Laser Blade System53

Design OMA **iGuzzini**

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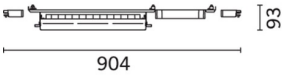
adjustable 15-cell module - LED - integrated DALI dimmable control gear - neutral white - beam 48°

Product code
MQ48

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 15 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)
904x93

Colour
Black (04)

Weight (Kg)
1.7

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: MQ48

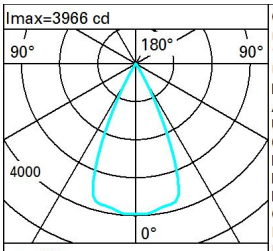
Product characteristics

Total lighting output [Lm]: 2239.1	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 35	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 64	Voltage [V]: -
Life Time: 50,000h - L90 - B10 (Ta 25°C)	Number of optical assemblies: 1

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]: 4000
Nominal luminous [Lm]: 2700	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	830	989
4	3.6	208	247
6	5.3	92	110
8	7.1	52	62

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 2700 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	1.3	1.8	1.6	2.0	2.3	1.3	1.8	1.6	2.0	2.3
	3H	1.2	1.6	1.5	1.9	2.2	1.2	1.6	1.5	1.9	2.2
	4H	1.1	1.5	1.5	1.8	2.1	1.1	1.5	1.5	1.8	2.1
	6H	1.1	1.4	1.4	1.7	2.1	1.1	1.4	1.4	1.7	2.1
	8H	1.0	1.4	1.4	1.7	2.0	1.0	1.4	1.4	1.7	2.0
	12H	1.0	1.3	1.4	1.7	2.0	1.0	1.3	1.4	1.7	2.0
4H	2H	1.1	1.5	1.5	1.8	2.1	1.1	1.5	1.5	1.8	2.1
	3H	1.0	1.3	1.4	1.7	2.0	1.0	1.3	1.4	1.7	2.0
	4H	0.9	1.2	1.3	1.6	1.9	0.9	1.2	1.3	1.6	1.9
	6H	0.8	1.1	1.2	1.5	1.9	0.8	1.1	1.2	1.5	1.9
	8H	0.8	1.0	1.2	1.4	1.9	0.8	1.0	1.2	1.4	1.9
	12H	0.7	0.9	1.2	1.4	1.8	0.7	0.9	1.2	1.4	1.8
8H	4H	0.8	1.0	1.2	1.4	1.9	0.8	1.0	1.2	1.4	1.9
	6H	0.7	0.9	1.1	1.3	1.8	0.7	0.9	1.1	1.3	1.8
	8H	0.6	0.8	1.1	1.3	1.7	0.6	0.8	1.1	1.3	1.7
	12H	0.6	0.7	1.1	1.2	1.7	0.6	0.7	1.1	1.2	1.7
12H	4H	0.7	0.9	1.2	1.4	1.8	0.7	0.9	1.2	1.4	1.8
	6H	0.6	0.8	1.1	1.2	1.7	0.6	0.8	1.1	1.3	1.8
	8H	0.6	0.7	1.1	1.2	1.7	0.6	0.7	1.1	1.2	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