Palco InOut

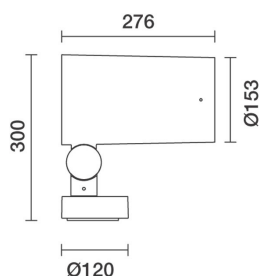**Design Artec Studio**   **iGuzzini**

Last information update: April 2024

Product configuration: EF52

EF52: Spotlight with base - Neutral White Led - integrated electronic control gear - Medium optic

Product code

EF52: Spotlight with base - Neutral White Led - integrated electronic control gear - Medium optic

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. 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 via pole.

Colour
White (01) | Black (04) | Grey (15) | Rust Brown (F5)

Weight (Kg)
6.56

Mounting
wall arm|ground surface|wall surface|ceiling surface

Wiring
Double PG.

Complies with EN60598-1 and pertinent regulations

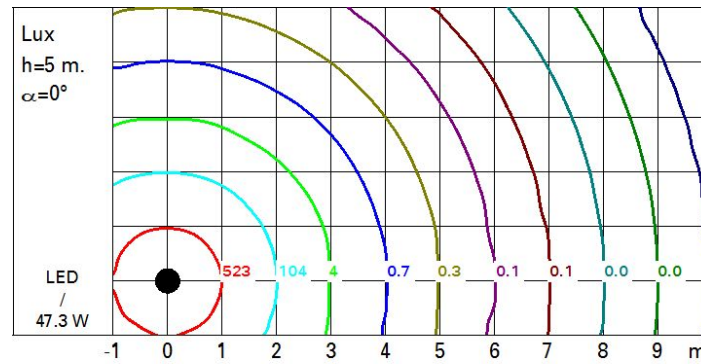IK07   IP66   CE   03   EAC   NOM   S

Technical data

lm system:	5084	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	47.3	Lamp code:	LED
lm source:	6690	Number of lamps for optical assembly:	1
W source:	42		
Luminous efficiency (lm/W, real value):	107.5	ZVEI Code:	LED
lm in emergency mode:	-	Number of optical assemblies:	1
Total light flux at or above an angle of 90° [Lm]:	0	Intervallo temperatura ambiente:	from -30°C to 50°C.
Light Output Ratio (L.O.R.) [%]:	76	Lifetime of product at ambient operating temperature:	≥ 50.000h Ta=40°C
Beam angle [°]:	30°		
CRI (minimum):	80	Power factor:	See installation instructions
Colour temperature [K]:	4000	Inrush current:	43 A / 260 µs
MacAdam Step:	2	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)		
		Overvoltage protection:	10kV Common mode & 6kV Differential mode
		Control:	DALI-2

Polar

Imax=17831 cd

h	d	Em	Emax
10	5.4	149	178
20	10.7	37	45
30	16.1	17	20
40	21.4	9	11

α=30°

Isolux

Lux
h=5 m.
α=0°

LED
/
47.3 W

| 523 | 104 | 4 | 0.7 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 |

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

UGR diagram

Corrected UGR values (at 6690 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	-0.4	1.7	-0.1	2.0	2.4	-0.4	1.7	-0.1	2.0	2.4
	3H	-0.5	1.3	-0.1	1.6	1.9	-0.5	1.2	-0.1	1.6	1.9
	4H	-0.5	1.0	-0.1	1.3	1.6	-0.5	0.9	-0.2	1.2	1.6
	6H	-0.5	0.6	-0.1	0.9	1.3	-0.6	0.5	-0.2	0.9	1.2
	8H	-0.6	0.5	-0.2	0.9	1.2	-0.6	0.5	-0.2	0.8	1.2
	12H	-0.6	0.4	-0.2	0.8	1.2	-0.7	0.4	-0.2	0.7	1.1
4H	2H	-0.5	0.9	-0.2	1.2	1.6	-0.5	1.0	-0.1	1.3	1.6
	3H	-0.5	0.6	-0.1	0.9	1.3	-0.5	0.6	-0.1	0.9	1.3
	4H	-0.5	0.4	-0.1	0.8	1.2	-0.5	0.4	-0.1	0.8	1.2
	6H	-0.9	0.8	-0.4	1.3	1.7	-0.9	0.8	-0.4	1.3	1.7
	8H	-1.0	0.9	-0.5	1.4	1.9	-1.0	0.9	-0.5	1.4	1.9
	12H	-1.1	0.9	-0.6	1.4	1.9	-1.1	0.9	-0.6	1.4	1.9
8H	4H	-1.0	0.9	-0.5	1.4	1.9	-1.0	0.9	-0.5	1.4	1.9
	6H	-1.1	0.7	-0.6	1.2	1.8	-1.1	0.7	-0.6	1.2	1.8
	8H	-1.2	0.5	-0.6	1.0	1.6	-1.2	0.5	-0.6	1.0	1.6
	12H	-1.0	0.1	-0.5	0.6	1.1	-1.0	0.1	-0.5	0.6	1.1
12H	4H	-1.1	0.9	-0.6	1.4	1.9	-1.1	0.9	-0.6	1.4	1.9
	6H	-1.2	0.5	-0.6	1.0	1.6	-1.2	0.5	-0.6	1.0	1.6
	8H	-1.0	0.1	-0.5	0.6	1.1	-1.0	0.1	-0.5	0.6	1.1

Variations with the observer position at spacing:

S =	1.0H	3.9 / -3.9	3.9 / -3.9
	1.5H	6.4 / -5.8	6.4 / -5.8
	2.0H	8.3 / -7.1	8.3 / -7.1