Laser

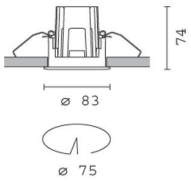
Design iGuzzini **iGuzzini**

Last information update: June 2018

Fixed round recessed luminaire - LED - wide flood

Product code
P342

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 - wide flood optic (42°). 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 2700K 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 75 mm.

Dimension (mm)
Ø83x74

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

Weight (Kg)
0.23

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

III IP20 IP44 On the visible part of the product once installed

Product configuration: P342.01

Product characteristics

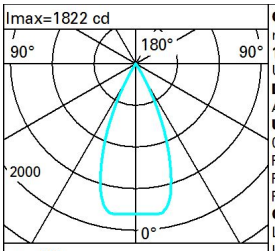
Total lighting output [Lm]: 930	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 10	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 93	Voltage [V]: -
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 81	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 [°]: 46°	MacAdam Step: 2

Polar

Imax=1822 cd



α = 46°

CIE
nL 0.81
100-100-100-100-81
UGR <10-<10
DIN
A.61
UTE
0.81A+0.00T
F"1=998
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

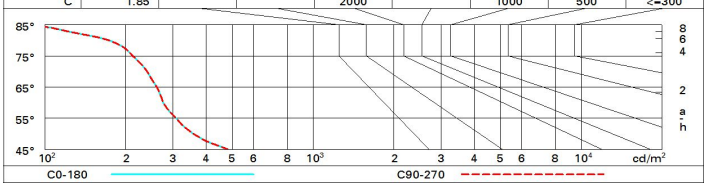
h	d	Em	Emax
2	1.7	370	451
4	3.4	92	113
6	5.1	41	50
8	6.8	23	28

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	70	69	72	70	70	67	83
1.5	80	77	76	74	77	75	74	72	89
2.0	82	81	79	78	80	78	77	75	93
2.5	84	83	82	81	81	80	80	77	96
3.0	85	84	83	82	83	82	81	79	98
4.0	86	85	85	84	84	84	82	80	99
5.0	86	86	86	85	85	84	83	81	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 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					viewed		
x	y			crosswise					endwise		
2H	2H	4.4	5.0	4.7	5.3	5.5	4.4	5.0	4.7	5.3	5.5
	3H	4.3	4.9	4.6	5.1	5.4	4.3	4.8	4.6	5.1	5.4
	4H	4.3	4.8	4.6	5.0	5.3	4.2	4.7	4.6	5.0	5.3
	6H	4.2	4.6	4.6	5.0	5.3	4.2	4.6	4.5	4.9	5.3
	8H	4.2	4.6	4.5	4.9	5.3	4.1	4.6	4.5	4.9	5.2
	12H	4.1	4.5	4.5	4.9	5.2	4.1	4.5	4.5	4.8	5.2
4H	2H	4.2	4.7	4.6	5.0	5.3	4.3	4.8	4.6	5.0	5.3
	3H	4.1	4.5	4.5	4.9	5.2	4.1	4.5	4.5	4.9	5.2
	4H	4.1	4.4	4.5	4.8	5.2	4.1	4.4	4.5	4.8	5.2
	6H	4.0	4.3	4.4	4.7	5.1	4.0	4.3	4.4	4.7	5.1
	8H	3.9	4.2	4.4	4.6	5.1	3.9	4.2	4.4	4.6	5.1
	12H	3.9	4.2	4.3	4.6	5.0	3.9	4.1	4.3	4.6	5.0
8H	4H	3.9	4.2	4.4	4.6	5.1	3.9	4.2	4.4	4.6	5.1
	6H	3.9	4.1	4.3	4.5	5.0	3.9	4.1	4.3	4.5	5.0
	8H	3.8	4.0	4.3	4.5	5.0	3.8	4.0	4.3	4.5	5.0
	12H	3.8	3.9	4.3	4.4	4.9	3.8	3.9	4.3	4.4	4.9
12H	4H	3.9	4.1	4.3	4.6	5.0	3.9	4.2	4.3	4.6	5.0
	6H	3.8	4.0	4.3	4.5	5.0	3.8	4.0	4.3	4.5	5.0
	8H	3.8	3.9	4.3	4.4	4.9	3.8	3.9	4.3	4.4	4.9

Variations with the observer position at spacing:

S =			
1.0H	6.7 / -11.3	6.7 / -11.3
1.5H	9.5 / -11.7	9.5 / -11.7
2.0H	11.5 / -12.0	11.5 / -12.0