Palco InOut

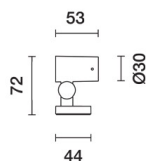| Design Artec3 Studio	iGuzzini

Last information update: May 2018

Outdoor floodlight - Neutral White LED - Spot

Product code
Q684

Technical description
Outdoor floodlight designed to use LED lamps and a spot optic. Consists of an optical assembly and a base. The optical assembly, arm and base are made of 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 painting stage consists of a primer and a liquid acrylic paint, cured at 150 °C, with a high level of weather resistance. 4mm thick extra-clear sodium-calcium closure glass. Secured using a 360° adjustable base. Adjustable horizontally. Complete with an LED circuit and an Opti Beam optic system and fitted with a protection system against polarity inversion. If connected in series with more than one product, the circuit stops the whole line turning off following an incorrect connection or product breakage. Option of mounting optical accessories externally using an accessory-holder frame. Black rubber outlet cable complete with an anti-transpiration device. Electronic control gear to be ordered separately. All external screws used are made of A2 stainless steel.

Installation
Floor, wall or ceiling installation and ground installation using a spike.

Dimension (mm)
Ø30

Colour
White (01) | Grey (15)

Weight (Kg)
0.17

Mounting
wall surface|ground spike

Wiring
The product is supplied with a black rubber outlet cable complete with an anti-transpiration device.

Complies with EN60598-1 and pertinent regulations

Product configuration: Q684

Product characteristics

Total lighting output [Lm]: 145	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 2.4	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 60.4	Voltage [V]: -
Life Time: 74,000h - L80 - B10 (Ta 25°C)	Life Time: 74,000h - L80 - B10 (Ta 40°C)
Ambient temperature range: from -20°C to +35°C. (*)	Number of optical assemblies: 1

* Preliminary data

Optical assembly Characteristics Type 1

Light Output Ratio (L.O.R.) [%]: 58	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 0
Nominal power [W]: 2.4	Colour temperature [K]: 4000
Nominal luminous [Lm]: 250	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 14°	MacAdam Step: 3

Polar

Imax=1609 cd					
		Lux			
		h	d	Em	Emax
		1	0.2	1245	1609
		2	0.5	311	402
		3	0.7	138	179
		4	1	78	101

α = 14°

Isolux

Lux
h=5 m.
α=0°

LED
/
2.4 W

UGR diagram

Corrected UGR values (at 250 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	7.7	9.8	8.1	10.1	10.4	7.7	9.8	8.1	10.1	10.4
	3H	7.6	9.0	8.0	9.3	9.7	7.6	9.0	8.0	9.3	9.6
	4H	7.6	8.7	8.0	9.0	9.3	7.6	8.7	8.0	9.0	9.3
	6H	7.6	8.4	8.0	8.7	9.0	7.6	8.3	7.9	8.6	9.0
	8H	7.5	8.4	7.9	8.7	9.1	7.5	8.3	7.9	8.7	9.0
	12H	7.5	8.4	7.9	8.7	9.1	7.4	8.3	7.8	8.7	9.1
4H	2H	7.6	8.7	8.0	9.0	9.3	7.6	8.7	8.0	9.0	9.3
	3H	7.5	8.4	7.9	8.7	9.1	7.5	8.4	7.9	8.7	9.1
	4H	7.3	8.4	7.7	8.8	9.2	7.3	8.4	7.7	8.8	9.2
	6H	7.0	8.7	7.5	9.2	9.6	7.0	8.7	7.4	9.1	9.6
	8H	6.9	8.8	7.4	9.2	9.7	6.9	8.7	7.3	9.2	9.7
	12H	6.8	8.7	7.3	9.2	9.7	6.8	8.7	7.3	9.2	9.7
8H	4H	6.9	8.7	7.3	9.2	9.7	6.9	8.8	7.4	9.2	9.7
	6H	6.8	8.5	7.3	9.0	9.5	6.8	8.5	7.3	9.0	9.5
	8H	6.9	8.2	7.4	8.7	9.2	6.9	8.2	7.4	8.7	9.2
	12H	7.0	7.8	7.5	8.3	8.8	7.0	7.8	7.5	8.3	8.8
12H	4H	6.8	8.7	7.3	9.2	9.7	6.8	8.7	7.3	9.2	9.7
	6H	6.8	8.2	7.4	8.7	9.2	6.8	8.2	7.4	8.7	9.2
	8H	7.0	7.8	7.5	8.3	8.8	7.0	7.8	7.5	8.3	8.8

Variations with the observer position at spacing:

S =	1.0H	5.4 / -8.7	5.4 / -8.7
	1.5H	8.1 / -11.2	8.1 / -11.2
	2.0H	10.1 / -12.3	10.1 / -12.3