# TECHNICAL DATA

## 732030PA

## BAELO 55W SOLAR STREET LIGHT 55W PC AMBER – AMBER WHITE

Solar street light for public lighting with integrated solar panel, BAELO model, 55W power consumption and 4675lm luminous flux. PC Amber – Amber 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: | 732030PA |
| Description: | Solar street light for public lighting Baelo |

### ELECTRICAL DATA

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

### LUMINOUS DATA

| | |
|---|---|
| Color temperature: | PC Amber – Amber white |
| Luminous efficiency: | 85 lm/w |
| Lumens: | 4675 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**<br>**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

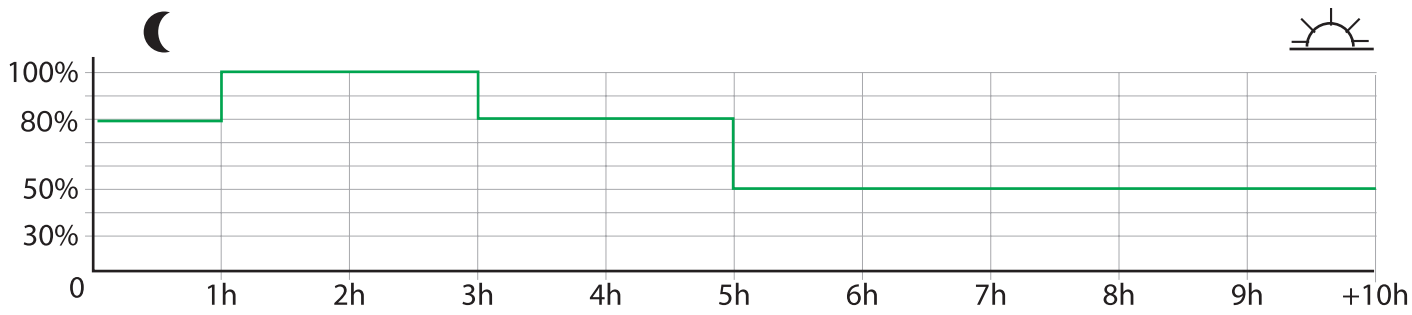
The luminaire features manual ON/OFF operation, allowing continuous operation.

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



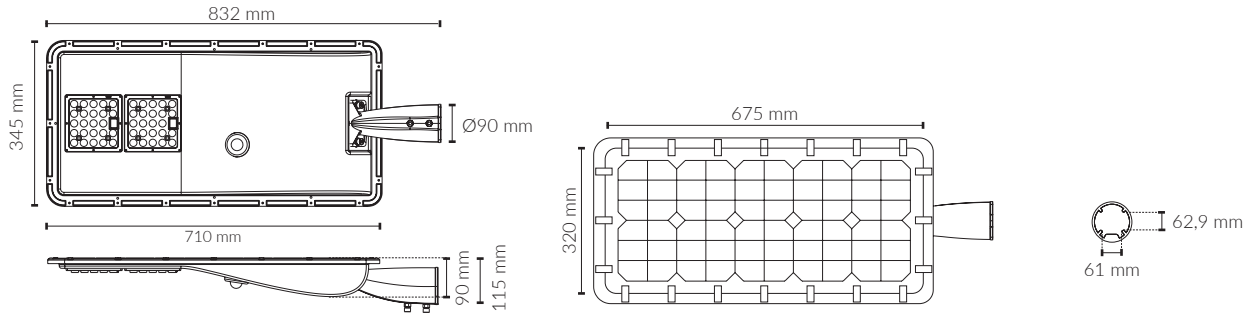

The luminaire remains at 30% brightness and switches to full output for 15 seconds when motion is detected.

### Option 3: Time control

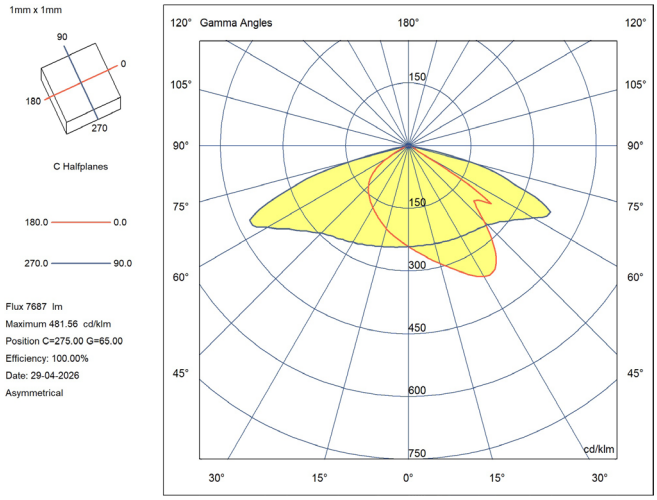


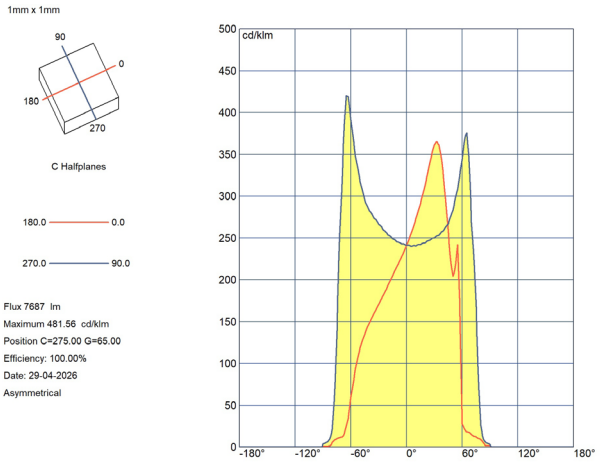

The luminaire turns on at dusk and switches off at dawn, with brightness levels gradually decreasing over time.

## 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**

CE RoHS