

Last information update: April 2025

Product configuration: RA20.47

RA20.47: Fixed round recessed luminaire - LED - medium - Super Comfort - 17W 1921lm - 3500K - CRI 90 - Black / White

**Product code**

RA20.47: Fixed round recessed luminaire - LED - medium - Super Comfort - 17W 1921lm - 3500K - CRI 90 - Black / White

Technical description

Round recessed luminaire with contact frame. Fixed Super Comfort version: the LEDs are set a long way back to minimize glare and guarantee a high level of visual comfort. The main body is made of die-cast aluminium with a radiant surface that guarantees optimum heat dissipation. Metallised, thermoplastic, high definition reflector - medium optic. 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 3500K 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 96 mm.

Colour

Black / White (47)

Weight (Kg)

0.38

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



IP20

IP44

On the visible part of the product once installed

**Technical data**

Im system:	1876	CRI (minimum):	90
W system:	17	Colour temperature [K]:	3500
Im source:	2260	MacAdam Step:	2
W source:	17	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (Im/W, real value):	110.3	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.) [%]:	83	Number of optical assemblies:	1
Beam angle [°]:	18°	LED current [mA]:	500

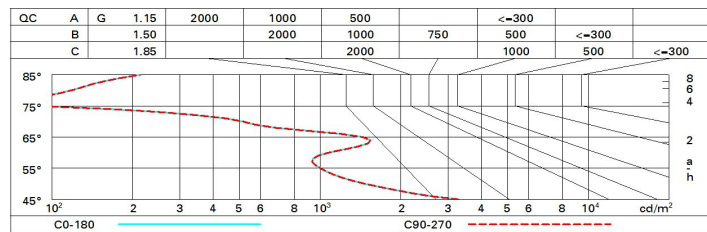
Polar

	CIE nL 0.83 100-100-100-100-83 UGR <10-10 DIN A.61 UTE 0.83A+0.00T F*1=996 F*1.4F*2=999 F*1.4F*2+F*3=1000 CIBSE LG3 L<1500 cd/m² at 65° UGR<10 L<1500 cd/mq @65°			
	h	d	Em	E _{max}
	2	0.6	2194	2753
	4	1.2	548	688
	6	1.9	244	306
α = 18°	8	2.5	137	172

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	75	71	68	66	70	68	67	65	78
1.0	78	75	72	70	74	72	71	69	83
1.5	82	79	77	76	78	77	76	73	88
2.0	85	83	81	80	82	80	79	77	93
2.5	86	85	84	83	84	82	82	79	96
3.0	87	86	85	85	85	84	83	81	98
4.0	88	87	87	86	86	86	84	82	99
5.0	89	88	88	88	87	86	85	83	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 2260 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
		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
2H	2H	5.2	7.3	5.6	7.6	7.9	5.2	7.3	5.6	7.6	7.9
	3H	5.1	6.7	5.5	7.0	7.4	5.1	6.7	5.5	7.0	7.4
	4H	5.1	6.4	5.4	6.7	7.1	5.1	6.4	5.4	6.7	7.0
	6H	5.0	6.1	5.4	6.4	6.7	5.0	6.0	5.4	6.4	6.7
	8H	5.0	6.0	5.4	6.4	6.7	5.0	6.0	5.4	6.3	6.7
	12H	4.9	6.0	5.3	6.3	6.7	4.9	5.9	5.3	6.3	6.7
4H	2H	5.1	6.4	5.4	6.7	7.0	5.1	6.4	5.4	6.7	7.1
	3H	5.0	6.0	5.4	6.4	6.8	5.0	6.0	5.4	6.4	6.8
	4H	4.9	5.9	5.3	6.3	6.7	4.9	5.9	5.3	6.3	6.7
	6H	4.5	6.2	5.0	6.7	7.1	4.5	6.2	5.0	6.7	7.1
	8H	4.4	6.3	4.9	6.7	7.2	4.4	6.3	4.9	6.7	7.2
	12H	4.3	6.2	4.8	6.7	7.2	4.3	6.2	4.8	6.7	7.2
8H	4H	4.4	6.3	4.9	6.7	7.2	4.4	6.3	4.9	6.7	7.2
	6H	4.3	6.1	4.8	6.5	7.1	4.3	6.1	4.8	6.6	7.1
	8H	4.3	5.8	4.8	6.3	6.9	4.3	5.8	4.8	6.3	6.9
	12H	4.4	5.4	5.0	5.9	6.4	4.4	5.4	5.0	5.9	6.4
12H	4H	4.3	6.2	4.8	6.7	7.2	4.3	6.2	4.8	6.7	7.2
	6H	4.3	5.8	4.8	6.3	6.9	4.3	5.8	4.8	6.3	6.9
	8H	4.4	5.4	5.0	5.9	6.4	4.4	5.4	5.0	5.9	6.4
Variations with the observer position at spacing:											
S =	1.0H	5.5 / -9.0					5.5 / -9.0				
	1.5H	8.2 / -9.0					8.2 / -9.0				
	2.0H	10.2 / -11.0					10.2 / -11.0				