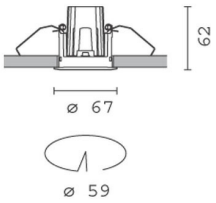
Laser

Design iGuzzini **iGuzzini**

Last information update: April 2024

Product configuration: P318
P318: Fixed round recessed luminaire - LED - flood



Product code
P318: Fixed round recessed luminaire - LED - flood

Technical description
Round recessed luminaire with contact frame. Fixed version. The LED is set back to minimize glare . The main 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. The internal ring 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.

Colour
White (01) | Black / Black (43) | Black / White (47) | White/Gold (41)* | White / Chrome (E4)* | White / burnished chrome (E7)* | White / gold satin-finish (E9)*

* Colours on request

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
A wide range of decorative accessories and diffusers is available.

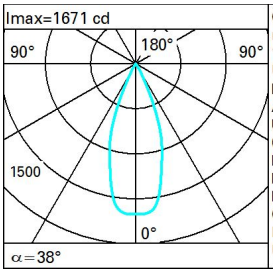
Complies with EN60598-1 and pertinent regulations

IP20 IP44 On the visible part of the product once installed

Technical data

lm system:	648	CRI (minimum):	90
W system:	6.8	Colour temperature [K]:	3000
lm source:	800	MacAdam Step:	2
W source:	6.8	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	95.3	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	81	Number of optical assemblies:	1
Beam angle [°]:	38°	LED current [mA]:	200

Polar



CIE
nL 0.81
100-100-100-100-81
UGR <10-<10
DIN
A.61
UTE
0.81A+0.00T
F"1=997
F"1+F"2=999
F"1+F"2+F"3=1000
CIBSE
LG3 L<1500 cd/m² at 65°
UGR<10 | L<1500 cd/mq @65°

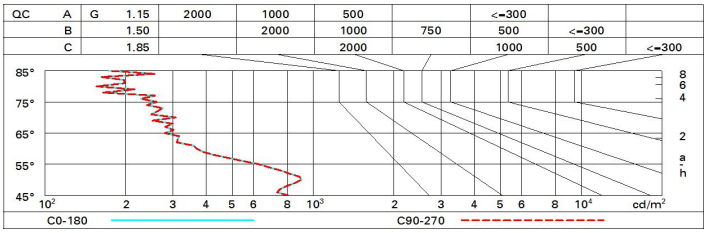
Lux

h	d	Em	Emax
2	1.4	332	417
4	2.8	83	104
6	4.1	37	46
8	5.5	21	26

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	69	67	65	69	66	66	63	78
1.0	76	73	71	69	72	70	70	67	83
1.5	80	78	76	74	77	75	74	72	89
2.0	83	81	79	78	80	78	77	75	93
2.5	84	83	82	81	82	81	80	78	96
3.0	85	84	83	83	83	82	81	79	98
4.0	86	85	85	84	84	84	82	80	99
5.0	87	86	86	85	85	84	83	81	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 800 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	5.9	6.4	6.1	6.6	6.9	5.9	6.4	6.1	6.6	6.9
	3H	5.7	6.2	6.0	6.5	6.8	5.7	6.2	6.0	6.5	6.8
	4H	5.7	6.1	6.0	6.4	6.7	5.7	6.1	6.0	6.4	6.7
	6H	5.6	6.0	5.9	6.3	6.7	5.6	6.0	5.9	6.3	6.6
	8H	5.6	6.0	5.9	6.3	6.6	5.5	6.0	5.9	6.3	6.6
	12H	5.5	5.9	5.9	6.3	6.6	5.5	5.9	5.9	6.2	6.6
4H	2H	5.7	6.1	6.0	6.4	6.7	5.7	6.1	6.0	6.4	6.7
	3H	5.5	5.9	5.9	6.3	6.6	5.5	5.9	5.9	6.3	6.6
	4H	5.4	5.8	5.8	6.2	6.5	5.4	5.8	5.8	6.2	6.5
	6H	5.4	5.7	5.8	6.1	6.5	5.4	5.7	5.8	6.1	6.5
	8H	5.3	5.6	5.8	6.0	6.5	5.3	5.6	5.8	6.0	6.4
	12H	5.3	5.5	5.7	6.0	6.4	5.3	5.5	5.7	5.9	6.4
8H	4H	5.3	5.6	5.8	6.0	6.4	5.3	5.6	5.8	6.0	6.5
	6H	5.2	5.5	5.7	5.9	6.4	5.2	5.5	5.7	5.9	6.4
	8H	5.2	5.4	5.7	5.8	6.3	5.2	5.4	5.7	5.8	6.3
	12H	5.1	5.3	5.6	5.8	6.3	5.1	5.3	5.6	5.8	6.3
12H	4H	5.3	5.5	5.7	5.9	6.4	5.3	5.5	5.7	6.0	6.4
	6H	5.2	5.4	5.7	5.8	6.3	5.2	5.4	5.7	5.9	6.3
	8H	5.1	5.3	5.6	5.8	6.3	5.1	5.3	5.6	5.8	6.3

Variations with the observer position at spacing:

S =			
	1.0H	6.5 / -11.2	6.5 / -11.2
	1.5H	9.3 / -12.8	9.3 / -12.8
	2.0H	11.3 / -13.1	11.3 / -13.1