# Laser

Design iGuzzini   **iGuzzini**

Last information update: November 2024

Product configuration: P311.01
P311.01: Fixed round mini-recessed luminaire - Minimal - LED - spot - White
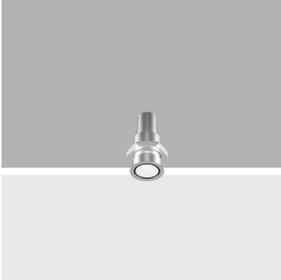
Product code
P311.01: Fixed round mini-recessed luminaire - Minimal - LED - spot - White

Technical description
Fixed round mini-recessed luminaire installed flush with ceiling (frameless). The LED is set back to minimize direct glare. The recessed body is made of machined aluminium and the inside of the ring of thermoplastic available in a range of painted and metallised finishes. PMMA - spot (16°) high resolution optic lens. LED 4000K. Power unit available with a separate code no.

Installation
For flush with ceiling installation, an adapter is fitted according to the thickness of the false ceiling (12.5 to 25 mm). The following filling and finishing operations are simplified by a special protection template, and the luminaire is recessed in the adapter and secured mechanically (the inside of the false ceiling musy be inspected first).

Colour	Weight (Kg)
White (01)	0.04

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

Complies with EN60598-1 and pertinent regulations

ø 20   61

ø 24

III   IP20   IP43   On the visible part of the product once installed   CE   UKCA   EAC
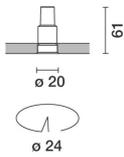
Technical data

lm system:	160	CRI (minimum):	80
W system:	2	Colour temperature [K]:	4000
lm source:	250	MacAdam Step:	2
W source:	2	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	80	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.) [%]:	64	Number of optical assemblies:	1
Beam angle [°]:	14°	LED current [mA]:	700

Polar

Imax=1756 cd

α=14°

Lux			
h	d	Em	Emax
2	0.5	336	439
4	1	84	110
6	1.4	37	49
8	1.9	21	27
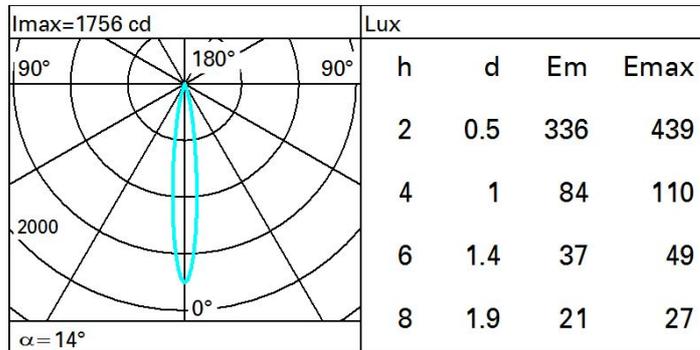
Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	57	53	51	49	53	51	50	48	75
1.0	59	56	54	52	56	54	53	51	80
1.5	62	60	58	57	59	58	57	55	86
2.0	65	63	62	60	62	61	60	58	91
2.5	66	65	64	63	64	63	62	60	94
3.0	67	66	65	64	65	64	63	62	96
4.0	68	67	66	66	66	65	64	63	98
5.0	68	68	67	67	66	66	65	63	99

Luminance curve limit

QC	A	G	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 – – – – – – – –