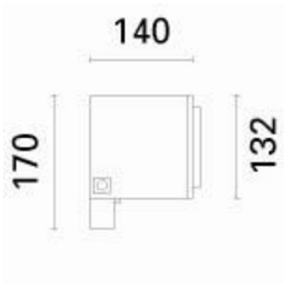
iPro

Design Mario Cucinella **iGuzzini**

Last information update: June 2018



Spotlight with bracket - Warmk White COB LED - electronic ballast 220÷240V ac - medium optic

Product code
BX03

Technical description
Floodlight designed to use Warm White COB LED lamps with a medium optic. Can be installed at ground level, on walls (using screw anchors) and on pole mounting systems. The luminaire consists of an optical assembly/component-holding box and hidden fixing bracket. The optical assembly and front frame are made of die-cast aluminium alloy painted with a smooth finish (grey RAL 9007) or a textured finish (white RAL 9016). The painting process includes 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 next painting stage consists of a primer and a liquid acrylic paint, cured at 150°, with a high level of weather and UV ray resistance. The tempered sodium-calcium glass cover has customised serigraphy, is 4mm thick, and joined to the frame with silicone. The frame is fastened to the optical assembly by two M5 AISI 304 stainless steel captive screws and a galvanised steel safety cable. The product comes complete with a warm white colour, monochrome COB LED circuit, an optic with a 99.93% super-pure aluminium reflector with a polished, anodized surface and built-in electronic ballast. The component-holding box, in the rear of the luminaire, is set up to hold the control gear, which is fixed with captive screws on a galvanised steel pull-out plate. The control gear can be accessed through the rear door made of painted aluminium alloy, fixed to the product body with four M5 AISI 304 stainless steel captive screws and a safety cable. iPro can be adjusted +95°/ -5° relative to the horizontal line using a bracket made of extruded aluminium, on which a graduated scale (with 15° steps) is marked using serigraphy. The internal silicone seals guarantee watertightness IP66h Set up for pass-through wiring using a double M24x1.5 nickel-plated brass cable gland (suitable for cables with 7÷16mm diameter). All external screws used are made of A2 stainless steel. The luminaire technical characteristics conform to EN60598-1 standards and particular requirements.

Installation
Ground, wall or ceiling installation using special bracket. Secure using screw anchors for concrete, cement and solid brick.

Dimension (mm)
132x132x140

Colour
White (01) | Grey (15)

Weight (Kg)
2.8

Mounting
wall arm|ground surface|wall surface|ground anchored|ground spike|ceiling surface|u-bracket

Wiring
Luminaire with electronic control gear 220 ÷ 240V ac, 50/60 Hz.

Notes
IK09 with protective grille accessory.

Complies with EN60598-1 and pertinent regulations

960°C IK07 IP66

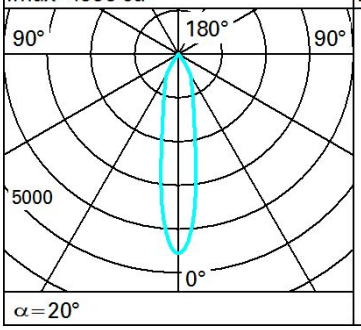
Product configuration: BX03

Product characteristics
Total lighting output [Lm]: 1184
Total power [W]: 13.6
Luminous efficacy [Lm/W]: 87.1
Life Time: 100,000h - 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: 100,000h - L80 - B10 (Ta 40°C)
Number of optical assemblies: 1

Optical assembly Characteristics Type 1
Light Output Ratio (L.O.R.) [%]: 64
Lamp code: LED
ZVEI Code: LED
Nominal power [W]: 12
Nominal luminous [Lm]: 1850
Lamp maximum intensity [cd]: /
Beam angle [°]: 20°
Number of lamps for optical assembly: 1
Socket: /
Ballast losses [W]: 1.6
Colour temperature [K]: 3000
CRI: 80
Wavelength [Nm]: /
MacAdam Step: 2

Polar

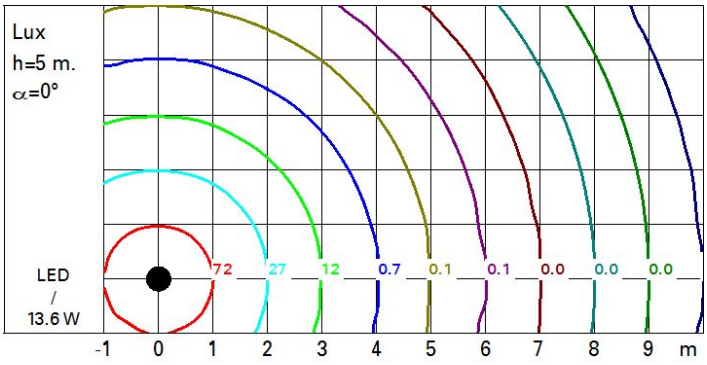
Imax=4556 cd



Lux

h	d	Em	Emax
2	0.7	888	1139
4	1.4	222	285
6	2.1	99	127
8	2.8	56	71

Isolux



UGR diagram

Corrected UGR values (at 1850 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	12.1	14.0	12.5	14.3	14.7	12.1	14.0	12.5	14.3	14.7
	3H	12.0	13.4	12.4	13.8	14.1	12.0	13.4	12.4	13.7	14.1
	4H	11.9	13.2	12.3	13.5	13.9	11.9	13.2	12.3	13.5	13.9
	6H	11.9	13.1	12.2	13.4	13.8	11.8	13.0	12.2	13.4	13.7
	8H	11.8	13.0	12.2	13.4	13.7	11.8	13.0	12.2	13.3	13.7
	12H	11.8	12.9	12.2	13.3	13.7	11.7	12.9	12.1	13.3	13.6
4H	2H	11.9	13.2	12.3	13.5	13.9	11.9	13.2	12.3	13.5	13.9
	3H	11.8	12.9	12.2	13.3	13.7	11.8	12.9	12.2	13.3	13.7
	4H	11.7	12.8	12.1	13.1	13.6	11.7	12.8	12.1	13.1	13.6
	6H	11.4	12.9	11.9	13.3	13.8	11.4	12.9	11.9	13.3	13.8
	8H	11.3	12.9	11.8	13.4	13.9	11.3	12.9	11.8	13.4	13.8
	12H	11.2	13.0	11.7	13.4	13.9	11.2	12.9	11.7	13.4	13.9
8H	4H	11.3	12.9	11.8	13.4	13.8	11.3	12.9	11.8	13.4	13.9
	6H	11.2	12.8	11.7	13.3	13.8	11.2	12.8	11.7	13.3	13.8
	8H	11.2	12.6	11.7	13.1	13.6	11.2	12.6	11.7	13.1	13.6
	12H	11.3	12.2	11.9	12.7	13.3	11.3	12.2	11.9	12.7	13.3
12H	4H	11.2	12.9	11.7	13.4	13.9	11.2	13.0	11.7	13.4	13.9
	6H	11.2	12.6	11.7	13.1	13.6	11.2	12.6	11.7	13.1	13.6
	8H	11.3	12.2	11.9	12.7	13.3	11.3	12.2	11.9	12.7	13.3

Variations with the observer position at spacing:

S =	1.0H	6.4 / -10.6	6.4 / -10.6
	1.5H	9.2 / -10.8	9.2 / -10.8
	2.0H	11.2 / -10.9	11.2 / -10.9