Deep Frame

Design iGuzzini **iGuzzini**

Last information update: June 2023

Product configuration: P918
P918: Deep Frame - 1 element - CoB warm LED - wide flood beam

Product code
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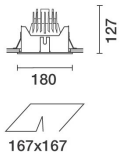
Technical description
Individual recessed luminaire for LED lamp. Version with a perimeter frame. Shaped sheet steel structural frame. Die-cast aluminium, twin swivel universal joint located in a position set back from the installation surface to guarantee a high level of visual comfort. Tilts ± 30° around both the horizontal and vertical axes. Die-cast aluminium lighting body designed to optimise heat dispersal. High efficiency aluminium reflector - wide flood angle. High color rendering index, warm white LED lamp. Glass cover Mechanical installation system. Control gear unit included.

Installation
Recessed in 1 to 30mm thick false ceilings - secured with manually adjustable metal brackets. Preparation hole 167 x 167.

Colour
White (01) | Grey / Black (74)

Weight (Kg)
1.5



Mounting
ceiling recessed

Wiring
Complete with electronic control gear unit connected to the luminaire. Wiring for connecting to mains network on driver terminal board

Notes
Accessories available: refractor for elliptical flow distribution - interchangeable reflector.

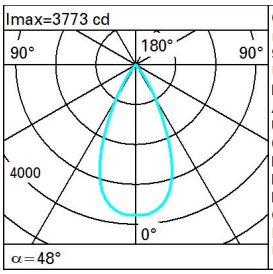
Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	2354	CRI:	90
W system:	30.8	Colour temperature [K]:	3000
lm source:	3100	MacAdam Step:	3
W source:	27	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	76.4	Ballast losses [W]:	3.8
lm in emergency mode:	-	Lamp code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of lamps for optical assembly:	1
Light Output Ratio (L.O.R.) [%]:	76	ZVEI Code:	LED
Beam angle [°]:	48°	Number of optical assemblies:	1

Polar



CIE
nL 0.76
99-100-100-100-76
UGR 11.8-11.8
DIN
A.61
UTE
0.76A+0.00T
F"1=988
F"1+F"2=998
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<16 | L<1500 cd/mq @65°

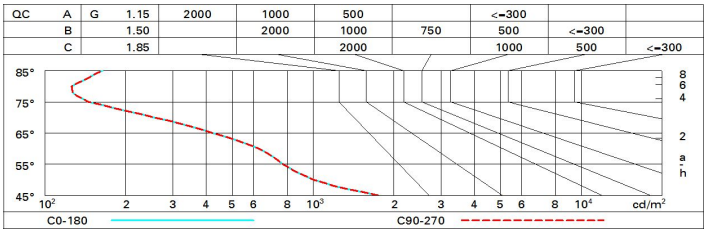
Lux

h	d	Em	Emax
2	1.8	751	942
4	3.6	188	236
6	5.3	83	105
8	7.1	47	59

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	68	65	62	60	64	62	61	59	78
1.0	71	68	66	64	67	65	65	62	82
1.5	75	72	71	69	72	70	69	67	88
2.0	77	75	74	73	74	73	72	70	93
2.5	79	77	76	75	76	75	74	72	95
3.0	80	79	78	77	77	77	76	74	97
4.0	81	80	79	79	79	78	77	75	99
5.0	81	81	80	80	79	79	78	76	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 3100 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	12.4	12.9	12.7	13.2	13.4	12.4	12.9	12.7	13.2	13.4
	3H	12.2	12.8	12.6	13.0	13.3	12.2	12.8	12.6	13.0	13.3
	4H	12.2	12.6	12.5	12.9	13.2	12.2	12.6	12.5	12.9	13.2
	6H	12.1	12.5	12.4	12.8	13.2	12.1	12.5	12.4	12.8	13.2
	8H	12.1	12.5	12.4	12.8	13.1	12.1	12.5	12.4	12.8	13.1
	12H	12.0	12.4	12.4	12.8	13.1	12.0	12.4	12.4	12.8	13.1
4H	2H	12.2	12.6	12.5	12.9	13.2	12.2	12.6	12.5	12.9	13.2
	3H	12.0	12.4	12.4	12.8	13.1	12.0	12.4	12.4	12.8	13.1
	4H	11.9	12.3	12.3	12.7	13.0	11.9	12.3	12.3	12.7	13.0
	6H	11.9	12.2	12.3	12.6	13.0	11.9	12.2	12.3	12.6	13.0
	8H	11.8	12.1	12.3	12.5	12.9	11.8	12.1	12.2	12.5	12.9
	12H	11.8	12.0	12.2	12.4	12.9	11.8	12.0	12.2	12.4	12.9
8H	4H	11.8	12.1	12.2	12.5	12.9	11.8	12.1	12.3	12.5	12.9
	6H	11.7	12.0	12.2	12.4	12.9	11.7	12.0	12.2	12.4	12.9
	8H	11.7	11.9	12.1	12.3	12.8	11.7	11.9	12.1	12.3	12.8
	12H	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.8
12H	4H	11.8	12.0	12.2	12.4	12.9	11.8	12.0	12.2	12.4	12.9
	6H	11.7	11.9	12.1	12.3	12.8	11.7	11.9	12.1	12.3	12.8
	8H	11.6	11.8	12.1	12.3	12.8	11.6	11.8	12.1	12.3	12.8

Variations with the observer position at spacing:

S =			
	1.0H	6.1 / -13.4	6.1 / -13.4
	1.5H	8.9 / -14.8	8.9 / -14.8
	2.0H	10.9 / -16.5	10.9 / -16.5