Date: 20-12-23

Ref: MN2A-BAF-XX-XX-TS-000038[P02] – External Lighting FORM BFES 10/2

To: BAM

For the attention of: James Stockdale

Contract Title: PLOT 9A

Contract No: 5315

TECHNICAL SUBMISSION
T.S. NO: 000038

Dear Sirs

We are pleased to submit the following for your approval by : Date: 08-01-24

Equipment: EXTERNAL LIGHTING
Manufacturer: IGUZZINI & SPURLITE
Description: EXTERNAL LIGHTING
Specification References: MN2A-CDL-XX-XX-SP-N-090300
Drawing References:

Note

Attached detail documents:
Manufacturers Data: ☒
Manufacturers Leaflet: ☒
Manufacturers Drawings: ☐

Electrical Requirements: **N/A**

For Briggs & Forrester Engineering Services Ltd

Haz El-Ahwany

Approved/Approved with Comment **Date:**

Comments:

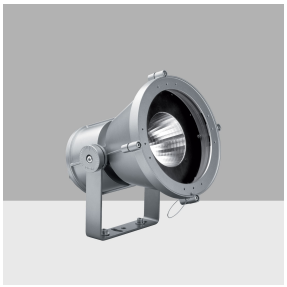
MaxiWoody

Design Mario Cucinella **iGuzzini**

EX 1 - Three luminaries per post

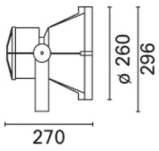
Last information update: July 2023

Product configuration: BU90
BU90: Spotlight with bracket - Neutral White COB LED - Integrated electronic control gear dimm 1-10V - Flood optic



Product code
BU90: Spotlight with bracket - Neutral White COB LED - Integrated electronic control gear dimm 1-10V - Flood optic

Technical description
Spotlight designed to use Neutral White COB LED lamps and a flood optic. Can be installed at ground level, on walls (using screw anchors) and on pole mounting systems. Consists of an optic assembly, component box, glass-holder frame and bracket. The optical assembly, component box, and glass-holder frame are 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 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 4 mm thick, tempered, sodium-calcium, closing glass is colourless, transparent and a seal is included. The 50/60 Shore A silicone seal is subjected to a post-curing treatment, in an oven, for 4 hours at 220 °C. The glass unit is fixed to the frame with silicone. The product comes complete with a neutral white colour, monochrome COB LED circuit, an optic with a 99.93% super-pure aluminium OPTIBEAM reflector with a polished, anodized surface and built-in electronic ballast. Zinc-coated stainless steel ballast holding plate; simplified extraordinary maintenance thanks to quick-coupling connectors between the control gear and the LED and the control gear and the wiring terminal block. Painted aluminium alloy box and rear cover, complete with spacers and captive screws. The floodlight can be adjusted by ±115° in the vertical plane using a painted steel bracket, with a graduated scale showing 10° steps and mechanical stops to guarantee stable aiming of the beam of light. Horizontal aiming is performed using the holes and slots in the bracket. Access to the optical assembly is simpler thanks to a nickel-plated brass decompression valve which eliminates the product internal vacuum. 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 and are of the captive type. The luminaire technical characteristics conform to EN60598-1 standards and particular requirements.



Installation
The luminaire can be floor, ceiling or wall-mounted using the supporting bracket fixed with screw anchors (Fisher type or similar) for concrete, cement and solid brick or various other available accessories. It can also be installed on a MultiWoody or CityWoody pole system.

Colour	**Weight (Kg)**
White (01) | Black (04) | Grey (15) | Rust Brown (F5)	4.57

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

Wiring
Control gear complete with a 1-10V dimmable electronic ballast (220÷240V ac 50/60Hz) and quick-coupling terminals.

Complies with EN60598-1 and pertinent regulations

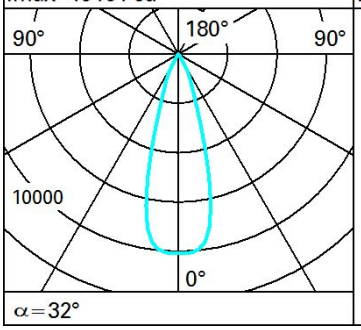
IK08 IP67

Technical data

Im system:	3154
W system:	26.8
Im source:	4050
W source:	23
Luminous efficiency (lm/W, real value):	117.7
Im in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	78
Beam angle [°]:	32°
CRI (minimum):	80
Colour temperature [K]:	4000
MacAdam Step:	2
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)
Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Ballast losses [W]:	3.8
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -30°C to 50°C.
Power factor:	See installation instructions
Inrush current:	42 A / 100 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 21 luminaires B16A: 34 luminaires C10A: 35 luminaires C16A: 57 luminaires
Minimum dimming %:	0
Overvoltage protection:	2kV Common mode & 1kV Differential mode
Control:	1-10V

Polar

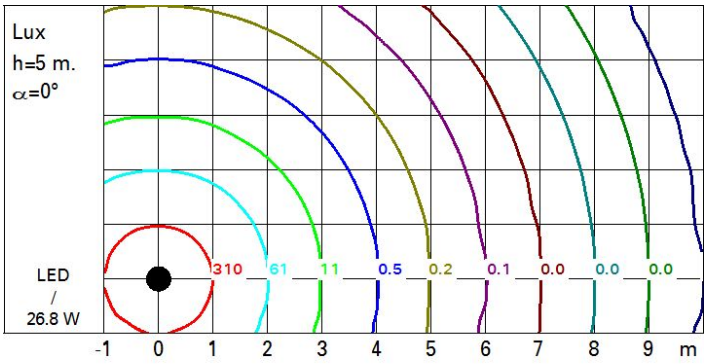
Imax=10101 cd



Lux

h	d	Em	Emax
8	4.6	131	158
16	9.2	33	39
24	13.8	15	18
32	18.4	8	10

Isolux



UGR diagram

Corrected UGR values (at 4050 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	4.9	7.1	5.3	7.4	7.7	4.9	7.1	5.3	7.4	7.7
	3H	4.8	6.5	5.2	6.9	7.2	4.8	6.5	5.2	6.8	7.2
	4H	4.8	6.2	5.2	6.6	6.9	4.8	6.2	5.1	6.5	6.9
	6H	4.7	5.9	5.1	6.2	6.6	4.7	5.9	5.1	6.2	6.6
	8H	4.7	5.8	5.1	6.2	6.5	4.7	5.8	5.1	6.1	6.5
	12H	4.7	5.7	5.1	6.1	6.5	4.6	5.7	5.0	6.1	6.4
4H	2H	4.8	6.2	5.1	6.5	6.9	4.8	6.2	5.2	6.6	6.9
	3H	4.7	5.8	5.1	6.1	6.5	4.7	5.8	5.1	6.1	6.5
	4H	4.6	5.6	5.1	6.0	6.4	4.6	5.6	5.1	6.0	6.4
	6H	4.3	5.9	4.8	6.4	6.8	4.3	5.9	4.8	6.4	6.8
	8H	4.2	6.0	4.6	6.5	7.0	4.1	6.0	4.6	6.5	7.0
	12H	4.0	6.0	4.6	6.5	7.0	4.0	6.0	4.5	6.5	7.0
8H	4H	4.1	6.0	4.6	6.5	7.0	4.2	6.0	4.6	6.5	7.0
	6H	4.0	5.9	4.5	6.3	6.9	4.0	5.9	4.6	6.4	6.9
	8H	4.0	5.7	4.5	6.2	6.7	4.0	5.7	4.5	6.2	6.7
	12H	4.2	5.2	4.7	5.7	6.3	4.2	5.3	4.7	5.8	6.3
12H	4H	4.0	6.0	4.5	6.5	7.0	4.0	6.0	4.6	6.5	7.0
	6H	4.0	5.7	4.5	6.2	6.7	4.0	5.7	4.5	6.2	6.7
	8H	4.2	5.3	4.7	5.8	6.3	4.2	5.2	4.7	5.7	6.3

Variations with the observer position at spacing:

S =			
	1.0H	6.4 / -7.1	6.4 / -7.1
	1.5H	9.1 / -8.3	9.1 / -8.3
	2.0H	11.1 / -9.4	11.1 / -9.4

Aluminium flange for installation on poles ø 120 mm - for 1 projector MaxiWoody ø260-ø315-ø380/ iPro □192mm

Design iGuzzini **iGuzzini**

EX 1 Flange

Last information update: February 2023



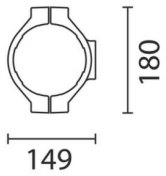
Accessory code
6012: Aluminium flange for installation on poles ø 120 mm - for 1 projector MaxiWoody ø260-ø315-ø380/ iPro □192mm

Technical description
Aluminium die-cast flange with surface treatment by texturised liquid painting. It can be installed on any ø120mm-pole with no need to make holes for mechanical anchoring. It permits rotating completely the Maxiwoody projector in all directions thanks to the combined projector/flange rotations (continuous) and bracket/flange rotations (360°). Installation is guaranteed by stainless-steel nuts, bolts and screws. Each flange has hexagonal seats for nut antirotation.

Installation
Installation on ø120-mm cylindrical pole by means of four M8x45-mm screws and four self-blocking nuts - all in stainless-steel

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

Weight (Kg)
1.55



Wiring
The power-supply cable passes through a cabling sheath (hole diameter = 15 mm) to enter the pole.

Complies with EN60598-1 and pertinent regulations

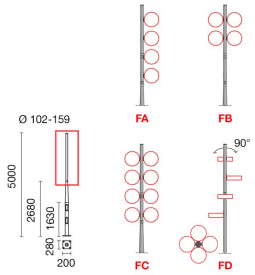
960°C

Agorà

Design Jean-Michel Wilmotte **iGuzzini**

Last information update: June 2023

EX 1 Post - 5 meter



Accessory code
X734: Pole with plate H= 5000, Ø 159-102mm with twin access cover 310x95mm.

Technical description
Conical-cylindrical pole made of 70 micron hot galvanised steel, in compliance with UNI EN ISO 1461 (EN 40-5), subsequently surface treated with textured acrylic powder paint. The standard painting cycle refers to the UNI EN ISO 12944 standard with durability class C4-H (suitable for industrial areas and coastal zones with moderate salinity). The UNI EN ISO 12944-1 standard specifies routine maintenance and 6-monthly checks to keep the product intact. The pole consists of two welded tubes made of EN10025-S235JR steel, with a base diameter of Ø159mm and a final diameter of Ø102mm with a base thickness including the conical part of 4mm, an upper part of 4mm, and a total height of 5000mm. The slots for the access covers measure 310x95mm, at an initial height of 600mm from the ground, and 630mm apart, so the terminal block can be fitted with a fuse (code 1863). The flush access covers are made of die-cast al3minium and supplied with the relative large triangular key (9 mm key side) for access covers (code 0246). A non-ageing gasket adapts to the uneven pole surface to ensure that it is sealed. The access cover is mounted using an anchor plate spot welded inside the pole. A polycarbonate closing cap is installed at the top of the pole. The pole is suitable for withstanding the dynamic thrust of the wind, in conformity with the applicable regulations. The pole is supplied pre-perforated with the holes specified in the catalogue. These include 2 holes with stainless steel inserts for installing the flange and 1 hole with a rubber gasket for the installed product cable to pass through.

Installation
The pole is applied by connecting the welded plate to the anchor plate, which is made of EN10130 DC01 hot galvanised steel, and using anchoring bolts that prevent it from moving.

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

Flange Drilling
4 forature verticali (FA) | 2+2 forature orizzontali (FB) | 4+4 forature orizzontali (FC) | elica con 4 forature a 90° (FD)

Wiring
The product wiring is contained at the end of the pole (wiring boxes and connectors to be ordered separately). The pole is supplied with both an internal earth located at the height of the access cover and an external earth (the pole includes a hole for fixing the grounding lug, designed to house the external grounding cable).

Complies with EN60598-1 and pertinent regulations

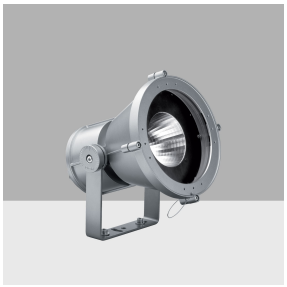
MaxiWoody

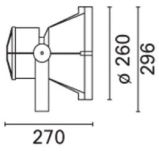
Design Mario Cucinella **iGuzzini**

EX 2 - 2 luminaries per Bracket

Last information update: July 2023

Product configuration: BU90
BU90: Spotlight with bracket - Neutral White COB LED - Integrated electronic control gear dimm 1-10V - Flood optic





Product code
BU90: Spotlight with bracket - Neutral White COB LED - Integrated electronic control gear dimm 1-10V - Flood optic

Technical description
Spotlight designed to use Neutral White COB LED lamps and a flood optic. Can be installed at ground level, on walls (using screw anchors) and on pole mounting systems. Consists of an optic assembly, component box, glass-holder frame and bracket. The optical assembly, component box, and glass-holder frame are 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 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 4 mm thick, tempered, sodium-calcium, closing glass is colourless, transparent and a seal is included. The 50/60 Shore A silicone seal is subjected to a post-curing treatment, in an oven, for 4 hours at 220 °C. The glass unit is fixed to the frame with silicone. The product comes complete with a neutral white colour, monochrome COB LED circuit, an optic with a 99.93% super-pure aluminium OPTIBEAM reflector with a polished, anodized surface and built-in electronic ballast. Zinc-coated stainless steel ballast holding plate; simplified extraordinary maintenance thanks to quick-coupling connectors between the control gear and the LED and the control gear and the wiring terminal block. Painted aluminium alloy box and rear cover, complete with spacers and captive screws. The floodlight can be adjusted by ±115° in the vertical plane using a painted steel bracket, with a graduated scale showing 10° steps and mechanical stops to guarantee stable aiming of the beam of light. Horizontal aiming is performed using the holes and slots in the bracket. Access to the optical assembly is simpler thanks to a nickel-plated brass decompression valve which eliminates the product internal vacuum. 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 and are of the captive type. The luminaire technical characteristics conform to EN60598-1 standards and particular requirements.

Installation
The luminaire can be floor, ceiling or wall-mounted using the supporting bracket fixed with screw anchors (Fisher type or similar) for concrete, cement and solid brick or various other available accessories. It can also be installed on a MultiWoody or CityWoody pole system.

Colour	**Weight (Kg)**
White (01) | Black (04) | Grey (15) | Rust Brown (F5)	4.57

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

Wiring
Control gear complete with a 1-10V dimmable electronic ballast (220÷240V ac 50/60Hz) and quick-coupling terminals.

Complies with EN60598-1 and pertinent regulations

IK08 IP67

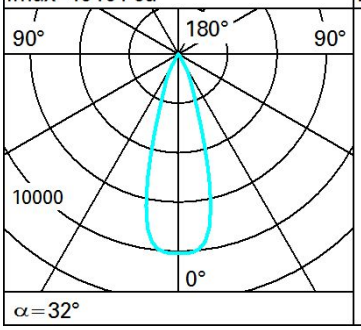
Technical data

lm system:	3154
W system:	26.8
lm source:	4050
W source:	23
Luminous efficiency (lm/W, real value):	117.7
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	78
Beam angle [°]:	32°
CRI (minimum):	80
Colour temperature [K]:	4000
MacAdam Step:	2
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)

Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
Ballast losses [W]:	3.8
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -30°C to 50°C.
Power factor:	See installation instructions
Inrush current:	42 A / 100 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 21 luminaires B16A: 34 luminaires C10A: 35 luminaires C16A: 57 luminaires
Minimum dimming %:	0
Overvoltage protection:	2kV Common mode & 1kV Differential mode
Control:	1-10V

Polar

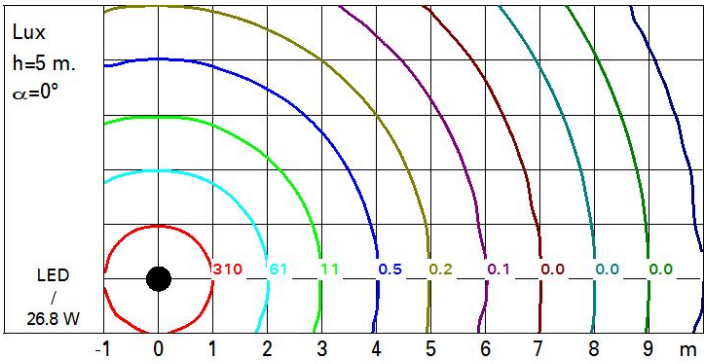
Imax=10101 cd



Lux

h	d	Em	Emax
8	4.6	131	158
16	9.2	33	39
24	13.8	15	18
32	18.4	8	10

Isolux



UGR diagram

Corrected UGR values (at 4050 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	4.9	7.1	5.3	7.4	7.7	4.9	7.1	5.3	7.4	7.7
	3H	4.8	6.5	5.2	6.9	7.2	4.8	6.5	5.2	6.8	7.2
	4H	4.8	6.2	5.2	6.6	6.9	4.8	6.2	5.1	6.5	6.9
	6H	4.7	5.9	5.1	6.2	6.6	4.7	5.9	5.1	6.2	6.6
	8H	4.7	5.8	5.1	6.2	6.5	4.7	5.8	5.1	6.1	6.5
	12H	4.7	5.7	5.1	6.1	6.5	4.6	5.7	5.0	6.1	6.4
4H	2H	4.8	6.2	5.1	6.5	6.9	4.8	6.2	5.2	6.6	6.9
	3H	4.7	5.8	5.1	6.1	6.5	4.7	5.8	5.1	6.1	6.5
	4H	4.6	5.6	5.1	6.0	6.4	4.6	5.6	5.1	6.0	6.4
	6H	4.3	5.9	4.8	6.4	6.8	4.3	5.9	4.8	6.4	6.8
	8H	4.2	6.0	4.6	6.5	7.0	4.1	6.0	4.6	6.5	7.0
	12H	4.0	6.0	4.6	6.5	7.0	4.0	6.0	4.5	6.5	7.0
8H	4H	4.1	6.0	4.6	6.5	7.0	4.2	6.0	4.6	6.5	7.0
	6H	4.0	5.9	4.5	6.3	6.9	4.0	5.9	4.6	6.4	6.9
	8H	4.0	5.7	4.5	6.2	6.7	4.0	5.7	4.5	6.2	6.7
	12H	4.2	5.2	4.7	5.7	6.3	4.2	5.3	4.7	5.8	6.3
12H	4H	4.0	6.0	4.5	6.5	7.0	4.0	6.0	4.6	6.5	7.0
	6H	4.0	5.7	4.5	6.2	6.7	4.0	5.7	4.5	6.2	6.7
	8H	4.2	5.3	4.7	5.8	6.3	4.2	5.2	4.7	5.7	6.3

Variations with the observer position at spacing:

S =			
	1.0H	6.4 / -7.1	6.4 / -7.1
	1.5H	9.1 / -8.3	9.1 / -8.3
	2.0H	11.1 / -9.4	11.1 / -9.4

multiple support for 2 floodlights

Design iGuzzini **iGuzzini**

Last information update: February 2023

EX 2 - Bracket



Accessory code
6014: multiple support for 2 floodlights

Technical description
It is made up of two aluminium cast attachments treated by phosphochromatisation and joined by a 70-micron hot-galvanised bent sheet-steel profile (type EN10130 FEP01 Am UNI 5866) by means of socket-head screws M10 with flared heads. The attachments are complete with aluminium spacers to avoid deterioration of the painted aluminium profile. The projectors can completely rotate in all directions thanks to the anchoring holes. The distance between the holes is 600 mm. Surface treatment of the multiple support by texturised liquid painting. All nuts and bolts are in stainless steel.

Installation
Installation to the wall, ground and ceiling by means of fischer screws M8

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

Weight (Kg)
6.25

Wiring
The installer can decide where the power supply cable will pass.

Complies with EN60598-1 and pertinent regulations

960°C

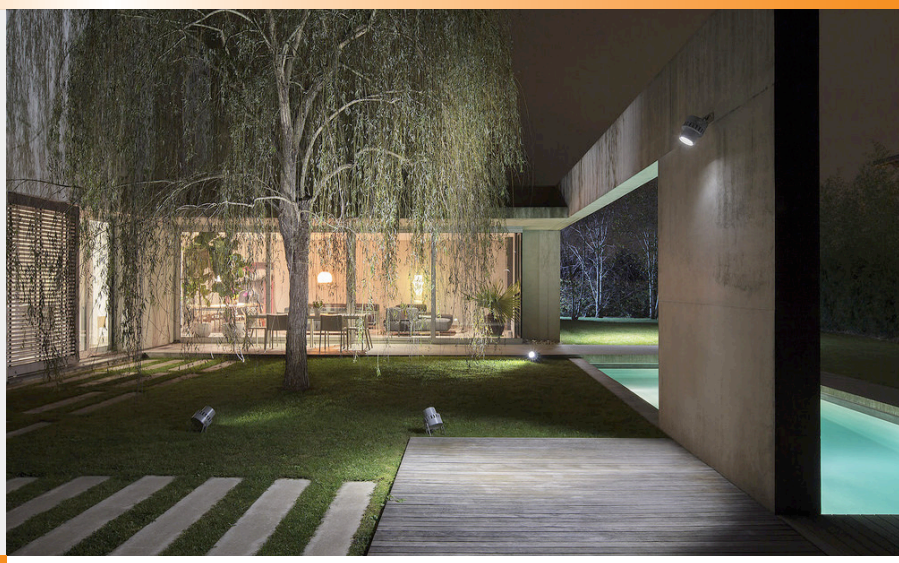
KIRK

LED PROJECTOR LUMINAIRE

Adjustable LED projector for outdoor installation on ceiling, wall and ground.

This fitting is IP67 rated with am impact protection rating of IK06.

Available in 3 sizes, a choice of LED's, colour finishes and beam angles.



Suitable for a range of outdoor applications.

SPECIFICATION

- Adjustable projector for installation on ceiling, wall or floor.
- Configuration: die-cast aluminium structure, EN AB-47100 alloy (low copper content) and AISI 316L fixing plate. Glass diffuser: extra clear with silkscreen border, fixed to the aluminium through a robotic gluing system. The wiring unit and the emitting unit are connected by an adjustable junction.
- Double layer coating for high resistance to corrosion: the aluminium components are painted with a double coat using powders which are compliant with QUALICOAT standards: a first layer of epoxy powder (with excellent chemical and mechanical resistance) and a second finishing layer of polyester powder (resistant to UV rays and atmospheric agents). The entire painting process of the aluminium fitting starts from components which have been sand-blasted in advance to make the surface more porous and increase the adherence of the paint. A chemical conversion treatment is done to protect against rusting.
- Protection rating: IP65.
- In compliance with EN60598-1 standards.
- Class of insulation: I.
- Installation: the luminaire is for direct connection to 220- 230V with a LED module set to work directly connected to the mains. The luminaire is equipped with an AISI316L stainless steel fixing plate for installation on surface and IP68 connector (6<Ø<8mm cable). Ground spike available on request.



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EU Regulation 874/2012 - Illumination equipment energy classes



LED VERSION:
Class A/A+/A++
Luminaire supplied
with integrated LED modules
that cannot be replaced


Floor installation


Wall fitting


Ceiling fitting


Protection against impact
IK 06 - 1,00 joule

.1 White

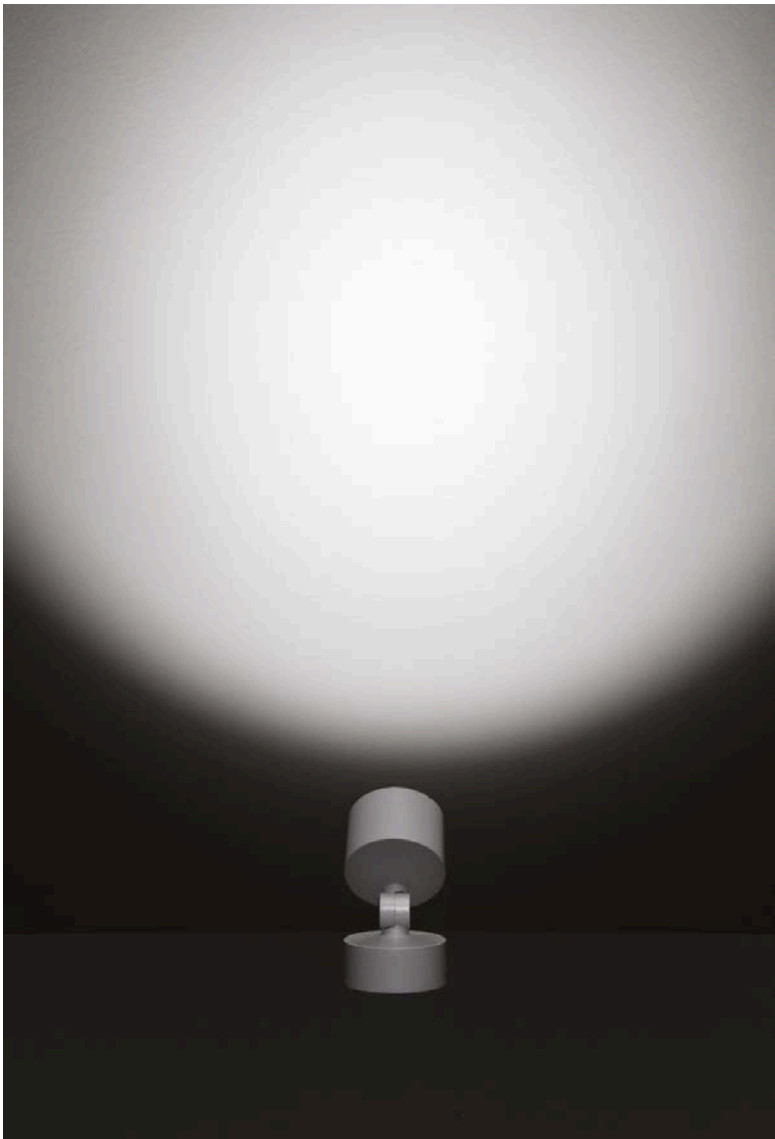

.6 Grey


.3 Anthracite


.4 Black


.18 Deep Brown





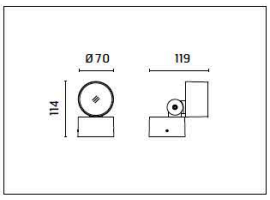
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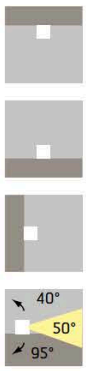
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Kirk70 - Adjustable - 50° - Direct 230V

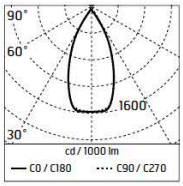
Light Source: CoB LED / 4,5W / Total power 6W / CRI>80 / 220÷240V

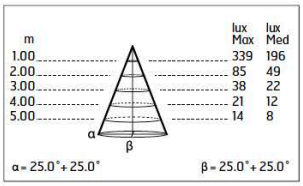






540001.A
White 3000K
Lm LED 350 ≠ lm OUTPUT 244
LED module set up to work directly connected to the mains



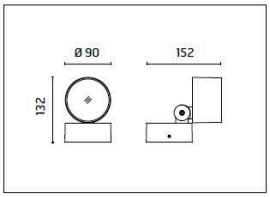


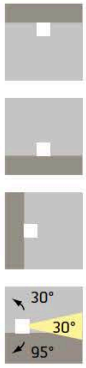
IP65

Kirk90 - Adjustable - 30° - Direct 230V

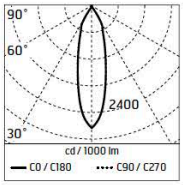
Light Source: CoB LED / 10W / Total power 12W / CRI >80 / 220÷240V

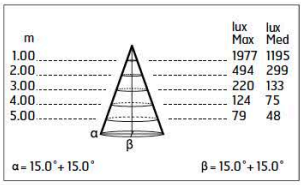






540002
White 3000K
Lm LED 951 ≠ lm OUTPUT 713
LED module set up to work directly connected to the mains



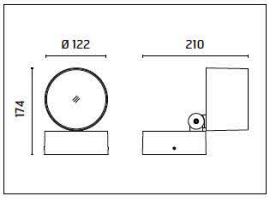


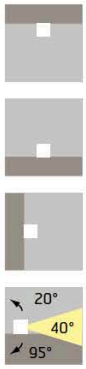
IP65

Kirk120 - Adjustable - 40° - Direct 230V

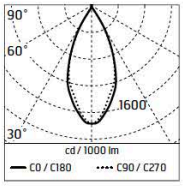
Light Source: CoB LED / 22W / Total power 24W / CRI >80 / 220÷240V

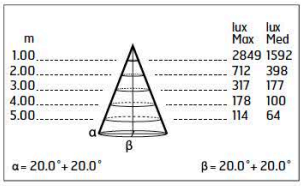






540003
White 3000K
Lm LED 2303 ≠ lm OUTPUT 1610
LED module set up to work directly connected to the mains

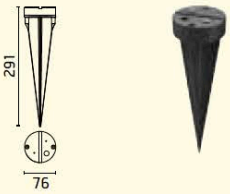




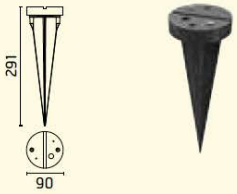
IP65

Accessories: Kirk

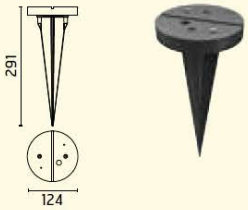
264
GROUND SPIKE - Ø 70mm



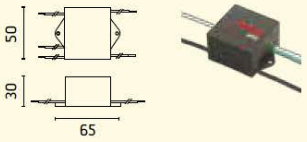
266
GROUND SPIKE - Ø 90mm



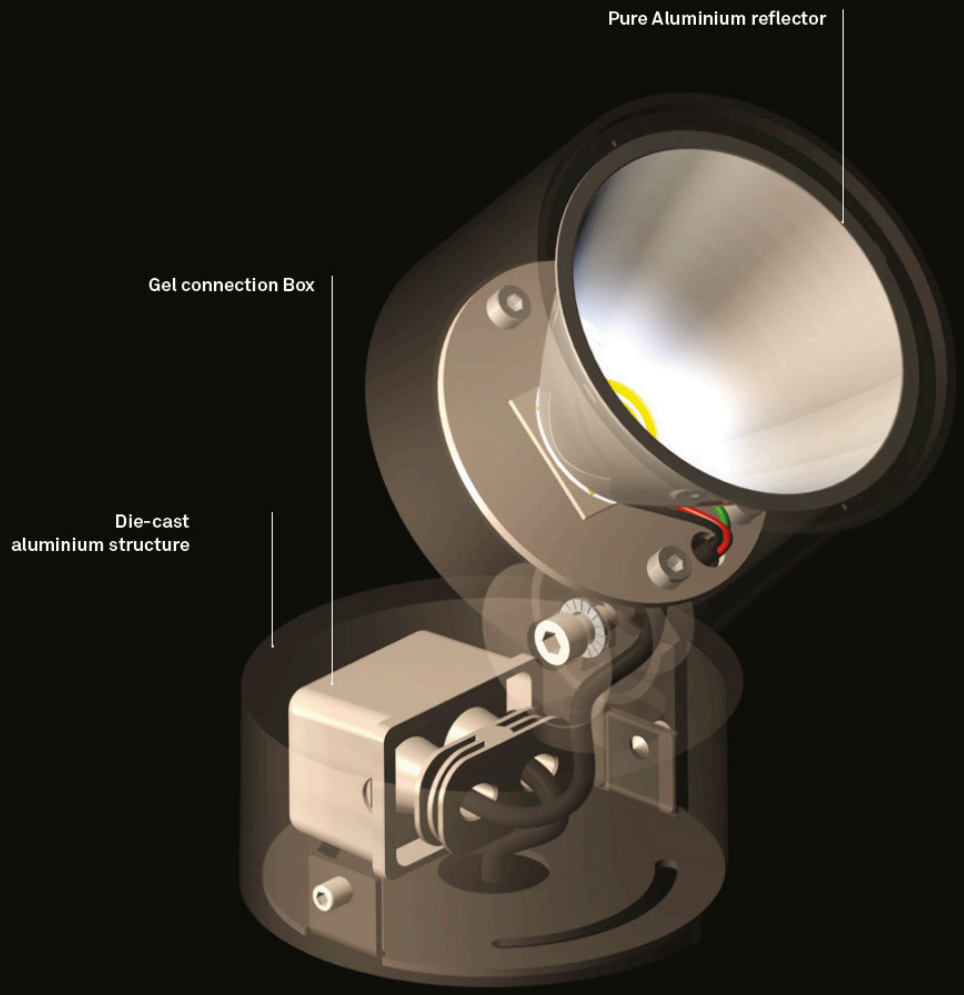
268
GROUND SPIKE - Ø 130mm



237
SPD: (SURGE PROTECTION DEVICE)
275Vac
MAXIMUM DISCHARGE CURRENT 10KA (8/20µs)
MAXIMUM OPERATING CURRENT 5A
SUITABLE FOR SERIES CONNECTION
- IP66



acc. code ▶ / prod. code ▼	264	266	268	237
540001.A	•			•
540002		•		•
540003			•	•



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EX 4

RISE 225 HE

SUBHEADING

A recessed, in-ground luminaire manufactured from die-cast aluminium with a matt stainless steel bezel and a clear tempered glass diffuser.

RISE is equipped with a visor that tilts on the vertical axis and that is adjustable on the horizontal axis in order to adjust brightness and to perfectly adapt it to the desired effect on the surface.

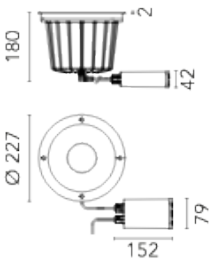


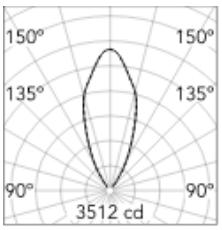
Suitable for outdoor applications.

SPECIFICATION

- Mounting: In-ground
- Construction: The structure and sink are made of EN AB-47100 die-cast aluminum coated with a double layer of highly corrosion-resistant paint. The external cap is made of AISI 316L shot-blasted stainless steel. Tempered, transparent glass for higher resistance
- Colour: Matt Stainless Steel
- LED type: LED array
- Power: 17W
- System power: 21W
- Source flux (lm): 2415
- System flux (lm): 1799
- Lighting type: Direct
- Light distribution: Symmetric
- CCT (K): 3000
- CRI>: 80
- Beam angle C0-180 (º): 40
- Beam angle C90-270 (º): 40
- Rotation (º): 359
- Longitudinal tilting (°): 15
- IP internal: 66/67
- Impact resistance: IK10
- Driver: Remote included (24V DC)
- Notes: Installation box required (ordered separately). Remote power supply that must be placed in a junction box







Luminous flux luminaire
1799 lm

Beam Angle: 41°

h(m)	E(lx)	D(m)
1	3512	0.76
2	878	1.52
3	390	2.27
4	220	3.03
5	140	3.79

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Linealuce

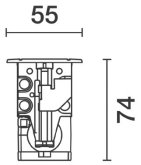
Design Jean-Michel Wilmotte **iGuzzini**

EX5

Last information update: December 2023

Product configuration: BW18+X010.00
BW18: Mini Linear Recessed Luminaire - Neutral White LEDs - 24V dc - L=552mm - Wall Grazing Optic
X010.00: Casing - L=545 - Indeterminate





Product code
BW18: Mini Linear Recessed Luminaire - Neutral White LEDs - 24V dc - L=552mm - Wall Grazing Optic

Technical description
Direct light luminaire, designed to use Neutral White monochrome LED lamps, and a Wall Grazing optic. Ground-, wall- and ceiling-recessed. Consists of a body and outer casing for installation, to be ordered separately. Extruded aluminium body, with die-cast aluminium end caps complete with silicone seals. 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 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. Lower PPS (polyphenylene sulfide) box for control gear. The top of the optical assembly is closed by a 8mm thick transparent glass screen, fixed with silicone. Complete with multi-LED plate in Neutral White with 24V dc electronic circuit (ballast to be ordered separately). 24V intelligent driver that ensures light flow emission is constant even when the input voltage varies (from 30V dc to 16V dc). Fitted with a PMMA diffusing filter and optics with plastic (methacrylate) lens for Wall Grazing lighting. The lower box has two PG11 nickel-plated brass cable glands for Ø6.5÷11mm cables used for pass-through wiring. To fix the optical assembly to the outer casing or false ceiling the product has a quick coupling system using an Allen key. Outer casing for installation made of aluminium with technopolymer covers, to be ordered separately. All external screws used are made of A2 stainless steel. The luminaire technical characteristics conform to EN 60598-1 standards and particular requirements.

Installation
Ground- and wall-recessed using the outer casing, to be ordered separately. For ground installation a drainage channel must be created or gravel inserted for drainage under the outer casing before installation, to guarantee the degree of protection stated. For ceiling-mounting with plasterboard panels (1-30 mm thick), make the preparation openings as indicated in the instructions sheet and use the accessory with code X013 (kit containing steel cables with reinforcement plates).

Colour	**Weight (Kg)**
Grey (15)	1.35

Mounting
wall recessed|ceiling recessed|ground recessed

Wiring
Equipped with a 24V dc electronic circuit fitted inside the device. 24V dc electronic ballasts to be ordered separately. For the electrical connection the product has a lower box holding two quick coupling terminals (3-pole, max. 4 mm2) and double cable glands for pass-through wiring.

Notes
Product complete with LED lamp. The frame, glass, optical assembly and outer casing together guarantee a maximum static load of 1000 kg.

Complies with EN60598-1 and pertinent regulations

850°C IK09 1000 kg IP65 IP67



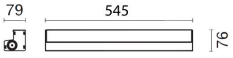
Accessory code
X010.00: Casing - L=545 - Indeterminate

Technical description
Aluminium outer casing L=545mm complete with technopolymer side and upper caps and black rubber membrane cable glands. The side caps are supplied with openable circular walls to facilitate the insertion of corrugated tubes (passage of power cables). To be used on recessed Linealuce Mini modules L=552mm with static monochrome leds

Installation
For ground- or wall-recessed installation with cast cement/concrete or other suitable material. For ground installation a drainage channel must be created (positioned below the special holes) or gravel inserted for drainage under the outer casing before installation, to guarantee the degree of protection stated.

Colour	**Weight (Kg)**
Indeterminate (00)	0.5

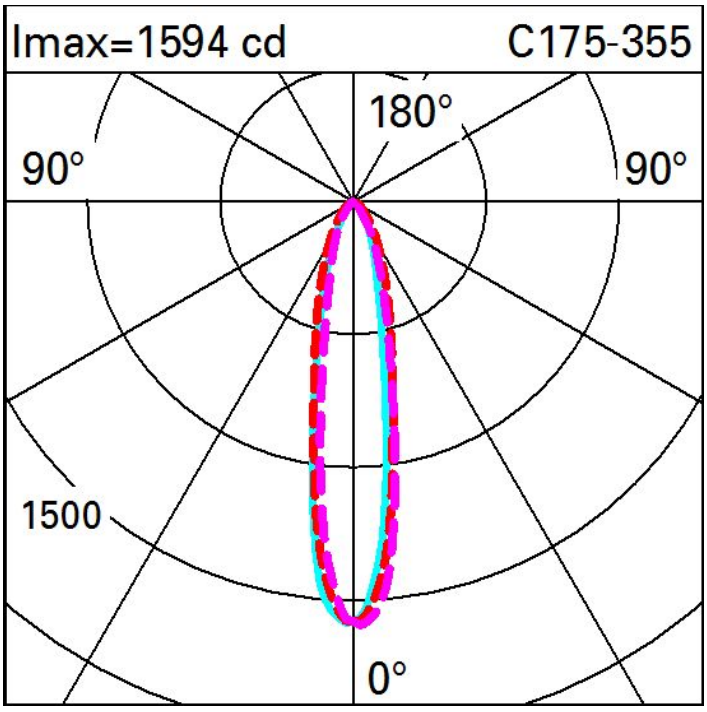
Complies with EN60598-1 and pertinent regulations



Technical data

lm system:	463	Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)
W system:	7.1	Life Time LED 2:	100,000h - L80 - B10 (Ta 40°C)
lm source:	890	Ballast losses [W]:	1.2
W source:	5.9	Voltage [Vin]:	24
Luminous efficiency (lm/W, real value):	65.2	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	52	Number of optical assemblies:	1
CRI (minimum):	80	Intervallo temperatura ambiente:	from -30°C to 50°C.
Colour temperature [K]:	4000	LED current [mA]:	350
MacAdam Step:	3	Control:	PWM

Polar



Illuminances

