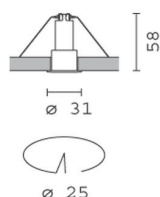
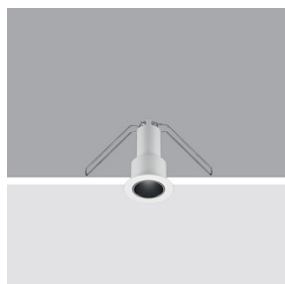


Last information update: February 2020

**Fixed round mini-recessed luminaire - LED - medium****Product code**

P310

Technical description

Fixed round mini-recessed luminaire with contact frame. 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. High color rendering index 2700K LED. Tool free assembly. Power unit available with a separate code no.

Installation

Recessed in a false ceiling by means of a steel wire spring - minimum thickness of false ceiling: 1 mm - preparation hole Ø 25 mm.

Dimension (mm)

Ø31x58

Colour

White (01) | Black / Black (43) | Black / White (47)

Weight (Kg)

0.03

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: E4 (white - chrome) - 41 (white - gold) - E9 (white - satin finish gold) - E7 (white - burnished chrome)

Complies with EN60598-1 and pertinent regulations



IP20

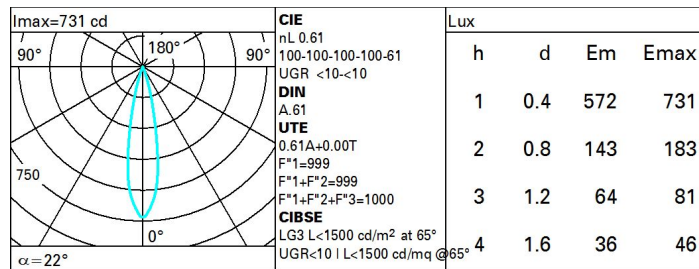
IP43

On the visible part of the product once installed

**Product configuration: P310.47****Technical data**

Im system:	104	Colour temperature [K]:	2700
W system:	2	MacAdam Step:	2
Im source:	170	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
W source:	2	Ballast losses [W]:	0
Luminous efficiency (Im/W, real value):	51.9	Lamp code:	LED
Im 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.) [%]:	61	Number of optical assemblies:	1
Beam angle [°]:	22°	LED Current:	700
CRI:	90		

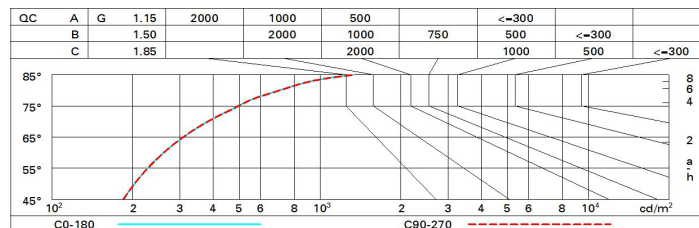
Polar



Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	55	52	50	49	52	50	50	48	78
1.0	58	55	53	52	54	53	52	51	83
1.5	60	58	57	56	58	56	56	54	89
2.0	62	61	60	59	60	59	58	57	93
2.5	63	62	61	61	61	61	60	58	96
3.0	64	63	63	62	62	62	61	60	98
4.0	65	64	64	64	63	63	62	61	99
5.0	65	65	65	64	64	64	63	61	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 170 lm bare lamp luminous flux)												
Reflect.: ceiling/cav walls work pl. Room dim x y		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
		viewed crosswise					viewed endwise					
2H	2H	-13.6	-11.5	-13.2	-11.1	-10.8	-13.6	-11.5	-13.2	-11.1	-10.8	
	3H	-10.7	-9.2	-10.3	-8.9	-8.5	-12.9	-11.4	-12.6	-11.1	-10.7	
	4H	-8.9	-7.8	-8.6	-7.4	-7.1	-12.5	-11.4	-12.2	-11.0	-10.7	
	6H	-7.0	-6.2	-6.6	-5.9	-5.5	-12.1	-11.3	-11.7	-11.0	-10.7	
	8H	-6.0	-5.2	-5.6	-4.8	-4.5	-12.0	-11.2	-11.6	-10.8	-10.5	
	12H	-4.9	-4.0	-4.5	-3.7	-3.3	-11.9	-11.1	-11.5	-10.7	-10.4	
4H	2H	-12.5	-11.4	-12.2	-11.0	-10.7	-8.9	-7.8	-8.6	-7.4	-7.1	
	3H	-9.3	-8.5	-8.9	-8.1	-7.8	-8.0	-7.1	-7.6	-6.8	-6.4	
	4H	-7.5	-6.6	-7.1	-6.2	-5.8	-7.5	-6.6	-7.1	-6.2	-5.8	
	6H	-5.8	-4.0	-5.3	-3.6	-3.1	-7.3	-5.5	-6.8	-5.1	-4.6	
	8H	-4.8	-2.8	-4.3	-2.3	-1.8	-7.1	-5.2	-6.6	-4.7	-4.2	
	12H	-3.6	-1.6	-3.1	-1.1	-0.6	-7.0	-5.0	-6.5	-4.5	-4.0	
8H	4H	-7.1	-5.2	-6.6	-4.7	-4.2	-4.8	-2.8	-4.3	-2.3	-1.8	
	6H	-4.8	-3.0	-4.3	-2.5	-2.0	-4.0	-2.2	-3.5	-1.7	-1.2	
	8H	-3.5	-2.0	-3.0	-1.5	-1.0	-3.5	-2.0	-3.0	-1.5	-1.0	
	12H	-1.9	-0.8	-1.4	-0.3	0.2	-2.9	-1.9	-2.4	-1.4	-0.8	
12H	4H	-7.0	-5.0	-6.5	-4.5	-4.0	-3.6	-1.6	-3.1	-1.1	-0.6	
	6H	-4.4	-2.9	-3.9	-2.4	-1.9	-2.6	-1.1	-2.0	-0.6	-0.0	
	8H	-2.9	-1.9	-2.4	-1.4	-0.8	-1.9	-0.8	-1.4	-0.3	0.2	
Variations with the observer position at spacing:												
S =	1.0H	0.1 / -0.2					0.1 / -0.2					
	1.5H	0.2 / -0.3					0.2 / -0.3					
	2.0H	0.3 / -0.4					0.3 / -0.4					