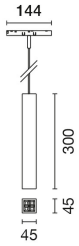
Laser Blade XS

Design iGuzzini **iGuzzini**

Last information update: May 2018



Square pendant LB XS for 48V track - HC 4 cells - Wide Flood beam

Product code
Q927

Technical description
Pendant system with 4 optic elements and including an adapter for installation on 48V low voltage track ideal for zenithal accent lighting. The adapter made of a thermoplastic material includes the DC/DC driver circuit with a DALI dimmable function. Integrated «power line» technology allows each light module on the track to be adjusted separately. Fixed optics with metallised thermoplastic high definition Opti-Beam reflectors. Despite the ultracompact size of the product, the patented technology of the optic system guarantees an efficient luminous flux and a high level of visual comfort. Extruded aluminium body and die-cast zamak technical dissipation unit. PVC power/pendant cable in the same colour as the external finish. The cable connection on the pendant body is fitted with a manual adjustment system that facilitates alignment. A rapid tool-free system for connecting the adapter electrically and mechanically to the track.

Installation
Mechanical fastening with adapter on track.

Dimension (mm)
45x45x300

Colour
White (01) | White/Brass (41) | Black/Black (43) | (44) | Black/White (47) | (E7) | (F1)

Weight (Kg)
0.48

Mounting
lv track pendant

Wiring
Integrated DC/DC LED driver in adapter - direct connection on 48V track- track power unit to be ordered separately. The pendant cable can be adjusted on the pendant body.

Complies with EN60598-1 and pertinent regulations

IP20

Product configuration: Q927

Product characteristics

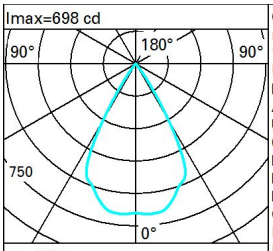
Total lighting output [Lm]: 548	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 9.7	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 56.5	Voltage [V]: 48
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

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]: 1.8
Nominal power [W]: 7.9	Colour temperature [K]: 3000
Nominal luminous [Lm]: 660	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 58°	MacAdam Step: 3

Polar

Imax=698 cd



α = 58°

CIE
nL 0.83
100-100-100-100-83
UGR 16.0-16.0
DIN
A.61
UTE
0.83A+0.00T
F"1=996
F"1+F"2=1000
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<16 I L<1500 cd/mq @65°

Lux

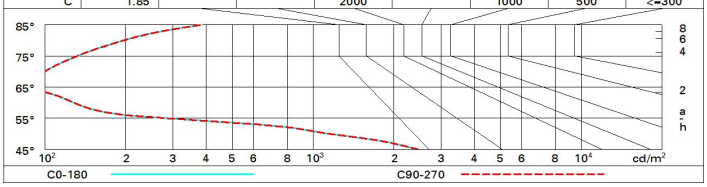
h	d	Em	Emax
1	1.1	555	692
2	2.2	139	173
3	3.3	62	77
4	4.4	35	43

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	78	77	76	73	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

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



C0-180 C90-270

UGR diagram

Corrected UGR values (at 660 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					viewed		
x	y			crosswise					endwise		
2H	2H	16.6	17.2	16.8	17.4	17.6	16.6	17.2	16.8	17.4	17.6
	3H	16.4	17.0	16.7	17.2	17.5	16.4	17.0	16.7	17.2	17.5
	4H	16.4	16.9	16.7	17.1	17.4	16.4	16.9	16.7	17.1	17.4
	6H	16.3	16.7	16.6	17.0	17.4	16.3	16.7	16.6	17.0	17.4
	8H	16.2	16.7	16.6	17.0	17.3	16.2	16.7	16.6	17.0	17.3
	12H	16.2	16.6	16.6	17.0	17.3	16.2	16.6	16.6	17.0	17.3
4H	2H	16.4	16.9	16.7	17.1	17.4	16.4	16.9	16.7	17.1	17.4
	3H	16.2	16.6	16.6	17.0	17.3	16.2	16.6	16.6	17.0	17.3
	4H	16.1	16.5	16.5	16.8	17.2	16.1	16.5	16.5	16.8	17.2
	6H	16.0	16.3	16.4	16.7	17.2	16.0	16.3	16.4	16.7	17.2
	8H	16.0	16.3	16.4	16.7	17.1	16.0	16.3	16.4	16.7	17.1
	12H	15.9	16.2	16.4	16.6	17.1	15.9	16.2	16.4	16.6	17.1
8H	4H	16.0	16.3	16.4	16.7	17.1	16.0	16.3	16.4	16.7	17.1
	6H	15.9	16.1	16.4	16.6	17.0	15.9	16.1	16.4	16.6	17.0
	8H	15.8	16.0	16.3	16.5	17.0	15.8	16.0	16.3	16.5	17.0
	12H	15.8	16.0	16.3	16.4	17.0	15.8	16.0	16.3	16.4	17.0
12H	4H	15.9	16.2	16.4	16.6	17.1	15.9	16.2	16.4	16.6	17.1
	6H	15.8	16.0	16.3	16.5	17.0	15.8	16.0	16.3	16.5	17.0
	8H	15.8	16.0	16.3	16.4	17.0	15.8	16.0	16.3	16.4	17.0

Variations with the observer position at spacing:

S =	1.0H	6.5 / -24.9	6.5 / -24.9
	1.5H	9.4 / -25.6	9.4 / -25.6
	2.0H	11.4 / -25.8	11.4 / -25.8