Last information update: June 2018





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

Product code

EH90

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.

Dimension (mm)

Ø83

Colour

White (01) | Grey (15)

Weight (Kg)

Mounting

wall surface|ground spike

Wiring

Double PG.

Complies with EN60598-1 and pertinent regulations













Product configuration: EH90

Product characteristics

Total lighting output [Lm]: 592 Total power [W]: 10.9 Luminous efficacy [Lm/W]: 54.3

Life Time: 70,000h - L80 - B10 (Ta 25°C) Ambient temperature range: from -20 $^{\circ}$ C to +35 $^{\circ}$ C. (*)

* Preliminary data

Total luminous flux at or above an angle of 90° [Lm]: 0

Emergency luminous flux [Lm]: /

Voltage [V]:

Life Time: 70,000h - L80 - B10 (Ta 40°C)

Number of optical assemblies: 1

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 74 Lamp code: LED

ZVEI Code: LED Nominal power [W]: 9.1 Nominal luminous [Lm]: 800 Lamp maximum intensity [cd]: / Beam angle [°]: 26°

Number of lamps for optical assembly: 1

Socket: /

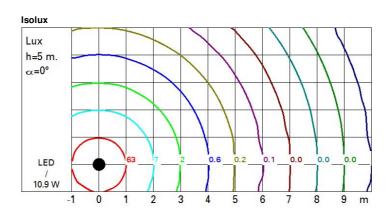
Ballast losses [W]: 1.8 Colour temperature [K]: 2700

CRI: 80

Wavelength [Nm]: / MacAdam Step: 3

Polar

Imax=2613 cd	Lux			
90° 180° 90°	h	d	Em	Emax
	2	0.9	529	653
	4	1.8	132	163
2500	6	2.8	59	73
α=26°	8	3.7	33	41



UGR diagram

4H	v ol.	0.70 0.50 0.20 10.1 10.0 10.0 10.0 9.9 9.9 9.9 9.9	0.70 0.30 0.20 12.0 11.5 11.2 10.9 10.8 11.2 10.9	0.50 0.50 0.20 viewed crosswis 10.4 10.4 10.3 10.3 10.3		0.30 0.30 0.20 12.7 12.2 11.9 11.6 11.6 11.8	0.70 0.50 0.20 10.1 10.0 9.9 9.9 9.9 9.8	12.0 11.5 11.2 10.9 10.8 10.8	0.50 0.50 0.20 viewed endwise 10.4 10.3 10.3 10.3 10.2	12.3 11.8 11.5 11.2 11.2 11.1	0.30 0.30 0.20 12.7 12.1 11.8 11.5 11.5
walls work pl Room o x 2H	2H 3H 4H 6H 8H 12H 2H 3H 4H 6H	0.50 0.20 10.1 10.0 10.0 10.0 9.9 9.9 9.9 9.9	12.0 11.5 11.2 10.9 10.8 11.2 10.9	0.50 0.20 viewed crosswis 10.4 10.4 10.3 10.3 10.3	0.30 0.20 e 12.3 11.8 11.5 11.3 11.2 11.2	12.7 12.2 11.9 11.6 11.6	0.50 0.20 10.1 10.0 9.9 9.9 9.9 9.8	12.0 11.5 11.2 10.9 10.8 10.8	0.50 0.20 viewed endwise 10.4 10.3 10.3 10.3 10.2	0.30 0.20 12.3 11.8 11.5 11.2 11.1	12.7 12.1 11.8 11.5
work pl Room o x 2H	2H 3H 4H 6H 12H 2H 3H 4H 6H	0.20 10.1 10.0 10.0 10.0 9.9 9.9 9.9	12.0 11.5 11.2 10.9 10.8 11.2 10.9	0.20 viewed crosswis 10.4 10.4 10.3 10.3 10.3 10.3	0.20 e 12.3 11.8 11.5 11.3 11.2 11.2	12.7 12.2 11.9 11.6 11.6	10.1 10.0 9.9 9.9 9.9 9.8	12.0 11.5 11.2 10.9 10.8 10.8	0.20 viewed endwise 10.4 10.3 10.3 10.3 10.2	12.3 11.8 11.5 11.2 11.1	12.7 12.7 11.8 11.6 11.5
Room o x 2H	2H 3H 4H 6H 12H 2H 3H 4H 6H	10.1 10.0 10.0 10.0 9.9 9.9 9.9	12.0 11.5 11.2 10.9 10.8 11.2	10.4 10.4 10.4 10.3 10.3 10.3 10.3	12.3 11.8 11.5 11.3 11.2 11.2	12.7 12.2 11.9 11.6 11.6	10.1 10.0 9.9 9.9 9.9 9.8	12.0 11.5 11.2 10.9 10.8 10.8	10.4 10.4 10.3 10.3 10.3 10.2	12.3 11.8 11.5 11.2 11.1	12.7 12.7 11.6 11.6 11.5
2H 4H	2H 3H 4H 6H 8H 12H 2H 3H 4H 6H	10.0 10.0 10.0 9.9 9.9 9.9 9.9	12.0 11.5 11.2 10.9 10.8 11.2 10.9	10.4 10.4 10.4 10.3 10.3 10.3 10.3	12.3 11.8 11.5 11.3 11.2 11.2	12.2 11.9 11.6 11.6 11.6	10.0 9.9 9.9 9.9 9.8	12.0 11.5 11.2 10.9 10.8 10.8	10.4 10.4 10.3 10.3 10.3 10.2	12.3 11.8 11.5 11.2 11.2 11.1	12.1 11.8 11.6 11.5
2H 4H	2H 3H 4H 6H 8H 12H 2H 3H 4H 6H	10.0 10.0 10.0 9.9 9.9 9.9 9.9	12.0 11.5 11.2 10.9 10.8 11.2 10.9	10.4 10.4 10.4 10.3 10.3 10.3	12.3 11.8 11.5 11.3 11.2 11.2	12.2 11.9 11.6 11.6 11.6	10.0 9.9 9.9 9.9 9.8	12.0 11.5 11.2 10.9 10.8 10.8	10.4 10.3 10.3 10.3 10.2	12.3 11.8 11.5 11.2 11.2 11.1	12.1 11.8 11.6 11.5
4H	3H 4H 6H 8H 12H 2H 3H 4H 6H	10.0 10.0 10.0 9.9 9.9 9.9 9.9	11.5 11.2 10.9 10.9 10.8 11.2 10.9	10.4 10.3 10.3 10.3 10.3	11.8 11.5 11.3 11.2 11.2	12.2 11.9 11.6 11.6 11.6	10.0 9.9 9.9 9.9 9.8	11.5 11.2 10.9 10.8 10.8	10.4 10.3 10.3 10.3 10.2	11.8 11.5 11.2 11.2 11.1	12.1 11.8 11.6 11.5
4H	4H 6H 8H 12H 2H 3H 4H 6H	10.0 10.0 9.9 9.9 9.9 9.9	11.2 10.9 10.9 10.8 11.2 10.9	10.4 10.3 10.3 10.3 10.3	11.5 11.3 11.2 11.2	11.9 11.6 11.6 11.6	9.9 9.9 9.9 9.8	11.2 10.9 10.8 10.8	10.3 10.3 10.3 10.2	11.5 11.2 11.2 11.1	11.6 11.6 11.5 11.5
4H	6H 8H 12H 2H 3H 4H 6H	9.9 9.9 9.9 9.9 9.9	10.9 10.9 10.8 11.2 10.9	10.3 10.3 10.3 10.3 10.3	11.3 11.2 11.2	11.6 11.6 11.6 11.8	9.9 9.9 9.8 10.0	10.9 10.8 10.8	10.3 10.3 10.2	11.2 11.2 11.1	11.0 11.3 11.3
4H	8H 12H 2H 3H 4H 6H	9.9 9.9 9.9 9.9 9.9	10.9 10.8 11.2 10.9	10.3 10.3 10.3 10.3	11.2 11.2 11.5	11.6 11.6 11.8	9.9 9.8 10.0	10.8 10.8 11.2	10.3 10.2	11.2 11.1 11.5	11.5 11.5
4H	2H 3H 4H 6H	9.9 9.9 9.9 9.9	10.8 11.2 10.9	10.3 10.3 10.3	11.2 11.5	11.6 11.8	9.8	10.8	10.2	11.1	11.5
4H	2H 3H 4H 6H	9.9 9.9 9.9	11.2 10.9	10.3 10.3	11.5	11.8	10.0	11.2	10.4	11.5	12000
	3H 4H 6H	9.9 9.9	10.9	10.3							11.9
	4H 6H	9.9			11.3	116	40.0				
	6Н	12000	10.8				10.0	10.9	10.4	11.3	11.0
		06		10.3	11.2	11.6	9.9	10.8	10.3	11.2	11.0
	SH	3.0	11.1	10.0	11.6	12.0	9.5	11.1	10.0	11.6	12.0
	OH	9.4	11.2	9.9	11.7	12.2	9.4	11.2	9.9	11.6	12.
8H	12H	9.4	11.2	9.9	11.7	12.2	9.3	11.2	8.8	11.6	12.
	4H	9.4	11.2	9.9	11.6	12.1	9.4	11.2	9.9	11.7	12.2
	бН	9.3	11.0	9.8	11.5	12.0	9.4	11.0	9.9	11.5	12.0
	H8	9.4	10.8	9.9	11.3	11.9	9.4	10.8	9.9	11.3	11.9
	12H	9.5	10.5	10.0	11.0	11.6	9.4	10.5	10.0	11.0	11.0
12H	4H	9.3	11.2	8.8	11.6	12.1	9.4	11.2	9.9	11.7	12.
	бН	9.3	10.8	8.8	11.3	11.8	9.4	10.8	9.9	11.3	11.9
	H8	9.4	10.5	10.0	11.0	11.6	9.5	10.5	10.0	11.0	11.6
Variatio	ons wi	th the ob	bserverp	noitieo	at spacin	ıg:					
5 = 1	1.0H		3	3.3 / -4	9			3	.3 / -4.	9	
1	1.5H		5	0- / 8.	.3			5	.6- / 8.	.3	