Laser Blade XS

Design iGuzzini **iGuzzini**

Last information update: June 2025

Product configuration: Q794
Q794: Minimal 10 cells - Medium beam - Tunable White - LED

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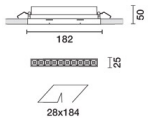
Technical description
Minimal linear 10 optic element recessed miniaturised luminaire. Using LED lamps with a high colour rendering index and a different colour temperature allows dynamic light modulation to be obtained. The variation is achieved by mixing an emission of 5 x 2700K LEDs and 5 x 5700K LEDs. The colour temperature remains constant and uniform even when products of different sizes with different numbers of warm and cold LEDs are used. Main body with die-cast aluminium radiant surface; frameless version for mounting flush with ceiling. Metallised, thermoplastic, high definition Opti Beam reflectors, integrated in a set-back position in the anti-glare screen. The product is designed to be used together with code 6170 to obtain a solution suitable for small to medium systems that can be programmed with a DALI protocol via a simple and intuitive user touch-panel. Other management systems are also available with a separate code for larger systems that require the intervention of a specialised technician to programme them: the MH97 + MH93 + MI02 group offers a DALI / KNX programmable solution, and the MH97 + MH93 + M618 group allows the system management to be extended to remote devices like tablet and smartphones too.



Installation
Recessed with steel wire springs on the specific adapter (included) which allows flush-mounting with the ceiling. Adapter fixed to false ceiling (compatible thicknesses of 12.5 / 15 / 20 mm) with screws; subsequent filling and smoothing operations; insertion of luminaire body and aesthetic end finishing. A special protective sheath allows finishing operations on the plasterboard to be simplified and speeded up. Preparation hole 28 x 184.

Weight (Kg)
0.68

Mounting
wall recessed|ceiling recessed

Wiring
DALI control gear units included. Different management systems are available with a separate code. For technical details, properties and connection procedures see the instruction sheet.

Notes
The special steel wire spring provided is required to facilitate the eventual extraction of the recessed body once it has been inserted.

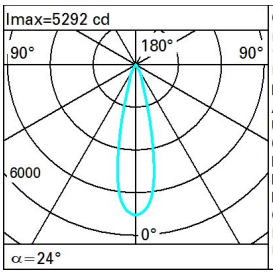
Complies with EN60598-1 and pertinent regulations

IP20

Technical data

lm system:	1146	Beam angle [°]:	24°
W system:	21.3	Colour temperature [K]:	Tunable white 2700 - 5700
lm source:	1450	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
W source:	17	Lamp code:	LED
Luminous efficiency (lm/W, real value):	53.8	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	79	Control:	DALI

Polar



CIE
nL 0.79
100-100-100-100-79
UGR <10-<10
DIN
A.61
UTE
0.79A+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 I L<1500 cd/mq @65°

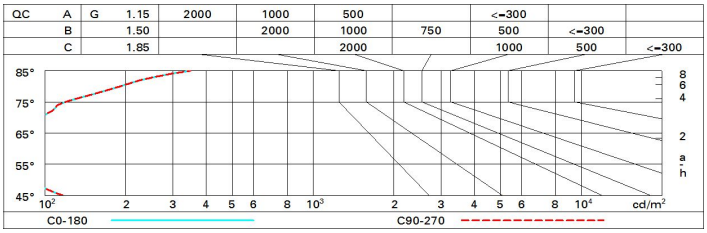
Lux

h	d	Em	Emax
2	0.9	1099	1323
4	1.7	275	331
6	2.6	122	147
8	3.4	69	83

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	71	68	65	63	67	65	64	62	78
1.0	75	71	69	67	70	68	68	66	83
1.5	78	76	74	72	75	73	72	70	89
2.0	81	79	77	76	78	76	76	73	93
2.5	82	81	80	79	80	79	78	76	96
3.0	83	82	81	81	81	80	79	77	98
4.0	84	83	83	82	82	82	80	79	99
5.0	84	84	84	83	83	82	81	79	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1450 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	2.2	4.3	2.5	4.6	4.9	2.2	4.3	2.5	4.6	4.9
	3H	2.0	3.6	2.4	4.0	4.3	2.0	3.6	2.4	4.0	4.3
	4H	2.0	3.3	2.3	3.6	4.0	2.0	3.3	2.3	3.6	4.0
	6H	1.9	3.0	2.3	3.3	3.6	1.9	2.9	2.3	3.3	3.6
	8H	1.9	2.9	2.3	3.3	3.6	1.9	2.9	2.3	3.2	3.6
	12H	1.9	2.9	2.3	3.2	3.6	1.8	2.8	2.2	3.2	3.6
4H	2H	2.0	3.3	2.3	3.6	4.0	2.0	3.3	2.3	3.6	4.0
	3H	1.8	2.8	2.2	3.2	3.6	1.8	2.8	2.2	3.2	3.6
	4H	1.7	2.7	2.1	3.1	3.5	1.7	2.7	2.1	3.1	3.5
	6H	1.4	3.0	1.8	3.5	4.0	1.3	3.0	1.8	3.5	3.9
	8H	1.2	3.1	1.7	3.6	4.1	1.2	3.1	1.7	3.6	4.1
	12H	1.2	3.1	1.7	3.6	4.1	1.1	3.1	1.6	3.6	4.1
8H	4H	1.2	3.1	1.7	3.6	4.1	1.2	3.1	1.7	3.6	4.1
	6H	1.1	2.9	1.6	3.4	3.9	1.1	2.9	1.6	3.4	3.9
	8H	1.1	2.7	1.6	3.2	3.7	1.1	2.7	1.6	3.2	3.7
	12H	1.3	2.3	1.8	2.8	3.4	1.3	2.3	1.8	2.8	3.3
12H	4H	1.1	3.1	1.6	3.6	4.1	1.2	3.1	1.7	3.6	4.1
	6H	1.1	2.7	1.6	3.2	3.7	1.2	2.7	1.7	3.2	3.8
	8H	1.3	2.3	1.8	2.8	3.3	1.3	2.3	1.8	2.8	3.4

Variations with the observer position at spacing:

S =			
	1.0H	6.9 / -11.5	6.9 / -11.5
	1.5H	9.7 / -11.7	9.7 / -11.7
	2.0H	11.7 / -11.8	11.7 / -11.8