Laser Blade System53

Design OMA **iGuzzini**

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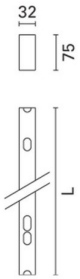


High Contrast module L=1197- direct emission with controlled glare - warm white integrated DALI dimmable control gear

Product code
N935

Technical description
direct emission modular lighting system. High Contrast module with 2 groups of 5 elements using fixed optic LED lamps - flood beam angle. The structure of the optical system produces light emission with controlled glare (UGR < 19). Minimal (frameless) version extruded aluminium profile; partial black methacrylate screens set up for connection to end caps on both sides. Installation can be surface-mounted (ceiling/wall), or pendant. The module must be completed with the accessories kit needed for the selected type of installation. DALI dimmable electronic control gear integrated in the luminaire. Warm white high efficiency LED.

Installation
pendant: complete with power supply unit with cable (MWG5) and suspension cables (MWG6); surface-mounted: complete with supports (MWG7).

Dimension (mm)
1197x32x75

Colour
Aluminium (12)

Weight (Kg)
2.02

Mounting
ceiling recessed|ceiling surface|ceiling pendant

Wiring
the module is fitted with 5-pin terminal blocks for pass-through wiring at the ends. DALI dimmable control gear integrated in the module.

Notes
High Contrast modules may be completed with accessory end caps (code MX80) and used independently in the various applications. To make continuous lines, use accessory code MX81 with partial screen suitable for overlapping with other modules. Possibility of combined High Contrast / Low Contrast

Complies with EN60598-1 and pertinent regulations

IP20

Product configuration: N935

Product characteristics

Total lighting output [Lm]: 1575.7
Total power [W]: 28
Luminous efficacy [Lm/W]: 56.3
Life Time: 50,000h - L90 - B10 (Ta 25°C)

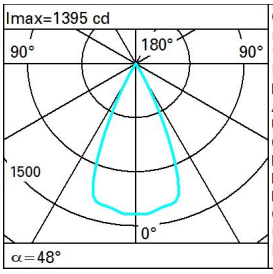
Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 2

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]: 950
Lamp maximum intensity [cd]: /
Beam angle [°]: 48°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 4
Colour temperature [K]: 3000
CRI: 90
Wavelength [Nm]: /
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
1	0.9	1168	1392
2	1.8	292	348
3	2.7	130	155
4	3.6	73	87

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 950 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	1.6	2.0	1.8	2.3	2.5	1.6	2.0	1.8	2.3	2.5
	3H	1.4	1.9	1.7	2.1	2.4	1.4	1.9	1.7	2.1	2.4
	4H	1.4	1.8	1.7	2.0	2.3	1.4	1.8	1.7	2.0	2.3
	6H	1.3	1.7	1.6	2.0	2.3	1.3	1.7	1.6	2.0	2.3
	8H	1.2	1.6	1.6	1.9	2.3	1.2	1.6	1.6	1.9	2.3
	12H	1.2	1.6	1.6	1.9	2.2	1.2	1.6	1.6	1.9	2.2
4H	2H	1.4	1.8	1.7	2.0	2.3	1.4	1.8	1.7	2.0	2.3
	3H	1.2	1.6	1.6	1.9	2.2	1.2	1.6	1.6	1.9	2.2
	4H	1.1	1.4	1.5	1.8	2.2	1.1	1.4	1.5	1.8	2.2
	6H	1.0	1.3	1.5	1.7	2.1	1.0	1.3	1.5	1.7	2.1
	8H	1.0	1.2	1.4	1.6	2.1	1.0	1.2	1.4	1.6	2.1
	12H	0.9	1.2	1.4	1.6	2.0	0.9	1.2	1.4	1.6	2.0
8H	4H	1.0	1.2	1.4	1.6	2.1	1.0	1.2	1.4	1.6	2.1
	6H	0.9	1.1	1.4	1.5	2.0	0.9	1.1	1.4	1.5	2.0
	8H	0.8	1.0	1.3	1.5	2.0	0.8	1.0	1.3	1.5	2.0
	12H	0.8	0.9	1.3	1.4	1.9	0.8	0.9	1.3	1.4	1.9
12H	4H	0.9	1.2	1.4	1.6	2.0	0.9	1.2	1.4	1.6	2.0
	6H	0.8	1.0	1.3	1.5	2.0	0.8	1.0	1.3	1.5	2.0
	8H	0.8	0.9	1.3	1.4	1.9	0.8	0.9	1.3	1.4	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