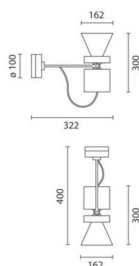


Last information update: May 2024

Product configuration: MR10

MR10: Large body spotlight - Neutral white - electronic ballast- medium optic

**Product code**MR10: Large body spotlight - Neutral white - electronic ballast- 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 ceiling mounting. Luminaire for high output LED lamp with monochrome emission in a neutral white colour tone (4000K). 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

Ceiling-mounted.

Colour

White (01) | Grey (15)

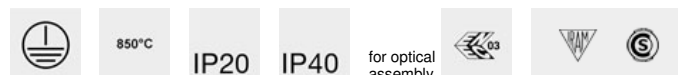
Mounting

wall arm|wall surface|ceiling surface

Wiring

Electronic components housed in the luminaire.

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	3687	CRI:	80
W system:	35.5	Colour temperature [K]:	4000
lm source:	5000	MacAdam Step:	2
W source:	31	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	103.8	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.) [%]:	74	Number of optical assemblies:	1
Beam angle [°]:	16°		

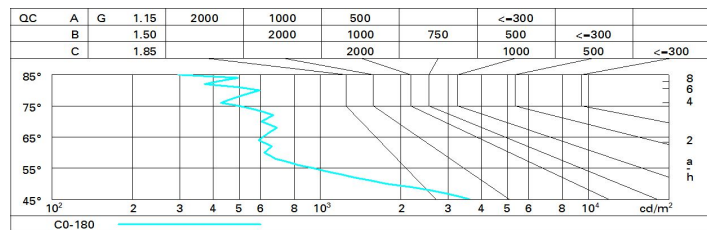
Polar

	CIE nL 0.74 99-100-100-100-74 UGR <10-10 DIN A.61 UTE 0.74A+0.00T F*1=993 F*1+F*2=999 F*1+F*2+F*3=1000 CIBSE LG3 L<1500 cd/m² at 65° UGR<10 L<1500 cd/mq @ 65°			
	Lux			
	h	d	Em	E _{max}
	2	0.6	5481	7113
	4	1.1	1370	1778
	6	1.7	609	790
	8	2.2	343	445

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	66	63	61	59	62	60	60	58	78
1.0	69	66	64	62	66	64	63	61	83
1.5	73	70	69	67	70	68	67	65	88
2.0	75	73	72	71	72	71	70	68	93
2.5	76	75	74	73	74	73	72	70	96
3.0	77	77	76	75	75	75	74	72	98
4.0	78	78	77	77	76	76	75	73	99
5.0	79	78	78	78	77	77	76	74	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 5000 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	1.2	3.3	1.6	3.7	4.0	1.2	3.3	1.6	3.7	4.0
	3H	1.3	2.9	1.7	3.2	3.5	1.2	2.7	1.5	3.0	3.4
	4H	1.4	2.6	1.7	3.0	3.3	1.1	2.4	1.5	2.7	3.1
	6H	1.4	2.4	1.8	2.7	3.0	1.1	2.1	1.5	2.4	2.7
	8H	1.4	2.4	1.8	2.7	3.1	1.1	2.0	1.5	2.4	2.7
	12H	1.4	2.4	1.8	2.7	3.1	1.0	2.0	1.4	2.4	2.7
4H	2H	1.1	2.4	1.5	2.7	3.1	1.4	2.6	1.7	3.0	3.3
	3H	1.3	2.3	1.7	2.7	3.0	1.4	2.4	1.8	2.7	3.1
	4H	1.3	2.4	1.8	2.8	3.2	1.3	2.4	1.8	2.8	3.2
	6H	1.1	2.9	1.6	3.3	3.8	1.0	2.8	1.5	3.2	3.7
	8H	1.1	3.0	1.5	3.5	4.0	0.9	2.9	1.4	3.3	3.8
	12H	1.0	3.0	1.5	3.5	4.0	0.8	2.8	1.4	3.3	3.8
8H	4H	0.9	2.9	1.4	3.3	3.8	1.1	3.0	1.5	3.5	4.0
	6H	1.1	2.8	1.6	3.3	3.8	1.1	2.9	1.6	3.3	3.9
	8H	1.1	2.7	1.6	3.2	3.7	1.1	2.7	1.6	3.2	3.7
	12H	1.4	2.3	1.9	2.8	3.3	1.3	2.3	1.8	2.8	3.3
12H	4H	0.8	2.8	1.4	3.3	3.8	1.0	3.0	1.5	3.5	4.0
	6H	1.1	2.6	1.6	3.1	3.6	1.1	2.7	1.7	3.2	3.7
	8H	1.3	2.3	1.8	2.8	3.3	1.4	2.3	1.9	2.8	3.3
Variations with the observer position at spacing:											
S =	1.0H	2.2 / -3.3					2.2 / -3.3				
	1.5H	4.5 / -4.1					4.5 / -4.1				
	2.0H	6.3 / -4.2					6.3 / -4.2				