Front Light

Last information update: May 2018

Small body Spotlight - LED Warm White - Electronic ballast - Medium Optic

Product code
MN53

Technical description
Adjustable indoor spotlight with adapter for installation on mains electrified track, for high output LED lamp with monochrome emission in a warm white colour. Medium optic. Luminaire made of die-cast aluminium. Twin adjustability allows 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Mechanical locks for aiming, for rotation on horizontal plane and around vertical axis. Equipped with electronic ballast.

Installation
Electrified track or base, to be ordered as an accessory

Dimension (mm)
Ø116x158

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

Weight (Kg)
1.4

Mounting
three circuit track

Wiring
Electronic components housed in the luminaire.

Complies with EN60598-1 and pertinent regulations

IP20   IP40   for optical assembly

Product configuration: MN53

Product characteristics

Total lighting output [Lm]: 2305	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 30.2	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 76.4	Voltage [V]: -
Life Time: > 50,000h - L80 - B10 (Ta 25°C)	Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 77	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.2
Nominal power [W]: 28	Colour temperature [K]: 3000
Nominal luminous [Lm]: 3000	CRI: 90
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 30°	MacAdam Step: 2

Polar

Imax=7031 cd

α=30°

Lux			
h	d	Em	Emax
2	1.1	1312	1758
4	2.1	328	439
6	3.2	146	195
8	4.3	82	110

Isolux

Lux
h=5 m.
α=0°

LED / 30.2 W

166 67 9 1 0.5 0.2 0.1 0.1 0.0
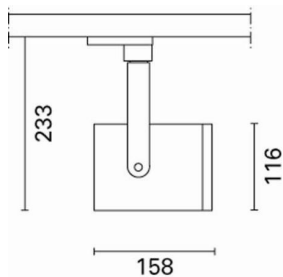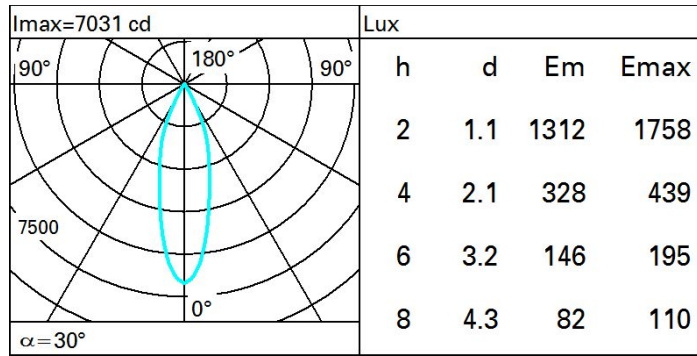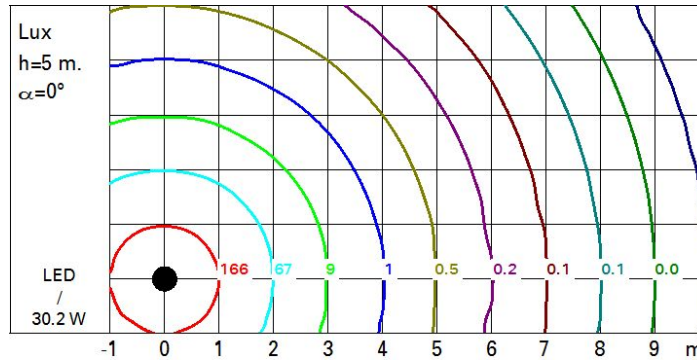
UGR diagram

Corrected UGR values (at 3000 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	10.4	11.0	10.7	11.2	11.5	10.4	11.0	10.7	11.2	11.5
	3H	10.5	11.0	10.8	11.2	11.5	10.4	10.9	10.7	11.2	11.4
	4H	10.5	10.9	10.8	11.2	11.5	10.3	10.8	10.7	11.1	11.4
	6H	10.4	10.9	10.8	11.2	11.5	10.3	10.7	10.6	11.0	11.4
	8H	10.4	10.9	10.8	11.2	11.5	10.2	10.7	10.6	11.0	11.3
	12H	10.4	10.8	10.8	11.2	11.5	10.2	10.6	10.6	11.0	11.3
4H	2H	10.3	10.8	10.7	11.1	11.4	10.5	10.9	10.8	11.2	11.5
	3H	10.4	10.8	10.8	11.2	11.5	10.5	10.9	10.8	11.2	11.6
	4H	10.4	10.8	10.8	11.2	11.5	10.4	10.8	10.8	11.2	11.5
	6H	10.5	10.8	10.9	11.2	11.6	10.4	10.7	10.8	11.1	11.5
	8H	10.5	10.7	10.9	11.2	11.6	10.4	10.7	10.8	11.1	11.5
	12H	10.4	10.7	10.9	11.1	11.6	10.3	10.6	10.8	11.0	11.5
8H	4H	10.4	10.7	10.8	11.1	11.5	10.5	10.7	10.9	11.2	11.6
	6H	10.4	10.7	10.9	11.1	11.6	10.5	10.7	10.9	11.1	11.6
	8H	10.4	10.6	10.9	11.1	11.6	10.4	10.6	10.9	11.1	11.6
	12H	10.5	10.6	11.0	11.1	11.6	10.4	10.6	10.9	11.1	11.6
12H	4H	10.3	10.6	10.8	11.0	11.5	10.4	10.7	10.9	11.1	11.6
	6H	10.4	10.6	10.9	11.1	11.6	10.5	10.7	10.9	11.1	11.6
	8H	10.4	10.6	10.9	11.1	11.6	10.5	10.6	11.0	11.1	11.6

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