Design iGuzzini

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Last information update: May 2018

#### fixed recessed WW

Product code P412

#### Technical description

Round 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)		
Ø82x99		

Colour White (01)



ø 82

)

8

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.



#### Product configuration: P412

#### Product characteristics

Total lighting output [Lm]: 539 Total power [W]: 10 Luminous efficacy [Lm/W]: 53.9 Life Time: > 50,000h - L80 - B10 (Ta 25°C)

# Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 47 Lamp code: LED ZVEI Code: LED Nominal power [W]: 10 Nominal luminous [Lm]: 1150 Lamp maximum intensity [cd]: / Beam angle [°]: 28° Total luminous flux at or above an angle of 90° [Lm]: 0 Emergency luminous flux [Lm]: / Voltage [V]: -Number of optical assemblies: 1

Complies with EN60598-1 and pertinent regulations

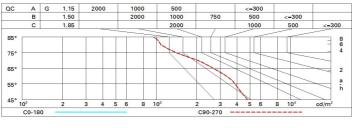
Number of lamps for optical assembly: 1 Socket: / Ballast losses [W]: 0 Colour temperature [K]: 2700 CRI: 90 Wavelength [Nm]: / MacAdam Step: 2

Imax=2486 cd	CIE	Lux			
90°	1 nL 0.47 90° 99-100-100-100-47 UGB <10-<10	h	d	Em	Emax
	DIN A.61 UTE	2	1	485	622
2500	0.47A+0.00T F"1=988	4	2	121	155
25000	F"1+F"2=997 F"1+F"2+F"3=1000 CIBSE	6	3	54	69
α=28°	LG3 L<3000 cd/m <sup>2</sup> at 65 UGR<10   L<3000 cd/mq	° @65° 8	4	30	39

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	42	40	38	37	39	38	38	36	78
1.0	44	42	41	39	42	40	40	38	82
1.5	46	45	44	43	44	43	43	41	88
2.0	48	47	46	45	46	45	45	43	92
2.5	49	48	47	46	47	46	46	45	95
3.0	49	49	48	48	48	47	47	46	97
4.0	50	49	49	49	49	48	48	46	99
5.0	50	50	49	49	49	49	48	47	100

# Luminance curve limit



## UGR diagram

Rifle	et ·										
ceil/c		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls work pl.		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
Room dim				viewed			0.000.000		viewed		0000
x	У		c	eiweeot	е				endwise	e.	
2H	2H	4.7	6.8	5.1	7.2	7.5	4.7	6.8	5.1	7.2	7.5
	ЗН	5.3	7.0	5.7	7.3	7.7	5.0	6.6	5.4	7.0	7.3
	4H	5.5	6.8	5.9	7.2	7.5	5.1	6.4	5.5	6.7	7.1
	6H	5.6	6.6	6.0	6.9	7.2	5.1	6.1	5.5	6.4	6.8
	BH	5.6	6.5	6.0	6.9	7.3	5.1	6.0	5.5	6.4	6.7
	12H	5.6	6.5	6.0	6.9	7.2	5.0	6.0	5.4	6.3	6.7
4H	2H	5.1	6.4	5.5	6.7	7.1	5.5	6.8	5.9	7.2	7.5
	ЗH	5.9	6.8	6.3	7.2	7.5	5.9	6.9	6.3	7.2	7.6
	4H	6.0	6.9	6.4	7.3	7.7	6.0	6.9	6.4	7.3	7.7
	6H	5.8	7.5	6.3	7.9	8.4	5.7	7.4	6.2	7.9	8.3
	8H	5.7	7.6	6.2	8.1	8.6	5.6	7.5	6.1	0.8	8.5
	12H	5.7	7.6	6.2	8.1	0.8	5.5	7.5	6.0	0.8	8.5
вн	4H	5.6	7.5	6.1	8.0	8.5	5.7	7.6	6.2	8.1	8.6
	6H	5.7	7.5	6.2	0.8	0.8	5.8	7.6	6.3	8.1	8.6
	8H	5.8	7.4	6.3	7.9	8.5	5.8	7.4	6.3	7.9	8.5
	12H	6.0	7.1	6.5	7.6	8.2	6.0	7.1	6.5	7.6	8.1
12H	4H	5.5	7.5	6.0	8.0	8.5	5.7	7.6	6.2	8.1	8.6
	6H	5.7	7.4	6.3	7.8	8.4	5.8	7.4	6.3	7.9	8.5
	HS	6.0	7.1	6.5	7.6	8.1	6.0	7.1	6.5	7.6	8.2
Varia	tions wi	th the ol	bserverp	osition	at spacir	ng:	0.0				
S =	1.0H	0.6 / -0.5					0.6 / -0.5				
	1.5H	1.3 / -1.3						1	.3 / -1	.3	