Palco InOut

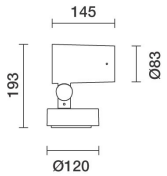
Design Artec3 Studio **iGuzzini**

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)
1.9

Mounting
wall surface|ground spike

Wiring
Double PG.

Complies with EN60598-1 and pertinent regulations

IK08 IP66

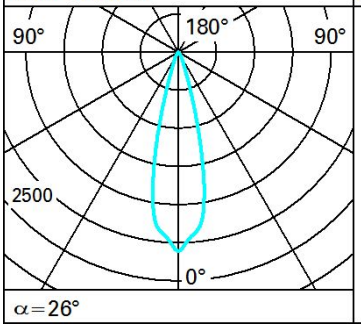
Product configuration: EH90

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°C to +35°C. (*)
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

* Preliminary data

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

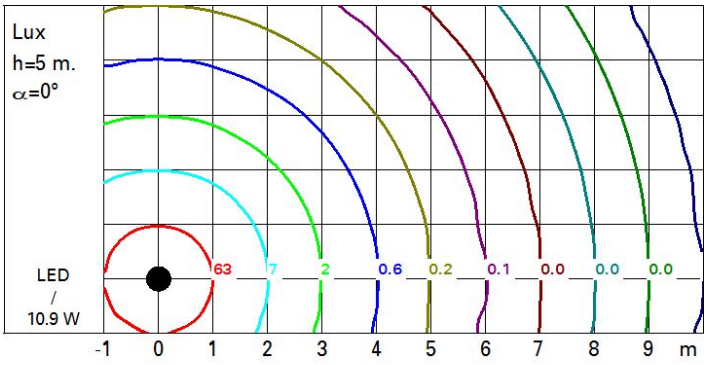
Polar



Lux

h	d	Em	Emax
2	0.9	529	653
4	1.8	132	163
6	2.8	59	73
8	3.7	33	41

Isolux



UGR diagram

Corrected UGR values (at 800 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 crosswise					viewed endwise		
x	y										
2H	2H	10.1	12.0	10.4	12.3	12.7	10.1	12.0	10.4	12.3	12.7
	3H	10.0	11.5	10.4	11.8	12.2	10.0	11.5	10.4	11.8	12.1
	4H	10.0	11.2	10.4	11.5	11.9	9.9	11.2	10.3	11.5	11.8
	6H	10.0	10.9	10.3	11.3	11.6	9.9	10.9	10.3	11.2	11.6
	8H	9.9	10.9	10.3	11.2	11.6	9.9	10.8	10.3	11.2	11.5
	12H	9.9	10.8	10.3	11.2	11.6	9.8	10.8	10.2	11.1	11.5
4H	2H	9.9	11.2	10.3	11.5	11.8	10.0	11.2	10.4	11.5	11.9
	3H	9.9	10.9	10.3	11.3	11.6	10.0	10.9	10.4	11.3	11.6
	4H	9.9	10.8	10.3	11.2	11.6	9.9	10.8	10.3	11.2	11.6
	6H	9.6	11.1	10.0	11.6	12.0	9.5	11.1	10.0	11.6	12.0
	8H	9.4	11.2	9.9	11.7	12.2	9.4	11.2	9.9	11.6	12.1
	12H	9.4	11.2	9.9	11.7	12.2	9.3	11.2	9.8	11.6	12.1
8H	4H	9.4	11.2	9.9	11.6	12.1	9.4	11.2	9.9	11.7	12.2
	6H	9.3	11.0	9.8	11.5	12.0	9.4	11.0	9.9	11.5	12.0
	8H	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	11.6
12H	4H	9.3	11.2	9.8	11.6	12.1	9.4	11.2	9.9	11.7	12.2
	6H	9.3	10.8	9.8	11.3	11.8	9.4	10.8	9.9	11.3	11.9
	8H	9.4	10.5	10.0	11.0	11.6	9.5	10.5	10.0	11.0	11.6

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