Laser Blade XS

Design iGuzzini **iGuzzini**

Last information update: April 2024

Product configuration: Q948
Q948: Frame recessed luminaire - 5 cells - General Lighting Pro - DALI

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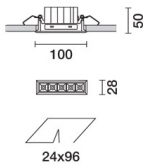
Technical description
Rectangular recessed miniaturised luminaire with 5 optical elements for LED sources - fixed optics with metallised thermoplastic high definition Opti-Beam reflectors, integrated in a set-back position in the anti-glare screen. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. Despite the ultracompact size of the product, the combination of a total white finish and the patented technology of the optic system guarantees an even and efficient luminous flux optimised by a special diffuser screen that reduces direct glare significantly.Supplied with DALI dimmable electronic power supply connected to the luminaire.

Installation
Recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 24 x 96.

Colour
White (01)

Weight (Kg)
0.35



Mounting
wall recessed|ceiling recessed

Wiring
On power supply; quick-coupling connection

Complies with EN60598-1 and pertinent regulations

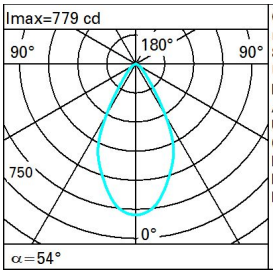
IP20 IP43 pending

Technical data

lm system:	649
W system:	12.4
lm source:	940
W source:	9.9
Luminous efficiency (lm/W, real value):	52.3
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	69
CRI (minimum):	90
Colour temperature [K]:	3000
MacAdam Step:	2

Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Power factor:	See installation instructions
Inrush current:	9 A / 22 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 20 luminaires B16A: 33 luminaires C10A: 34 luminaires C16A: 56 luminaires
Minimum dimming %:	1
Overvoltage protection:	2kV Common mode & 1kV Differential mode
Control:	DALI-2

Polar



CIE
nL 0.69
88-98-100-100-69
UGR 22.0-21.9
DIN
A.61
UTE
0.69A+0.00T
F"1=877
F"1+F"2=981
F"1+F"2+F"3=997

Lux

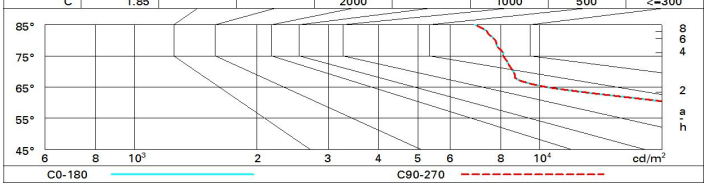
h	d	Em	Emax
1	1	578	779
2	2	144	195
3	3.1	64	87
4	4.1	36	49

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	58	54	51	49	54	51	51	48	69
1.0	62	58	55	53	57	55	54	52	75
1.5	66	63	61	59	62	60	60	57	83
2.0	69	66	65	63	65	64	63	61	88
2.5	70	68	67	66	67	66	65	63	92
3.0	71	70	69	68	69	68	67	65	94
4.0	72	71	70	70	70	69	68	66	96
5.0	73	72	71	71	71	70	69	67	97

Luminance curve limit

QC		G								
A		1.15	2000	1000	500		<=300			
B		1.50		2000	1000	750	500	<=300		
C		1.85			2000		1000	500	<=300	



UGR diagram

Corrected UGR values (at 940 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	22.1	22.7	22.3	22.9	23.2	22.1	22.7	22.3	22.9	23.2
	3H	22.0	22.6	22.3	22.9	23.1	22.1	22.6	22.4	22.9	23.2
	4H	22.0	22.5	22.3	22.8	23.1	22.0	22.5	22.3	22.8	23.1
	6H	22.0	22.5	22.3	22.8	23.1	21.9	22.4	22.3	22.7	23.1
	8H	22.0	22.5	22.3	22.8	23.1	21.9	22.4	22.3	22.7	23.0
	12H	22.0	22.4	22.3	22.8	23.1	21.9	22.3	22.2	22.7	23.0
4H	2H	22.0	22.5	22.3	22.8	23.1	22.0	22.5	22.3	22.8	23.1
	3H	22.0	22.5	22.4	22.8	23.2	22.0	22.5	22.4	22.8	23.2
	4H	22.0	22.4	22.4	22.8	23.2	22.0	22.4	22.4	22.8	23.2
	6H	22.0	22.4	22.4	22.8	23.2	22.0	22.3	22.4	22.7	23.1
	8H	22.0	22.3	22.5	22.8	23.2	21.9	22.3	22.4	22.7	23.1
	12H	22.0	22.3	22.5	22.7	23.2	21.9	22.2	22.3	22.6	23.1
8H	4H	21.9	22.3	22.4	22.7	23.1	22.0	22.3	22.5	22.8	23.2
	6H	22.0	22.2	22.4	22.7	23.2	22.0	22.3	22.5	22.7	23.2
	8H	22.0	22.2	22.5	22.7	23.2	22.0	22.2	22.5	22.7	23.2
	12H	22.0	22.2	22.5	22.7	23.2	22.0	22.2	22.5	22.6	23.2
12H	4H	21.9	22.2	22.3	22.6	23.1	22.0	22.3	22.5	22.7	23.2
	6H	21.9	22.2	22.4	22.6	23.1	22.0	22.2	22.5	22.7	23.2
	8H	22.0	22.2	22.5	22.6	23.2	22.0	22.2	22.5	22.7	23.2

Variations with the observer position at spacing:

S =			
	1.0H	2.4 / -2.2	2.4 / -2.2
	1.5H	4.5 / -4.7	4.5 / -4.7
	2.0H	6.3 / -6.0	6.3 / -6.0