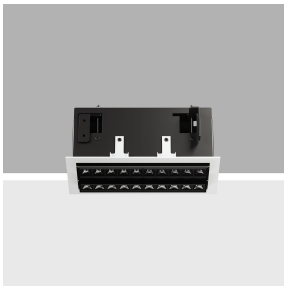
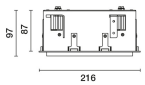
Laser Blade XS

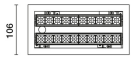
Design iGuzzini **iGuzzini**

Last information update: April 2025

Product configuration: PH99
PH99: Frame adjustable 2 x 10-cell recessed luminaire - LED - Warm White - DALI dimmable power supply







Product code
PH99: Frame adjustable 2 x 10-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 10 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)
1.43

Mounting
wall recessed|ceiling recessed

Wiring
on power supply box: screw connections.

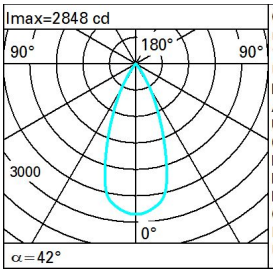
Complies with EN60598-1 and pertinent regulations

IP20

Technical data

lm system:	2936	CRI (minimum):	90
W system:	31.8	Colour temperature [K]:	3000
lm source:	1790	MacAdam Step:	3
W source:	14	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	92.3	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 [°]:	42°	Control:	DALI-2

Polar



CIE
nL 0.82
100-100-100-100-82
UGR 14.8-14.8
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°

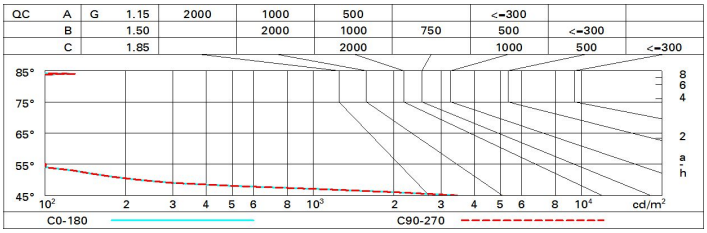
Lux

h	d	Em	Emax
2	1.5	571	712
4	3.1	143	178
6	4.6	63	79
8	6.1	36	44

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 1790 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	15.4	15.9	15.7	16.2	16.4	15.4	15.9	15.7	16.2	16.4
	3H	15.3	15.8	15.6	16.0	16.3	15.3	15.8	15.6	16.0	16.3
	4H	15.2	15.7	15.5	15.9	16.2	15.2	15.7	15.5	15.9	16.2
	6H	15.1	15.5	15.5	15.9	16.2	15.1	15.5	15.5	15.9	16.2
	8H	15.1	15.5	15.5	15.8	16.2	15.1	15.5	15.5	15.8	16.2
	12H	15.1	15.4	15.4	15.8	16.1	15.1	15.4	15.4	15.8	16.1
4H	2H	15.2	15.7	15.5	15.9	16.2	15.2	15.7	15.5	15.9	16.2
	3H	15.1	15.4	15.4	15.8	16.1	15.1	15.4	15.4	15.8	16.1
	4H	15.0	15.3	15.4	15.7	16.1	15.0	15.3	15.4	15.7	16.1
	6H	14.9	15.2	15.3	15.6	16.0	14.9	15.2	15.3	15.6	16.0
	8H	14.8	15.1	15.3	15.5	16.0	14.8	15.1	15.3	15.5	16.0
	12H	14.8	15.0	15.2	15.5	15.9	14.8	15.0	15.2	15.5	15.9
8H	4H	14.8	15.1	15.3	15.5	16.0	14.8	15.1	15.3	15.5	16.0
	6H	14.7	15.0	15.2	15.4	15.9	14.7	15.0	15.2	15.4	15.9
	8H	14.7	14.9	15.2	15.3	15.8	14.7	14.9	15.2	15.3	15.8
	12H	14.6	14.8	15.1	15.3	15.8	14.6	14.8	15.1	15.3	15.8
12H	4H	14.8	15.0	15.2	15.5	15.9	14.8	15.0	15.2	15.5	15.9
	6H	14.7	14.9	15.2	15.3	15.8	14.7	14.9	15.2	15.3	15.8
	8H	14.6	14.8	15.1	15.3	15.8	14.6	14.8	15.1	15.3	15.8

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