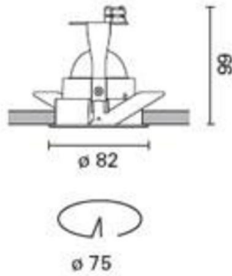


Laser Pinhole

Design iGuzzini

iGuzzini

Last information update: May 2018



fixed recessed WW

Product code
P413

Technical description

Round fixed 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. 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)
Ø82x99

Colour
White (01)

Weight (Kg)
0.38

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: P413

Product characteristics

Total lighting output [Lm]: 492
Total power [W]: 10
Luminous efficacy [Lm/W]: 49.2
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: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 41
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 10
Nominal luminous [Lm]: 1200
Lamp maximum intensity [cd]: /
Beam angle [°]: 22°

Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 0
Colour temperature [K]: 3000
CRI: 90
Wavelength [Nm]: /
MacAdam Step: 2

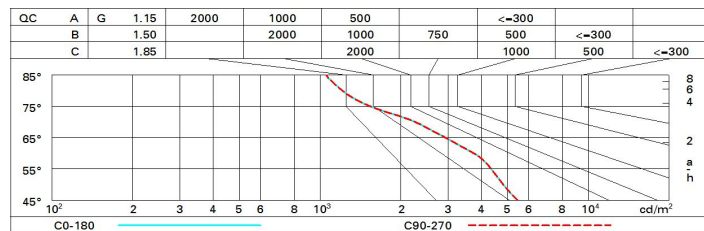
Polar

Imax=3398 cd		CIE		Lux			
90°	180°	nL 0.41	98-100-100-100-41	h	d	Em	Emax
		UGR <10-10	DIN	2	0.8	684	849
		A.61	UTE	4	1.6	171	212
		0.41A+0.00T	F*1=985	6	2.3	76	94
		F*1+F*2=996	F*1+F*2+F*3=999	8	3.1	43	53
		CIBSE	LG3 L<3000 cd/m² at 65°				
		UGR<10 L<3000 cd/mq @65°					
α=22°							

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	37	35	33	32	34	33	33	32	77
1.0	38	37	35	34	36	35	35	34	82
1.5	40	39	38	37	39	38	37	36	88
2.0	42	41	40	39	40	39	39	38	92
2.5	42	42	41	41	41	41	40	39	95
3.0	43	42	42	42	42	41	41	40	97
4.0	44	43	43	43	42	42	42	41	99
5.0	44	44	43	43	43	43	42	41	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1200 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		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
		viewed crosswise					viewed endwise				
2H	2H	5.7	7.8	6.1	8.1	8.5	5.7	7.8	6.1	8.1	8.5
	3H	6.4	7.8	6.7	8.2	8.5	6.0	7.5	6.4	7.8	8.2
	4H	6.5	7.7	6.9	8.0	8.3	6.1	7.3	6.5	7.6	7.9
	6H	6.6	7.4	7.0	7.7	8.1	6.2	6.9	6.5	7.3	7.6
	8H	6.6	7.4	7.0	7.8	8.1	6.1	6.9	6.5	7.3	7.6
	12H	6.6	7.4	7.0	7.8	8.2	6.1	6.9	6.5	7.3	7.6
4H	2H	6.1	7.3	6.5	7.6	7.9	6.5	7.7	6.9	8.0	8.3
	3H	6.9	7.7	7.3	8.1	8.4	6.9	7.8	7.3	8.1	8.5
	4H	7.0	7.9	7.4	8.3	8.7	7.0	7.9	7.4	8.3	8.7
	6H	6.8	8.5	7.2	8.9	9.4	6.7	8.4	7.2	8.9	9.3
	8H	6.7	8.6	7.2	9.1	9.6	6.6	8.5	7.1	9.0	9.5
	12H	6.6	8.6	7.2	9.1	9.6	6.5	8.5	7.0	9.0	9.5
8H	4H	6.6	8.5	7.1	9.0	9.5	6.7	8.6	7.2	9.1	9.6
	6H	6.7	8.5	7.2	9.0	9.5	6.8	8.5	7.3	9.0	9.5
	8H	6.8	8.3	7.4	8.8	9.3	6.8	8.3	7.4	8.8	9.3
	12H	7.0	8.0	7.5	8.5	9.1	7.0	8.0	7.5	8.5	9.0
12H	4H	6.5	8.5	7.0	9.0	9.5	6.6	8.6	7.2	9.1	9.6
	6H	6.8	8.2	7.3	8.7	9.3	6.9	8.3	7.4	8.8	9.3
	8H	7.0	8.0	7.5	8.5	9.0	7.0	8.0	7.5	8.5	9.1
Variations with the observer position at spacing:											
S =	1.0H	0.4 / -0.5					0.4 / -0.5				
	1.5H	0.8 / -1.3					0.8 / -1.3				
	2.0H	1.6 / -2.1					1.6 / -2.1				