

Last information update: January 2025

Product configuration: RR12

RR12: Dimmable electronic Ø102mm body - Wide Flood optic - Neutral White

**Product code**

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Technical description

Adjustable spotlight with adapter for installation on an electrified track or base. High chromatic yield LED lamp with Neutral White (4000K) tone and OptiBeam Lens optic system and Wide Flood optic. Dimmable electronic power supply integrated in product with Tool Free manual dimmer. Luminaire made of die-cast aluminium and thermoplastic material that allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane with mechanical aiming locks. Passive heat dissipation. Spotlight with "Push&Go" system designed to hold up to two flat accessories at the same time. The same system can also be used to apply another external component selected from the directional flaps and anti-glare screen. All internal accessories rotate 360° about the spotlight longitudinal axis.

Installation

Installation on an electrified track or base.

Colour

White (01) | Black (04)

Weight (Kg)

1.33

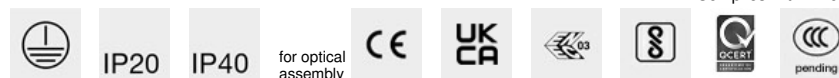
Mounting

wall surface|ceiling surface

Wiring

Electronic components integrated in product

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	1643	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	19.9	Lamp code:	LED
lm source:	1980	Number of lamps for optical assembly:	1
W source:	18	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	82.6	Number of optical assemblies:	1
lm in emergency mode:	-	Power factor:	See installation instructions
Total light flux at or above an angle of 90° [Lm]:	0	Inrush current:	5 A / 50 µs
Light Output Ratio (L.O.R.) [%]:	83	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 31 luminaires B16A: 50 luminaires C10A: 52 luminaires C16A: 85 luminaires
Beam angle [°]:	46°	Minimum dimming %:	1
CRI (minimum):	97	Overvoltage protection:	4kV Common mode & 2kV Differential mode
Colour temperature [K]:	4000	Control:	Completo di dimmer
MacAdam Step:	2		

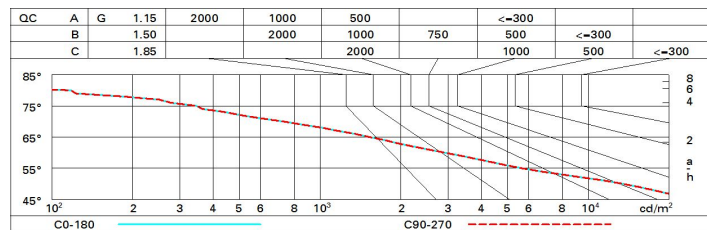
Polar

 Imax=2626 cd 90° 180° 90° 2500 0° α=46°	CIE nL 0.83 94-100-100-100-83 UGR 17.1-17.1 DIN A.61 UTE 0.83A+0.00T F*1=944 F*1+F*2=997 F*1+F*2+F*3=1000 CIBSE LG3 L<3000 cd/m² at 65° UGR<19 L<3000 cd/mq @65°				Lux			
	h	d	Em	Emax				
	2	1.7	497	657				
	4	3.4	124	164				
	6	5.1	55	73				
	8	6.8	31	41				

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	68	65	63	68	65	65	62	74
1.0	76	73	70	68	72	69	69	66	79
1.5	81	78	76	74	77	75	74	72	86
2.0	84	82	80	78	80	79	78	76	91
2.5	85	84	82	81	83	81	80	78	94
3.0	87	85	84	83	84	83	82	80	96
4.0	88	87	86	85	85	85	83	81	98
5.0	88	88	87	87	86	86	84	82	99

Luminance curve limit



UGR diagram

Corrected UGR values (at 1980 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
		0.50	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 crosswise					viewed endwise				
2H	2H	17.7	18.3	18.0	18.5	18.8	17.7	18.3	18.0	18.5	18.8
	3H	17.6	18.1	17.9	18.4	18.7	17.6	18.1	17.9	18.4	18.7
	4H	17.5	18.0	17.8	18.3	18.6	17.5	18.0	17.8	18.3	18.6
	6H	17.4	17.9	17.8	18.2	18.5	17.4	17.9	17.8	18.2	18.5
	8H	17.4	17.8	17.7	18.1	18.5	17.4	17.8	17.7	18.2	18.5
	12H	17.3	17.8	17.7	18.1	18.5	17.3	17.8	17.7	18.1	18.5
4H	2H	17.5	18.0	17.8	18.3	18.6	17.5	18.0	17.8	18.3	18.6
	3H	17.4	17.8	17.7	18.1	18.5	17.3	17.8	17.7	18.1	18.5
	4H	17.3	17.6	17.7	18.0	18.4	17.3	17.6	17.7	18.0	18.4
	6H	17.2	17.5	17.6	17.9	18.3	17.2	17.5	17.6	17.9	18.3
	8H	17.1	17.4	17.6	17.9	18.3	17.1	17.4	17.6	17.9	18.3
	12H	17.1	17.4	17.5	17.8	18.2	17.1	17.4	17.5	17.8	18.2
8H	4H	17.1	17.4	17.6	17.9	18.3	17.1	17.4	17.6	17.9	18.3
	6H	17.0	17.3	17.5	17.7	18.2	17.0	17.3	17.5	17.7	18.2
	8H	17.0	17.2	17.5	17.7	18.2	17.0	17.2	17.5	17.7	18.2
	12H	16.9	17.1	17.4	17.6	18.1	16.9	17.1	17.4	17.6	18.1
12H	4H	17.1	17.4	17.5	17.8	18.2	17.1	17.4	17.5	17.8	18.2
	6H	17.0	17.2	17.5	17.7	18.2	17.0	17.2	17.5	17.7	18.2
	8H	16.9	17.1	17.4	17.6	18.1	16.9	17.1	17.4	17.6	18.1
Variations with the observer position at spacing:											
S =	1.0H	4.1 / -8.9					4.1 / -8.9				
	1.5H	6.8 / -13.9					6.8 / -13.9				
	2.0H	8.8 / -17.5					8.8 / -17.5				