TECHNICAL DATA

732030PC

BAELO 55W SOLAR STREET LIGHT 55W PC AMBER – SUPER WARM WHITE

Solar street light for public lighting with integrated solar panel, BAELO model, 55W power consumption and 8250lm luminous flux. PC Amber – Super warm white colour temperature. Equipped with 192 Lumileds SMD2835 LED chips. 12.8Vdc, 18Ah LiFePO4 battery and 100% autonomy for two cycles with programmed operation. Includes microwave sensor. Asymmetrical 160°x80° beam angle. IP66 protection rating against external elements and IK08 mechanical impact resistance rating. Aluminium body with C3 anti-corrosion treatment (ISO 12944), monocrystalline solar panel and polycarbonate lenses. Adjustable arm for installation on pole or column. Remote control NOT included.



PRODUCT SPECIFICATIONS

Item code:	732030PC
Description:	Solar street light for public lighting Baelo

ELECTRICAL DATA

Power:	55W
Dimmable:	YES
Electrical insulation class:	CLASS III

LUMINOUS DATA

Color temperature:	PC Amber – Super warm white
Luminous efficiency:	150 lm/w
Lumens:	8250 lm
LED chip brand:	Lumileds
LED chip model:	SMD 2835
Number of LED chips:	192 pcs
Beam angle:	160°x80°
Light distribution:	Asymmetric
Color rendering index:	>80
Luminous maintenance factor:	L90B10

BATTERY DATA

Model:	**12.8Vdc, 18Ah LiFePO4**
Capacity:	**30Ah**
Charging time:	**11 hrs**
Operating hours:	**100%, two cycles with programmed operation**
Charge and discharge cycles:	**2100 @0.5C 20° / 30°C**

SOLAR PANEL SPECIFICATIONS

Power:	**55W**
Voltage:	**18V**
Charging efficiency:	**>22%**

MOTION SENSOR DATA

Sensor type:	**Microwave**
Configuration options:	**NOT**
Detection area:	**Max. 10 mts**
Detection angle:	**65°**
On time:	**15 seg.**

OPERATION DATA

Control mode:		**Remote contro**
Operation mode:		
Option 1:	**Permanent mode**	
Option 2:	**Operation with motion sensor: 30% Stand by / On 100%**	
Option 3:	**Operation with timer control**	
Luminous intensity regulation:		**YES**

TECHNICAL DATA

Protection rating:	**IP66 (Dust-tight and protected against powerful water jets)**
Impact rating:	**IK08 (5J)**
Operating temperature:	**-20° / 60°**
Mounting type:	**Surface-mounted**
Mounting method:	**Vertical-position bracket for column mounting** **Horizontal-position bracket for outreach arm mounting**
Mounting device:	**Adjustable inner diameter 48–60 mm**
Recommended installation height:	**4-8 mt**
Fixing system:	**Screws: 2 XM8x25 SUS304**
Spigot tilt angle:	**15°**

AVERAGE LIFESPAN

Lifetime:	**55000 h**

PHYSICAL DATA

Luminaire body	
Material:	**Alumínio**
Finish:	**Black**
Paint type:	**C3 anti-corrosion treatment, ISO 12944**
Optical	
Material:	**Polycarbonate**
Finish:	**Transparent**
Solar panel	
Material:	**Monocrystalline silicon and glass**
Weight	
Weight:	**7,50 kg**

OPERATING DIAGRAM

Option 1: Permanent mode

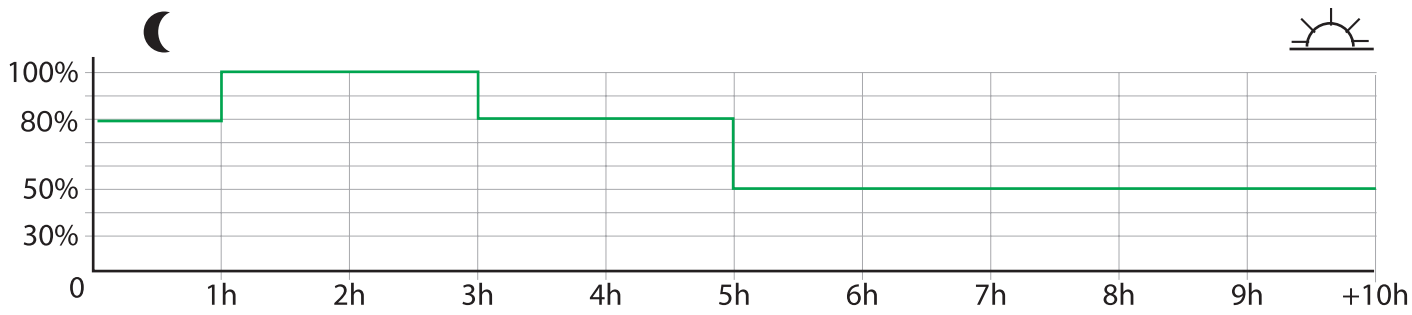
The luminaire features manual ON/OFF operation, allowing continuous operation.

Option 2: Motion sensor, 30% Stand by / On 100%



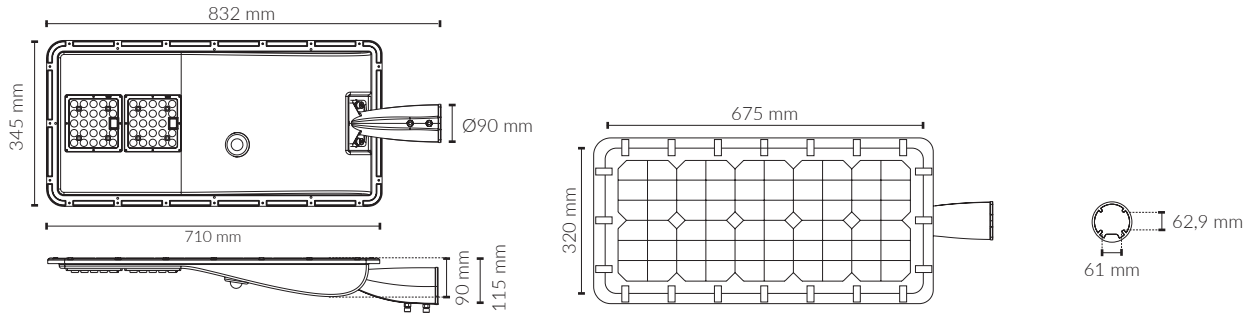
The luminaire remains at 30% brightness and switches to full output for 15 seconds when motion is detected.

Option 3: Time control

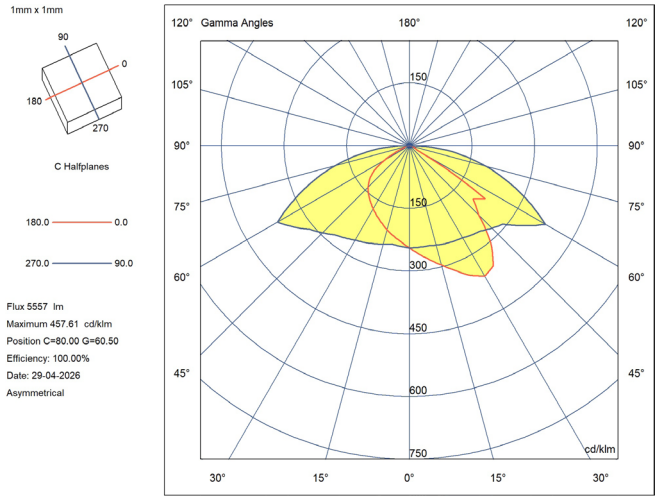


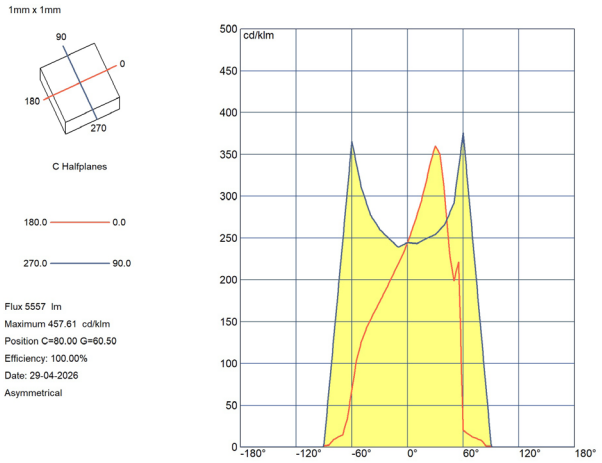
The luminaire turns on at dusk and switches off at dawn, with brightness levels gradually decreasing over time.

DIMENSIONS



LUMINOUS INTENSITY DISTRIBUTION CURVE





CERTIFICATIONS

CE & ROHS

EMC Directive 2014/30/EU – ELECTROMAGNETIC COMPATIBILITY

LVD Directive 2014/35/EU – LOW VOLTAGE

RoHS Directive 2011/65/EU and Commission Delegated Directive (EU) 2015/863
Determination of certain substances in electrotechnical products.

IEC 62321-3-1 **IEC 62321-4**

IEC 62321-5 **IEC 62321-6**

IEC 62321-7-1 **IEC 62321-7-2**

IEC 62321-8