

## Laser Blade XS

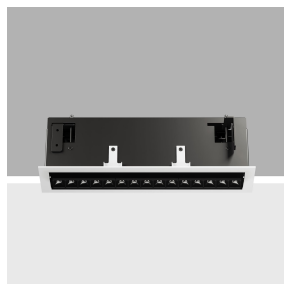
Design iGuzzini

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Last information update: June 2025

### Product configuration: PH80

PH80: Frame adjustable 15-cell recessed luminaire - LED DALI dimmable power supply - Medium



### Product code

PH80: Frame adjustable 15-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 15 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)

1.28

### Mounting

wall recessed|ceiling recessed

### Wiring

On power supply box: screw connections.

Complies with EN60598-1 and pertinent regulations



### Technical data

lm system:	2288	CRI (minimum):	90
W system:	24.1	Colour temperature [K]:	3500
lm source:	2790	MacAdam Step:	3
W source:	21	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	94.9	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:	1
Beam angle [°]:	22°	Control:	DALI-2

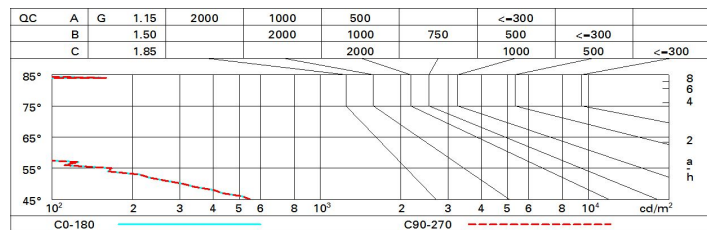
### Polar

	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°			
	Lux			
	h	d	Em	Emax
	2	0.8	1954	2470
	4	1.6	489	617
	6	2.3	217	274
	8	3.1	122	154

# 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



# UGR diagram

Corrected UGR values (at 2790 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	11.3	13.3	11.6	13.6	14.0	11.3	13.3	11.6	13.6	14.0
	3H	11.1	12.7	11.5	13.0	13.3	11.1	12.7	11.5	13.0	13.3
	4H	11.0	12.4	11.4	12.7	13.1	11.0	12.4	11.4	12.7	13.1
	6H	11.0	12.1	11.4	12.4	12.8	11.0	12.1	11.4	12.4	12.8
	8H	10.9	12.0	11.3	12.4	12.8	10.9	12.0	11.3	12.4	12.8
	12H	10.9	12.0	11.3	12.3	12.7	10.9	12.0	11.3	12.3	12.7
4H	2H	11.0	12.4	11.4	12.7	13.1	11.0	12.4	11.4	12.7	13.1
	3H	10.9	12.0	11.3	12.3	12.7	10.9	12.0	11.3	12.3	12.7
	4H	10.8	11.8	11.2	12.2	12.6	10.8	11.8	11.2	12.2	12.6
	6H	10.4	12.1	10.9	12.5	13.0	10.4	12.1	10.9	12.5	13.0
	8H	10.3	12.1	10.8	12.6	13.1	10.3	12.1	10.8	12.6	13.1
	12H	10.2	12.1	10.7	12.6	13.1	10.2	12.1	10.7	12.6	13.1
8H	4H	10.3	12.1	10.8	12.6	13.1	10.3	12.1	10.8	12.6	13.1
	6H	10.2	11.9	10.7	12.4	12.9	10.2	11.9	10.7	12.4	12.9
	8H	10.1	11.7	10.7	12.2	12.7	10.1	11.7	10.7	12.2	12.7
	12H	10.3	11.3	10.8	11.8	12.3	10.3	11.3	10.8	11.8	12.3
12H	4H	10.2	12.1	10.7	12.6	13.1	10.2	12.1	10.7	12.6	13.1
	6H	10.1	11.7	10.7	12.2	12.7	10.1	11.7	10.7	12.2	12.7
	8H	10.3	11.3	10.8	11.8	12.3	10.3	11.3	10.8	11.8	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				