5 | 1.4 | 1.8 | 2.1 |
| | 3H | 0.9 | 1.3 | 1.3 | 1.6 | 2.0 | 0.9 | 1.3 | 1.3 | 1.6 | 2.0 |
| | 4H | 0.8 | 1.1 | 1.2 | 1.5 | 1.9 | 0.8 | 1.1 | 1.2 | 1.5 | 1.9 |
| | 6H | 0.8 | 1.0 | 1.2 | 1.4 | 1.8 | 0.7 | 1.0 | 1.2 | 1.4 | 1.8 |
| | 8H | 0.7 | 1.0 | 1.1 | 1.4 | 1.8 | 0.7 | 0.9 | 1.1 | 1.4 | 1.8 |
| | 12H | 0.7 | 0.9 | 1.1 | 1.3 | 1.8 | 0.6 | 0.9 | 1.1 | 1.3 | 1.8 |
| 8H | 4H | 0.7 | 0.9 | 1.1 | 1.4 | 1.8 | 0.7 | 1.0 | 1.1 | 1.4 | 1.8 |
| | 6H | 0.6 | 0.8 | 1.1 | 1.3 | 1.7 | 0.6 | 0.8 | 1.1 | 1.3 | 1.7 |
| | 8H | 0.6 | 0.7 | 1.0 | 1.2 | 1.7 | 0.6 | 0.7 | 1.0 | 1.2 | 1.7 |
| | 12H | 0.5 | 0.7 | 1.0 | 1.1 | 1.7 | 0.5 | 0.7 | 1.0 | 1.1 | 1.7 |
| 12H | 4H | 0.6 | 0.9 | 1.1 | 1.3 | 1.8 | 0.7 | 0.9 | 1.1 | 1.3 | 1.8 |
| | 6H | 0.6 | 0.7 | 1.0 | 1.2 | 1.7 | 0.6 | 0.7 | 1.0 | 1.2 | 1.7 |
| | 8H | 0.5 | 0.7 | 1.0 | 1.1 | 1.7 | 0.5 | 0.7 | 1.0 | 1.1 | 1.7 |
| 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 | | | | |