Design iGuzzini

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# Fixed round mini-recessed luminaire - Minimal - LED - medium

### Product code

P312

#### 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 - medium (25°) 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).

# Dimension (mm)

Ø20x61

### Colour

White (01) | Black (04)

## Weight (Kg)

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

#### Notes

The 25° optic is not available for the finishes: 10 (chrome) - 14 (gold) - E8 (satin finish gold) - E6 (burnished chrome)







On the visible part of the product once installed











# Product configuration: P312.01

### **Product characteristics**

Total lighting output [Lm]: 141 Total power [W]: 2

Luminous efficacy [Lm/W]: 70.4

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.) [%]: 67

Lamp code: LED ZVEI Code: LED

Nominal power [W]: 2 Nominal luminous [Lm]: 210 Lamp maximum intensity [cd]: /

Beam angle [°]: 24°

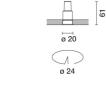
Number of lamps for optical assembly: 1

Socket: /

Ballast losses [W]: 0 Colour temperature [K]: 4000

CRI: 80

Wavelength [Nm]: / MacAdam Step: 3



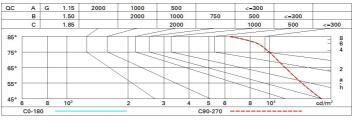
## Polar

Imax=755 cd CIE	Lux			
90°   180°   90° 96-98-100-100-67	h	d	Em	Emax
UGR 15.9-15.5 DIN A.61 UTE	1	0.4	600	755
0.67A+0.00T	2	0.9	150	189
750 F"1+F"2=985 F"1+F"2=987	3	1.3	67	84
α=24°	4	1.7	37	47

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	59	56	53	52	55	53	53	50	75
1.0	62	59	57	55	58	56	56	54	80
1.5	65	63	61	60	62	61	60	58	86
2.0	68	66	64	63	65	64	63	61	91
2.5	69	68	67	66	67	66	65	63	94
3.0	70	69	68	67	68	67	66	64	96
4.0	71	70	70	69	69	68	67	66	98
5.0	71	71	70	70	70	69	68	66	99

# Luminance curve limit



# UGR diagram

Riflect.:												
ceil/cav walls work pl. Room dim		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	
		viewed					viewed					
X	У	crosswise					endwise					
2H	2H	13.3	15.3	13.7	15.7	16.0	13.3	15.3	13.7	15.7	16.0	
	ЗН	14.4	16.0	14.8	16.3	16.6	13.7	15.2	14.1	15.5	15.9	
	4H	14.9	16.1	15.3	16.5	16.8	13.9	15.1	14.2	15.4	15.7	
	бН	15.3	16.2	15.7	16.5	16.9	13.9	14.8	14.3	15.1	15.5	
	ВН	15.4	16.3	15.8	16.6	17.0	13.9	14.8	14.3	15.1	15.5	
	12H	15.5	16.3	15.9	16.7	17.1	13.9	14.8	14.3	15.1	15.5	
4H	2H	13.9	15.1	14.2	15.4	15.7	14.9	16.1	15.3	16.5	16.8	
	ЗН	15.2	16.1	15.6	16.4	16.8	15.5	16.4	15.9	16.8	17.1	
	4H	15.7	16.6	16.2	17.0	17.4	15.7	16.6	16.2	17.0	17.4	
	бН	15.9	17.5	16.4	18.0	18.4	15.6	17.2	16.1	17.7	18.2	
	H8	15.9	17.8	16.4	18.3	18.7	15.5	17.4	16.0	17.9	18.4	
	12H	15.9	17.9	16.5	18.3	18.9	15.5	17.4	16.0	17.9	18.4	
вн	4H	15.5	17.4	16.0	17.9	18.4	15.9	17.8	16.4	18.3	18.7	
	бН	16.1	17.8	16.6	18.3	8.8	16.2	17.9	16.7	18.4	18.9	
	нв	16.4	17.8	16.9	18.3	18.9	16.4	17.8	16.9	18.3	18.9	
	12H	16.6	17.7	17.1	18.2	18.7	16.5	17.6	17.1	18.1	18.7	
12H	4H	15.5	17.4	16.0	17.9	18.4	15.9	17.9	16.5	18.3	18.9	
	бН	16.2	17.7	16.7	18.2	18.7	16.3	17.8	16.9	18.3	18.9	
	HS	16.5	17.6	17.1	18.1	18.7	16.6	17.7	17.1	18.2	18.7	
Varia	tions wi	th the ob	pserverp	osition	at spacin	g:						
S =	1.0H	0.2 / -0.2					0.2 / -0.2					
	1.5H	0.3 / -0.6					0.3 / -0.6					
	2.0H	0.6 / -0.9					0.6 / -0.9					