Design iGuzzini

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Last information update: June 2023

Product configuration: P451 P451: recessed adjustable



Product code

P451: recessed adjustable Attention! Code no longer in production

Technical description

Round adjustable luminaire designed for housing 2700K Warm White COB LED light sources with high colour rendering and OPTIBEAM reflector made of thermoplastic material. Rim made of white-coated die-cast aluminium, upper barrel made of black-coated thermoplastic for guaranteeing maximum visual comfort and preventing stray light dispersion, black-coated extruded aluminium heat sink. Spot optic. Adjustable internally around the horizontal axis by 35° and around the vertical axis by 358°. Passive cooling system. Product inclusive of electronic components.

Installation

Recessed installation in false ceilings with 1 mm to 20 mm thickness with steel springs.

Colour	Weight (Kg)
White (01)	1.3

Mounting

ceiling surface

Wiring

Product inclusive of electronic components.

Complies with EN60598-1 and pertinent regulations











Technical data Im system: 1160 MacAdam Step: W system: 33.9 Life Time LED 1: > 50,000h - L80 - B10 (Ta 25°C) Ballast losses [W]: 2900 2.9 Im source: W source: Lamp code: LED Luminous efficiency (lm/W, 34.2 Number of lamps for optical 1 real value): assembly: ZVEI Code: LFD Im in emergency mode: Total light flux at or above Number of optical an angle of 90° [Lm]: assemblies: Light Output Ratio (L.O.R.) 40 Power factor: See installation instructions [%]: Inrush current: $186~A\,/\,240~\mu s$ Beam angle [°]: 18° Overvoltage protection: 2kV Common mode & 1kV CRI (minimum): 90 Differential mode Colour temperature [K]: 2700

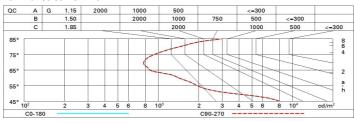
Polar

lmax=6830 cd	CIE	Lux			
90°	nL 0.40 98-100-100-100-40	h	d	Em	Emax
	UGR <10-<10 DIN A.61 UTE	2	0.6	1275	1707
	0.40A+0.00T F"1=985	4	1.3	319	427
7500	F"1+F"2=997 F"1+F"2+F"3=999 CIBSE	6	1.9	142	190
α=18°	LG3 L<3000 cd/m² at 65° UGR<10 L<3000 cd/mq @	_{65°} 8	2.5	80	107

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	36	34	33	32	34	32	32	31	77
1.0	37	36	35	34	35	34	34	33	82
1.5	39	38	37	36	38	37	36	35	88
2.0	41	40	39	38	39	38	38	37	92
2.5	41	41	40	40	40	40	39	38	95
3.0	42	41	41	41	41	40	40	39	97
4.0	42	42	42	42	41	41	41	40	99
5.0	43	42	42	42	42	42	41	40	100

Luminance curve limit



Corre	ected UC	R value:	s (at 290	0 Im bar	e lamp li	um ino us	flux)				
Rifled	ct.:										
ceil/cav walls work pl. Room dim		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50 0.20	0.30 0.20	0.50 0.20	0.30	0.30 0.20	0.50 0.20	0.30	0.50 0.20	0.30	0.30
								0.20		0.20	0.20
		viewed						viewed			
X	У		(crosswis	е	endwise					
2H	2H	6.1	8.2	6.5	8.5	8.8	6.1	8.2	6.5	8.5	8.8
	ЗН	6.0	7.7	6.4	0.8	8.3	6.0	7.6	6.4	0.8	8.3
	4H	6.1	7.4	6.4	7.7	8.1	6.0	7.3	6.3	7.6	8.6
	бН	6.2	7.2	6.6	7.5	7.9	5.9	7.0	6.3	7.3	7.0
	нв	6.3	7.3	6.7	7.6	0.8	5.9	6.9	6.3	7.3	7.6
	12H	6.4	7.5	8.6	7.8	8.2	5.8	6.9	6.2	7.2	7.0
4H	2H	6.0	7.3	6.3	7.6	0.8	6.1	7.4	6.4	7.7	8.
	ЗН	6.0	7.0	6.4	7.3	7.7	6.0	7.1	6.4	7.4	7.8
	4H	6.0	7.0	6.4	7.4	7.8	6.0	7.0	6.4	7.4	7.8
	бН	5.9	7.6	6.4	0.8	8.5	5.7	7.4	6.2	7.8	8.3
	HS	6.0	7.9	6.5	8.4	8.9	5.6	7.5	6.1	7.9	8.8
	12H	6.3	8.2	8.8	8.7	9.2	5.5	7.5	6.0	7.9	2.8
нѕ	4H	5.6	7.5	6.1	7.9	8.4	6.0	7.9	6.5	8.4	8.8
	6H	5.9	7.7	6.4	8.2	8.7	6.1	7.9	6.6	8.4	8.9
	HS	6.2	7.8	6.7	8.3	8.8	6.2	7.8	6.7	8.3	8.8
	12H	7.0	0.8	7.5	8.5	9.0	6.5	7.5	7.0	0.8	8.8
12H	4H	5.5	7.5	6.0	7.9	8.5	6.3	8.2	6.8	8.7	9.2
	бН	5.9	7.5	6.5	0.8	8.6	6.6	8.2	7.1	8.7	9.2
	HS	6.5	7.5	7.0	0.8	8.6	7.0	8.0	7.5	8.5	9.0
Varia	tions wi	th the ol	bserver	osition	at spacir	ng:					
S =	1.0H	1.4 / -2.1					1.4 / -2.1				
	1.5H	3.1 / -2.6					3.1 / -2.6				