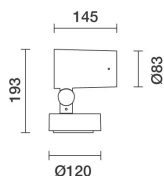


Last information update: March 2025

Product configuration: EH90

EH90: Spotlight with base - Warm White Led - integrated electronic control gear - Medium optic

**Product code**

EH90: Spotlight with base - Warm White Led - integrated electronic control gear - Medium optic

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

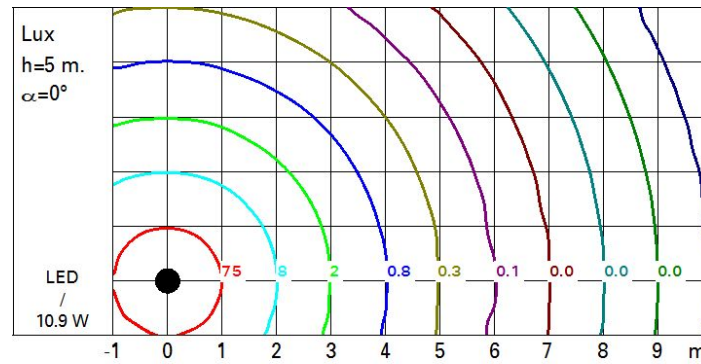
**Technical data**

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	Lamp code:	LED
W source:	9.1	Number of lamps for optical assembly:	1
Luminous efficiency (lm/W, real value):	64.5	ZVEI Code:	LED
lm in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	0	Intervallo temperatura ambiente:	from -20°C to 50°C.
Light Output Ratio (L.O.R.) [%]:	74	Lifetime of product at ambient operating temperature:	≥ 50.000h Ta=40°C
Beam angle [°]:	26°	Power factor:	See installation instructions
CRI (minimum):	80	Overvoltage protection:	2kV Common mode & 1kV Differential mode
Colour temperature [K]:	2700	Control:	On/off
MacAdam Step:	2		

Polar

Imax=3103 cd		Lux			
90°	180°	h	d	Em	Emax
		4	1.8	157	194
		8	3.7	39	48
		12	5.5	17	22
		16	7.4	10	12
$\alpha = 26^\circ$					

Isolux



UGR diagram

Corrected UGR values (at 950 lm bare lamp luminous flux)												
Reflect.:		viewed crosswise					viewed endwise					
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	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					