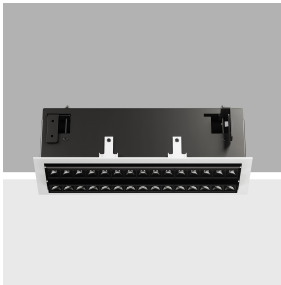# Laser Blade XS

Last information update: April 2025

Product configuration: PI07
PI07: Frame adjustable 2 x 15-cell recessed luminaire - LED - Warm White - DALI dimmable power supply

Product code
PI07: Frame adjustable 2 x 15-cell recessed luminaire - LED - Warm White - DALI dimmable power supply

Technical description
Recessed rectangular luminaire with LEDs. Shaped steel sheet structural compartment with outer rim. The two linear elements with 15 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)*
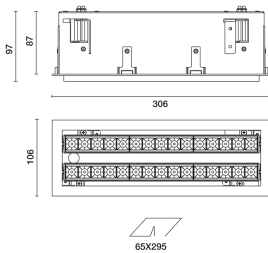
* Colours on request

Weight (Kg)
1.65

Mounting
wall recessed|ceiling recessed
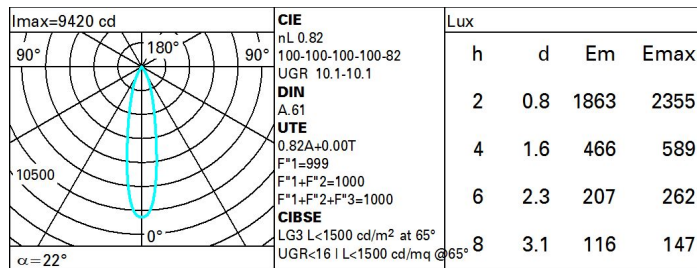
Wiring
on power supply box: screw connections.

Complies with EN60598-1 and pertinent regulations

□ IP20 CE UKCA Ⓢ QCERT

Technical data

lm system:	4362	CRI (minimum):	90
W system:	48	Colour temperature [K]:	3000
lm source:	2660	MacAdam Step:	3
W source:	21	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	90.9	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 [°]:	22°	Control:	DALI-2

Polar

CIE	
nL 0.82	
100-100-100-100-82	
UGR 10.1-10.1	
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<16	L<1500 cd/mq @65°	

Imax=9420 cd
α=22°

Lux			
h	d	Em	Emax
2	0.8	1863	2355
4	1.6	466	589
6	2.3	207	262
8	3.1	116	147

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	

85° — 8 6 4
75° — 2
65° —
55° — a h
45° | 10^2 | 2 | 3 | 4 | 5 | 6 | 8 | 10^3 | 2 | 3 | 4 | 5 | 6 | 8 | 10^4 | cd/m²

C0-180 C90-270
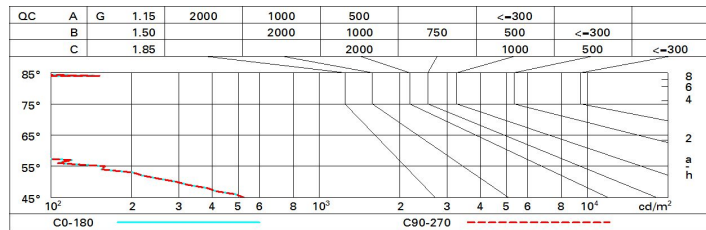
UGR diagram

Corrected UGR values (at 2660 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	11.1	13.1	11.5	13.5	13.8	11.1	13.1	11.5	13.5	13.8
	3H	10.9	12.5	11.3	12.8	13.2	10.9	12.5	11.3	12.8	13.2
	4H	10.9	12.2	11.2	12.6	12.9	10.9	12.2	11.2	12.6	12.9
	6H	10.8	11.9	11.2	12.3	12.6	10.8	11.9	11.2	12.3	12.6
	8H	10.8	11.9	11.2	12.2	12.6	10.8	11.9	11.2	12.2	12.6
	12H	10.7	11.8	11.1	12.2	12.6	10.7	11.8	11.1	12.2	12.6
4H	2H	10.9	12.2	11.2	12.6	12.9	10.9	12.2	11.2	12.6	12.9
	3H	10.7	11.8	11.1	12.2	12.6	10.7	11.8	11.1	12.2	12.6
	4H	10.6	11.6	11.0	12.0	12.5	10.6	11.6	11.0	12.0	12.5
	6H	10.3	11.9	10.7	12.3	12.8	10.3	11.9	10.7	12.3	12.8
	8H	10.1	11.9	10.6	12.4	12.9	10.1	11.9	10.6	12.4	12.9
	12H	10.0	11.9	10.5	12.4	12.9	10.0	11.9	10.5	12.4	12.9
8H	4H	10.1	11.9	10.6	12.4	12.9	10.1	11.9	10.6	12.4	12.9
	6H	10.0	11.8	10.5	12.2	12.8	10.0	11.8	10.5	12.2	12.8
	8H	10.0	11.5	10.5	12.0	12.6	10.0	11.5	10.5	12.0	12.6
	12H	10.1	11.1	10.7	11.6	12.1	10.1	11.1	10.7	11.6	12.1
12H	4H	10.0	11.9	10.5	12.4	12.9	10.0	11.9	10.5	12.4	12.9
	6H	10.0	11.5	10.5	12.0	12.6	10.0	11.5	10.5	12.0	12.6
	8H	10.1	11.1	10.7	11.6	12.1	10.1	11.1	10.7	11.6	12.1

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