

Last information update: February 2024

Product configuration: EH91

EH91: Spotlight with base - Warm White Led - integrated electronic control gear - Medium optic



Product code

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Technical description

Spotlight designed to use LED lamps and a Medium optic. The optical assembly and base is made of EN1706AC 46100LF aluminium alloy and subjected to a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The following painting stage consists of a primer and a liquid acrylic paint, cured at 150°C, with a high level of weather and UV ray resistance. 5 mm thick tempered sodium-calcium closing glass. Double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Mechanical aiming locks for rotation on both the vertical axis and horizontal plane. Complete with a monochrome LED circuit and an Opti Beam Lens optic system. The product includes a PG13.5 cable gland. Electronic On/Off ballast integrated in product. Option of using optic accessories assembled via an accessory holder frame. All external screws used are made of A2 stainless steel.

Installation

Floor, wall, ceiling or ground-installed via pole or stake.

Colour

White (01) | Black (04) | Grey (15) | Rust Brown (F5)

Weight (Kg)

1.9

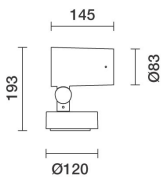
Mounting

wall surface|ground spike

Wiring

Double PG.

Complies with EN60598-1 and pertinent regulations



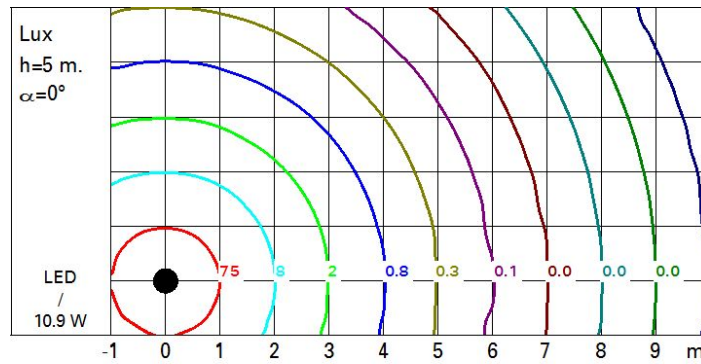
Technical data

lm system:	703	Life Time LED 1:	68,000h - L80 - B10 (Ta 25°C)
W system:	10.9	Life Time LED 2:	78,000h - L80 - B10 (Ta 40°C)
lm source:	950	Ballast losses [W]:	1.8
W source:	9.1	Lamp code:	LED
Luminous efficiency (lm/W, real value):	64.5	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	74	Intervallo temperatura ambiente:	from -20°C to 50°C.
Beam angle [°]:	26°	Lifetime of product at ambient operating temperature:	≥ 50.000h Ta=40°C
CRI (minimum):	80	Power factor:	See installation instructions
Colour temperature [K]:	3000	Overvoltage protection:	2kV Common mode & 1kV Differential mode
MacAdam Step:	2	Control:	On/off

Polar

Imax=3103 cd		Lux			
90°	180°	h	d	Em	E _{max}
		4	1.8	157	194
		8	3.7	39	48
		12	5.5	17	22
		16	7.4	10	12
α = 26°					

Isolux



UGR diagram

Corrected UGR values (at 950 lm bare lamp luminous flux)											
Reflect.:		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
ceiling/cav											
walls											
work pl.											
Room dim		viewed					viewed				
x y		crosswise					endwise				
2H	2H	10.7	12.6	11.0	12.9	13.3	10.7	12.6	11.0	12.9	13.3
	3H	10.6	12.1	11.0	12.4	12.8	10.6	12.1	11.0	12.4	12.7
	4H	10.6	11.8	11.0	12.1	12.5	10.5	11.8	10.9	12.1	12.4
	6H	10.6	11.5	10.9	11.9	12.2	10.5	11.5	10.9	11.8	12.1
	8H	10.5	11.5	10.9	11.8	12.2	10.5	11.4	10.9	11.8	12.1
	12H	10.5	11.4	10.9	11.8	12.2	10.4	11.4	10.8	11.7	12.1
4H	2H	10.5	11.8	10.9	12.1	12.4	10.6	11.8	11.0	12.1	12.5
	3H	10.5	11.5	10.9	11.8	12.2	10.6	11.5	11.0	11.9	12.2
	4H	10.5	11.4	10.9	11.8	12.2	10.5	11.4	10.9	11.8	12.2
	6H	10.1	11.7	10.6	12.2	12.6	10.1	11.7	10.6	12.2	12.6
	8H	10.0	11.8	10.5	12.3	12.8	10.0	11.8	10.5	12.2	12.7
	12H	9.9	11.8	10.5	12.3	12.8	9.9	11.8	10.4	12.2	12.7
8H	4H	10.0	11.8	10.5	12.2	12.7	10.0	11.8	10.5	12.3	12.8
	6H	9.9	11.6	10.4	12.1	12.6	9.9	11.6	10.5	12.1	12.6
	8H	9.9	11.4	10.5	11.9	12.4	9.9	11.4	10.5	11.9	12.4
	12H	10.1	11.1	10.6	11.6	12.2	10.0	11.1	10.6	11.6	12.2
12H	4H	9.9	11.8	10.4	12.2	12.7	9.9	11.8	10.5	12.3	12.8
	6H	9.9	11.4	10.4	11.9	12.4	10.0	11.4	10.5	11.9	12.5
	8H	10.0	11.1	10.6	11.6	12.2	10.1	11.1	10.6	11.6	12.2
Variations with the observer position at spacing:											
S =	1.0H	3.3 / -4.9				3.3 / -4.9					
	1.5H	5.8 / -6.3				5.8 / -6.3					
	2.0H	7.7 / -7.3				7.7 / -7.3					