iPro

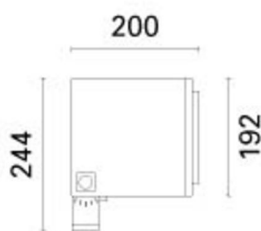|	
Design Mario Cucinella	**iGuzzini**

Last information update: December 2024

Product configuration: BV62
BV62: Floodlight with bracket - WNC Leds (white tuning) - 220÷240V ac electronic control gear- DMX512-RDM - Spot optic

Product code
BV62: Floodlight with bracket - WNC Leds (white tuning) - 220÷240V ac electronic control gear- DMX512-RDM - Spot optic

Technical description
Floodlight designed to use WNC LED lamps (nr.8 Warm 2700K leds, nr.9 Neutral 4000k leds and nr.8 Cool 6000K leds), a spot optic and a DMX512-RDM control with search and addressing function. 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°C, 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. Complete with multi-LED plate with individual white 2700K, 4000K and 6000K (WNC) LEDs, a built-in electronic ballast and a DMX512-RDM control card. Fitted with optics with a plastic (methacrylate) lens for spot lighting. 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). Each cable is set up for both the DMX signal and the mains supply feed. 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. It can also be installed on a MultiPro pole system using suitable accessories.

Colour	**Weight (Kg)**
White (01) | Black (04) | Grey (15) | Rust Brown (F5)	5.7

Mounting
wall arm|pole arm|ground surface|wall surface|ground anchored|ceiling surface|u-bracket|free standing

Wiring
Control gear complete with electronic ballast (220÷240Vac 50/60Hz) with a self-addressing DMX-RDM control. For the connection between the DMX signal cable and the power supply cable a Y IP68 connettor is available code no. BZN7.
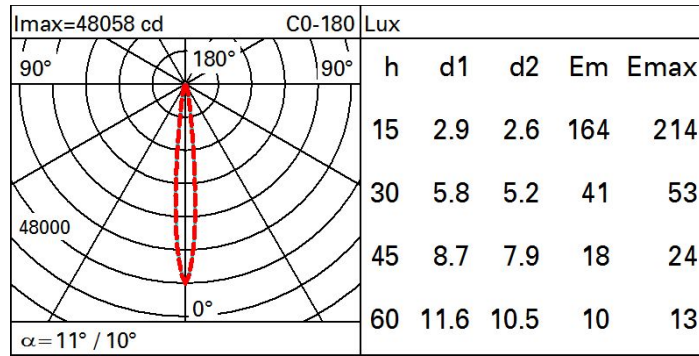
Notes
Product complete with LED lamp. IK09 with protective grille. DMX specifications require the insertion of a 120 Ohm resistor to be placed between the DATA+ and DATA- terminals of the last product in the line (BZQ7). If there is no DMX signal the product runs the colour temperature dynamic sequence by default. DALI versions and DMX512 versions with self-addressing are available on request.

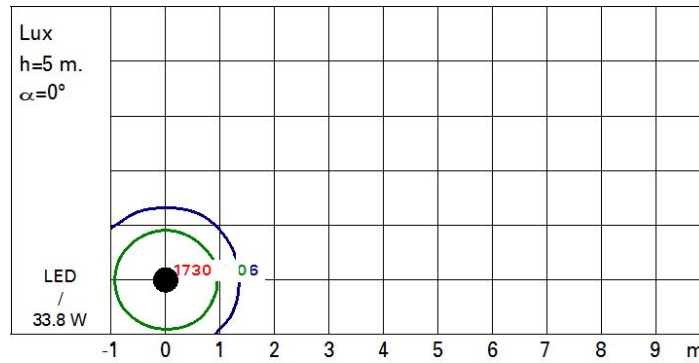Complies with EN60598-1 and pertinent regulations

960°C IK07 IP66 CE EAC

Technical data

lm system:	3239	Life Time LED 2:	95,000h - L80 - B10 (Ta 40°C)
W system:	33.8	Lamp code:	LED
lm source:	3950	Number of lamps for optical assembly:	1
W source:	28		
Luminous efficiency (lm/W, real value):	95.8	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 40°C.
Light Output Ratio (L.O.R.) [%]:	82	Power factor:	See installation instructions
Beam angle [°]:	12° / 10°	Inrush current:	10 A / 200 µs
CRI (minimum):	80	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 18 luminaires B16A: 30 luminaires C10A: 31 luminaires C16A: 51 luminaires
Colour temperature [K]:	Tunable white 2700 - 5000		
MacAdam Step:	3		
Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)	Minimum dimming %:	1
		Overvoltage protection:	4kV Common mode & 4kV Differential mode
		Dimming mode:	CCR
		Control:	DMX-RDM

Polar

Imax=48058 cd		C0-180	Lux			
90°	180°	90°	h	d1	d2	Em	Emax

Imax=48058 cd C0-180

h	d1	d2	Em	Emax
15	2.9	2.6	164	214
30	5.8	5.2	41	53
45	8.7	7.9	18	24
60	11.6	10.5	10	13

48000

$\alpha = 11° / 10°$

Isolux

Lux
h=5 m.
$\alpha = 0°$

LED / 33.8 W

1730   06

UGR diagram

Corrected UGR values (at 3950 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 x	y		viewed crosswise					viewed endwise			
2H	2H	10.4	12.4	10.8	12.7	13.0	10.4	12.3	10.7	12.6	13.0
	3H	10.5	11.8	10.9	12.1	12.4	10.4	11.6	10.7	11.9	12.3
	4H	10.5	11.5	10.9	11.8	12.1	10.3	11.3	10.7	11.6	12.0
	6H	10.5	11.2	10.9	11.5	11.9	10.3	11.0	10.7	11.3	11.7
	8H	10.4	11.2	10.8	11.6	11.9	10.2	11.0	10.6	11.4	11.7
	12H	10.3	11.2	10.7	11.6	12.0	10.1	11.1	10.5	11.4	11.8
4H	2H	10.4	11.3	10.7	11.7	12.0	10.4	11.4	10.8	11.7	12.1
	3H	10.4	11.3	10.8	11.7	12.0	10.3	11.3	10.7	11.6	12.0
	4H	10.2	11.4	10.7	11.8	12.2	10.2	11.3	10.6	11.7	12.2
	6H	9.9	11.7	10.4	12.1	12.6	9.9	11.6	10.3	12.0	12.5
	8H	9.8	11.7	10.3	12.1	12.6	9.7	11.6	10.2	12.1	12.6
	12H	9.7	11.6	10.2	12.1	12.6	9.7	11.5	10.2	12.0	12.5
8H	4H	9.8	11.7	10.3	12.1	12.6	9.8	11.6	10.2	12.1	12.6
	6H	9.8	11.4	10.3	11.9	12.4	9.7	11.3	10.2	11.8	12.3
	8H	9.8	11.1	10.3	11.6	12.1	9.7	11.0	10.3	11.5	12.0
	12H	10.0	10.7	10.5	11.2	11.7	9.9	10.6	10.4	11.1	11.7
12H	4H	9.7	11.6	10.2	12.1	12.6	9.7	11.5	10.2	12.0	12.5
	6H	9.8	11.1	10.3	11.6	12.1	9.7	11.0	10.3	11.5	12.0
	8H	10.0	10.7	10.5	11.2	11.7	9.9	10.6	10.4	11.1	11.7

Variations with the observer position at spacing:

S =	1.0H	1.8 / -2.6	2.0 / -2.5
	1.5H	2.7 / -5.1	3.0 / -4.6
	2.0H	4.6 / -7.9	5.0 / -7.7