

Laser Pinhole

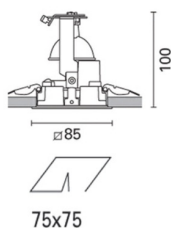
Design iGuzzini

iGuzzini

Last information update: October 2024

Product configuration: P427

P427: recessed adjustable



Product code

P427: recessed adjustable

Technical description

Square adjustable luminaire designed for housing 3000K 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 incorporating a black-coated thermoplastic component for guaranteeing maximum visual comfort and preventing stray light dispersion. Medium optic. Adjustable internally around the horizontal axis by 35° and around the vertical axis by 358°. Passive cooling system, by means of a black-coated heat sink made of extruded aluminium. The power supply unit is available with a separate code.

Installation

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

Colour

White (01)

Mounting

ceiling surface

Wiring

Constant-current ballasts available with separate code: ON-OFF / 1-10 V dimmable / phase-cut dimmer / the recessed luminaire is supplied with the cable and connector to be connected to the connector provided on the driver.

Complies with EN60598-1 and pertinent regulations



Technical data

lm system:	468	CRI (minimum):	90
W system:	10	Colour temperature [K]:	3000
lm source:	1200	MacAdam Step:	2
W source:	10	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	46.8	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.) [%]:	39	Number of optical assemblies:	1
Beam angle [°]:	22°	LED current [mA]:	300

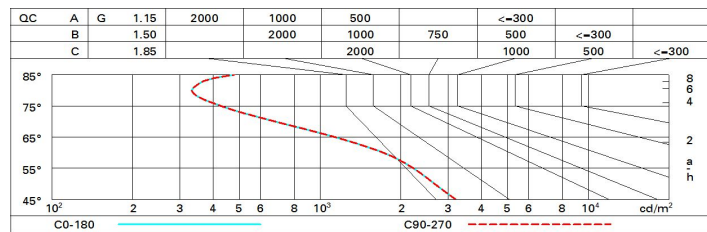
Polar

Imax=3424 cd		CIE nL 0.39 99-100-100-100-39 UGR <10-<10 DIN A.61 UTE 0.39A+0.00T F*1=990 F*1+F*2=998 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m² at 65° UGR<10 L<1500 cd/mq @ 65°	Lux			
90°	180°		h	d	Em	Emax
			2	0.8	681	856
			4	1.6	170	214
			6	2.3	76	95
			8	3.1	43	53
α=22°						

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	35	33	32	31	33	32	32	30	78
1.0	37	35	34	33	35	34	33	32	82
1.5	38	37	36	35	37	36	36	34	88
2.0	40	39	38	37	38	38	37	36	93
2.5	40	40	39	39	39	39	38	37	95
3.0	41	40	40	40	40	39	39	38	97
4.0	41	41	41	41	40	40	40	39	99
5.0	42	41	41	41	41	41	40	39	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1200 lm bare lamp luminous flux)											
Reflect.: ceiling walls work pl. Room dim x y		viewed crosswise					viewed endwise				
		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2H	2H	2.4	4.5	2.8	4.8	5.1	2.4	4.5	2.8	4.8	5.1
	3H	2.6	4.1	3.0	4.4	4.7	2.6	4.0	2.9	4.3	4.7
	4H	2.6	3.7	3.0	4.1	4.4	2.6	3.7	3.0	4.0	4.4
	6H	2.6	3.4	3.0	3.7	4.0	2.6	3.3	3.0	3.7	4.0
	8H	2.6	3.4	3.0	3.7	4.1	2.6	3.3	2.9	3.7	4.0
	12H	2.6	3.4	3.0	3.7	4.1	2.5	3.3	2.9	3.7	4.0
4H	2H	2.6	3.7	3.0	4.0	4.4	2.6	3.7	3.0	4.1	4.4
	3H	2.9	3.7	3.3	4.0	4.4	2.8	3.7	3.2	4.0	4.4
	4H	2.8	3.7	3.2	4.1	4.5	2.8	3.7	3.2	4.1	4.5
	6H	2.4	4.2	2.9	4.6	5.1	2.4	4.2	2.9	4.6	5.1
	8H	2.3	4.3	2.8	4.7	5.2	2.3	4.2	2.8	4.7	5.2
	12H	2.3	4.2	2.8	4.7	5.2	2.2	4.2	2.7	4.7	5.2
8H	4H	2.3	4.2	2.8	4.7	5.2	2.3	4.3	2.8	4.7	5.2
	6H	2.3	4.0	2.8	4.5	5.0	2.3	4.0	2.8	4.5	5.1
	8H	2.4	3.8	2.9	4.3	4.8	2.4	3.8	2.9	4.3	4.8
	12H	2.5	3.5	3.0	4.0	4.6	2.5	3.5	3.0	4.0	4.5
12H	4H	2.2	4.2	2.7	4.7	5.2	2.3	4.2	2.8	4.7	5.2
	6H	2.3	3.8	2.8	4.3	4.8	2.4	3.8	2.9	4.3	4.8
	8H	2.5	3.5	3.0	4.0	4.5	2.5	3.5	3.0	4.0	4.6
Variations with the observer position at spacing:											
S =	1.0H	0.8 / -1.0					0.8 / -1.0				
	1.5H	1.8 / -2.6					1.8 / -2.6				
	2.0H	3.2 / -4.5					3.2 / -4.5				