

## Laser Blade XS

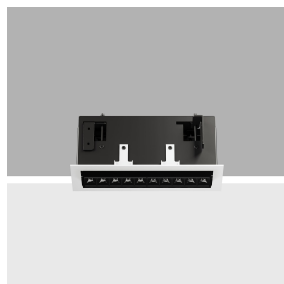
Design iGuzzini

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Last information update: June 2025

### Product configuration: PH77

PH77: Frame adjustable 10-cell recessed luminaire - LED DALI dimmable power supply - Wide Flood



### Product code

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### 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)\*

### Weight (Kg)

0.97

\* Colours on request

### Mounting

wall recessed|ceiling recessed

### Wiring

On power supply box: screw connections.

Complies with EN60598-1 and pertinent regulations



### Technical data

lm system:	1369	CRI (minimum):	90
W system:	16.5	Colour temperature [K]:	2700
lm source:	1670	MacAdam Step:	3
W source:	14	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	83	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 [°]:	42°	Control:	DALI-2

### Polar

	Lux			
	h	d	Em	Emax
	2	1.5	533	664
	4	3.1	133	166
	6	4.6	59	74
	8	6.1	33	42

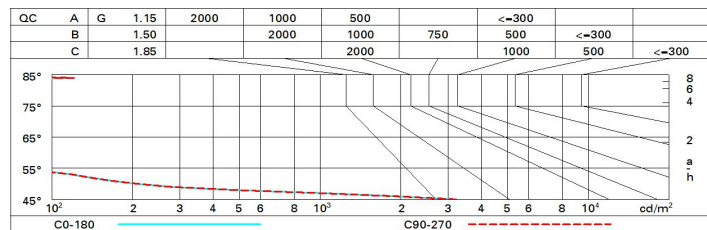
Imax=2657 cd  
α=42°

**CIE**  
nL 0.82  
100-100-100-100-82  
UGR 14.6-14.6  
**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°

# 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 1670 lm bare lamp luminous flux)											
Riflect.: ceil/cav walls work pl. Room dim x y		0.70 0.50 0.20	0.70 0.30 0.20	0.50 0.50 0.20	0.50 0.30 0.20	0.30 0.30 0.20	0.70 0.50 0.20	0.70 0.30 0.20	0.50 0.50 0.20	0.50 0.30 0.20	0.30 0.30 0.20
viewed crosswise						viewed endwise					
2H	2H	15.2	15.7	15.5	15.9	16.2	15.2	15.7	15.5	15.9	16.2
	3H	15.1	15.5	15.4	15.8	16.1	15.1	15.5	15.4	15.8	16.1
	4H	15.0	15.4	15.3	15.7	16.0	15.0	15.4	15.3	15.7	16.0
	6H	14.9	15.3	15.2	15.6	15.9	14.9	15.3	15.2	15.6	15.9
	8H	14.9	15.3	15.2	15.6	15.9	14.9	15.3	15.2	15.6	15.9
	12H	14.8	15.2	15.2	15.5	15.9	14.8	15.2	15.2	15.5	15.9
4H	2H	15.0	15.4	15.3	15.7	16.0	15.0	15.4	15.3	15.7	16.0
	3H	14.8	15.2	15.2	15.5	15.9	14.8	15.2	15.2	15.5	15.9
	4H	14.7	15.1	15.1	15.4	15.8	14.7	15.1	15.1	15.4	15.8
	6H	14.6	14.9	15.1	15.3	15.7	14.6	14.9	15.1	15.3	15.7
	8H	14.6	14.9	15.0	15.3	15.7	14.6	14.9	15.0	15.3	15.7
	12H	14.5	14.8	15.0	15.2	15.7	14.5	14.8	15.0	15.2	15.7
8H	4H	14.6	14.9	15.0	15.3	15.7	14.6	14.9	15.0	15.3	15.7
	6H	14.5	14.7	15.0	15.2	15.6	14.5	14.7	15.0	15.2	15.6
	8H	14.4	14.6	14.9	15.1	15.6	14.4	14.6	14.9	15.1	15.6
	12H	14.4	14.6	14.9	15.0	15.6	14.4	14.6	14.9	15.0	15.6
12H	4H	14.5	14.8	15.0	15.2	15.7	14.5	14.8	15.0	15.2	15.7
	6H	14.4	14.6	14.9	15.1	15.6	14.4	14.6	14.9	15.1	15.6
	8H	14.4	14.6	14.9	15.0	15.6	14.4	14.6	14.9	15.0	15.6
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				