# Palco InOut

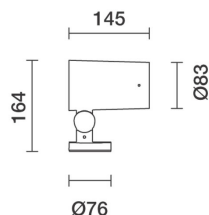| Design Artec3 Studio | iGuzzini |
|---|---|

Last information update: May 2018

**Spotlight with base - Neutral White Led - Class III - Medium optic**

**Product code**
Q714

**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 Reflector optic system. The product includes a PG13.5 cable gland. Black rubber outlet cable complete with anti-transpiration device. Black rubber outlet cable complete with anti-transpiration device. Electronic ballast to be ordered separately. 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 a stake.

**Dimension (mm)**
Ø83

**Colour**
White (01) | Grey (15)

**Weight (Kg)**
1.3

**Mounting**
wall surface|ground spike

**Wiring**
The product is supplied with a black rubber outlet cable complete with anti-transpiration device L=1000mm.

Complies with EN60598-1 and pertinent regulations

III   IK08   IP66

CE   CIDET   EAC   A++   pending

**Product configuration: Q714**

**Product characteristics**

| | |
|---|---|
| Total lighting output [Lm]: 1716 | Total luminous flux at or above an angle of 90° [Lm]: 0 |
| Total power [W]: 16 | Emergency luminous flux [Lm]: / |
| Luminous efficacy [Lm/W]: 107.2 | Voltage [V]: - |
| Life Time: 100,000h - L80 - B10 (Ta 25°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.) [%]: 73 | Number of lamps for optical assembly: 1 |
| Lamp code: LED | Socket: / |
| ZVEI Code: LED | Ballast losses [W]: 0 |
| Nominal power [W]: 16 | Colour temperature [K]: 4000 |
| Nominal luminous [Lm]: 2350 | CRI: 80 |
| Lamp maximum intensity [cd]: / | Wavelength [Nm]: / |
| Beam angle [°]: 26° | MacAdam Step: 2 |

## Polar

Imax=7538 cd

90°  180°  90°

7500

0°

α=26°

| h | d | Em | Emax |
|---|---|----|------|
| 2 | 0.9 | 1496 | 1884 |
| 4 | 1.8 | 374 | 471 |
| 6 | 2.8 | 166 | 209 |
| 8 | 3.7 | 93 | 118 |

## Isolux

Lux
h=5 m.
α=0°

LED / 16 W

166  33  3  0.2  0.1  0.0  0.0  0.0  0.0 0.0

-1  0  1  2  3  4  5  6  7  8  9  m
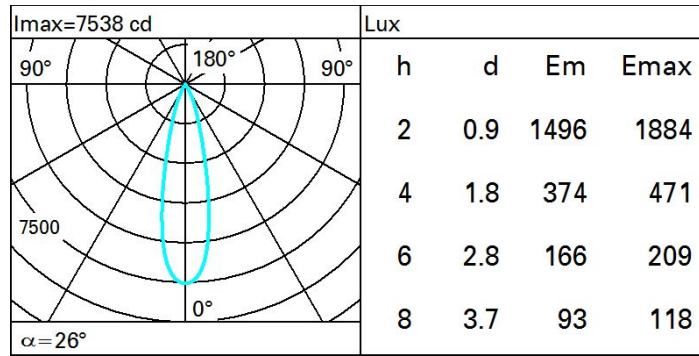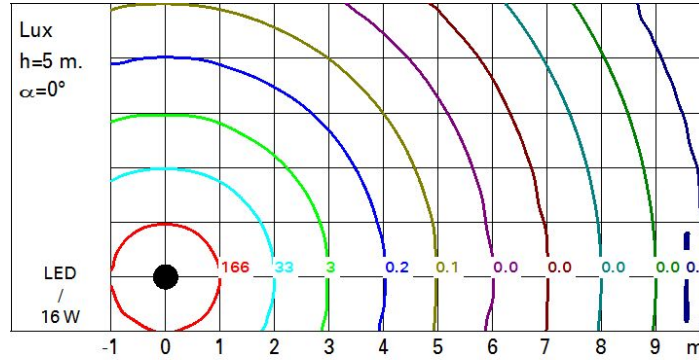
## UGR diagram

Corrected UGR values (at 2350 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 | 2.0 | 4.1 | 2.4 | 4.4 | 4.8 | 2.0 | 4.1 | 2.4 | 4.4 | 4.8 |
| | 3H | 2.2 | 3.8 | 2.5 | 4.2 | 4.5 | 2.0 | 3.6 | 2.3 | 4.0 | 4.3 |
| | 4H | 2.2 | 3.6 | 2.6 | 3.9 | 4.3 | 2.0 | 3.3 | 2.3 | 3.7 | 4.0 |
| | 6H | 2.3 | 3.3 | 2.6 | 3.7 | 4.0 | 2.0 | 3.0 | 2.3 | 3.4 | 3.7 |
| | 8H | 2.2 | 3.3 | 2.6 | 3.6 | 4.0 | 1.9 | 3.0 | 2.3 | 3.3 | 3.7 |
| | 12H | 2.2 | 3.2 | 2.6 | 3.6 | 4.0 | 1.9 | 2.9 | 2.3 | 3.3 | 3.6 |
| 4H | 2H | 2.0 | 3.3 | 2.3 | 3.7 | 4.0 | 2.2 | 3.6 | 2.6 | 3.9 | 4.3 |
| | 3H | 2.3 | 3.3 | 2.7 | 3.7 | 4.1 | 2.4 | 3.4 | 2.8 | 3.7 | 4.1 |
| | 4H | 2.3 | 3.3 | 2.8 | 3.7 | 4.1 | 2.3 | 3.3 | 2.8 | 3.7 | 4.1 |
| | 6H | 2.1 | 3.8 | 2.6 | 4.2 | 4.7 | 2.1 | 3.8 | 2.5 | 4.2 | 4.7 |
| | 8H | 2.0 | 3.9 | 2.5 | 4.3 | 4.8 | 1.9 | 3.9 | 2.4 | 4.3 | 4.8 |
| | 12H | 1.9 | 3.9 | 2.4 | 4.3 | 4.9 | 1.8 | 3.8 | 2.3 | 4.3 | 4.8 |
| 8H | 4H | 1.9 | 3.9 | 2.4 | 4.3 | 4.8 | 2.0 | 3.9 | 2.5 | 4.3 | 4.8 |
| | 6H | 1.9 | 3.8 | 2.5 | 4.3 | 4.8 | 1.9 | 3.8 | 2.5 | 4.3 | 4.8 |
| | 8H | 2.0 | 3.6 | 2.5 | 4.1 | 4.6 | 2.0 | 3.6 | 2.5 | 4.1 | 4.6 |
| | 12H | 2.2 | 3.2 | 2.7 | 3.7 | 4.2 | 2.1 | 3.2 | 2.7 | 3.7 | 4.2 |
| 12H | 4H | 1.8 | 3.8 | 2.3 | 4.3 | 4.8 | 1.9 | 3.9 | 2.4 | 4.3 | 4.9 |
| | 6H | 1.9 | 3.6 | 2.5 | 4.1 | 4.6 | 2.0 | 3.6 | 2.5 | 4.1 | 4.6 |
| | 8H | 2.1 | 3.2 | 2.7 | 3.7 | 4.2 | 2.2 | 3.2 | 2.7 | 3.7 | 4.2 |

Variations with the observer position at spacing:

| S = | 1.0H | 4.9 / -2.9 | 4.9 / -2.9 |
|-----|------|------------|------------|
| | 1.5H | 7.5 / -3.9 | 7.5 / -3.9 |
| | 2.0H | 9.4 / -4.1 | 9.4 / -4.1 |