

Last information update: May 2018



adjustable 10-cell module - LED - integrated DALI dimmable control gear - neutral white - beam 48°

Product code

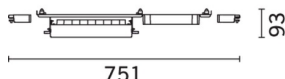
MQ45

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 10 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. Neutral white LED - 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)**

751x93

Colour

Black (04)

Weight (Kg)

1.3

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).

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: MQ45****Product characteristics**

Total lighting output [Lm]: 1492.7
Total power [W]: 24.5
Luminous efficacy [Lm/W]: 60.9
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]: 21
Nominal luminous [Lm]: 1800
Lamp maximum intensity [cd]: /
Beam angle [°]: 48°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 3.5
Colour temperature [K]: 4000
CRI: 95
Wavelength [nm]: /
MacAdam Step: 3

Polar

	Imax=2644 cd 90° 180° 90° 3000 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<200 cd/m² at 65° BZ1	Lux h d Em Emax 2 1.8 553 659 4 3.6 138 165 6 5.3 61 73 8 7.1 35 41
--	--	---	---

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 1800 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	1.5	2.0	1.7	2.2	2.4	1.5	2.0	1.7	2.2	2.4
	3H	1.3	1.8	1.7	2.0	2.3	1.3	1.8	1.7	2.0	2.3
	4H	1.3	1.7	1.6	2.0	2.3	1.3	1.7	1.6	2.0	2.3
	6H	1.2	1.6	1.5	1.9	2.2	1.2	1.6	1.5	1.9	2.2
	8H	1.2	1.5	1.5	1.8	2.2	1.2	1.5	1.5	1.8	2.2
12H	1.1	1.5	1.5	1.8	2.2	1.1	1.5	1.5	1.8	2.2	
4H	2H	1.3	1.7	1.6	2.0	2.3	1.3	1.7	1.6	2.0	2.3
	3H	1.1	1.5	1.5	1.8	2.2	1.1	1.5	1.5	1.8	2.2
	4H	1.0	1.3	1.4	1.7	2.1	1.0	1.3	1.4	1.7	2.1
	6H	0.9	1.2	1.4	1.6	2.0	0.9	1.2	1.4	1.6	2.0
	8H	0.9	1.2	1.3	1.6	2.0	0.9	1.1	1.3	1.6	2.0
12H	0.9	1.1	1.3	1.5	2.0	0.8	1.1	1.3	1.5	2.0	
8H	4H	0.9	1.1	1.3	1.6	2.0	0.9	1.2	1.3	1.6	2.0
	6H	0.8	1.0	1.3	1.5	1.9	0.8	1.0	1.3	1.5	1.9
	8H	0.8	0.9	1.2	1.4	1.9	0.8	0.9	1.2	1.4	1.9
	12H	0.7	0.9	1.2	1.3	1.9	0.7	0.9	1.2	1.3	1.9
12H	4H	0.8	1.1	1.3	1.5	2.0	0.9	1.1	1.3	1.5	2.0
	6H	0.7	0.9	1.2	1.4	1.9	0.8	0.9	1.2	1.4	1.9
	8H	0.7	0.9	1.2	1.3	1.9	0.7	0.9	1.2	1.3	1.9
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				