

Laser Blade XS

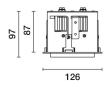
Design iGuzzini

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Last information update: May 2025

Product configuration: PH91

PH91: Frame adjustable 2 x 5-cell recessed luminaire - LED - Warm White - DALI dimmable power supply



Product code

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Technical description

Recessed rectangular luminaire with LEDs. Shaped steel sheet structural compartment with outer rim. The two linear elements with 5 lighting cells, in die-cast aluminium and independently adjustable, can be used to direct the emission with a tilting adjustability of +/- 20°. 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 controlled glare emission. Supplied with DALI dimmable power supply connected to the luminaire.

Installation

recessed with mechanical blocking system for false ceilings from 1 to 25 mm; can be installed on ceilings and walls (vertical + horizontal)

Colour

White (01) | Black / Black (43) | Black / White (47) | White/Gold (41)* | Grey / Black (74)* | White / burnished chrome (E7)*

* Colours on request

Weight (Kg)

0.93

Mounting

wall recessed|ceiling recessed

Wiring

on power supply box: screw connections.

Complies with EN60598-1 and pertinent regulations



Technical data

lm system:	1492	CRI (minimum):	90
W system:	16.5	Colour temperature [K]:	3000
lm source:	910	MacAdam Step:	3
W source:	7	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	90.4	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	82	Number of optical assemblies:	2
Beam angle [°]:	42°	Control:	DALI-2

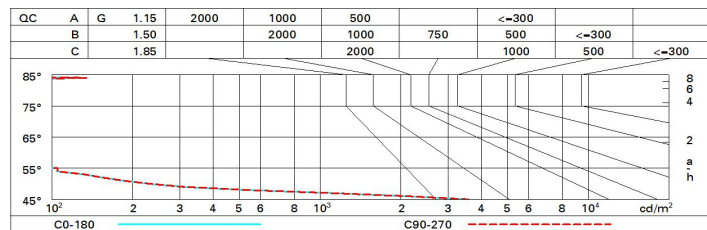
Polar

	CIE			
	nL 0.82			
	100-100-100-100-82			
	UGR 15.0-15.0			
	DIN A.61			
	UTE			
	0.82A+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 L<1500 cd/mq @65°			
	Lux			
	h	d	Em	Emax
	1	0.8	1161	1448
	2	1.5	290	362
	3	2.3	129	161
	4	3.1	73	90

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	74	70	68	65	70	67	67	64	78
1.0	77	74	71	70	73	71	70	68	83
1.5	81	78	76	75	78	76	75	73	89
2.0	84	82	80	79	81	79	78	76	93
2.5	85	84	83	82	83	82	81	78	96
3.0	86	85	84	84	84	83	82	80	98
4.0	87	86	86	85	85	85	83	81	99
5.0	88	87	87	87	86	85	84	82	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 910 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise				
2H	2H	15.6	16.1	15.8	16.3	16.5	15.6	16.1	15.8	16.3	16.5
	3H	15.4	15.9	15.7	16.2	16.4	15.4	15.9	15.7	16.2	16.4
	4H	15.4	15.8	15.7	16.1	16.4	15.4	15.8	15.7	16.1	16.4
	6H	15.3	15.7	15.6	16.0	16.3	15.3	15.7	15.6	16.0	16.3
	8H	15.2	15.6	15.6	16.0	16.3	15.2	15.6	15.6	16.0	16.3
	12H	15.2	15.6	15.6	15.9	16.3	15.2	15.6	15.6	15.9	16.3
4H	2H	15.4	15.8	15.7	16.1	16.4	15.4	15.8	15.7	16.1	16.4
	3H	15.2	15.6	15.6	15.9	16.3	15.2	15.6	15.6	15.9	16.3
	4H	15.1	15.4	15.5	15.8	16.2	15.1	15.4	15.5	15.8	16.2
	6H	15.0	15.3	15.4	15.7	16.1	15.0	15.3	15.4	15.7	16.1
	8H	15.0	15.2	15.4	15.7	16.1	15.0	15.2	15.4	15.7	16.1
	12H	14.9	15.2	15.4	15.6	16.1	14.9	15.2	15.4	15.6	16.1
8H	4H	15.0	15.2	15.4	15.7	16.1	15.0	15.2	15.4	15.7	16.1
	6H	14.9	15.1	15.3	15.5	16.0	14.9	15.1	15.3	15.5	16.0
	8H	14.8	15.0	15.3	15.5	16.0	14.8	15.0	15.3	15.5	16.0
	12H	14.8	14.9	15.3	15.4	15.9	14.8	14.9	15.3	15.4	15.9
12H	4H	14.9	15.2	15.4	15.6	16.1	14.9	15.2	15.4	15.6	16.1
	6H	14.8	15.0	15.3	15.5	16.0	14.8	15.0	15.3	15.5	16.0
	8H	14.8	14.9	15.3	15.4	15.9	14.8	14.9	15.3	15.4	15.9
Variations with the observer position at spacing:											
S =	1.0H	6.3 / -34.2					6.3 / -34.2				
	1.5H	9.1 / -35.8					9.1 / -35.8				
	2.0H	11.1 / -37.1					11.1 / -37.1				