Design iGuzzini

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Last information update: May 2018



recessed adjustable

Product code

P416

Technical description

Round 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. Flood 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.



Dimension (mm) Ø82x100

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.

















Product configuration: P416

Product characteristics

Total lighting output [Lm]: 447 Total power [W]: 10

Luminous efficacy [Lm/W]: 44.7

Life Time: > 50,000h - L80 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0

Complies with EN60598-1 and pertinent regulations

Emergency luminous flux [Lm]: /

Voltage [V]: Number of optical assemblies: 1

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 [°]: 26°

Number of lamps for optical assembly: 1

Socket: /

Ballast losses [W]: 0 Colour temperature [K]: 2700

CRI: 90

Wavelength [Nm]: / MacAdam Step: 2

Polar

lmax=2232 cd		Lux			
90° 180° 90°	nL 0.39 99-100-100-100-39	h	d	Em	Emax
	UGR <10-<10 DIN A.61 UTE	2	0.9	441	558
	0.39A+0.00T F"1=986	4	1.8	110	139
2500	F"1+F"2=996 F"1+F"2+F"3=1000	6	2.8	49	62
α=26°	LG3 L<3000 cd/m² at 65° UGR<10 L<3000 cd/mq @	₆₅ . 8	3.7	28	35

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	35	33	32	31	33	32	31	30	77
1.0	36	35	34	33	34	33	33	32	82
1.5	38	37	36	35	37	36	35	34	88
2.0	40	39	38	37	38	37	37	36	92
2.5	40	40	39	39	39	39	38	37	95
3.0	41	40	40	39	40	39	39	38	97
4.0	41	41	41	40	40	40	39	38	99
5.0	42	41	41	41	41	40	40	39	100

Luminance curve limit

C0-180					_				C90-2	70						_		
45° 10²	2	3	4	5	6	8	10 ³		2	3	4	5	6	8	104	_	cd/m²	
55°				+	T						1			1				a h
65°				+	+		+	_				1					-	2
75°					+			1		₹		1	_	_	+			4
85°		T		T	T	-			T	T	\top	П	T	_	T			8 6 4
С	1.8	5				_		2000				100	00		500)	<=3	00
В	1.5	0			2	000		1000	75	50		50	0		<=30	00		
C A	G 1.1	5	2000		1	000		500				<=3	00					

4H	/ I.	0.70 0.50 0.20 4.8 5.4 5.5 5.6 5.5 5.5 5.5 5.5	0.70 0.30 0.20 6.9 7.0 6.8 6.5 6.4	0.50 0.50 0.20 viewed crosswis 5.2 5.7 5.9 5.9 5.9 5.9 5.9		0.30 0.30 0.20 7.6 7.6 7.4 7.2 7.2 7.2	0.70 0.50 0.20 4.8 5.1 5.2 5.2 5.1 5.1 5.5	6.9 6.7 6.5 6.1 6.1 6.0	0.50 0.50 0.20 viewed endwise 5.2 5.5 5.5 5.5 5.5		7.6 7.4 7.1 6.8 6.8 7.4 7.5
walls work pl Room d x 2H 4H	2H 3H 4H 6H 8H 12H 2H 3H 4H 6H	0.50 0.20 4.8 5.4 5.5 5.6 5.5 5.5 5.5 5.5	0.30 0.20 6.9 7.0 6.8 6.5 6.5 6.4	0.50 0.20 viewed crosswis 5.2 5.7 5.9 5.9 5.9 5.9 5.9	0.30 0.20 e 7.3 7.3 7.1 6.8 6.8 6.8	7.6 7.6 7.4 7.2 7.2 7.2	0.50 0.20 4.8 5.1 5.2 5.2 5.1 5.1	0.30 0.20 6.9 6.7 6.5 6.1 6.1 6.0	0.50 0.20 viewed endwise 5.2 5.5 5.5 5.6 5.5 5.5	7.3 7.0 6.8 6.5 6.4 6.4	7.6 7.4 7.1 6.8 6.8 7.4
work pl Room d x 2H 4H	2H 3H 4H 6H 12H 2H 3H 4H 6H	0.20 4.8 5.4 5.5 5.6 5.5 5.5 5.5 5.5	0.20 6.9 7.0 6.8 6.5 6.5 6.4	0.20 viewed crosswis 5.2 5.7 5.9 5.9 5.9 5.9 5.5	7.3 7.3 7.1 6.8 6.8 6.8	7.6 7.6 7.4 7.2 7.2 7.2	4.8 5.1 5.2 5.2 5.1 5.1	6.9 6.7 6.5 6.1 6.1 6.0	0.20 viewed endwise 5.2 5.5 5.5 5.6 5.5 5.5	7.3 7.0 6.8 6.5 6.4 6.4	7.6 7.4 7.1 6.8 6.8 7.4
Room d x 2H 4H	2H 3H 4H 6H 12H 2H 3H 4H 6H	4.8 5.4 5.5 5.6 5.5 5.5 5.5 5.5	6.9 7.0 6.8 6.5 6.5 6.4	5.2 5.7 5.9 5.9 5.9 5.9 5.9	7.3 7.3 7.1 6.8 6.8 6.8	7.6 7.6 7.4 7.2 7.2 7.2	4.8 5.1 5.2 5.2 5.1 5.1	6.9 6.7 6.5 6.1 6.1 6.0	5.2 5.5 5.5 5.6 5.5 5.5 5.5	7.3 7.0 6.8 6.5 6.4 6.4	7.6 7.7 6.8 6.8
x 2H 4H	2H 3H 4H 6H 8H 12H 2H 3H 4H 6H	5.4 5.5 5.6 5.5 5.5 5.5 5.5	6.9 7.0 6.8 6.5 6.5 6.4 6.5 6.8	5.2 5.7 5.9 5.9 5.9 5.9 5.9	7.3 7.3 7.1 6.8 6.8 6.8	7.6 7.4 7.2 7.2 7.2 7.1	5.1 5.2 5.2 5.1 5.1	6.9 6.7 6.5 6.1 6.1 6.0	5.2 5.5 5.5 5.6 5.5 5.5 5.5	7.3 7.0 6.8 6.5 6.4 6.4	7.4 7.5 6.8 6.8 7.4
2H 4H	2H 3H 4H 6H 8H 12H 2H 3H 4H 6H	5.4 5.5 5.6 5.5 5.5 5.5 5.5	6.9 7.0 6.8 6.5 6.5 6.4 6.5 6.8	5.2 5.7 5.9 5.9 5.9 5.9 5.5 6.2	7.3 7.3 7.1 6.8 6.8 6.8	7.6 7.4 7.2 7.2 7.2 7.1	5.1 5.2 5.2 5.1 5.1	6.9 6.7 6.5 6.1 6.1 6.0	5.2 5.5 5.5 5.6 5.5 5.5 5.5	7.3 7.0 6.8 6.5 6.4 6.4	7.4 7.5 6.8 6.8 7.4
4H 8H	3H 4H 6H 8H 12H 2H 3H 4H 6H	5.4 5.5 5.6 5.5 5.5 5.5 5.5	7.0 6.8 6.5 6.5 6.4 6.5 6.8	5.7 5.9 5.9 5.9 5.9 5.5 6.2	7.3 7.1 6.8 6.8 6.8	7.6 7.4 7.2 7.2 7.2 7.1	5.1 5.2 5.2 5.1 5.1	6.7 6.5 6.1 6.1 6.0	5.5 5.6 5.5 5.5 5.5 5.5	7.0 6.8 6.5 6.4 6.4 7.1	7.4 7.1 6.8 6.8 6.8
4H	4H 6H 8H 12H 2H 3H 4H 6H	5.5 5.6 5.5 5.5 5.2 5.8 5.9	6.8 6.5 6.5 6.4 6.5 6.8	5.9 5.9 5.9 5.9 5.5 6.2	7.1 6.8 6.8 6.8	7.4 7.2 7.2 7.2 7.1	5.2 5.2 5.1 5.1	6.5 6.1 6.1 6.0	5.5 5.6 5.5 5.5 5.9	6.8 6.5 6.4 6.4	7.1 6.8 6.8 6.8
4H	6H 8H 12H 2H 3H 4H 6H	5.6 5.5 5.5 5.2 5.8 5.9	6.5 6.5 6.4 6.5 6.8	5.9 5.9 5.9 5.5 6.2	6.8 6.8 6.8	7.2 7.2 7.2 7.1	5.2 5.1 5.1 5.5	6.1 6.1 6.0	5.6 5.5 5.5 5.9	6.5 6.4 6.4 7.1	6.8 6.8 6.8
4H	2H 3H 4H 6H	5.5 5.5 5.2 5.8 5.9	6.5 6.4 6.5 6.8	5.9 5.9 5.5 6.2	6.8 6.8	7.2 7.2 7.1	5.1 5.1 5.5	6.1 6.0 6.8	5.5 5.5 5.9	6.4 6.4 7.1	6.8 6.8 7.4
4H	12H 2H 3H 4H 6H	5.5 5.2 5.8 5.9	6.4 6.5 6.8	5.9 5.5 6.2	8.6	7.2 7.1	5.1 5.5	6.8	5.5 5.9	7.1	7.4
4H	2H 3H 4H 6H	5.2 5.8 5.9	6.5	5.5 6.2	6.8	7.1	5.5	6.8	5.9	7.1	7.4
8Н	3H 4H 6H	5.8 5.9	6.8	6.2							
8H	4H 6H	5.9			7.1	7.5	5.0	0.0	0.3	7.2	7 8
8H	6Н	435	6.8	64			5.9	6.8	6.3	1.2	1.
8H		5.7		0.4	7.2	7.6	5.9	6.8	6.4	7.2	7.6
8Н	HS		7.4	6.2	7.8	8.3	5.6	7.3	6.1	7.8	8.2
8Н	100	5.6	7.5	6.1	0.8	8.5	5.5	7.4	6.0	7.9	8.4
	12H	5.5	7.5	6.1	0.8	8.5	5.4	7.4	5.9	7.9	8.8
	4H	5.5	7.4	6.0	7.9	8.4	5.6	7.5	6.1	0.8	8.8
	бН	5.6	7.4	6.1	7.9	8.4	5.6	7.4	6.1	7.9	8.8
	H8	5.7	7.3	6.2	7.8	8.3	5.7	7.3	6.2	7.8	8.3
	12H	5.9	7.0	6.4	7.5	0.8	5.8	6.9	6.3	7.4	8.0
12H	4H	5.4	7.4	5.9	7.9	8.4	5.5	7.5	6.1	0.8	8.8
	бН	5.6	7.2	6.1	7.7	8.2	5.7	7.3	6.2	7.8	8.3
	8H	5.8	6.9	6.3	7.4	0.8	5.9	7.0	6.4	7.5	8.0
		th the ol	bserverp	osition a	at spacir	ng:					
	1.0H			.3 / -0					.3 / -0.		
	1.5H 2.0H		0	.8 / -1.	.4			0	.8 / -1.	.4	