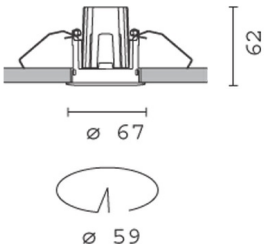
Laser

Design iGuzzini **iGuzzini**

Last information update: June 2018



Adjustable (tilting) round recessed luminaire - LED - flood

Product code
P328

Technical description
Round recessed luminaire with contact frame. Adjustable version that tilts by a maximum of 30°. The main swivel body is made of die-cast aluminium with a radiant surface that guarantees optimum heat dissipation. Metallised, thermoplastic, high definition reflector - flood optic (40°). Structure with die-cast aluminium external contact frame with a single white finish. Steel rotating parts. The ring inside the swivel body is made of thermoplastic available in a range of painted and metallised finishes. Safety glass included Quick and easy tool free assembly. High color rendering index 3,000K LED. Power unit available with a separate code no.

Installation
Recessed in a false ceiling by means of an anti-fall steel wire spring - minimum thickness of false ceiling: 1 mm - preparation hole Ø 59 mm.

Dimension (mm)
Ø67x62

Colour
White (01) | White/Brass (41) | Black/Black (43) | Black/White (47) | White/Chrome (E4) | (E7) | (E9)

Weight (Kg)
0.13

Mounting
wall recessed|ceiling recessed

Wiring
Direct current ballasts are available with a separate code no.: ON-OFF / 1-10V dimmable / DALI dimmable / Trailing Edge dimmable - the recessed fitting includes a cable and a quick-coupling connector to connect it to the connector on the ballast.

Notes
To reduce the glare caused by the internal wall of the recess when the luminaire has been rotated, a black, snap on accessory ring is available. A wide range of decorative accessories and diffusers is also available.

Complies with EN60598-1 and pertinent regulations

IP20 IP23 On the visible part of the product once installed

Product configuration: P328.01

Product characteristics

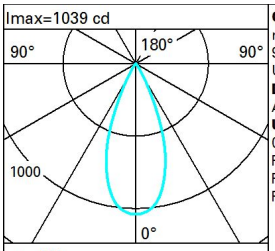
Total lighting output [Lm]: 483	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 7.5	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 64.3	Voltage [V]: -
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 70	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 0
Nominal power [W]: 7.5	Colour temperature [K]: 3000
Nominal luminous [Lm]: 690	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 42°	MacAdam Step: 3

Polar

Imax=1039 cd



α = 42°

CIE
nL 0.70
98-100-100-100-70
UGR 12.0-12.0
DIN
A.61
UTE
0.70A+0.00T
F"1=978
F"1+F"2=995
F"1+F"2+F"3=1000

Lux

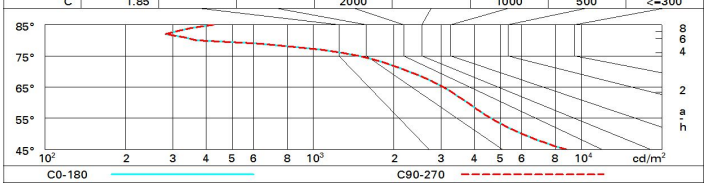
h	d	Em	Emax
1	0.8	812	1039
2	1.5	203	260
3	2.3	90	115
4	3.1	51	65

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	63	59	57	55	59	56	56	54	77
1.0	65	62	60	58	62	60	59	57	82
1.5	69	66	65	63	66	64	63	61	88
2.0	71	69	68	67	68	67	66	64	92
2.5	72	71	70	69	70	69	68	66	95
3.0	73	72	72	71	71	71	70	68	97
4.0	74	73	73	72	72	72	71	69	99
5.0	75	74	74	73	73	73	71	70	100

Luminance curve limit

QC		G								
	A		1.15	2000	1000	500		<=300		
	B		1.50		2000	1000	750	500	<=300	
	C		1.85			2000		1000	500	<=300



C0-180 C90-270

UGR diagram

Corrected UGR values (at 690 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					viewed		
x	y			crosswise					endwise		
2H	2H	12.1	12.7	12.3	12.9	13.1	12.1	12.7	12.3	12.9	13.1
	3H	12.1	12.7	12.4	12.9	13.2	12.0	12.6	12.3	12.8	13.1
	4H	12.1	12.6	12.4	12.9	13.2	12.0	12.5	12.3	12.8	13.1
	6H	12.0	12.5	12.4	12.8	13.1	11.9	12.4	12.3	12.7	13.0
	8H	12.0	12.4	12.4	12.8	13.1	11.9	12.3	12.3	12.7	13.0
	12H	12.0	12.4	12.3	12.7	13.1	11.9	12.3	12.2	12.6	13.0
4H	2H	12.0	12.5	12.3	12.8	13.1	12.1	12.6	12.4	12.9	13.2
	3H	12.1	12.5	12.5	12.9	13.2	12.1	12.5	12.5	12.9	13.2
	4H	12.1	12.4	12.5	12.8	13.2	12.1	12.4	12.5	12.8	13.2
	6H	12.0	12.3	12.4	12.7	13.1	12.0	12.3	12.4	12.7	13.2
	8H	12.0	12.3	12.4	12.7	13.1	12.0	12.3	12.4	12.7	13.1
	12H	11.9	12.2	12.4	12.6	13.1	11.9	12.2	12.4	12.6	13.1
8H	4H	12.0	12.3	12.4	12.7	13.1	12.0	12.3	12.4	12.7	13.1
	6H	11.9	12.1	12.4	12.6	13.1	11.9	12.1	12.4	12.6	13.1
	8H	11.8	12.1	12.3	12.5	13.0	11.8	12.1	12.3	12.5	13.0
	12H	11.8	12.0	12.3	12.5	13.0	11.8	12.0	12.3	12.5	13.0
12H	4H	11.9	12.2	12.4	12.6	13.1	11.9	12.2	12.4	12.6	13.1
	6H	11.8	12.1	12.3	12.5	13.0	11.8	12.1	12.3	12.5	13.0
	8H	11.8	12.0	12.3	12.5	13.0	11.8	12.0	12.3	12.5	13.0

Variations with the observer position at spacing:

S =	1.0H	4.7 / -4.3	4.7 / -4.3
	1.5H	7.4 / -5.4	7.4 / -5.4
	2.0H	9.3 / -6.3	9.3 / -6.3