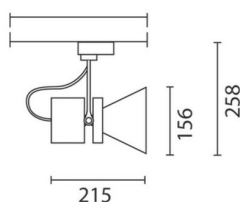
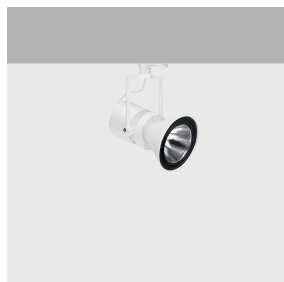


Last information update: May 2024

Product configuration: MR21

MR21: Medium body spotlight - Neutral white - electronic ballast and dimmer - wide flood optic

**Product code**MR21: Medium body spotlight - Neutral white - electronic ballast and dimmer - wide flood optic **Attention! Code no longer in production****Technical description**

Adjustable spotlight with adapter for installation on mains electrified track for high output LED lamp with monochrome emission in a neutral white (4000K) colour. Dimmable electronic ballast. The luminaire is made of die-cast aluminium and thermoplastic material, and allows 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. The luminaire has mechanical aiming locks and graduated scales for both movements, operated using the same tool on two screws, one on the optic compartment and one on the adapter for the track. Spotlight equipped with accessory holding ring designed to contain a flat accessory. Another external component can also be applied, selected from directional flaps and an asymmetric screen. All external accessories rotate 360° about the spotlight longitudinal axis.

Installation

On an electrified track

Colour

White (01) | Grey / Black (74)

Weight (Kg)

0.9

Mounting

three circuit track

Wiring

The dimmable electronic components are housed in the luminaire.

Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	2479	CRI (minimum):	80
W system:	23.9	Colour temperature [K]:	4000
Im source:	3400	MacAdam Step:	2
W source:	20	Life Time LED 1:	50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (Im/W, 103.7 real value):		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.) [%]:	73	Number of optical assemblies:	1
Beam angle [°]:	48°	Control:	Completo di dimmer

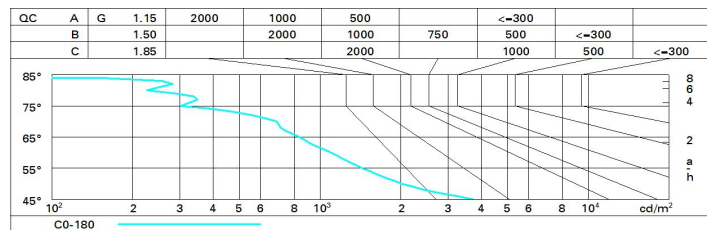
Polar

 Imax=4127 cd 90° 180° 90° 4000 0° α=48°	CIE nL 0.73 99-100-100-100-73 UGR 14.4-14.4 DIN A.61 UTE 0.73A+0.00T F*1=999 F*1+F*2=998 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m² at 65° UGR<16 L<1500 cd/mq @65°	Lux			
		h	d	Em	E _{max}
		2	1.8	811	1032
		4	3.6	203	258
		6	5.3	90	115
		8	7.1	51	64

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	62	60	58	62	59	59	57	78
1.0	68	65	63	61	65	63	62	60	82
1.5	72	70	68	66	69	67	66	64	88
2.0	74	73	71	70	71	70	70	68	93
2.5	76	74	73	72	73	72	72	70	95
3.0	77	76	75	74	74	74	73	71	97
4.0	77	77	76	76	76	75	74	72	99
5.0	78	77	77	77	76	76	75	73	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 3400 lm bare lamp luminous flux)											
Riflect.: ceil/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	15.0	15.5	15.2	15.7	16.0	15.0	15.5	15.2	15.7	16.0
	3H	14.8	15.3	15.1	15.6	15.9	14.8	15.3	15.1	15.6	15.9
	4H	14.8	15.2	15.1	15.5	15.8	14.8	15.2	15.1	15.5	15.8
	6H	14.7	15.1	15.0	15.4	15.8	14.7	15.1	15.0	15.4	15.7
	8H	14.7	15.1	15.0	15.4	15.7	14.6	15.1	15.0	15.4	15.7
	12H	14.6	15.0	15.0	15.3	15.7	14.6	15.0	15.0	15.3	15.7
4H	2H	14.8	15.2	15.1	15.5	15.8	14.8	15.2	15.1	15.5	15.8
	3H	14.6	15.0	15.0	15.4	15.7	14.6	15.0	15.0	15.4	15.7
	4H	14.5	14.9	14.9	15.2	15.6	14.5	14.9	14.9	15.2	15.6
	6H	14.4	14.8	14.9	15.1	15.6	14.4	14.8	14.9	15.1	15.6
	8H	14.4	14.7	14.8	15.1	15.5	14.4	14.7	14.8	15.1	15.5
	12H	14.3	14.6	14.8	15.0	15.5	14.3	14.6	14.8	15.0	15.5
8H	4H	14.4	14.7	14.8	15.1	15.5	14.4	14.7	14.8	15.1	15.5
	6H	14.3	14.5	14.8	15.0	15.5	14.3	14.5	14.8	15.0	15.5
	8H	14.3	14.5	14.7	14.9	15.4	14.3	14.5	14.7	14.9	15.4
	12H	14.2	14.4	14.7	14.9	15.4	14.2	14.4	14.7	14.9	15.4
12H	4H	14.3	14.6	14.8	15.0	15.5	14.3	14.6	14.8	15.0	15.5
	6H	14.3	14.4	14.7	14.9	15.4	14.3	14.4	14.7	14.9	15.4
	8H	14.2	14.4	14.7	14.9	15.4	14.2	14.4	14.7	14.9	15.4
Variations with the observer position at spacing:											
S =	1.0H	6.1 / -14.2					6.1 / -14.2				
	1.5H	8.9 / -15.7					8.9 / -15.7				
	2.0H	10.9 / -16.4					10.9 / -16.4				