

Last information update: October 2023

Product configuration: MN42

MN42: Large body spotlight - Warm white - electronic ballast - wide flood optic



Product code

MN42: Large body spotlight - Warm white - electronic ballast - 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 warm white colour. Wide flood optic. 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 at the side of the rod 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 an asymmetrical screen, an anti-glare screen and directional flaps. All external accessories rotate 360° about the spotlight longitudinal axis.

Installation

On an electrified track

Colour

Grey / Black (74) | White (01) | Black (04) | Grey (15)

Mounting

three circuit track

Wiring

Electronic components housed in the luminaire.

Complies with EN60598-1 and pertinent regulations



Technical data

Im system:	3399.1	CRI:	90
W system:	63	Colour temperature [K]:	3000
Im source:	4200	MacAdam Step:	3
W source:	55	Life Time LED 1:	50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (Im/W, real value):	54	Ballast losses [W]:	8
Im in emergency mode:	-	Lamp code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of lamps for optical assembly:	1
Light Output Ratio (L.O.R.) [%]:	81	ZVEI Code:	LED
Beam angle [°]:	48°	Number of optical assemblies:	1

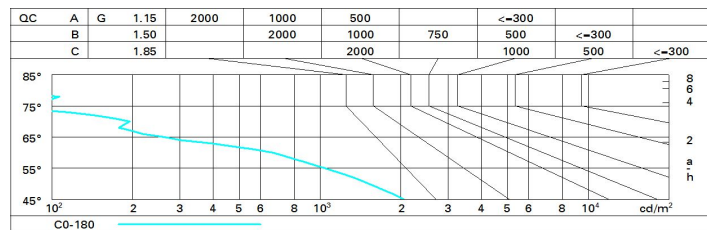
Polar

Imax=6145 cd		CIE		Lux			
90°	180°	nL 0.81		h	d	Em	E _{max}
		99-100-100-100-81		2	1.8	1271	1518
		UGR <10-10		4	3.6	318	379
		DIN A.61		6	5.3	141	169
		UTE 0.81A+0.00T		8	7.1	79	95
6000 0° α=48°		F*1=991					
		F*1+F*2=999					
		F*1+F*2+F*3=1000					
		CIBSE LG3 L<500 cd/m² at 65°					
		BZ1					

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	69	66	64	68	66	66	63	78
1.0	76	73	70	68	72	70	69	67	82
1.5	80	77	75	74	76	75	74	71	88
2.0	82	81	79	78	79	78	77	75	93
2.5	84	83	81	80	81	80	79	77	96
3.0	85	84	83	82	83	82	81	79	98
4.0	86	85	85	84	84	83	82	80	99
5.0	86	86	86	85	85	84	83	81	100

Luminance curve limit



UGR diagram

Photometric curve code: MN160000.Q69										
Corrected UGR values (at 4200 lm bare lamp luminous flux)										
Reflect.:										
ceiling	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim										
x										
y										
2H	2H	4.6	5.2	4.8	5.4	5.6	4.6	5.2	4.8	5.4
	3H	4.5	5.0	4.8	5.2	5.5	4.5	5.0	4.8	5.3
	4H	4.4	4.9	4.7	5.2	5.5	4.4	4.9	4.7	5.2
	6H	4.3	4.8	4.7	5.1	5.4	4.3	4.8	4.7	5.1
	8H	4.3	4.7	4.6	5.0	5.4	4.3	4.7	4.7	5.1
	12H	4.2	4.7	4.6	5.0	5.3	4.3	4.7	4.6	5.0
4H	2H	4.4	4.9	4.7	5.2	5.5	4.4	4.9	4.7	5.2
	3H	4.3	4.7	4.7	5.0	5.4	4.3	4.7	4.7	5.0
	4H	4.2	4.6	4.6	4.9	5.3	4.2	4.6	4.6	4.9
	6H	4.1	4.4	4.5	4.8	5.3	4.1	4.4	4.5	4.8
	8H	4.1	4.4	4.5	4.8	5.2	4.1	4.4	4.5	4.8
	12H	4.0	4.3	4.5	4.7	5.2	4.0	4.3	4.5	4.7
8H	4H	4.1	4.4	4.5	4.8	5.2	4.1	4.4	4.5	4.8
	6H	4.0	4.2	4.5	4.7	5.1	4.0	4.2	4.4	4.7
	8H	3.9	4.1	4.4	4.6	5.1	3.9	4.1	4.4	4.6
	12H	3.9	4.1	4.4	4.5	5.1	3.9	4.1	4.4	4.5
12H	4H	4.0	4.3	4.5	4.7	5.2	4.0	4.3	4.5	4.7
	6H	3.9	4.1	4.4	4.6	5.1	3.9	4.1	4.4	4.6
	8H	3.9	4.1	4.4	4.5	5.1	3.9	4.1	4.4	4.5
Variations with the observer position at spacing:										
S =	1.0H		5.5	/	-6.2		5.5	/	-6.2	
	1.5H		8.2	/	-10.6		8.2	/	-10.6	
	2.0H		10.2	/	-13.9		10.2	/	-13.9	