Laser Pinhole

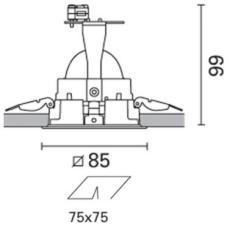
Design iGuzzini **iGuzzini**

Last information update: May 2018

fixed recessed WW

Product code
P422

Technical description
Square fixed 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. Flood 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)
85x99

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: P422

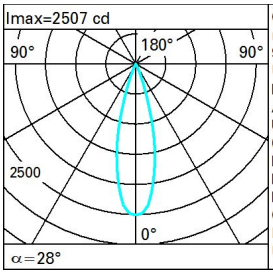
Product characteristics

Total lighting output [Lm]: 562	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 10	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 56.2	Voltage [V]: -
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 49	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 0
Nominal power [W]: 10	Colour temperature [K]: 2700
Nominal luminous [Lm]: 1150	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 28°	MacAdam Step: 2

Polar



CIE
nL 0.49
99-100-100-100-49
UGR <10-<10
DIN
A.61
UTE
0.49A+0.00T
F"1=992
F"1+F"2=998
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 I L<1500 cd/mq @65°

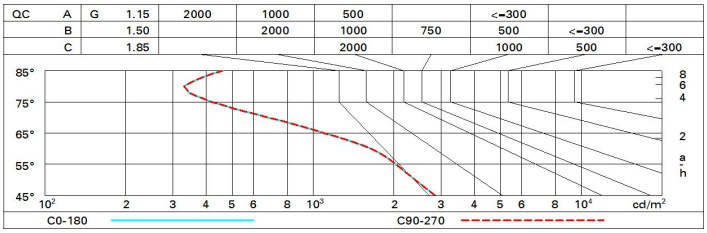
Lux

h	d	Em	Emax
2	1	493	627
4	2	123	157
6	3	55	70
8	4	31	39

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	44	42	40	39	41	40	40	38	78
1.0	46	44	42	41	43	42	42	40	82
1.5	48	47	45	44	46	45	45	43	88
2.0	50	49	48	47	48	47	47	45	93
2.5	51	50	49	49	49	48	48	47	96
3.0	51	51	50	50	50	49	49	48	98
4.0	52	51	51	51	51	50	50	48	99
5.0	52	52	52	51	51	51	50	49	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 1150 lm bare lamp luminous flux)

Riflect.: ceil/cav		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				viewed crosswise					viewed endwise		
x	y										
2H	2H	1.4	3.5	1.8	3.9	4.2	1.4	3.5	1.8	3.9	4.2
	3H	1.6	3.3	2.0	3.6	3.9	1.5	3.2	1.9	3.5	3.9
	4H	1.6	3.0	2.0	3.3	3.6	1.6	2.9	1.9	3.3	3.6
	6H	1.6	2.6	2.0	3.0	3.3	1.6	2.5	1.9	2.9	3.2
	8H	1.6	2.6	2.0	2.9	3.3	1.5	2.5	1.9	2.8	3.2
	12H	1.6	2.5	2.0	2.9	3.3	1.5	2.4	1.9	2.8	3.2
4H	2H	1.6	2.9	1.9	3.3	3.6	1.6	3.0	2.0	3.3	3.6
	3H	1.9	2.8	2.3	3.2	3.6	1.9	2.8	2.3	3.2	3.5
	4H	1.9	2.8	2.3	3.1	3.5	1.9	2.8	2.3	3.1	3.5
	6H	1.5	3.2	2.0	3.7	4.1	1.5	3.2	2.0	3.6	4.1
	8H	1.4	3.3	1.9	3.8	4.3	1.4	3.3	1.9	3.8	4.3
	12H	1.3	3.3	1.9	3.8	4.3	1.3	3.3	1.8	3.7	4.3
8H	4H	1.4	3.3	1.9	3.8	4.3	1.4	3.3	1.9	3.8	4.3
	6H	1.3	3.2	1.9	3.7	4.2	1.4	3.2	1.9	3.7	4.2
	8H	1.4	3.0	1.9	3.5	4.0	1.4	3.0	1.9	3.5	4.0
	12H	1.6	2.7	2.1	3.2	3.7	1.5	2.7	2.0	3.2	3.7
12H	4H	1.3	3.3	1.8	3.7	4.3	1.3	3.3	1.9	3.8	4.3
	6H	1.3	3.0	1.9	3.5	4.0	1.4	3.0	1.9	3.5	4.1
	8H	1.5	2.7	2.0	3.2	3.7	1.6	2.7	2.1	3.2	3.7

Variations with the observer position at spacing:

S =			
1.0H	1.5 / -1.0		1.5 / -1.0
1.5H	3.0 / -2.4		3.0 / -2.4
2.0H	4.6 / -4.1		4.6 / -4.1