

Laser Blade

Design iGuzzini

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Product configuration: MQ44

MQ44: adjustable 5-cell module - LED - integrated DALI dimmable control gear - warm white - beam 48°



Product code

MQ44: adjustable 5-cell module - LED - integrated DALI dimmable control gear - warm white - beam 48° **Attention! Code no longer in production**

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.

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



Technical data

Im system:	771	CRI (typical):	97
W system:	13	Colour temperature [K]:	3000
Im source:	930	MacAdam Step:	3
W source:	10	Life Time LED 1:	50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	59.3	Lamp code:	LED
Im 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.) [%]:	83	Number of optical assemblies:	1
Beam angle [°]:	48°	Control:	DALI
CRI (minimum):	95		

Polar

Imax=1366 cd		CIE		Lux	
90°	180°	nL 0.83		h	d Em Emax
		100-100-100-100-83		1	0.9 1144 1363
		UGR <10<10		2	1.8 286 341
		DIN A.61		3	2.7 127 151
		UTE 0.83A+0.00T		4	3.6 71 85
		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°			
$\alpha = 48^\circ$					

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 930 lm bare lamp luminous flux)											
Riflect.:		viewed crosswise					viewed endwise				
ceiling		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											
x	y										
2H	2H	1.6	2.1	1.9	2.3	2.5	1.6	2.1	1.9	2.3	2.5
	3H	1.5	1.9	1.8	2.2	2.4	1.5	1.9	1.8	2.2	2.4
	4H	1.4	1.8	1.7	2.1	2.4	1.4	1.8	1.7	2.1	2.4
	6H	1.3	1.7	1.7	2.0	2.3	1.3	1.7	1.7	2.0	2.3
	8H	1.3	1.6	1.6	2.0	2.3	1.3	1.6	1.6	2.0	2.3
	12H	1.2	1.6	1.6	1.9	2.3	1.2	1.6	1.6	1.9	2.3
4H	2H	1.4	1.8	1.7	2.1	2.4	1.4	1.8	1.7	2.1	2.4
	3H	1.2	1.6	1.6	1.9	2.3	1.2	1.6	1.6	1.9	2.3
	4H	1.1	1.5	1.5	1.8	2.2	1.1	1.5	1.5	1.8	2.2
	6H	1.1	1.3	1.5	1.7	2.1	1.1	1.3	1.5	1.7	2.1
	8H	1.0	1.3	1.5	1.7	2.1	1.0	1.3	1.5	1.7	2.1
	12H	1.0	1.2	1.4	1.6	2.1	1.0	1.2	1.4	1.6	2.1
8H	4H	1.0	1.3	1.5	1.7	2.1	1.0	1.3	1.5	1.7	2.1
	6H	0.9	1.1	1.4	1.6	2.0	0.9	1.1	1.4	1.6	2.0
	8H	0.9	1.0	1.3	1.5	2.0	0.9	1.0	1.3	1.5	2.0
	12H	0.8	1.0	1.3	1.5	2.0	0.8	1.0	1.3	1.4	2.0
12H	4H	1.0	1.2	1.4	1.6	2.1	1.0	1.2	1.4	1.6	2.1
	6H	0.9	1.0	1.3	1.5	2.0	0.9	1.0	1.4	1.5	2.0
	8H	0.8	1.0	1.3	1.4	2.0	0.8	1.0	1.3	1.5	2.0
Variations with the observer position at spacing:											
S =		0.9 / -18.0					0.9 / -18.0				
		9.7 / -18.3					9.7 / -18.3				
		11.7 / -18.4					11.7 / -18.4				