Deep Frame

Design iGuzzini **iGuzzini**

Last information update: October 2023

Product configuration: P902
P902: Deep Frame - 2 elements - CoB warm LED - medium beam - dimmable DALI

Product code
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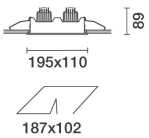
Technical description
Two element recessed luminaire for LED lamps. Version with a perimeter frame. Shaped sheet steel structural frame. Die-cast aluminium, twin swivel universal joints located in a position set back from the installation surface to guarantee a high level of visual comfort. Tilts ± 30° around both the horizontal and vertical axes. Die-cast aluminium lighting bodies designed to optimise heat dispersal. High efficiency aluminium reflectors - medium angle. High color rendering index, warm white LED lamps. Each lamp unit has its own glass cover. The installation system is toolfree. DALI dimmable control gear unit included.

Installation
Recessed in 1 to 30 mm thick false ceilings. Steel wire fixing springs. Preparation hole 102 x 187.

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

Weight (Kg)
1.12



Mounting
ceiling recessed

Wiring
Complete with DALI dimmable 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 reflectors.

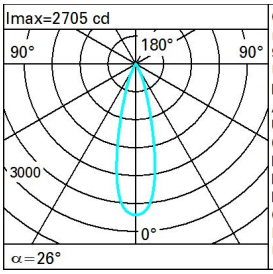
Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	1330	Colour temperature [K]:	3000
W system:	21.5	MacAdam Step:	3
lm source:	950	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
W source:	8.4	Ballast losses [W]:	2.4
Luminous efficiency (lm/W, real value):	61.9	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.) [%]:	70	Number of optical assemblies:	2
Beam angle [°]:	26°	Control:	DALI
CRI (minimum):	90		

Polar



CIE
nL 0.70
99-100-100-100-70
UGR <10-<10
DIN
A.61
UTE
0.70A+0.00T
F"1=993
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 I L<1500 cd/mq @65°

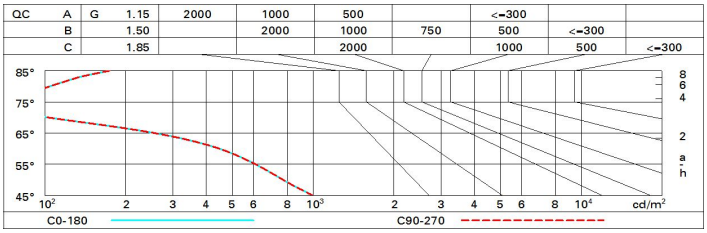
Lux

h	d	Em	Emax
2	0.9	556	676
4	1.8	139	169
6	2.8	62	75
8	3.7	35	42

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	63	60	58	56	59	57	57	55	78
1.0	66	63	61	59	62	60	60	58	83
1.5	69	67	65	64	66	65	64	62	88
2.0	71	70	68	67	69	68	67	65	93
2.5	73	71	70	70	70	70	69	67	96
3.0	73	73	72	71	72	71	70	68	98
4.0	74	74	73	73	73	72	71	69	99
5.0	75	74	74	74	73	73	72	70	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 950 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	-1.7	0.5	-1.3	0.8	1.2	-1.7	0.5	-1.3	0.8	1.2
	3H	-1.7	-0.0	-1.3	0.3	0.6	-1.7	0.0	-1.3	0.4	0.7
	4H	-1.8	-0.4	-1.4	-0.0	0.3	-1.7	-0.3	-1.3	0.0	0.4
	6H	-1.8	-0.7	-1.4	-0.4	-0.0	-1.7	-0.6	-1.3	-0.3	0.0
	8H	-1.8	-0.7	-1.4	-0.4	-0.0	-1.8	-0.7	-1.4	-0.4	0.0
	12H	-1.8	-0.8	-1.4	-0.4	-0.0	-1.8	-0.8	-1.4	-0.4	-0.0
4H	2H	-1.7	-0.3	-1.3	0.0	0.4	-1.8	-0.4	-1.4	-0.0	0.3
	3H	-1.7	-0.7	-1.3	-0.3	0.1	-1.7	-0.7	-1.3	-0.3	0.1
	4H	-1.8	-0.8	-1.4	-0.4	-0.0	-1.8	-0.8	-1.4	-0.4	-0.0
	6H	-2.1	-0.4	-1.6	0.0	0.5	-2.1	-0.4	-1.7	-0.0	0.5
	8H	-2.2	-0.3	-1.7	0.1	0.6	-2.3	-0.4	-1.8	0.1	0.6
	12H	-2.3	-0.3	-1.8	0.2	0.7	-2.4	-0.4	-1.9	0.1	0.6
8H	4H	-2.3	-0.4	-1.8	0.1	0.6	-2.2	-0.3	-1.7	0.1	0.6
	6H	-2.3	-0.5	-1.8	-0.0	0.5	-2.3	-0.5	-1.8	-0.0	0.5
	8H	-2.3	-0.7	-1.8	-0.2	0.3	-2.3	-0.7	-1.8	-0.2	0.3
	12H	-2.1	-1.0	-1.6	-0.5	-0.0	-2.1	-1.1	-1.6	-0.6	-0.1
12H	4H	-2.4	-0.4	-1.9	0.1	0.6	-2.3	-0.3	-1.8	0.2	0.7
	6H	-2.4	-0.7	-1.8	-0.2	0.3	-2.3	-0.6	-1.8	-0.1	0.4
	8H	-2.1	-1.1	-1.6	-0.6	-0.1	-2.1	-1.0	-1.6	-0.5	-0.0

Variations with the observer position at spacing:

S =			
	1.0H	3.9 / -2.7	3.9 / -2.7
	1.5H	6.3 / -4.6	6.3 / -4.6
	2.0H	8.2 / -7.3	8.2 / -7.3