Laser Blade XS

Design iGuzzini   **iGuzzini**
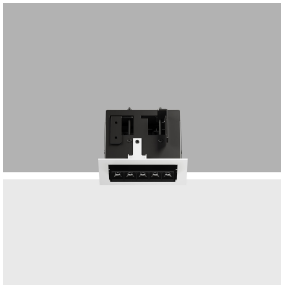
Last information update: April 2025

Product configuration: PH68
PH68: Frame adjustable 5-cell recessed luminaire - LED DALI dimmable power supply - Medium

Product code
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Technical description
Recessed rectangular luminaire with LEDs. Shaped steel sheet structural compartment with outer rim. The 5 lighting cells linear body, in die-cast aluminium, can be used to direct the emission with a tilting adjustability of +/- 30°. 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 emission with controlled luminance. 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)*
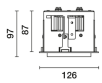
* Colours on request

Weight (Kg)
0.69

Mounting
wall recessed|ceiling recessed

Wiring
On power supply box: screw connections.

Complies with EN60598-1 and pertinent regulations

IP20   CE   UKCA   QCERT   pending

Technical data

lm system:	689	CRI (minimum):	90
W system:	8.7	Colour temperature [K]:	2700
lm source:	840	MacAdam Step:	3
W source:	7.1	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	79.2	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:	1
Beam angle [°]:	22°	Control:	DALI-2

Polar

Imax=2975 cd

CIE			
nL 0.82			
100-100-100-100-82			
UGR <10-<10			
DIN			
A.61			
UTE			
0.82A+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°			

h	d	Em	Emax
2	0.8	588	744
4	1.6	147	186
6	2.3	65	83
8	3.1	37	46

α=22°
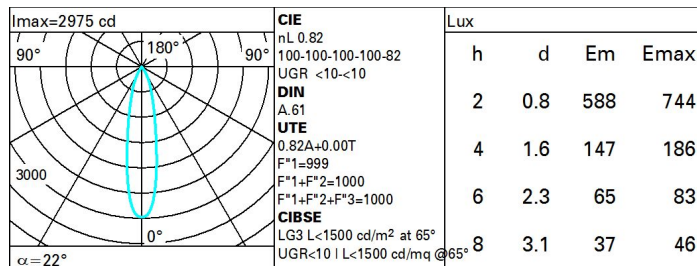
Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	74	70	68	66	70	67	67	64	78
1.0	77	74	72	70	73	71	71	68	83
1.5	81	79	77	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	79	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

QC	A	G	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
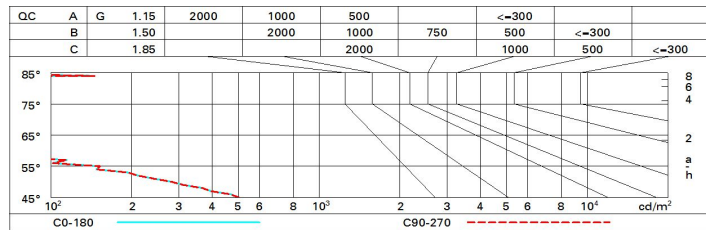
UGR diagram

Corrected UGR values (at 840 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 x	y		viewed crosswise					viewed endwise			
2H	2H	10.9	13.0	11.3	13.3	13.6	10.9	13.0	11.3	13.3	13.6
	3H	10.8	12.4	11.2	12.7	13.0	10.8	12.4	11.2	12.7	13.0
	4H	10.7	12.1	11.1	12.4	12.8	10.7	12.1	11.1	12.4	12.8
	6H	10.7	11.8	11.0	12.1	12.5	10.7	11.8	11.0	12.1	12.5
	8H	10.6	11.7	11.0	12.1	12.4	10.6	11.7	11.0	12.1	12.4
	12H	10.6	11.7	11.0	12.0	12.4	10.6	11.7	11.0	12.0	12.4
4H	2H	10.7	12.1	11.1	12.4	12.8	10.7	12.1	11.1	12.4	12.8
	3H	10.6	11.7	11.0	12.0	12.4	10.6	11.7	11.0	12.0	12.4
	4H	10.4	11.5	10.9	11.9	12.3	10.4	11.5	10.9	11.9	12.3
	6H	10.1	11.7	10.6	12.2	12.6	10.1	11.7	10.6	12.2	12.6
	8H	10.0	11.8	10.5	12.3	12.7	10.0	11.8	10.5	12.3	12.7
	12H	9.9	11.8	10.4	12.3	12.8	9.9	11.8	10.4	12.3	12.8
8H	4H	10.0	11.8	10.5	12.3	12.7	10.0	11.8	10.5	12.3	12.7
	6H	9.9	11.6	10.4	12.1	12.6	9.9	11.6	10.4	12.1	12.6
	8H	9.8	11.4	10.4	11.9	12.4	9.8	11.4	10.4	11.9	12.4
	12H	10.0	11.0	10.5	11.5	12.0	10.0	11.0	10.5	11.5	12.0
12H	4H	9.9	11.8	10.4	12.3	12.8	9.9	11.8	10.4	12.3	12.8
	6H	9.8	11.4	10.4	11.9	12.4	9.8	11.4	10.4	11.9	12.4
	8H	10.0	11.0	10.5	11.5	12.0	10.0	11.0	10.5	11.5	12.0

Variations with the observer position at spacing:

S =	1.0H	6.8 / -28.7		6.8 / -28.7
	1.5H	9.6 / -30.9		9.6 / -30.9
	2.0H	11.6 / -33.1		11.6 / -33.1