prolectric™
SMART CLEAN TECHNOLOGY

# ST Bollard
## Solar Lighting

**The ST solar bollard uses the latest LED technology for bright illumination with next-generation battery charging to optimise power usage.**

Long-lasting illumination is assured even through the darkest winters. With an attractive, modern design, the ST bollard is vandal-resistant and ready for easy installation, providing all-round lighting.

Prolectric's ST solar bollard delivers bright illumination all night and winter long. Its trusted performance is down to a combination of the latest LED technology and high-power lithium LiFePO4 batteries, together with Prolectric's integrated charging circuit, which constantly monitors the state of the batteries to optimise the charging levels.

The ST bollard operates in full shade or snow coverage and while fully submerged. By using premium grade materials for the dome top cover, which is most prone to being impacted by vandals, debris and direct exposure to sunlight and UV, it is able to withstand the harshest of environments for a minimum of 10 years without oxidising (yellowing) which stops the battery fully recharging and then over cycling reducing the battery lifespan severely and leads to failure, and more so becoming brittle and very easily broken by low level impact.

**No Emissions**
No greenhouse gas emissions.

**No Mains Power**
Economic to operate.

**Low Cost**
No need for trenches or cabling.

**No Maintenance**
Install and forget with a long operating life.

### Our customers include

QINETIQ
PGL
DAVID WILSON HOMES

1. Fully submersible
2. Vandal resistant
3. LiFePO4 battery


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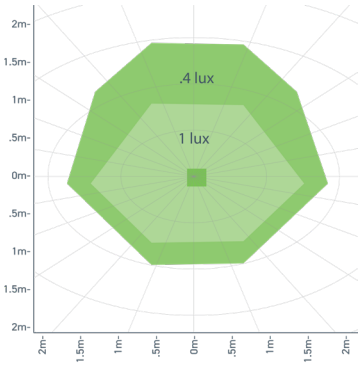
1W LED lamp with up to 180 lumens

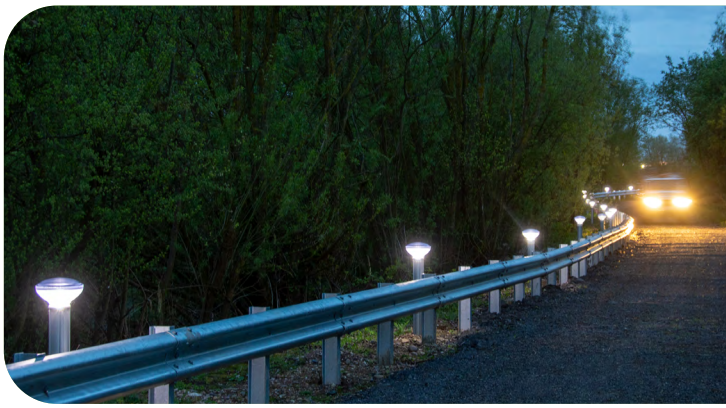
### ST Bollard Light Range




**ST Bollard Area**
**1x1W Lamp**
**1m Height**

**1 lux to 6 sqm**

**.4 lux to 11 sqm**



### General Specifications

| | |
|---|---|
| Housing | Polycarbonate |
| Pole | Anodised Aluminium 6106 |
| System power | 3.2V DC |
| Diameter | 257 mm |
| Net weight | 3 kg |

### Floodlights

| | |
|---|---|
| Power | 1W |
| LED | Nichia Initial 180 lm/W |

### Batteries

| | |
|---|---|
| Battery specification | 1x LiFePO4 lithium battery |
| Expected battery recharge cycles | 5,500 |

### Solar Panels

| | |
|---|---|
| PV peak | 5W |
| Material | Tempered Glass |

### Applications

The ST Bollard provides solar lighting for government infrastructure projects, community developments, marine projects, hotels, resorts, recreation facilities, theme parks, and industries, amongst others.

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