Deep Minimal

Design iGuzzini **iGuzzini**

Last information update: October 2023

Product configuration: P937
P937: Deep Minimal - 1 element - CoB warm LED - flood beam - dimmable DALI

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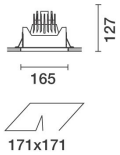
Technical description
Individual recessed luminaire for LED lamp. Minimal (frameless) version with no contact frame. Shaped stainless steel sheet structural frame specifically designed for flush with ceiling application using the adapter supplied. Die-cast aluminium, twin swivel universal joint located 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 - flood angle. High color rendering index, warm white LED lamp. Glass cover DALI dimmable control gear unit included.

Installation
Recessed in 12.5 mm thick false ceilings. The aluminium adapter is designed for filling, smoothing and finishing the false ceiling before inserting the recessed unit. Steel wire fixing springs. Preparation hole 171 x 171.

Colour
White (01) | Black (04)



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 - adapter for installation in 15 mm thick false ceilings

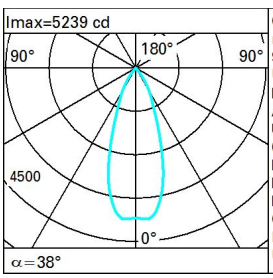
Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Technical data

lm system:	2477	Colour temperature [K]:	3000
W system:	32.2	MacAdam Step:	3
lm source:	3100	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
W source:	27	Ballast losses [W]:	5.2
Luminous efficiency (lm/W, real value):	76.9	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.) [%]:	80	Number of optical assemblies:	1
Beam angle [°]:	38°	Control:	DALI
CRI:	90		

Polar



CIE
nL 0.80
99-100-100-100-80
UGR 12.6-12.5
DIN
A.61
UTE
0.80A+0.00T
F"1=987
F"1+F"2=998
F"1+F"2+F"3=1000
CIBSE
LG3 L<500 cd/m² at 65°
UGR<16 | L<500 cd/mq @65°

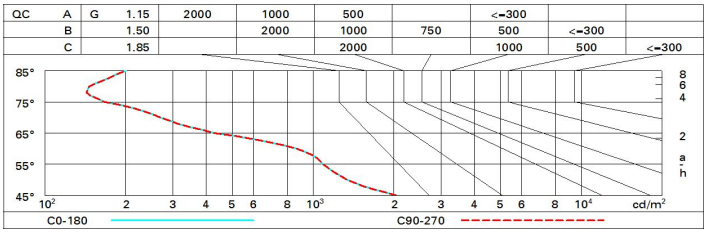
Lux

h	d	Em	Emax
2	1.4	1052	1298
4	2.8	263	325
6	4.1	117	144
8	5.5	66	81

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	72	68	65	63	67	65	64	62	78
1.0	75	72	69	67	71	69	68	66	82
1.5	79	76	74	73	75	73	73	70	88
2.0	81	79	78	77	78	77	76	74	92
2.5	83	81	80	79	80	79	78	76	95
3.0	84	83	82	81	82	81	80	78	97
4.0	85	84	84	83	83	82	81	79	99
5.0	85	85	84	84	83	83	82	80	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	13.1	13.7	13.4	14.0	14.2	13.1	13.7	13.4	14.0	14.2
	3H	13.0	13.5	13.3	13.8	14.1	13.0	13.5	13.3	13.8	14.1
	4H	12.9	13.4	13.2	13.7	14.0	12.9	13.4	13.2	13.7	14.0
	6H	12.8	13.3	13.2	13.6	13.9	12.8	13.3	13.2	13.6	13.9
	8H	12.8	13.3	13.2	13.6	13.9	12.8	13.3	13.2	13.6	13.9
	12H	12.8	13.2	13.1	13.5	13.9	12.8	13.2	13.1	13.5	13.9
4H	2H	12.9	13.4	13.2	13.7	14.0	12.9	13.4	13.2	13.7	14.0
	3H	12.8	13.2	13.1	13.5	13.9	12.8	13.2	13.1	13.5	13.9
	4H	12.7	13.1	13.1	13.4	13.8	12.7	13.1	13.1	13.4	13.8
	6H	12.6	12.9	13.0	13.3	13.7	12.6	12.9	13.0	13.3	13.7
	8H	12.6	12.9	13.0	13.3	13.7	12.5	12.9	13.0	13.3	13.7
	12H	12.5	12.8	13.0	13.2	13.7	12.5	12.8	13.0	13.2	13.7
8H	4H	12.5	12.9	13.0	13.3	13.7	12.6	12.9	13.0	13.3	13.7
	6H	12.5	12.7	12.9	13.2	13.6	12.5	12.7	12.9	13.2	13.6
	8H	12.4	12.6	12.9	13.1	13.6	12.4	12.6	12.9	13.1	13.6
	12H	12.4	12.5	12.9	13.0	13.5	12.4	12.5	12.9	13.0	13.5
12H	4H	12.5	12.8	13.0	13.2	13.7	12.5	12.8	13.0	13.2	13.7
	6H	12.4	12.6	12.9	13.1	13.6	12.4	12.6	12.9	13.1	13.6
	8H	12.4	12.5	12.9	13.0	13.5	12.4	12.5	12.9	13.0	13.5

Variations with the observer position at spacing:

S =			
	1.0H	5.7 / -12.8	5.7 / -12.8
	1.5H	8.5 / -14.7	8.5 / -14.7
	2.0H	10.5 / -17.4	10.5 / -17.4