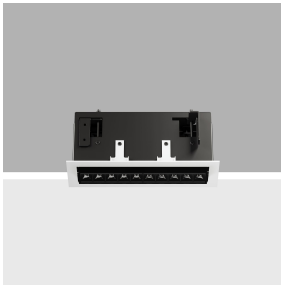# Laser Blade XS

Last information update: June 2025

Product configuration: PH72
PH72: Frame adjustable 10-cell recessed luminaire - LED DALI dimmable power supply - Medium

Product code
PH72: Frame adjustable 10-cell recessed luminaire - LED DALI dimmable power supply - Medium

Technical description
Recessed rectangular luminaire with LEDs. Shaped steel sheet structural compartment with outer rim. The 10 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)*
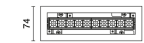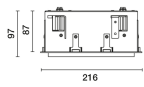
* Colours on request

Weight (Kg)
0.97

Mounting
wall recessed|ceiling recessed

Wiring
On power supply box: screw connections.

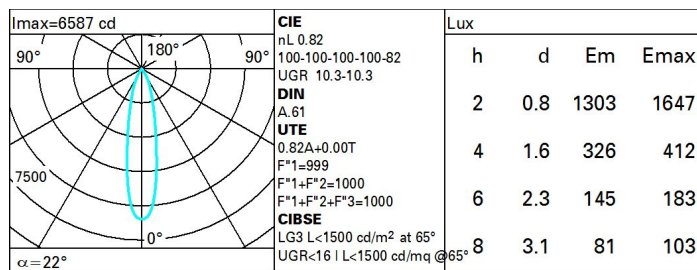Complies with EN60598-1 and pertinent regulations

IP20   CE   UKCA   QCERT   pending

Technical data

lm system:	1525	CRI (minimum):	90
W system:	16.5	Colour temperature [K]:	3500
lm source:	1860	MacAdam Step:	3
W source:	14	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	92.4	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:	1
Beam angle [°]:	22°	Control:	DALI-2

Polar

Imax=6587 cd

CIE
nL 0.82
100-100-100-100-82
UGR 10.3-10.3
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°

α=22°

h	d	Em	Emax
2	0.8	1303	1647
4	1.6	326	412
6	2.3	145	183
8	3.1	81	103

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
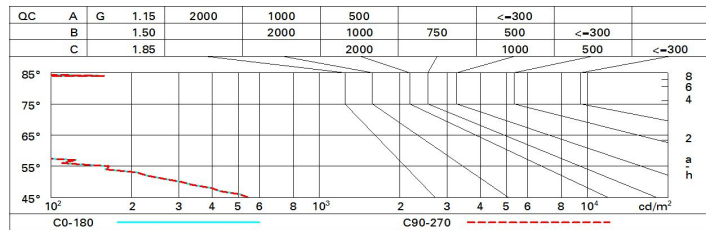
UGR diagram

Corrected UGR values (at 1860 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	11.2	13.3	11.6	13.6	13.9	11.2	13.3	11.6	13.6	13.9
	3H	11.1	12.6	11.4	13.0	13.3	11.1	12.6	11.4	13.0	13.3
	4H	11.0	12.4	11.4	12.7	13.0	11.0	12.4	11.4	12.7	13.0
	6H	10.9	12.1	11.3	12.4	12.8	10.9	12.1	11.3	12.4	12.8
	8H	10.9	12.0	11.3	12.4	12.7	10.9	12.0	11.3	12.4	12.7
	12H	10.8	11.9	11.2	12.3	12.7	10.8	11.9	11.2	12.3	12.7
4H	2H	11.0	12.4	11.4	12.7	13.0	11.0	12.4	11.4	12.7	13.0
	3H	10.8	11.9	11.2	12.3	12.7	10.8	11.9	11.2	12.3	12.7
	4H	10.7	11.8	11.1	12.2	12.6	10.7	11.8	11.1	12.2	12.6
	6H	10.4	12.0	10.9	12.5	12.9	10.4	12.0	10.9	12.5	12.9
	8H	10.3	12.1	10.8	12.5	13.0	10.3	12.1	10.8	12.5	13.0
	12H	10.1	12.1	10.7	12.5	13.1	10.1	12.1	10.7	12.5	13.1
8H	4H	10.3	12.1	10.8	12.5	13.0	10.3	12.1	10.8	12.5	13.0
	6H	10.1	11.9	10.6	12.4	12.9	10.1	11.9	10.6	12.4	12.9
	8H	10.1	11.7	10.6	12.2	12.7	10.1	11.7	10.6	12.2	12.7
	12H	10.3	11.2	10.8	11.7	12.3	10.3	11.2	10.8	11.7	12.3
12H	4H	10.1	12.1	10.7	12.5	13.1	10.1	12.1	10.7	12.5	13.1
	6H	10.1	11.7	10.6	12.2	12.7	10.1	11.7	10.6	12.2	12.7
	8H	10.3	11.2	10.8	11.7	12.3	10.3	11.2	10.8	11.7	12.3

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