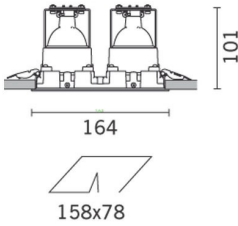


Laser Pinhole

Design iGuzzini

iGuzzini

Last information update: May 2018



multiple adjustable recessed WW

Product code
P431

Technical description

Two-compartment multiple 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 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°. The optical compartments can be adjusted individually. 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.

Dimension (mm)

164x85x101

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



IP20



Product configuration: P431

Product characteristics

Total lighting output [Lm]: 897
Total power [W]: 20
Luminous efficacy [Lm/W]: 44.9
Life Time: > 50,000h - L80 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0
Emergency luminous flux [Lm]: /
Voltage [V]: -
Number of optical assemblies: 2

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 39
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 10
Nominal luminous [Lm]: 1150
Lamp maximum intensity [cd]: /
Beam angle [°]: 22°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 0
Colour temperature [K]: 2700
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 2

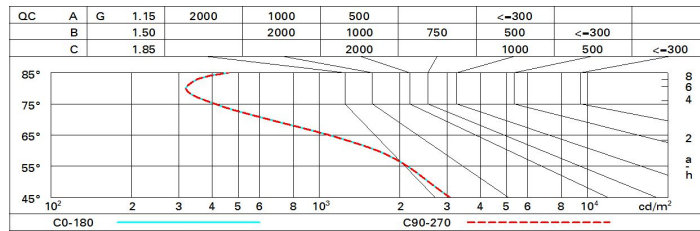
Polar

Imax=3282 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/m ² at 65° UGR<10 L<1500 cd/mq @65°	Lux			
		h	d	Em	Emax
90°		2	0.8	653	820
3000		4	1.6	163	205
		6	2.3	73	91
α=22°		8	3.1	41	51

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 1150 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling	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											
x	y										
2H	2H	2.2	4.3	2.6	4.6	5.0	2.2	4.3	2.6	4.6	5.0
	3H	2.5	3.9	2.8	4.2	4.6	2.4	3.9	2.8	4.2	4.5
	4H	2.5	3.6	2.8	3.9	4.2	2.5	3.6	2.8	3.9	4.2
	6H	2.5	3.2	2.9	3.6	3.9	2.5	3.2	2.8	3.5	3.9
	8H	2.5	3.2	2.8	3.6	3.9	2.4	3.2	2.8	3.5	3.9
	12H	2.4	3.2	2.8	3.6	4.0	2.3	3.2	2.7	3.5	3.9
4H	2H	2.5	3.6	2.8	3.9	4.2	2.5	3.6	2.8	3.9	4.2
	3H	2.7	3.5	3.1	3.9	4.3	2.7	3.5	3.1	3.9	4.2
	4H	2.6	3.6	3.1	4.0	4.4	2.6	3.6	3.1	4.0	4.4
	6H	2.3	4.0	2.8	4.5	4.9	2.3	4.0	2.8	4.4	4.9
	8H	2.2	4.1	2.7	4.6	5.1	2.2	4.1	2.7	4.6	5.1
	12H	2.1	4.1	2.6	4.6	5.1	2.1	4.0	2.6	4.5	5.0
8H	4H	2.2	4.1	2.7	4.6	5.1	2.2	4.1	2.7	4.6	5.1
	6H	2.2	3.9	2.7	4.4	4.9	2.2	3.9	2.7	4.4	4.9
	8H	2.2	3.7	2.7	4.1	4.7	2.2	3.7	2.7	4.1	4.7
	12H	2.4	3.4	2.9	3.9	4.4	2.3	3.3	2.8	3.8	4.4
12H	4H	2.1	4.0	2.6	4.5	5.0	2.1	4.1	2.6	4.6	5.1
	6H	2.2	3.6	2.7	4.1	4.6	2.2	3.7	2.8	4.2	4.7
	8H	2.3	3.3	2.8	3.8	4.4	2.4	3.4	2.9	3.9	4.4
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	