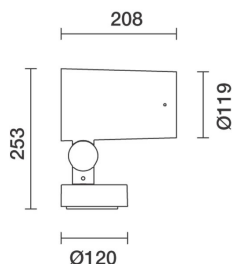# Palco InOut

Last information update: May 2018

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

Product code
Q725

Technical description
Spotlight designed to use LED lamps and a Spot 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 DALI 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
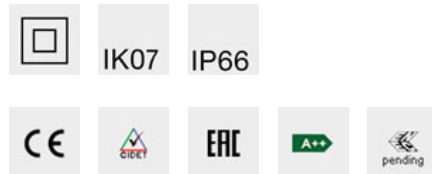Floor, wall, ceiling or ground-installed via pole or stake.

Dimension (mm)
Ø119

Colour
White (01) | Grey (15)

Weight (Kg)
3.85

Mounting
wall surface|ground spike

Wiring
Double PG.

Complies with EN60598-1 and pertinent regulations

IK07   IP66

CE   CIDET   EHC   A++   pending

Product configuration: Q725

Product characteristics

Total lighting output [Lm]: 1400	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 14.3	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 97.9	Voltage [V]: -
Life Time: 100,000h - L80 - B10 (Ta 25°C)	Life Time: 95,000h - 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.) [%]: 80	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 2.3
Nominal power [W]: 12	Colour temperature [K]: 3000
Nominal luminous [Lm]: 1750	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 14°	MacAdam Step: 2

Polar

Imax=15807 cd				
	Lux			
90° 180° 90°	**h**	**d**	**Em**	**Emax**
	2	0.5	3042	3952
	4	1	760	988
17500	6	1.5	338	439
0°	8	2	190	247
$\alpha = 14°$				

Isolux

Lux
h=5 m.
$\alpha=0°$

LED / 14.3 W

103 14 3 0.9 0.3 0.1 0.0 0.0 0.0

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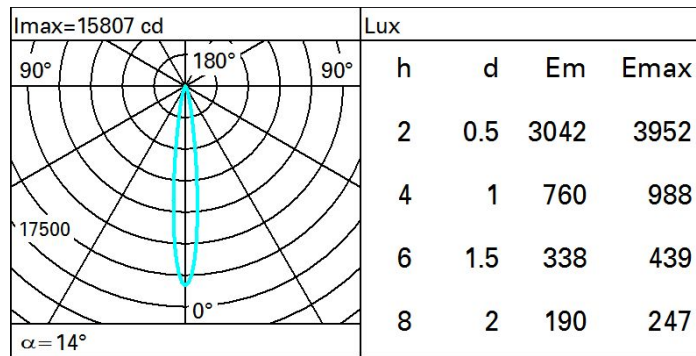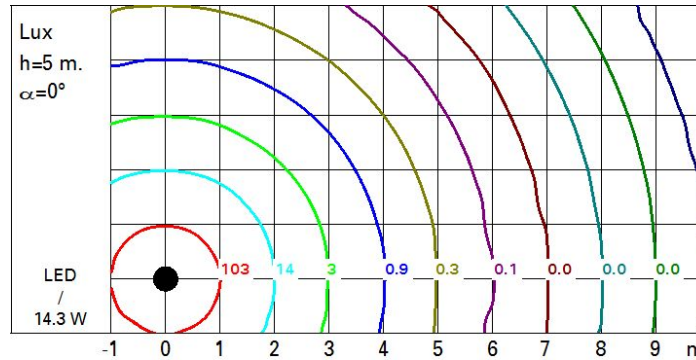
UGR diagram

Corrected UGR values (at 1750 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	6.2	8.2	6.6	8.5	8.8	6.2	8.2	6.6	8.5	8.8
	3H	6.1	7.4	6.5	7.7	8.1	6.1	7.5	6.5	7.8	8.1
	4H	6.0	7.1	6.4	7.4	7.7	6.1	7.1	6.4	7.4	7.8
	6H	6.0	6.8	6.4	7.1	7.4	6.0	6.8	6.4	7.1	7.5
	8H	5.9	6.8	6.3	7.1	7.5	6.0	6.8	6.4	7.1	7.5
	12H	5.9	6.8	6.3	7.1	7.5	5.9	6.8	6.3	7.2	7.5
4H	2H	6.1	7.1	6.4	7.4	7.8	6.0	7.1	6.4	7.4	7.7
	3H	5.9	6.8	6.3	7.2	7.5	5.9	6.8	6.3	7.2	7.5
	4H	5.7	6.8	6.1	7.2	7.6	5.7	6.8	6.1	7.2	7.6
	6H	5.4	7.1	5.9	7.5	8.0	5.4	7.1	5.9	7.5	8.0
	8H	5.3	7.1	5.7	7.6	8.1	5.3	7.1	5.7	7.6	8.1
	12H	5.2	7.1	5.7	7.5	8.0	5.2	7.1	5.7	7.5	8.0
8H	4H	5.3	7.1	5.7	7.6	8.1	5.3	7.1	5.7	7.6	8.1
	6H	5.2	6.8	5.7	7.3	7.8	5.2	6.8	5.7	7.3	7.8
	8H	5.2	6.5	5.7	7.0	7.6	5.2	6.5	5.7	7.0	7.6
	12H	5.3	6.2	5.9	6.7	7.2	5.3	6.2	5.9	6.7	7.2
12H	4H	5.2	7.1	5.7	7.5	8.0	5.2	7.1	5.7	7.5	8.0
	6H	5.2	6.5	5.7	7.0	7.6	5.2	6.5	5.7	7.0	7.6
	8H	5.3	6.2	5.9	6.7	7.2	5.3	6.2	5.9	6.7	7.2

Variations with the observer position at spacing:

S =	1.0H	3.3 / -7.4	3.3 / -7.4
	1.5H	5.9 / -14.1	5.9 / -14.1
	2.0H	7.9 / -23.9	7.9 / -23.9