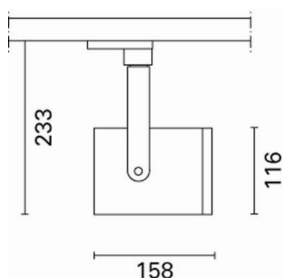# Front Light

Design iGuzzini   **iGuzzini**

Last information update: May 2024

Product configuration: MB31

MB31: Spotlight - Small body - LED Neutral White - Electronic ballast - Flood Optic

Product code

MB31: Spotlight - Small body - LED Neutral White - Electronic ballast - Flood Optic **Attention! Code no longer in production**

Technical description

Adjustable spotlight with adapter for installation on a mains voltage track. Luminaire made of die-cast aluminium. Spotlight double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Mechanical aiming locks both for rotation about the vertical axis and tilting relative to the horizontal plane. Equipped with ballast. The luminaire comes complete with LED unit in a neutral white tone.

Installation

On an electrified track

Colour

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

Mounting

three circuit track

Wiring
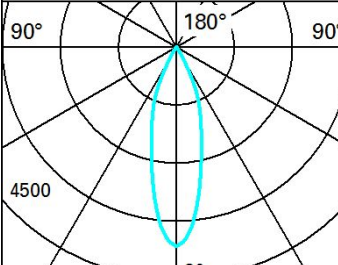
Electronic components housed in the luminaire

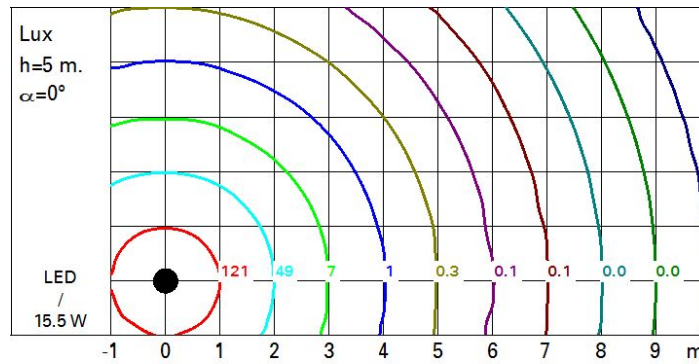Complies with EN60598-1 and pertinent regulations

IP20   IP40   for optical assembly   CE

Technical data

lm system:	1690	CRI:	80
W system:	15.5	Colour temperature [K]:	4000
lm source:	2200	MacAdam Step:	2
W source:	14	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	109.2	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.) [%]:	77	Number of optical assemblies:	1
Beam angle [°]:	30°		

Polar

Imax=5156 cd	Lux			
	h	d	Em	Emax
	2	1.1	962	1289
	4	2.1	240	322
	6	3.2	107	143
	8	4.3	60	81

α=30°

Isolux

Lux
h=5 m.
α=0°

LED
/
15.5 W

121   49   7   1   0.3   0.1   0.1   0.0   0.0

-1 0 1 2 3 4 5 6 7 8 9 m

UGR diagram

Corrected UGR values (at 2200 lm bare lamp luminous flux)

Riflect.:											
ceil/cav		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			viewed					viewed			
x	y		crosswise					endwise			
2H	2H	9.4	9.9	9.6	10.2	10.4	9.4	9.9	9.6	10.2	10.4
	3H	9.4	9.9	9.7	10.2	10.4	9.3	9.8	9.6	10.1	10.4
	4H	9.4	9.9	9.7	10.2	10.5	9.3	9.7	9.6	10.0	10.3
	6H	9.4	9.8	9.7	10.1	10.5	9.2	9.6	9.5	10.0	10.3
	8H	9.4	9.8	9.7	10.1	10.5	9.2	9.6	9.5	9.9	10.3
	12H	9.3	9.8	9.7	10.1	10.4	9.1	9.5	9.5	9.9	10.2
4H	2H	9.3	9.7	9.6	10.0	10.3	9.4	9.9	9.7	10.2	10.5
	3H	9.3	9.7	9.7	10.1	10.4	9.4	9.8	9.7	10.1	10.5
	4H	9.3	9.7	9.7	10.1	10.5	9.3	9.7	9.7	10.1	10.5
	6H	9.4	9.7	9.8	10.1	10.5	9.3	9.6	9.7	10.0	10.4
	8H	9.4	9.7	9.8	10.1	10.5	9.3	9.6	9.7	10.0	10.4
	12H	9.4	9.6	9.8	10.1	10.5	9.2	9.5	9.7	9.9	10.4
8H	4H	9.3	9.6	9.7	10.0	10.4	9.4	9.7	9.8	10.1	10.5
	6H	9.3	9.6	9.8	10.0	10.5	9.4	9.6	9.8	10.1	10.5
	8H	9.4	9.6	9.8	10.0	10.5	9.4	9.6	9.8	10.0	10.5
	12H	9.4	9.6	9.9	10.0	10.6	9.3	9.5	9.8	10.0	10.5
12H	4H	9.2	9.5	9.7	9.9	10.4	9.4	9.6	9.8	10.1	10.5
	6H	9.3	9.5	9.8	10.0	10.5	9.4	9.6	9.9	10.0	10.5
	8H	9.3	9.5	9.8	10.0	10.5	9.4	9.6	9.9	10.0	10.6

Variations with the observer position at spacing:

S =					
	1.0H	4.2 / -3.7		4.2 / -3.7	
	1.5H	6.8 / -4.6		6.8 / -4.6	
	2.0H	8.7 / -5.1		8.7 / -5.1	