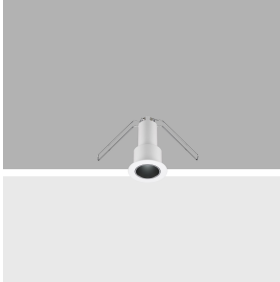


Last information update: November 2024

**Product configuration: P310.47**

P310.47: Fixed round mini-recessed luminaire - LED - medium - Black / White

**Product code**

P310.47: Fixed round mini-recessed luminaire - LED - medium - Black / White

**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.

**Colour**

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

**Technical data**

lm system:	110	CRI (minimum):	90
W system:	2	Colour temperature [K]:	2700
lm source:	180	MacAdam Step:	2
W source:	2	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	54.9	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.) [%]:	61	Number of optical assemblies:	1
Beam angle [°]:	22°	LED current [mA]:	700

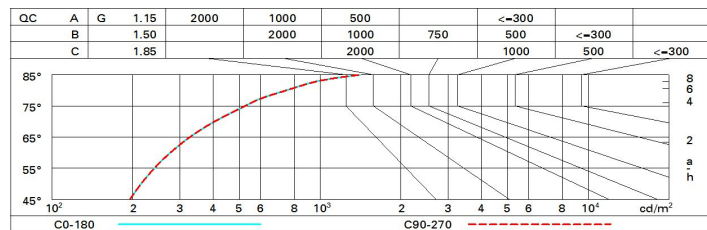
**Polar**

Imax=774 cd	CIE	Lux
90°	nL 0.61 100-100-100-100-61 UGR <10-<10	h d Em Emax
180°	DIN A.61 UTE 0.61A+0.00T F*1=999 F*1+F*2=999 F*1+F*2+F*3=1000	1 0.4 606 774
750	CIBSE LG3 L<1500 cd/m² at 65° UGR<10   L<1500 cd/mq @ 65°	2 0.8 151 193
0°		3 1.1 67 86
α=21°		4 1.5 38 48

# 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 180 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	-13.4	-11.3	-13.0	-10.9	-10.6	-13.4	-11.3	-13.0	-10.9	-10.6
	3H	-10.5	-9.0	-10.1	-8.7	-8.3	-12.7	-11.2	-12.4	-10.9	-10.5
	4H	-8.7	-7.6	-8.4	-7.2	-6.9	-12.3	-11.2	-12.0	-10.8	-10.5
	6H	-6.8	-6.0	-6.4	-5.7	-5.3	-11.9	-11.1	-11.5	-10.8	-10.5
	8H	-5.8	-5.0	-5.4	-4.6	-4.3	-11.8	-11.0	-11.4	-10.6	-10.3
	12H	-4.7	-3.8	-4.3	-3.5	-3.1	-11.7	-10.9	-11.3	-10.5	-10.2
4H	2H	-12.3	-11.2	-12.0	-10.8	-10.5	-8.7	-7.6	-8.4	-7.2	-6.9
	3H	-9.1	-8.3	-8.7	-7.9	-7.6	-7.8	-6.9	-7.4	-6.6	-6.2
	4H	-7.3	-6.4	-6.9	-6.0	-5.6	-7.3	-6.4	-6.9	-6.0	-5.6
	6H	-5.6	-3.8	-5.1	-3.4	-2.9	-7.1	-5.3	-6.6	-4.9	-4.4
	8H	-4.6	-2.6	-4.1	-2.1	-1.6	-6.9	-5.0	-6.4	-4.5	-4.0
	12H	-3.4	-1.4	-2.9	-0.9	-0.4	-6.8	-4.8	-6.3	-4.3	-3.8
8H	4H	-6.9	-5.0	-6.4	-4.5	-4.0	-4.6	-2.6	-4.1	-2.1	-1.6
	6H	-4.6	-2.8	-4.1	-2.3	-1.8	-3.8	-2.0	-3.3	-1.5	-1.0
	8H	-3.3	-1.8	-2.8	-1.3	-0.8	-3.3	-1.8	-2.8	-1.3	-0.8
	12H	-1.7	-0.6	-1.2	-0.1	0.4	-2.7	-1.7	-2.2	-1.2	-0.6
12H	4H	-6.8	-4.8	-6.3	-4.3	-3.8	-3.4	-1.4	-2.9	-0.9	-0.4
	6H	-4.2	-2.7	-3.7	-2.2	-1.7	-2.4	-0.9	-1.8	-0.4	0.2
	8H	-2.7	-1.7	-2.2	-1.2	-0.6	-1.7	-0.6	-1.2	-0.1	0.4
Variations with the observer position at spacing:											
S =		1.0H					0.1 / -0.2				
		1.5H					0.2 / -0.3				
		2.0H					0.3 / -0.4				