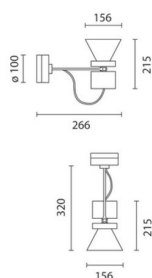


Last information update: May 2024

Product configuration: MR04

MR04: Medium body spotlight - warm white - electronic ballast and dimmer - medium optic

**Product code**MR04: Medium body spotlight - warm white - electronic ballast and dimmer - medium optic **Attention! Code no longer in production****Technical description**

Spotlight made of die-cast aluminium and thermoplastic material. The luminaire can be rotated by 340° about the vertical axis and tilted by +/- 100° in relation to the horizontal plane. Hi-precision beam aiming is guaranteed by screw-operated mechanical locks, graduated scales and friction controls. The spotlight is equipped with a die-cast aluminium ballast unit for wall or ceiling mounting. Luminaire for high output LED lamp with monochrome emission in a warm white colour tone (3000K) . Dimmable electronic ballast. Equipped with an 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

Wall or ceiling-mounted.

Colour

White (01) | Grey (15)

Mounting

wall arm|wall surface|ceiling surface

Wiring

The dimmable electronic components are housed in the luminaire.

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	2332	CRI (minimum):	80
W system:	25	Colour temperature [K]:	3000
lm source:	3000	MacAdam Step:	3
W source:	23	Life Time LED 1:	50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	93.3	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.) [%]:	78	Number of optical assemblies:	1
Beam angle [°]:	14°		

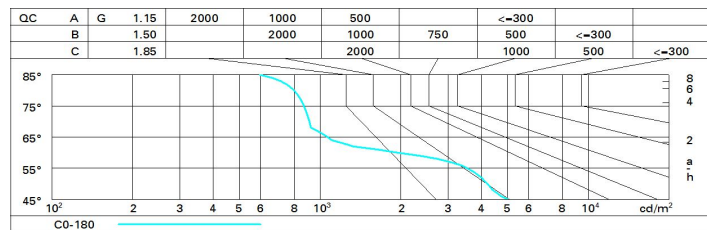
Polar

Imax=17243 cd		CIE		Lux			
				h	d	Em	Emax
90°		nL 0.78		2	0.5	3336	4311
		98-100-100-100-78		4	1	834	1078
		UGR 15.8-15.8		6	1.5	371	479
		DIN		8	2	208	269
		A.61					
		UTE					
		0.78A+0.00T					
		F*1=981					
		F*1+F*2=997					
		F*1+F*2+F*3=999					
		CIBSE					
		LG3 L<1500 cd/m² at 65°					
		UGR<16 L<1500 cd/mq @ 65°					
α = 14°							

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	70	66	63	61	65	63	62	60	77
1.0	73	69	67	65	69	66	66	64	82
1.5	77	74	72	70	73	71	71	68	88
2.0	79	77	76	74	76	75	74	72	92
2.5	80	79	78	77	78	77	76	74	95
3.0	81	81	80	79	79	79	77	76	97
4.0	82	82	81	81	80	80	79	77	99
5.0	83	82	82	82	81	81	79	78	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 3000 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	16.7	18.5	17.0	18.8	19.1	16.7	18.5	17.0	18.8	19.1
	3H	16.6	17.8	16.9	18.1	18.4	16.6	17.8	16.9	18.1	18.4
	4H	16.5	17.6	16.9	17.9	18.2	16.5	17.6	16.9	17.9	18.2
	6H	16.4	17.4	16.8	17.7	18.1	16.4	17.4	16.8	17.7	18.1
	8H	16.4	17.4	16.8	17.7	18.1	16.4	17.4	16.8	17.7	18.1
	12H	16.3	17.3	16.7	17.7	18.1	16.3	17.3	16.7	17.7	18.1
4H	2H	16.5	17.6	16.9	17.9	18.2	16.5	17.6	16.9	17.9	18.2
	3H	16.3	17.4	16.7	17.7	18.1	16.3	17.4	16.7	17.7	18.1
	4H	16.2	17.3	16.6	17.7	18.1	16.2	17.3	16.6	17.7	18.1
	6H	15.9	17.3	16.4	17.8	18.2	15.9	17.3	16.4	17.8	18.2
	8H	15.8	17.4	16.3	17.8	18.3	15.8	17.4	16.3	17.8	18.3
	12H	15.7	17.4	16.2	17.9	18.4	15.7	17.4	16.2	17.8	18.4
8H	4H	15.8	17.4	16.3	17.8	18.3	15.8	17.4	16.3	17.8	18.3
	6H	15.7	17.2	16.2	17.7	18.2	15.7	17.2	16.2	17.7	18.2
	8H	15.7	17.0	16.2	17.4	18.0	15.7	17.0	16.2	17.4	18.0
	12H	15.8	16.6	16.3	17.1	17.7	15.8	16.6	16.3	17.1	17.7
12H	4H	15.7	17.4	16.2	17.8	18.4	15.7	17.4	16.2	17.9	18.4
	6H	15.7	16.9	16.2	17.4	18.0	15.7	17.0	16.2	17.4	18.0
	8H	15.8	16.6	16.3	17.1	17.7	15.8	16.6	16.3	17.1	17.7
Variations with the observer position at spacing:											
S =	1.0H	5.6 / -10.6					5.6 / -10.6				
	1.5H	8.4 / -13.6					8.4 / -13.6				
	2.0H	10.4 / -14.2					10.4 / -14.2				