Design iGuzzini

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Last information update: June 2023

Product configuration: N159.01

N159.01: Fixed, Recessed luminaire - Neutral LED - Incorporated DALI dimmable power supply - WideFlood optic Beam - White



Product code

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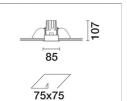
Technical description

Fixed optic, recessed luminaire for high efficiency, neutral white LED lamp. Passive heat dissipation system. Lamp body with die-cast aluminium radiant surface, version with perimeter surface frame. Metallised, thermoplastic, high definition optic, integrated in a rear position in the anti-glare screen. Glass cover for LED lamp. The structure of the optical system produces light emission with controlled luminance (UGR < 19). Equipped with a dimmable DALI ballast connected to the luminaire.

Installation

recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 75 x 75. Installation permitted in either a horizontal or vertical position.

0.5



Colour Weight (Kg)

White (01) Mounting

wall recessed|ceiling recessed

Wiring

on the control gears box with quick-coupling connections. Digital electronic cabling that allows dimming to be performed with DALI protocol or a pushbutton switch (DIM SWITCH).

The product with its white finish (01) includes an optic ring for limiting luminance; a feature that renders a performance of UGR < 19 and determines slight variations in the opening of the optic (52°) and yield (0.74).

Complies with EN60598-1 and pertinent regulations On the visible part of the product once installed NOM: **(S**)



Im system:	836	Ballast losses [W]:	2.1		
W system:	8.7	Voltage [Vin]:	230		
Im source:	1100	Lamp code:	LED		
W source:	6.6	Number of lamps for optical	1		
Luminous efficiency (lm/W,	96.1	assembly:			
real value):		ZVEI Code:	LED		
Im in emergency mode:	-	Number of optical	1		
Total light flux at or above	0	assemblies:			
an angle of 90° [Lm]:		Power factor:	See installation instructions		
Light Output Ratio (L.O.R.)	76	Inrush current:	16 A / 220 μs		
[%]:		Maximum number of			
Beam angle [°]:	52°	luminaires of this type per	B10A: 15 luminaires		
CRI (minimum):	80	miniature circuit breaker:	B16A: 24 luminaires		
Colour temperature [K]:	4000		C10A: 24 luminaires		
MacAdam Step:	2		C16A: 40 luminaires		
Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)	Overvoltage protection:	2kV Common mode & 1kV Differential mode		
		Dimming mode:	PWM		
		Control:	DALI		

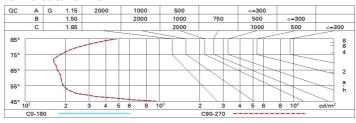
Polar

Imax=1251 cd	CIE	Lux			
90° 180° 90°	nL 0.76 100-100-100-100-76	h	d	Em	Emax
	UGR 10.7-10.7 DIN A.61	1	1	1007	1251
	UTE 0.76A+0.00T F"1=996	2	2	252	313
1000	F"1+F"2=999 F"1+F"2+F"3=1000 CIBSE	3	2.9	112	139
α=52°	LG3 L<1500 cd/m ² at 65° UGR<16 L<1500 cd/mq @	_{65°} 4	3.9	63	78

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	69	65	63	61	64	62	62	59	78
1.0	72	68	66	64	68	66	65	63	83
1.5	75	73	71	69	72	70	69	67	88
2.0	77	76	74	73	75	73	73	71	93
2.5	79	78	77	76	76	76	75	73	96
3.0	80	79	78	77	78	77	76	74	98
4.0	81	80	80	79	79	78	77	75	99
5.0	81	81	80	80	79	79	78	76	100

Luminance curve limit



work	eν												
walls work													
work		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30		
	walls		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		
Room dim		viewed						viewed					
х у		crosswise					endwise						
2H	2H	11.3	11.8	11.5	12.0	12.3	11.3	11.8	11.5	12.0	12.		
	ЗН	11.1	11.6	11.4	11.9	12.2	11.1	11.6	11.4	11.9	12.		
	4H	11.1	11.5	11.4	11.8	12.1	11.1	11.5	11.4	11.8	12.		
	бН	11.0	11.4	11.3	11.7	12.1	11.0	11.4	11.3	11.7	12.		
	HS	11.0	11.4	11.3	11.7	12.0	10.9	11.4	11.3	11.7	12.		
	12H	10.9	11.3	11.3	11.6	12.0	10.9	11.3	11.3	11.6	12.		
4H	2H	11.1	11.5	11.4	11.8	12.1	11.1	11.5	11.4	11.8	12.		
	3H	10.9	11.3	11.3	11.6	12.0	10.9	11.3	11.3	11.6	12.		
	4H	10.8	11.2	11.2	11.5	11.9	10.8	11.2	11.2	11.5	11.		
	6H	10.7	11.0	11.2	11.4	11.9	10.7	11.0	11.2	11.4	11.		
	H8	10.7	11.0	11.1	11.4	11.8	10.7	11.0	11.1	11.4	11.		
	12H	10.7	10.9	11.1	11.3	11.8	10.6	10.9	11.1	11.3	11.		
вн	4H	10.7	11.0	11.1	11.4	11.8	10.7	11.0	11.1	11.4	11.		
	бН	10.6	10.8	11.1	11.3	11.8	10.6	10.8	11.1	11.3	11.		
	H8	10.6	10.8	11.0	11.2	11.7	10.6	10.8	11.0	11.2	11.		
	12H	10.5	10.7	11.0	11.2	11.7	10.5	10.7	11.0	11.2	11.		
12H	4H	10.6	10.9	11.1	11.3	11.8	10.7	10.9	11.1	11.3	11.		
	бН	10.5	10.7	11.0	11.2	11.7	10.6	10.8	11.0	11.2	11.		
	H8	10.5	10.7	11.0	11.2	11.7	10.5	10.7	11.0	11.2	11.		
Varia	tions wi	th the ob	oserverp	osition	at spacin	g:							
S =	1.0H	6.5 / -15.1					6.5 / -15.1						
	1.5H	9.3 / -15.3					9.3 / -15.3						