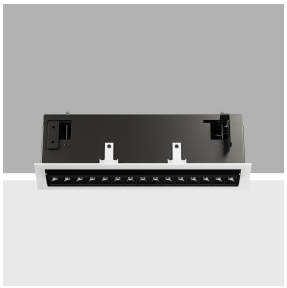
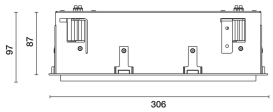
Laser Blade XS

Design iGuzzini **iGuzzini**

Last information update: April 2025

Product configuration: PH85
PH85: Frame adjustable 15-cell recessed luminaire - LED DALI dimmable power supply - Wide Flood





Product code
PH85: Frame adjustable 15-cell recessed luminaire - LED DALI dimmable power supply - Wide Flood

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.

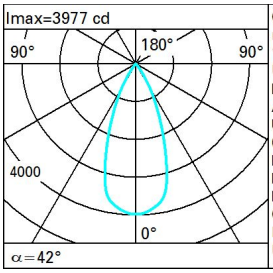
Complies with EN60598-1 and pertinent regulations

IP20

Technical data

lm system:	2050	CRI (minimum):	90
W system:	24.1	Colour temperature [K]:	2700
lm source:	2500	MacAdam Step:	3
W source:	21	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	85.1	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



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°

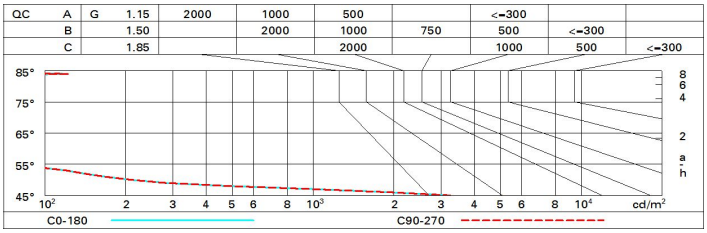
Lux

h	d	Em	Emax
2	1.5	798	994
4	3.1	199	249
6	4.6	89	110
8	6.1	50	62

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 2500 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				viewed crosswise					viewed endwise		
x	y										
2H	2H	15.2	15.7	15.5	16.0	16.2	15.2	15.7	15.5	16.0	16.2
	3H	15.1	15.6	15.4	15.8	16.1	15.1	15.6	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	15.3	15.6	16.0	14.9	15.3	15.3	15.6	16.0
	8H	14.9	15.3	15.3	15.6	15.9	14.9	15.3	15.3	15.6	15.9
	12H	14.9	15.2	15.2	15.6	15.9	14.9	15.2	15.2	15.6	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	14.9	15.2	15.2	15.6	15.9	14.9	15.2	15.2	15.6	15.9
	4H	14.8	15.1	15.2	15.5	15.8	14.8	15.1	15.2	15.5	15.8
	6H	14.7	15.0	15.1	15.4	15.8	14.7	15.0	15.1	15.4	15.8
	8H	14.6	14.9	15.1	15.3	15.7	14.6	14.9	15.1	15.3	15.7
	12H	14.6	14.8	15.0	15.3	15.7	14.6	14.8	15.0	15.3	15.7
8H	4H	14.6	14.9	15.1	15.3	15.7	14.6	14.9	15.1	15.3	15.7
	6H	14.5	14.8	15.0	15.2	15.7	14.5	14.8	15.0	15.2	15.7
	8H	14.5	14.7	15.0	15.1	15.6	14.5	14.7	15.0	15.1	15.6
	12H	14.4	14.6	14.9	15.1	15.6	14.4	14.6	14.9	15.1	15.6
12H	4H	14.6	14.8	15.0	15.3	15.7	14.6	14.8	15.0	15.3	15.7
	6H	14.5	14.7	15.0	15.1	15.6	14.5	14.7	15.0	15.1	15.6
	8H	14.4	14.6	14.9	15.1	15.6	14.4	14.6	14.9	15.1	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