



# Why Lumena?

Established in 2009, Lumena have become well-known outdoor lighting suppliers to nationwide electrical wholesalers and related trade sectors. The core values of product innovation, reliability, and excellence-in- design are consistent across our ranges of professional lighting. Explore our full range in this catalogue, including key areas of Low Voltage Garden Lights, Bollard Lighting and the UK's largest range of Pro-Solar Lights, as well as everything you'll need to know about outdoor illumination.

Our design-led Director, Martin Bennett, has an experienced eye for detail, which underpins the manufacturing process from start to finish, with the aim of offering unique designs that improve on existing, much-loved products. The focus is on reliable, durable, and functional fittings which fulfil specific needs, and aren't widely available elsewhere on the market.

Lumena prides itself on its outstanding customer service with glowing 5-star feedback, so whether you're just starting to 'see the light' or experienced in illumination, our technical team are on hand to help wherever they can. The aim is to make lighting selection and supply as straightforward as possible.

For your peace of mind, all Lumena's products have up to a 5-year warranty, certifying true Quality that is Guaranteed.



## Delivery



We aim to ship all orders on a next working day delivery service. We also 'dropship'.

For items made to order, such as Radiata path lights, please allow up to 3 working days.

## **Lighting Planning**

In the dark about lighting? Lumena can help you.

We offer a free service to assist you with your designs. Our team can advise on fittings, wiring and positioning.

Send your garden plan to sales@lumenalights.com

## **Trade Accounts**



Online trade accounts are available for easy purchasing any time of day

Benefit from exclusive discounts, technical advice, samples, site demos and much more!

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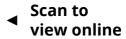
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We've included a handy QR code in the corner of every product page. Scan the code using a smartphone camera for additional information, including: line drawings, technical data, instructions & more.





## Help Guide

# Introduction to Lighting

Over the years, Lumena have built up a wealth of knowledge about lighting. In that time, we've been asked questions about almost every topic within lighting. The most common queries have been summarised over the upcoming "Help Guide" pages.

The pages that follow give an overview of the points to consider in your outdoor lighting projects. These include: IP and IK ratings, what to consider with LEDs, materials and finishes, wiring and cables, techniques for getting the most from your garden lights and more.

These tips and advice are designed to give you as much information as possible to get your ideas off the ground with all factors considered. If in doubt consult a qualified electrician.



#### **Product Info Keys**

Product pages feature easy to use, quick reference icons highlighting the important technical information. Below are all the icons used throughout the Lumena Catalogue.



Maximum wattage for the fitting



Ingress protection rating



12V VERSA Plug & Play connector



Allows for tilting and/or swiveling of fitting



Fitting has anti-glare protection



Driveover. Max 5mph <500kg per wheel)



Main body IK rating (lenses & solar panels excluded)



Battery capacity and chemistry



Solar panel: monocrystalline / polycrystalline



Product uses Tanalith E wood preservative





Motion sensor equipped



Photometric reports available upon request



Compatible with columns of X diameter



Charleston mount required (p.54)



Surface mounting base



In-ground root mount system

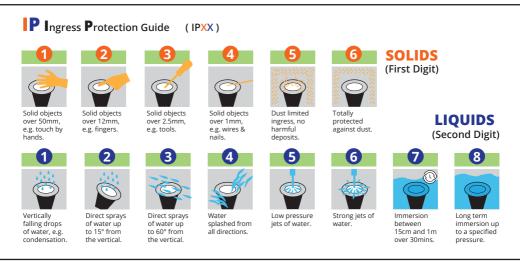


Spike mount option

#### **IP Ratings**

All outdoor luminaires (and accessories such as transformers and connectors) are rated based on their ingress protection to both solids and liquids (IPxx). The first number refers to solids (6 being the highest) and the second number refers to water (8 being the highest). As a general rule, the minimum requirement for outdoor use, unless undercover, is IP44.

Most quality outdoor luminaires are protected to a high rating when it comes to solids, but water protection varies. It's important to select a luminaire with a suitable IP rating for the required task and surroundings. Any luminaire which is to be submerged indefinitely must be rated IPx8, whereas temporary submersion or lighter sprays can have a lower rating.



#### **IK Ratings**

The IK rating of a product refers to its level of protection against mechanical impacts. IK ratings are the standard for measuring the toughness of a product. The rating is given as a number, usually ranging from IK01 to IK10, with IK10 being the highest level of protection.

IK01 indicates minimal protection against impacts, while IK10 means that the product is highly resistant to impacts. Higher IK ratings mean that a product can withstand more severe impacts and is less likely to break or become damaged.

When selecting outdoor lighting fixtures, it's important to consider the environment in which they will be installed. If the fixtures will be located in an area that is prone to vandalism or accidental damage, a higher IK rating may be necessary to ensure the longevity of the fitting.

# **Materials & Finishes**

#### **Materials & Finishes**

Durable materials and reliability are of utmost importance when it comes to outdoor lighting. Luminaires should be designed to withstand the elements and last for multiple years. They should also dissipate heat to prevent overheating of fittings. Lumena offer at least a 2 year guarantee as standard on most garden lighting designs.

| Aluminium              | Commonly used for outdoor luminaires, covering budget to mid price range. When powder coated or anodised, durability significantly increases, often adequate for coastal areas. |
|------------------------|---|
| Stainless steel<br>304 | A common, fairly inexpensive material for contemporary fittings. Lacquered for extra protection.  |
| Stainless steel<br>316 | Often referred to as 'Marine Grade', it is extra durable for coastal location and exposed areas – an upgrade to 304.  |
| Copper                 | A pure, high end metal with a very high resistance to corrosion due to the natural, oxidisation process. A more expensive material to consider.                                 |
| Brass                  | Primarily, Copper and Zinc, combined with other metals, making this a very strong, highly durable material suited to most locations with very high corrosion resistance.        |
| Wood                   | As the most naturally durable outdoor material, wood is long-lasting, sustainable and weatherproof when treated or preserved, whilst remaining in keeping with the countryside. |

When it comes to finish, one practice is for the light source to blend in with surroundings at night, with the effect being the main attraction. During daytime, if the light fittings will be in view, it is important that they look the part too, almost as their own feature. Lumena have created the perfect balance with attractive finishes to either blend in or stand out accordingly.

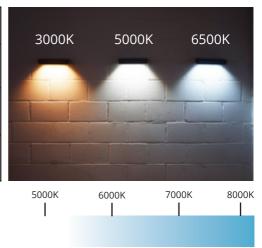
| Green            | Blends in with planting, foliage and green painted / stained timber   |
|------------------|---|
| Black            | Most common finish suiting both traditional and contemporary settings. Blends in with ironmongery and disappears into darkness.   |
| Brown /<br>Cocoa | Usually anodised or powder coated aluminium. Blends in with earth, wood and bark in both traditional and contemporary settings. Cocoa is similar in appearance to lacquered copper.                 |
| Silver           | A contemporary finish to suit all budgets in various materials. Finishes include Titanium (anodised), Aged Silver and Stainless Steel   |
| Brass            | A traditional finish. Remains a polished, golden finish when lacquered. Untreated, brass will tarnish over time to blend in with pale timber and light coloured stone and brick.                    |
| Rustic<br>Bronze | A traditional, brushed antique finish of brass which darkens over time. Works well with timber, sandstone and light brick, and blends in with earth and plants. A striking feature during daylight. |
| Copper           | Remains a polished finish when lacquered but natural 'raw' copper will weather, creating a mottled, dark finish eventually turning 'Verdigris' to blend in with timber, brick and gravel.           |

# **LED Considerations**

#### **Colour Temperature**

Measured in kelvins, colour temperature refers to the tone of white light emitted. Most lamps on the market range between 2700K and 6500K. Warmer tones (<4200K) are typically less disruptive to wildlife than bluer tones.

| 1800-2200K<br>(Candle)            | Orange | Very warm light, reduces<br>disruption to wildlife                          |
|-----------------------------------|--------|---|
| 2700-3000K<br>(Warm White)        | Yellow | Ambient yellowy light creating a cosy atmosphere                            |
| 4200-5000K<br>(Cool White)        | White  | Neutral, cool tone of<br>white used in gardens<br>& commercial settings     |
| 6000-6500K<br>(Daylight<br>White) | Blue   | White with a very cool,<br>blue tone, often found<br>in commercial settings |
| 1000K 2                           | 000K   | 3000K 4000K   |



#### **Beam Angle**

The beam angle of an LED is important when it comes to different lighting effects. Wider beams create a floodlighting effect, suited for wall washing and larger structures. Narrow beam angles are more concentrated and create more dramatic effects, especially for more narrow focal points such as statues. It's also important to consider the fixture housing the LED lamp, as well as any additional elements such as a glare shields or lenses, as they can affect the natural beam angle.

#### **Light Intensity (Lumens VS Watts)**

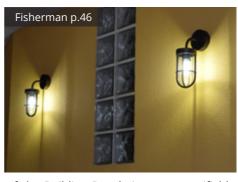
Wattage and lumens coincide with one another but actually measure completely different things. Wattage is the power consumption of each lamp, whereas lumens is the measurement of brightness (intensity). Often it is believed that the higher the wattage, the brighter the lamp. Although this is sometimes the case, it is the lumens which needs to be considered. For example, a low quality 5W LED may only be 300lm but a higher quality 3W LED may also be 300lm. The 3W lamp actually uses less power (less running cost) but produces the same output as the 5W. LEDs which produce 100lm/W or more are considered the best option. It is important not to use excessive lighting so always consider what it is you're illuminating and with what effect before finalising the LED choice. For many lighting effects, 'less is more'.

## Help Guide

# Voltage

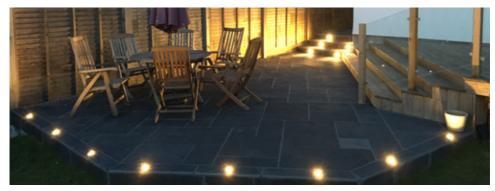
Voltage, in simple terms, is the pressure at which current is pushed through a circuit. Both 220-240V (mains) and 12V (low voltage) have their benefits, each for different reasons. The decision to use 240V or 12V should be determined by various external factors.

Mains (220-240V) is a trusted, well known power source used since the 20th Century. The obvious benefit is that the majority of building are supplied with mains electric as standard so it is easy to add on to these circuits. Cable runs can be a lot longer the low voltage cable runs making it a great solution for larger areas. The downside is that mains isn't a great performer in damp conditions; susceptible to tripping should moisture enter connection or fittings. For the purpose of safety, mains cable must be armoured or inside armoured conduit which often results in the digging of trenches at



approx. 0.5m depth. In the U.K., under Part P of the Building Regulations, any notifiable mains electrical work, such as wiring a new circuit, must be completed by a certified electrician and a certificate obtained.

**Low voltage lighting systems** (often referred to as extra low voltage in Europe) have many benefits. Firstly, **12V outdoor lights** are particularly suited to outdoor environments because they withstand damp conditions without performance being affected. They're also very safe to use, not dangerous should they become damaged and easy for anybody to install. Plug & play installs are the easiest systems to use with no hard wiring required (see our Versa Range on p.12). The only real disadvantage of low voltage lighting is possible voltage drop (see p.9). By keeping cable runs as short as possible, the effects of voltage drop can easily be avoided, resulting in a safe, reliable outdoor lighting system.



# Voltage

#### **Voltage Drop**

The term 'Voltage Drop' relates to the amount of voltage loss that occurs through all or part of a circuit. This is a result of increased resistance which is a measure of the opposition to current flow in a circuit, measured in ohms  $(\Omega)$ . Electrical cables of any size and length carrying current always present resistance. Although it can affect the entire circuit, it is first apparent at the end of a cable run. A simple comparison would be a garden hose, where the pressure of water running through it reduces the further away it is from its source.

The 4 main factors which contribute to voltage drop are cable length, wire temperature, wire material and the cross sectional area.

Generally, 12V lighting systems can withstand a maximum voltage drop of up to 8% (1V) with no noticeable effects, on the basis that the correct cable / power source is used and it is within range of the LED lamp voltage. If significant voltage drop does occur, it can cause dim lighting, strobing or no power at all.

To reduce the risk of voltage drop, consider the following:

- Reduce cable runs keep length to a minimum with no more than 12 fittings per circuit
- Highly conductive wire, e.g. copper. A tinned end can improve performance and longevity
- Use high quality, heat resistant rubber cable. Minimum H05RN-F
- Use thicker cable where possible (1.5mm<sup>2</sup> / 2.5mm<sup>2</sup>) with a secure, watertight connection

For a larger garden where this is not possible, consider laying a mains power feed to various points / areas where additional 12V transformers can be installed to create separate, smaller circuits. 240V fittings can also be connected to the mains feed if required.

|                    | Voltage Drop Guide for 12V AC VERSA Plug & Play 0.75mm <sup>2</sup> Assumes maximum voltage drop of 1 Volt (8%) |         |      |     |       |     |       |       |       |     |     |     |
|--------------------|---|---------|------|-----|-------|-----|-------|-------|-------|-----|-----|-----|
| Light fitting      | gs distrib  | uted ev | enly |     |       |     |       |       |       |     |     |     |
| Wattage            | 5W  | 10W     | 15W  | 20W | 25W   | 30W | 35W   | 40W   | 45W   | 50W | 55W | 60W |
| 0.75mm²<br>Max Run | 45m   | 36m     | 27m  | 24m | 23m   | 22m | 20.5m | 19.5m | 18m   | 17m | 16m | 15m |
| Light fitting      | Light fittings mainly at end of run   |         |      |     |       |     |       |       |       |     |     |     |
| Wattage            | 5W  | 10W     | 15W  | 20W | 25W   | 30W | 35W   | 40W   | 45W   | 50W | 55W | 60W |
| 0.75mm²<br>Max Run | 35m   | 28m     | 22m  | 21m | 20.5m | 20m | 19m   | 18m   | 17.5m | 17m | 16m | 15m |

Suggested maximum cable run includes cable supplied with each fitting, adaptors and connector cables. Where longer cable runs are required, use thicker cable such as 1.5mm² / 2.5mm² which have a lower resistance and reduce voltage drop. Cable runs can be increased by up to 50% (approx) when thicker cable is used.

The above table is a guide only. We strongly recommend that the voltage is checked with a volt meter at each fitting prior to final placement. Some external factors can affect performance, such as placement of cable etc.

## Help Guide

# Wiring

The installation of 240V garden lighting should always be carried out by a competent person. It is recommended that the number of fittings on one RCD / circuit is kept to around a dozen fittings. Anymore than this can cause issues further down the line, such as tripping / overheating etc. It is also more practical should an issue ever arise as the number of fittings to test would be much lower. It would cost more for an electrician to test 50 fittings to find the one fitting with a fault rather than only 12 on that one circuit

#### 240V Circuits

Most 240V fittings include a length of 3 core cable (non armoured) which will need to be hardwired to the circuit (armoured). The shorter the non-armoured section of cable the better, which should be installed inside armoured conduit. We recommend wiring in parallel. Multiple fittings can be connected to a circuit with the use of junction boxes, available in various sizes. The use of IP68 cable glands are highly recommended.



It is extremely important that each connection is sealed and watertight – water and 240V do not mix well. If any water is present with cable connections when the fitting is used (producing heat), it will create a vacuum, sucking the water up the cable, reducing resistance and resulting in shorting. This is known as wicking. Although most junction boxes have high IP Ratings, filling with a resin compound such as Wiska Gel will ensure a watertight connection. Lumena also offer IP68 single in-line connectors for a more discrete cable extension, and heat shrink kits.

#### **12V Circuits**

Wiring 12V AC lighting systems couldn't be easier with only 2 wires per cable (live and neutral), known as 2 core. Lumena's 12V transformers have an AC (alternating current)

output. Technically, with AC circuits, the wires of two cables can be connected to either colour but it is best practise to keep live to live (brown) and neutral to neutral (blue). 12V lighting systems must always be wired in parallel. For open end, each wire is connected to the same via a terminal block within a waterproof junction box or in-line connector to complete the circuit. Plug and play cables are also an option e.g. VERSA. Most 12V outdoor luminaires are supplied with a length of 2 core rubber cable suitable for outdoor use (commonly 0.75mm). Adjoining extension cabling, particularly longer runs, can be upgraded to 1.5mm or 2.5mm which lowers resistance and reduces voltage drop.



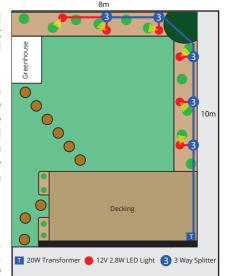
# Wiring

It is recommended that 12V fittings are grouped together in no more than 12 fittings per circuit and evenly spread with the transformer located as central as possible.

For 12V DC circuits, e.g. powered by the Lumena Durasol Solar Kit (p.52), it is important that the coloured wires are connected correctly. Positive should be connected to positive (red) and negative connected to negative (black). Junction boxes, in-line connectors or heatshrink should be used to create a watertight seal around each connection.

#### **Selecting the Right Transformer**

To calculate the size of the transformer required, add the wattages of all the lamps together, e.g.  $6 \times 2.8W = 16.8W$ . Transformer required: 20W. The total wattage of the circuit should NEVER exceed the transformer's wattage. We highly recommend not loading more than 90% of the transformer's capacity, e.g. up to 45W on a 50W transformer. Lumena 12V transformers perform better over longer periods of time when loaded between 66% and 85% of their capacity.



Lighting is wired in parallel using VERSA 12V Plug & Play connectors.

Red denotes light fittings and their cabling. Blue denotes transformers, connecting cables and splitters.

## Combining 240V & 12V

Mixing 240V and 12V lighting systems is possible and fairly straight forward. Wherever a 240V feed exists, mains voltage outdoor lights can be connected via junction boxes. To combine 12V & 240V outdoor lighting, a waterproof transformer is required. All Lumena 12V Transformers are rated IP68 so are fully waterproof, although we strongly advise against submerging in water in case of mains cable damage. They are also complete with a 3 pin UK plug & 1.5m input cable which means they can plug into waterproof outdoor sockets with no need for wiring. Alternative, the plug can easily be removed and the cable prepared as "open-end" which can then be hardwired into a junction box with a mains 240V power feed. Anything located before the transformer will be 240V and anything after the transformer will be 12V. It is important to ensure the correct size transformer is selected (see calculation above). Multiple transformers can be installed at various points around a 240V circuit. This reduces the likelihood of voltage drop as each 12V run will be substantially shorter.

# **VERSA Plug & Play**

#### **VERSA Plug & Play**

To further simplify the installation of 12V garden lighting, Lumena offer most garden lights with a 2 pin plug known as the Versa Plug & Play Range. With Versa, no tools or hardwiring is required. The 2 pin male plug simply pushes into the female plug of a cable or connector which is then secured with the screw cap to create an IP44 connection. The specially designed plugs can be connected either way around, there is no right or wrong way being 12V AC. All products with the Versa icon are compatible.



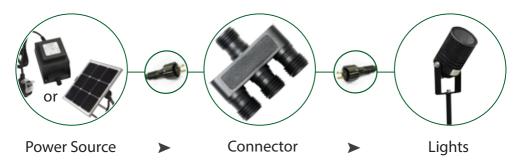
To complete the parallel circuit, various transformers, cable extensions and splitters are available, enabling a fully versatile system. The Versa range includes 0.75mm 2 core double-ended plug & play cables in multiple lengths, as well as plug & play to open end cables. In addition, 3 way and 6 way splitters are also available to easily group multiple fittings and split off to new areas nearby.

Versa connectors (on extensions cables and incorporated into fittings) will plug directly into our 12V AC Transformers, as well as splitters. If adjoining to an existing circuit, the Versa plug can simply be snipped off and the wires stripped to create a standard open end cable.



Rated IP68, Lumena transformers can be located outside: hidden within foliage, attached to a fence (recommended), hidden under decking or buried inside a transformer box. They are also supplied with a UK 3 pin plug and 1m input cable, which means they plug directly into an outdoor socket with no wiring required.

Although rated IP68, we do not recommend transformers are fully submerged in water in case of cable damage, particularly to the mains input cable.



# Types of Lighting

The concept of the "Outdoor Room" is well-known and has become more popular over recent years particularly during a volatile social climate, greatly inspired by the makeover industry and DIY tutorials. An outdoor room is not only an extension of individual indoor space, but being outside in the fresh air in such a space, can greatly benefit mental health, boosting oxygen and serotonin levels.

Often garden lighting is an afterthought; however this is the area which really transforms any garden design, both visually and with functionality, theoretically extending the hours of the day. Garden Designers all over the Country are now incorporating lighting into their designs early on, with Lumena's help and guidance. During daytime, everything in an outdoor space is visible, whereas at night, outdoor lighting enable specific areas and focal points to be illuminated and other areas to completely disappear.



#### The 5 Types of Garden Lighting

There are 5 main types of Garden Lighting: Ornamental, Amenity, Task, Access and Security. Each of these can be broken up again into Lighting Effects. Many lighting designs will fall into a number of categories when they have multi-functionality which enables a matching finish or design to be continued throughout a garden setting.

**ORNAMENTAL:** features illuminated for visual appeal

**AMENITY:** safety and practicality

**TASK:** enabling specific tasks to be carried out

ACCESS: allows safe movement by illuminating main walkways, steps doors and water

**SECURITY:** deterrent for intruders & reassures homeowners



## Help Guide

# **Lighting Techniques**

# **Downlighting** *Ornamental / Task*A pool of light in a downward direction from a structure to another surface /

from a structure to another surface / feature below. Most effective on items facing upwards.

#### **Uplighting** Ornamental

The reverse effect of daylight – illuminating from below, directed at the surface / object, away from viewpoint.





#### **Grazing** Ornamental

The illumination of a textured surface from an acute angle. Most commonly created from uplighting but can also be created from downlights.

#### **Moonlighting** *Ornamental*

Low level lighting located in the upper section of a tree, creating shadowing of the branches below on the ground, bringing the grass / planting below into the feature.

#### **Mirroring** Ornamental

The use of accent lighting on the far side of water to create a reflection visible from a main viewing point

#### **Washing** Ornamental

A wide beam covering a larger surface. Often used for wall washing, as well as washing hedges as a backdrop. Washing emphasises colour and creates atmosphere rather than accentuating texture (see grazing). Create from luminaires located below or above.

#### **Accent Lighting & Spotlighting** Ornamental

The use of directional luminaires to illuminate focal points. The difference being accent lighting is positioned closer and spotlighing is further away.

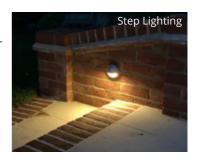


# Lighting Techniques

**Steplighting & Vista Lighting** *Ornamental / Access* Illumination of steps for safe navigation. Often from the side with a downward projection (no glare) e.g. Eyelid, or if not possible, recessed into the steps themselves. The same Eyelid designs are great for protecting a vista (distant view).

#### Silhouetting Ornamental

The illumination of a surface (background) behind an object to create a full silhouette of the featured object.



# Spreadlighting

**Spreadlighting** *Ornamental / Access*Low level, glare free illumination to create a round pool of light. Designed for lighting pathways, steps and areas of low planting.

**Backlighting / Halo Effect** *Ornamental*To illuminate behind and to the side of an object, without a background surface. This creates a more subtle halo of light rather than a silhouette.

#### **Shadowing** Ornamental

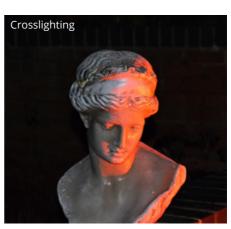
The illumination of an object / focal point from the front, projecting its shadow onto a wall / surface directly behind.

# **Area Lighting & Floodlighting** *Amenity / Security / Task*

General illumination of an area to enable full functionality e.g. safe navigation of a patio, eating areas etc. Downward projection recommended.

#### **Crosslighting** *Ornamental*

A beam of light travelling across the front of an object created by placing the luminaire to the side. Great for creating texture. If some of the object is lost in shadow, a second, slightly less bright luminaire can be installed on the opposite side to infill the shadowed areas.







# Outdoor & Garden Lighting

Lumena has been a leading supplier of professional garden lighting for many years. Our lights are often used and installed by Garden Designers, Landscapers and Contractors to ensure each project reaches its full potential with high quality, reliable luminaires for every application. Some trade professionals are fully equipped with outdoor lighting knowledge, but for those who are new to it, we'll happily assist with garden plans, recommending luminaires to fulfil the selected function and style, as well as cabling, power sources and supply chain options.



## Garden Lighting

# Types of Light Fittings



Garden lights come in many forms, each having a specific function to fulfil. Some cross over into various types of lighting effects, others have one specific purpose. Many of Lumena's products are designed to be versatile. Our goal is to allow customers' creativity to flourish, without ideas being restricted to just pen and paper. Lumena stock a variety of designs in durable materials and exclusive finishes. Many designs are highly versatile, with adjustable tilt, rotation and endless output options. Our garden lighting is complete with a 2 year guarantee as standard with more premium designs benefitting from up to a 5 year guarantee (see p.118 for more guarantee info).

Our product designs continue to evolve based on customer feedback. The majority of our garden lights incorporate bulb holders rather than in-built LEDs which enable a more broad choice when it comes to colour temperature and light output.

Our main garden lighting range is the Charleston Cobra Range; a selection of natural copper and solid brass fittings for all applications, covering spike lighting, step lighting, spread lighting and more! The majority of designs have interchangeable mounting options and accessories such as solid brass spikes, surface mounts, tree mounts and extension poles (p.54). The Charleston Cobra range is extremely popular with garden design projects in a more rural setting with complimentary timber structures.



We also stock many other exclusive designs, one of which is our contemporary AlvaLED spike lights and spot lights. Crafted from aluminium in various powder coated and anodised finishes, they are the "go to" design in spike lighting, in both single and twin, alongside matching wall lights.



Accessories and upgrades, including bolts, ground spikes, lamps and lenses are supplied to provide ultimate freedom when installing. In the unlikely event of components getting damaged, spare parts are stocked for the vast majority of products. Spikes, lenses, screws and bases are available for a variety of finishes. Manufacturers guidelines should always be followed when installing outdoor light fittings. For example, all in-ground lights must have adequate drainage surrounding them by way of hardcore. This is particularly important in clay based soil beds.

# Mini Deck Lights

Stainless Steel



**Decimina** 

Clear or Frosted Lens



**Trimina** 3 Way Directional Light







Low Voltage

12V







## **Duomina**

2 Way Directional Light



|              | SKU        |           |
|--------------|------------|-----------|
| Decimina     | Duomina    | Trimina   |
| DEC60S-C-12P | DUO60S-12P | LTRIS-12P |

| Installation Hole Size   |      |      |  |  |  |
|--------------------------|------|------|--|--|--|
| Decimina Duomina Trimina |      |      |  |  |  |
| 55mm                     | 55mm | 53mm |  |  |  |





# **Decimax**

# Recessed Lights

## 316 Stainless Steel Recessed Light







- 316 Marine Grade Stainless Steel
- 90mm Bezel with 48mm Lens
- Polycarbonate Mounting Sleeve
- Installation Hole Size: 70mm
- 0.75mm H05RN-F Rubber Cable 1.4m

12V 2 Core VERSA / 240V 3 Core Open End















2 Voltages

| SH           | (U           |  |
|--------------|--------------|--|
| 12V          | 240V         |  |
| DEC90S-C-12P | DEC-S-C-240V |  |







# DuoMarka

## 2 Way Marker Light







Solid Brass (Rustic Bronze Finish)

LLDUOSS-240V

 Solid Brass, Natural Copper or 316 Marine Grade Stainless Steel

- 88mm Bezel
- Polycarbonate Mounting Sleeve
- Installation Hole Size: 70mm
- 180° Anti-Glare Beam
- 0.75mm H05RN-F Rubber Cable 3m

12V 2 Core VERSA / 240V 3 Core



Rustic

**Bronze** 

316 Stainless Steel



Natural

Copper



Stainless Steel 316



2 Voltages









 SKU

 Finish
 12V
 240V

 Rustic Bronze
 LLDUOBR-12P
 LLDUOBR-240V

 Natural Copper
 LLDUOCP-12P
 LLDUOCP-240V

LLDUOSS-12P







## **4 Way Marker Light**







Solid Brass (Rustic Bronze Finish)

- · Solid Brass, Natural Copper or 316 Marine Grade Stainless Steel
- 88mm Bezel
- Polycarbonate Mounting Sleeve
- Installation Hole Size: 70mm
- 360° Anti-Glare Beam
- 0.75mm H05RN-F Rubber Cable 3m

12V 2 Core VERSA / 240V 3 Core



Rustic

Bronze



Natural

Copper



Stainless Steel 316











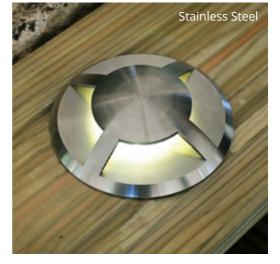


2 Voltages





Natural Copper oxidises over time to create a mottled, verdigris effect



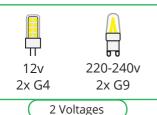


# **Bricklights**

## **Frosted Brass Bricklight**



|               | SKU            |                 |
|---------------|----------------|-----------------|
| Finish        | 12V            | 240V            |
| Rustic Bronze | LCBR-BLF-12V   | LCBR-BLF-240V   |
| Aged Silver   | LCBR-BLF-S-12V | LCBR-BLF-S-240V |



- Solid Brass Bezel & Back Box
- Rustic Bronze or Aged Silver Finish
- Installation Hole Size: 203mm x 56mm
   Replaces Standard House Brick
- Anti-Glare Frosted Lens
- 5x Cable Inlet Positions







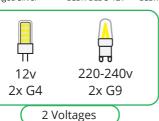


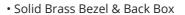


## **Louvred Brass Bricklight**



|               | SKU             |                  |
|---------------|-----------------|------------------|
| Finish        | 12V             | 240V             |
| Rustic Bronze | LCBR-BLL-BR-12V | LCBR-BLL-BR-240V |
| Aged Silver   | LCBR-BLL-S-12V  | LCBR-BLL-S-240V  |
|               |                 |                  |





- Rustic Bronze or Aged Silver Finish
- Installation Hole Size: 203mm x 56mm
   Replaces Standard House Brick
- Downwards Anti-Glare Beam
- 5x Cable Inlet Positions











# Guardlite

## **Louvred Uplighter**



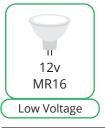


- Solid Brass (Rustic Bronze Finish)
- 97mm Louvred Bezel (Anti Vandal)
- Installation Hole Size: 69mm
- 0.75mm H05RN-F Rubber Cable 5m 12V 2 Core VERSA











SKU

#### Guardlite

GUARD12P-B







# Monolite

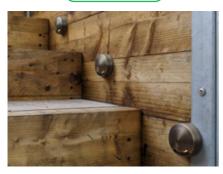
Surface Mounted Step Lights

**Brass Step Light** 



| S       | KU       |
|---------|----------|
| 12V     | 240V     |
| MONO12P | MONO240V |
|         |          |

12v 220-240v G4 G9



- Solid Brass (Rustic Bronze Finish)
- 88mm Diameter Bezel
- · Slimlime Anti-Glare Beam
- 0.75mm H05RN-F Rubber Cable 1.5m

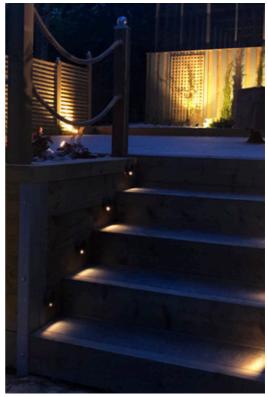
12V 2 Core VERSA / 240V 3 Core Open End













## Surface Mounted Step Lights

# **Eyelite**

## **Eyelid Step Light**



- Solid Brass (Rustic Bronze or Aged Silver Finish)
- 96mm Diameter Bezel
- Downwards Anti-Glare Beam
- 0.75mm H05RN-F Rubber Cable 1.5m
   12V 2 Core VERSA / 240V 3 Core Open End









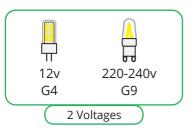
 SKU

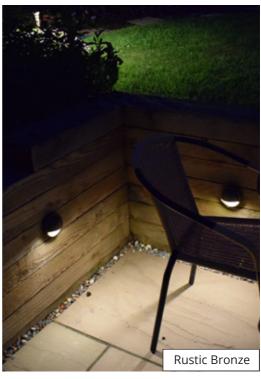
 Finish
 12V
 240V

 Rustic Bronze
 EYE12-P
 EYE240

 Aged Silver
 EYE12P-S
 EYE240-S







# Surface Mounted Step Lights

## **Louvred Step Light**



• Solid Brass (Rustic Bronze or

Aged Silver Finish)

- 96mm Diameter Bezel
- Downwards Anti-Glare Beam

12V 2 Core VERSA / 240V 3 Core Open End

• 0.75mm H05RN-F Rubber Cable 1.5m



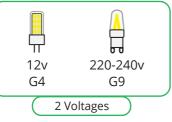


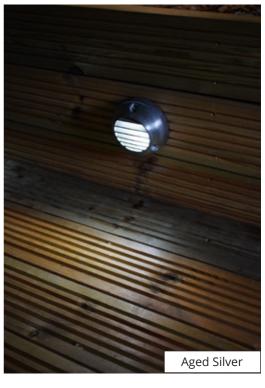




|               | SKU       |           |
|---------------|-----------|-----------|
| Finish        | 12V       | 240V      |
| Rustic Bronze | SLAT12-P  | SLAT240   |
| Aged Silver   | SLAT12P-S | SLAT240-S |









# Spotlights & Spikelights

# **AlvaLED**

## **Spike Spotlight - Single**



- 5 Finishes in Aluminium or
   316 Marine Grade Stainless Steel
- Spike Mount or Surface Mount
- Adjustable Over 180° (Vertical)
- 0.75mm H05RN-F Rubber Cable 0.5m-2m
   12V 2 Core VERSA / 240V 3 Core Open End
- Matching Twin-Spike & Wall Light (p.44)













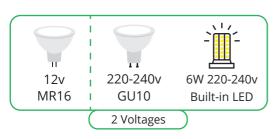


Titanium (Anodised)



Stainless Steel 316

|           |              |                | SKU            |           |                |           |
|-----------|--------------|----------------|----------------|-----------|----------------|-----------|
| Lamp      | Cable Length | Black          | Cocoa          | Green     | Titanium       | S. Steel  |
| MR16      | 1.5m - 2m    | ALVAMR16B      | ALVAMR16C      | ALVAMR16G | ALVAMR16T      | ALVAMR16S |
| GU10      | 1m - 1.5m    | ALVAGU10B      | ALVAGU10C      | ALVAGU10G | ALVAGU10T      | ALVAGU10S |
| LED 3000K | 0.5m         | ALVA3000B-240V | ALVA3000C-240V | N/A       | ALVA3000T-240V | N/A       |
| LED 6500K | 0.5m         | ALVA6500B-240V | ALVA6500C-240V | N/A       | ALVA6500T-240V | N/A       |







# Spotlights & Spikelights

## **Spike Spotlight - Twin**



- 5 Finishes in Aluminium or
   316 Marine Grade Stainless Steel
- Spike Mount or Surface Mount
- Adjustable Vertically Over 180°
- 0.75mm H05RN-F Rubber Cable 0.5m-2m
   12V 2 Core VERSA / 240V 3 Core Open End
- Single Option Available















Cocoa (Anodised)



Green (Powder Coated)

|           |              |                | SKU            |                |                |                |
|-----------|--------------|----------------|----------------|----------------|----------------|----------------|
| Lamp      | Cable Length | Black          | Cocoa          | Green          | S. Steel       | Titanium       |
| MR16      | 1.5m - 2m    | ALVAMR16B-TWIN | ALVAMR16C-TWIN | ALVAMR16G-TWIN | ALVAMR16S-TWIN | ALVAMR16T-TWIN |
| GU10      | 1m - 1.5m    | ALVAGU10B-TWIN | ALVAGU10C-TWIN | ALVAGU10G-TWIN | ALVAGU10S-TWIN | ALVAGU10T-TWIN |
| LED 3000K | 0.5m         | ALVA3000-TWIN  | ALVA3000C-TWIN | N/A            | N/A            | ALVA3000T-TWIN |
| LED 6500K | 0.5m         | ALVA6500B-TWIN | ALVA6500C-TWIN | N/A            | N/A            | ALVA6500T-TWIN |







# **Spotlights Spikelights**

# **AlvaLED Mini**

## Mini Black Spikelight





- Powder Coated Aluminium (Black)
- Spike Mount or Surface Mount
- Adjustable Over 180° (Vertical)
- 0.75mm H05RN-F Rubber Cable 1.4m 12V 2 Core VERSA
- 2x Smaller than AlvaLED













Low Voltage



AlvaLED Mini

ALVAMR11B







# AlvaLED 10W & 15W

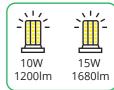
240V In-Built LED Spotlight

Spotlights & Spikelights



- Powder Coated Aluminium (Black)
- 350mm Spike Mount or Surface Mount
- Adjustable Over 180° (Vertical)
- In-Built LED Warm White 3000K
- 2 Outputs up to 1680lm
- LED Expected Life up to 30,000 hours
- 3\*1mm H07RN-F Rubber Cable 0.9m





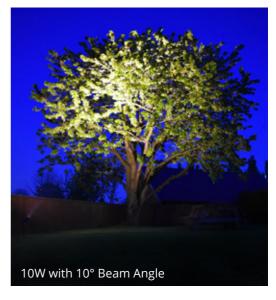
2 Light Outputs

|            | SKU         |             |
|------------|-------------|-------------|
| Beam Angle | 10W         | 15W         |
| 10°        | ALVA10W-10B | ALVA15W-10B |
| 38°        | ALVA10W-38B | ALVA15W-38B |

80mm (10W) / 90mm

(15W) Lens Diameter





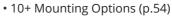


# Spotlights & Spikelights

# Minilite

## **Mini Brass Spotlight**





• Solid Brass (Rustic Bronze Finish)

- Adjustable Over 180°
- Adjustable Glare Shield
- 0.75mm H05RN-F 2 Core Rubber Cable
   VERSA Plug & Play (Approx 5m)











Minilite

LCBR-MLB12P







# Director

# Spotlights Spikelights

## **Brass Spotlight**



- Solid Brass (Rustic Bronze Finish)
- 10+ Mounting Options (p.54)
- Adjustable Over 180°
- 0.75mm H05RN-F Rubber Cable 5m
  - 12V 2 Core VERSA / 240V 3 Core Open End
- Multiple Spotlight Kit Available (p.35)

















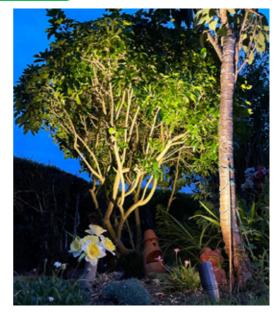




Mount Sold Separately

|             | SKU           | ĺ |
|-------------|---------------|---|
| 12V         | 240V          |   |
| LCBR-DUB12P | LCBR-DUB-240V |   |







# **Spotlights Spikelights**

# **Astros**

## **Copper Spotlight**







|     |     | Mount Sold Separately |
|-----|-----|-----------------------|
|     | SKU |                       |
| 12V |     | 240V                  |

LCBR-AST12P LCBR-AST240V



- Natural Copper & Natural Brass
- 10+ Mounting Options (p.54)
- Adjustable Over 180°
- 0.75mm H05RN-F Rubber Cable 5m 12V 2 Core VERSA / 240V 3 Core Open End
- · Anti-Glare Shield



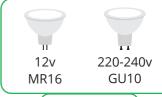












2 Voltages





# Carousel

# **Spotlights** Spikelights

## **Brass Spotlight Kits**



- Solid Brass (Rustic Bronze Finish)
- Polycarbonate 4 Fin Spike Included
- Adjustable Over 180° Vertical
- 0.3m or 0.8m Riser Pole
- 12V 2 Core VERSA / 240V 3 Core Open End
- Use with up to 4 Spotlights.
- Single Option Available (p.33)











2 Voltages



|                   | Standard 2x Spotlight Kits            |                     |  |
|-------------------|---------------------------------------|---------------------|--|
| Voltage           | 0.3m Carousel Mini                    | 0.8m Carousel       |  |
| 12V               | LCBR-CSM-12P                          | LCBR-CS-12V         |  |
| 220-240V          | LCBR-MCS-240V                         | LCBR-CS-240V        |  |
| For additional on | estlights (2.4 hoads), please specifi | at time of ordering |  |



# **Floodlights**

# Mini Floodlight

**Brass Floodlight** 









Compact design for small garden features

- Solid Brass (Rustic Bronze Finish)
- 10+ Mounting Options (p.54)
- Adjustable Over 180°
- Frosted Lens with Anti-Glare Shield
- 0.75mm H05RN-F 2 Core Rubber Cable

Open Ended (Approx 1.3m)

• Larger Option Available (Maxi-Flood)

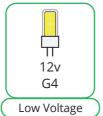












Mount Sold Separately

SKU

Mini Floodlight

LCBR-FLF







## **Floodlights**

#### **Brass Floodlight**



- Solid Brass (Rustic Bronze Finish)
- 10+ Mounting Options (p.54)
- Adjustable Over 120°
- Frosted Lens with Anti-Glare Shield
- 0.75mm H05RN-F 2 Core Rubber Cable
   VERSA Plug & Play (Approx 1.3m)
- Smaller Option Available (Mini Floodlight)





















SKU Maxi-Flood





## **Floodlights**

# ParFlood 38

#### **PAR38 Floodlight**



light pollution





- Aluminium (Black)
- Surface Mounted
- Adjustable Head with Anti-Glare Shield
- 0.75mm H05RN-F Rubber Cable 5m 240V 3 Core Open End











SKU **Surface Mount** 

LPF38-SM





# Nautilus

# Submersible Spotlights

#### **Stainless Steel Underwater Light**







Longer screw slots for adjusting position

SKU

Nautilus NAUSS-12P



- Marine Grade 316 Stainless Steel
- 90mm Front Bezel with 60mm Clear Lens
- Free-Standing or Surface Mount
- Adjustable Over 180°
- 0.75mm H05RN-F 2 Core Rubber Cable
   VERSA Plug & Play (Approx 1.5m)













# Submersible Spotlights

# **Nautilus**

#### **Large Brass Underwater Spotlight**



- · Solid Brass (Polished)
- Free-Standing or Surface Mount
- Adjustable Over 180°
- · Anti-Glare Shield
- 0.75mm H05RN-F 2 Core Rubber Cable
   VERSA Plug & Play (5m)











SKU

Lens hood creates

focused beam

12V MR16

Low Voltage

#### Nautilus

LCBR-NAUB







# **Argonaut**

## Submersible **Spotlights**

#### **Mini Brass Underwater Spotlight**









- Solid Brass (Rustic Bronze)
- Free-Standing or Surface Mount
- Adjustable Over 180°
- Anti-Glare Shield
- 0.75mm H05RN-F 2 Core Rubber Cable VERSA Plug & Play (5m)

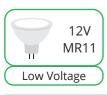












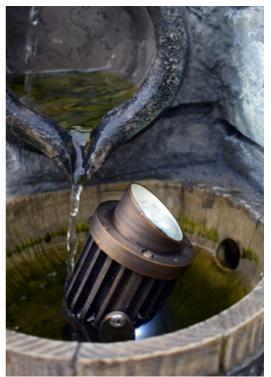


SKU

Argonaut

LCBR-ARG







# Hilospot

#### **Twin Spotlight**













316 Marine Grade Stainless Steel

| SKU                                   |         |         |  |
|---------------------------------------|---------|---------|--|
| Material                              | 12V     | 240V    |  |
| Natural Copper                        | LTW16CP | LTW10CP |  |
| (Upgraded compact design coming soon) |         |         |  |
| 316 Stainless Steel                   | LTW16S  | LTW10S  |  |





- Natural Copper or 316 Marine Grade
   Stainless Steel
- Easy Surface Mounting
- Uplight & Downlight Effect
- Slimline Design





2 Voltages







#### **Twin Spotlight**





Rustic **Bronze** 



Natural Copper

|                | SKU     |         |
|----------------|---------|---------|
| Material       | 12V     | 240V    |
| Solid Brass    | LTW16BR | LTW10BR |
| Natural Copper | LTW16CP | LTW10CP |



- Solid Brass (Rustic Bronze Finish) Stainless Steel
- Easy Surface Mounting
- Uplight & Downlight Effect
- Compact Design

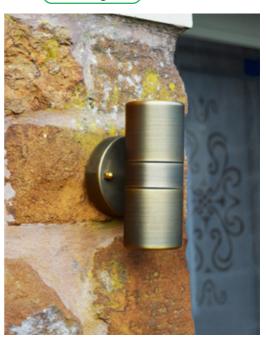




2 Voltages









# **Alvaspot**

#### **Single Spotlight**



- Aluminium (Powder Coated / Anodised)
- 90° Downwards Tilt
- Up to 360° Rotation
- Easy Surface Mounting
- Matching Spike Lights AlvaLED (p.28)
- Compatible with Dichroic Lenses (p.55)





GU<sub>10</sub>





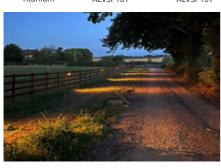
2 Voltages







|          | SKU      |          |
|----------|----------|----------|
| Finish   | 12V      | 240V     |
| Black    | ALVSP16B | ALVSP10B |
| Titanium | ALVSP16T | ALVSP10T |







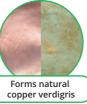
# Swanage

## Wall Lights

#### **Traditional Copper Wall Light**



- Natural Copper
- Height: 40cm
- Traditional, Decorative Wall Light
- 4mm Thick Glass Diffuser
- Surface Mounted with Rear Cable Entry





Mains Voltage





sku

Swanage

LSWAN45CP







# **Fisherman**

#### **Traditional Wall Light**

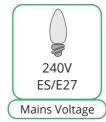




- Solid Brass (Rustic Bronze Finish)
- Height: 29cm
- Traditional, Decorative Wall Light
- 2mm Thick Glass Diffuser
- Surface Mounted with Rear Cable Entry









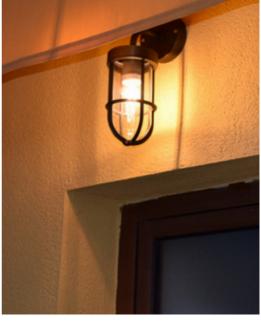


Rustic Bronze lights



Fisherman







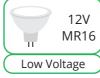
## Hanging Lights

## **Decorative Hanging Light**



- Solid Brass (Rustic Bronze Finish) or Natural Copper
- 150cm Brass Hanging Chain
- 360° Illumination & Downlight
- 0.75mm H05RN-F Rubber Cable 1.5m

12V 2 Core VERSA

















Natural Copper

|            | SKU        |
|------------|------------|
| Brass      | Copper     |
| LSTRBR-12P | LSTRCP-12P |







## Hanging Lights

# Pergolux

#### **Hanging Light**







Compatible with Dichroic Lenses (p.55)



Earth Brown (Aluminium)



Natural Copper

|                | SKU         |             |
|----------------|-------------|-------------|
| Finish         | 12V         | 240V        |
| Satin Silver   | LPRGSV-12V  | LPRGSV-240V |
| Earth Brown    | LPRGBN-12V  | LPRGBN-240V |
| Natural Conner | I PRGCP-12P | LPRGCP-240V |



- Aluminium or Natural Copper
- Chain Available: 30cm or 50cm
- Glass Diffuser
- 0.75mm H05RN-F 2 Core Rubber Cable
   VERSA Plug & Play (4.5m)









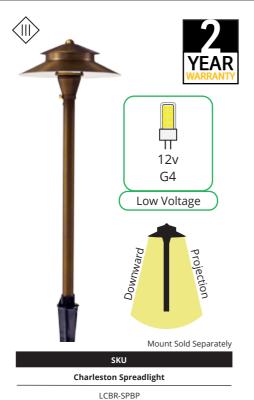




# **Charleston Spreadlight**

**Spreadlights** 

**Brass Spreadlight** 



- Solid Brass (Rustic Bronze Finish)
- Various Mounting Options (p.54)
- · Height: 540mm
- 0.75mm H05RN-F 2 Core Rubber Cable
   VERSA Plug & Play (Approx 4.5m)













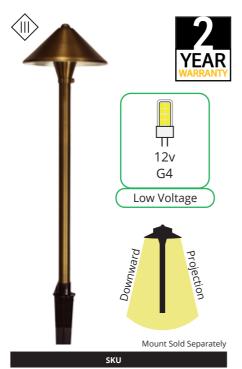




## **Spreadlights**

# Coolie

#### **Brass Spreadlight**



Charleston Coolie

LCBR-SP2BP



- Solid Brass (Rustic Bronze Finish)
- Various Mounting Options (p.54)
- Height: 535mm
- 0.75mm H05RN-F 2 Core Rubber Cable
   VERSA Plug & Play (Approx 4.5m)











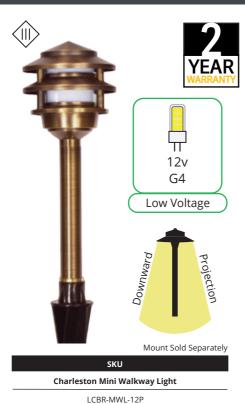




# Mini Walkway Light

**Spreadlights** 

**Small Brass Spreadlight** 



- Solid Brass (Rustic Bronze Finish)
- Various Mounting Options (p.54)
- · Height: 270mm
- Opal Diffuser
- 0.75mm H05RN-F 2 Core Rubber Cable

VERSA Plug & Play (Approx 1.3m)



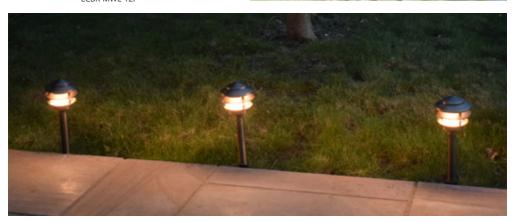














## 12V Solar Lighting System

## Durasol

#### **All-In-One 12V DC Solar System**



- 304 Stainless Steel, 6053 Aluminium
  - & Tempered Glass
- Ground Mount or Wall Mount
- 12V DC Output
- Maximum 30W
- 540mm x 510mm x 25mm Solar Panel
- Remote Control
- 0.75mm H05RN-F Rubber Cable 2 Core
   3m (VERSA) or 0.25m Open End Cable











|          | sku                   |                       |
|----------|-----------------------|-----------------------|
| Mounting | Open End Cable        | Plug & Play Cable     |
| Ground   | DURASOL50-12V         | DURASOL50-12P         |
| Wall     | DURASOL50-12V+DURA-BR | DURASOL50-12P+DURA-BR |







## Durasol

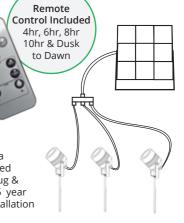
12V Solar Lighting System

**All-In-One 12V DC Solar System** 

#### How does it work?

Power-up your Versa 12V garden lighting with solar - a free-to-run, green alternative to a 12V transformer supply. The Durasol all-in-one solar kit is an all-year-round, rechargeable power source for all of Lumena's 12V outdoor lighting when used with 12v DC LED lamps.

Due to the large surface area of the panel and high capacity LiFePO4 battery, the off-grid unit powers up to 30W of garden lights for up to 12 hrs with as little as 4 hrs charging time. The adjustable panel is supplied with either a sturdy, free standing A-frame or a surface mount bracket for mounting onto walls, fences or angled shed roofs. Position the solar panel in a sunny spot and use our VERSA Plug & Play cables & splitters to connect multiple garden lights. With a 5 year guarantee, this innovative 12V solar system will save on complex installation costs and running costs for many years to come.





## Garden Lighting Accessories

# **Charleston Mounts**

**Charleston Cobra Range** 

Wall Mount

Solid Brass

#### **Extension Poles**

# Solid Brass Aluminium 470mm to 750mm SKU: LCBR-STEM SKU: LCBR300RA

#### CHARLESTON RANGE

Lumena's Charleston spotlights, floodlights and spreadlights use identical thread stems.

The mounting option supplied can therefore be swapped, to allow any light to fix to any surface.



## Tree / Wall Bracket

SKU: LCBR-WMB

Solid Brass



SKU: LCBR-TRBR

#### **Surface Mount Base**

Solid Brass



#### SKU: LCBR-MNTB

#### **Ground Spikes**

Polycarbonate or Solid Brass



SKU: LCBR-SPK50P (For VERSA Plug & Play Lights)



## Tree Mount & Strap

Aluminium





## **Lenses & Filters**

**Coloured and Anti-Glare Filters** 

Garden Lighting Accessories

#### 50mm Coloured Dichroic Glass Lenses



Purple SKU: LI DCLP



Red SKU: LLDCLR



Orange SKU: LLDCLOR



Yellow SKU: LLDCLY



Green SKU: LLDCLG



Moonlight SKU: LLDCLM



Blue SKU: LLDCLB



Spring Clip SKU: LLSC50



Emphasise foliage with green lenses

#### 50mm Anti-Glare Diffusers & Filters

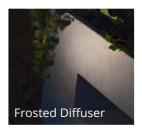


Honeycomb SKU: LHCF50F



Frosted SKU: LLDCLE





Anti-Glare Filters reduce glare & create softer edges



# Lamps

12V & 240V

Lumena stock lamps for all Lumena fittings. With multiple colour temperatures & outputs available, you can choose the correct lamp for the effect you desire. Scan the QR code to learn more.



G4



MR11



MR16



G9





GU10







Photocell Lamp ES/E27 or BC/B22



PAR38



SES/E14







# **VERSA Accessories**

12V Plug & Play System

## Garden Lighting Inst<u>allation</u>

#### **Transformers**



| SKL     | J      |
|---------|--------|
| Wattage | SKU    |
| 10W     | LTR10  |
| 20W     | LTR20  |
| 50W     | LTR50  |
| 100W    | LTR100 |

#### 2 Pin Output Cable (Male to Open Ended)



| SKU    |        |  |
|--------|--------|--|
| Length | SKU    |  |
| 1m     | LCONC1 |  |
| 3m     | LCONC3 |  |
| 5m     | LCONC5 |  |

## 2 Pin Output Cable (Male to Male)



| SKU    |        |  |
|--------|--------|--|
| Length | SKU    |  |
| 1m     | LTROC1 |  |
| 3m     | LTROC3 |  |
| 5m     | LTROC5 |  |

#### In-line Connector Female to Female (10cm)



| 240               |  |
|-------------------|--|
| In-line Connector |  |
| LVCONFF           |  |

#### 3 Way Splitter (3x Female Output)



| SKU            |
|----------------|
| 3 Way Splitter |
| LVCON3         |

#### 6 Way Splitter (6x Female Output)



| SKU            |         |
|----------------|---------|
| Connector Type | SKU     |
| Male           | L6WAY   |
| Female         | L6WAY-F |



## Garden Lighting Installation

# Installation / Wiring

Sensors, Wiring & Maintenance

#### Photocell (Dusk to Dawn)



| sku     |         |  |
|---------|---------|--|
| Voltage | SKU     |  |
| 12V     | LWPC12  |  |
| 240V    | LWPC240 |  |



| SKU     |         |  |
|---------|---------|--|
| Voltage | SKU     |  |
| 12V     | LWPC12  |  |
| 240V    | LWPC240 |  |

#### **PIR Motion Sensors**



| SKU     |            |  |
|---------|------------|--|
| Voltage | SKU        |  |
| 12V     | LPR12V-BX  |  |
| 240V    | LPR240V-BX |  |

#### **Junction Boxes & Connectors**

Various Sizes of Junction Box Available



12v 2 Core Rubber Cable



Tubecon Inline Connector (3 Terminal)



| 31.0            |
|-----------------|
| For 0.75mm Cabl |
| TUBECON37       |

Heatshrink Kit 10cm Sleeving & 2X Butt Splice



| *****      |          |  |
|------------|----------|--|
| Cable Size | SKU      |  |
| 0.5-1.5mm  | HSCK158  |  |
| 1.5-2.5mm  | HSCK2512 |  |

#### More Accessories Online...



Scan to view online ▶

# LightSymphony Smart Solutions for Outdoor Lighting Control

### Wireless Control

Light Symphony is a versatile wireless control system, compatible with all types of garden lighting and outdoor electrical devices. Have full control over your outdoor lighting with various automated and manual remote control options; from standard keyfob control to driveway beam sensors, and even global Smartphone Control. Cover areas up to 5km, including through walls, with up to 9 grouped zones (29 areas). Automated controls and the Smartphone app are great energy saving options whilst adding security to your residence 365 nights per year.

- ✓ Simple setup 'Starter Kits' available
- Powers 240V & 12V
- ✓ Control up to 9 zones

- ✓ Automated & manual control options
- ✓ Alexa & Google ready
- ✓ Free downloadable iSymphony App

#### **Manual Controls**



**Key Fob** 

Long Range

Remote



Switch Module



App

#### Automation



Sensor



Beam Sensor





Interface

Smart Timer





# Bollard & Path Lights

# 240V Bollard Lights

**Aluminium, 316 Stainless Steel & Timber** 

Path lights and bollard lights play a key part in outdoor lighting, marking access routes and walkways, providing security, and holding ornamental value too. As of 2023, Lumena stock over 250 variations of illuminated bollards with more continually being added to the range.

With many heights and designs available, they are suited to a variety of locations including garden paths, front driveways, and public areas such as car parks. Most of the path lights accommodate replaceable ES/E27 LED lamps in an array of wattages, lumens and colour temperatures. Other designs such as the Boleda Range (p.77) contain high specification built-in LEDs with a lifespan of 50,000 hours and a 5 year guarantee.



#### **IK Ratings**

Our commercical bollard lights are designed to be vandal resistant and made from durable, robust materials. For this reason, many have undergone IK testing. IK ratings identify the level of force an enclosure for electrical can withstand. These range from 1-10 (with 10 being the highest). IK10 can withstand a 20 joule impact.



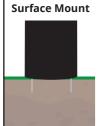
#### Photocell (Dusk to Dawn) Sensors

Lumena specialise in dusk to dawn lighting and offer many designs with a built in photocell for automated lighting. The ultimate solution to security lighting, automatically turning on at dusk and off again at dawn.



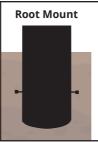
#### **Surface Mounting vs Root Mounting**

The two main mounting options for path lighting is surface & root mounting. Surface mounting can be via internal or external bases. In addition, they are often compatible with other mounting accessories such as ground spikes, anchor bolts, I-bolts & support mounts.



Surface mounted bollards (AKA flange mounted) are fixed with the tube's base above ground.

The base is then secured with anchor bolts, coach bolts or similar to any flat, solid surface.



Root mounted bollards (AKA in-ground mounted) are fixed by submerging 300-400mm of the tube into the ground, usually into wet concrete.

This technique is more secure, so advised for public areas.



# Low-Level Path Lights

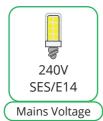
#### **Timber & Brass Path Light**











SKU Tectona

LTEC700



- · 'Tectona Grandis' Teak Wood
- Polished Brass Louvres & Mounting Base
- Frosted Polycarbonate Lens
- Surface Mounted
- Height: 0.7m
- · Diameter: 80mm
- Internal Junction Box at Base of Tube













## Low-Level Path Lights

# **Smartpost**

#### Slimline Post Light



- Anodised or Powder Coated Aluminium
- Surface Mount or Spike Mount
- Height: 0.6m
- Anti-Glare Opal Diffuser
- Internal Junction Box









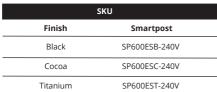


















## Low-Level **Path Lights**

#### **Louvred Path Light**



Automate with our 9W photocell (dusk to dawn) LED bulb (p.81)



Black



• Powder Coated Aluminium

- 2 Finishes Black or White
- Surface Mounted (External)
- Height: 0.6m or 0.9m
- Internal Junction Box











Mains Voltage









# Low-Level Path Lights

# **Airlite**

#### **Decorative Path Light**



Airlite Stream (90mm Diameter)





Airlite Standard (108mm Diameter)



- Anodised Aluminium / Solid Resin Head
- Surface Mounted (External)
- Height: 0.4m or 0.6m
- 3D Bubble Effect Head
- 3m Cable (12V), Internal Junction Box (240V)





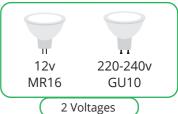








|                  |                          | SKU                      |                        |                        |
|------------------|--------------------------|--------------------------|------------------------|------------------------|
| Power            | 0.4m Airlite<br>Standard | 0.6m Airlite<br>Standard | 0.4m Airlite<br>Stream | 0.6m Airlite<br>Stream |
| 12V              | AIR400-12P               | AIR600-12P               | AIR400S-12P            | AIR600S-12P            |
| 240V             | AIR400                   | AIR600                   | AIR400S                | AIR600S                |
| 12V (Photocell)  | AIR400-PC-12P            | AIR600-PC-12P            | N/A                    | N/A                    |
| 240V (Photocell) | AIR400-PC                | AIR600-PC                | N/A                    | N/A                    |







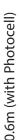
## Pathos 316

## Stainless Steel **Bollard Lights**

#### 316 Stainless Steel Path Light

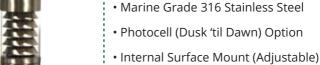












• Height: 0.6m or 0.8m

• Internal Junction Box









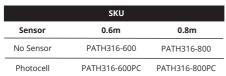


for uneven terrain





Mains Voltage









## Stainless Steel Bollard Lights

# Stelled

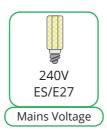
#### **Commercial 316 Stainless Steel Bollard Light**











| SKU           |            |  |
|---------------|------------|--|
| Mounting      | Stelled    |  |
| Surface Mount | LSTEL80    |  |
| Root Mount    | LSTEL80-RM |  |

Contact us for alternative heights



- Marine Grade 316 Stainless Steel
- Tube Thickness: 3mm
- Surface Mount or Root Mount
- Height: 0.8m
- Diameter: 120mm
- Suitable for 15W & 20W Corn Bulbs













## Stainless Steel Bollard Lights

#### 316 Stainless Steel Bollard Light













| SKU (Replacable ES/E27 Lamp) |           |             |              |  |
|------------------------------|-----------|-------------|--------------|--|
| Mounting                     | No Sensor | Photocell   | PIR          |  |
| 0.8m<br>Surface Mount        | MAR80SM   | MAR80SM-PC  | N/A          |  |
| 1m<br>Surface Mount          | MAR100SM  | MAR100SM-PC | MAR100SM-PIR |  |
| 1m<br>Root Mount             | MAR100RM  | MAR100RM-PC | N/A          |  |



• Tube Thickness: 2mm

Surface Mount or Root Mount

• Height: 0.8m or 1m

· Diameter: 140mm

• Suitable for 15W & 20W Corn Bulbs



















# Timber Path Lights

# Radiata Range

#### **Radiata Pine Timber Lighting**

The 'Radiata' path light range is created with sustainably sourced solid Radiata Pine timber. These stylish wooden path lights are sleeper and post designs, built to withstand all weather and heavy duty in structure.

#### **Radiata Pine Timber**

As a natural material, it is common for checking (cracking) in the wood to appear due to uneven shrinkage as the wood dries out. The preservative treatment helps to increase the moisture level, therefore reducing cracking. The best time of year for external installs of wooden posts is between October and March because

the sun is less intense, reducing the risk of rapid drying. Not recommended to install in waterlogged areas as this can damage the wood.







#### **Pressure Treatment**

During pressure treatment, the entire timber is penetrated by the latest generation wood preservative. Tanalith E preservative treatment is used in accordance with BS8417 to meet Use Class 4. This particular wood is well-known for its low splitting properties with no feathering. Sourced and CNC machined by a top FSC certified timber supplier, the Radiata pine is suitable for most climates, whether the environment is hot or damp. They are fully sanded with chamfered edges, creating a smooth, classic finish.

#### **Sustainable Timber meets Solar Technology**



The Radiata Range and the Pro Solar Range have been combined to create the ultimate environmentally-friendly outdoor bollard light. Our Edisol solar path light is now available within a heavy duty timber post, in either black or silver finish, and with a warm or daylight LED filament lamp.

No wiring is required, simply sink the 200mm diameter wooden post in ground, turn on, and wait for night!

With a rustic yet contemporary feel, the Radiata Edisol are well-suited to rural areas such as parks, walkways, hospitality venues and areas where a cabled luminaire is not an option.

More info on Page 99





## Radiata Post

## **Timber Path Lights**

#### **Timber Post Light**

















- 2 Designs: Eyelite or Slatlite
- 2 Finishes: Rustic Bronze or Aged Silver
- In-Ground Mounted (Bury 300-400mm)
- Height: up to 0.9m Above Ground
- 12V / 240V Options











**UK Registered Design** 

#### SKU

#### 0.9m Post Height (0.6m Above Ground)

SKU Prefix: LRAD90-

E.g. LRAD90-EYE-12V

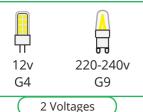
| Voltage | Eyelite<br>Rustic Bronze | Eyelite<br>Aged Silver | Slatlite<br>Rustic Bronze | Slatlite<br>Aged Silver |
|---------|--------------------------|------------------------|---------------------------|-------------------------|
| 12V     | EYE-12V                  | EYES-12V               | SLAT-12V                  | SLATS-12V               |
| 240V    | EYE-240V                 | EYES-240V              | SLAT-240V                 | SLATS-240V              |

#### 1.2m Post Height (0.9m Above Ground)

SKU Prefix: LRAD120-

E.g. LRAD120-EYE-12V

| Voltage | Eyelite<br>Rustic Bronze | Eyelite<br>Aged Silver | Slatlite<br>Rustic Bronze | Slatlite<br>Aged Silver |
|---------|--------------------------|------------------------|---------------------------|-------------------------|
| 12V     | EYE-12V                  | EYES-12V               | SLAT-12V                  | SLATS-12V               |
| 240V    | EYE-240V                 | EYES-240V              | SLAT-240V                 | SLATS-240V              |











# Timber Path Lights

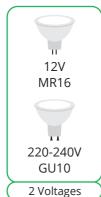
# Radiata Pacaman

**Timber Path Light** 









UK Registered Design: 6249431

| SKU            |                 |  |
|----------------|-----------------|--|
| 12V            | 240V            |  |
| LRAD130-ALVC12 | LRAD130-ALVC240 |  |
|                |                 |  |



- Radiata Timber & Anodised Aluminium
- In-Ground Mounted (Bury 300-400mm)
- Height: 1m Above Ground
- 12V / 240V Options















# Radiata Sleeper

## **Timber Path Lights**

#### **Timber Bollard Light**







- Radiata Timber & Natural Brass
- 2 Finishes Rustic Bronze or Aged Silver
- In-Ground Mounted (Bury 300-400mm)
- Height: up to 1m Above Ground
- One Directional Illumination

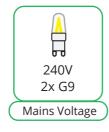












UK Registered Design: 6249433

|                        | SKU           |               |
|------------------------|---------------|---------------|
| Height                 | Rustic Bronze | Aged Silver   |
| 0.6m (+0.3m In-Ground) | LRAD90B-240V  | LRAD90S-240V  |
| 1m (+0.3m In-Ground)   | LRAD130B-240V | LRAD130S-240V |







## Pro Bollard Range

# **Pro-Bollard Range**

#### **Aluminium Bollard Lights**

Lumena have been supplying professional 240V bollard lights for more than 10 years, and continue to do so for various commercial applications such as hospitality settings, hospitals, coastal locations and housing developments.



Our robust Pro-Bollards all house a replaceable ES/E27 LED lamp, giving the customer ultimate choice in light output and colour temperature. They are specially designed to accommodate our 15W & 20W corn bulbs (p.81) for optimum output.

There are 168 variations with 4 choices of head designs; 4 heights; surface and root mounting and integral photocell options. Crafted from strong, powder-coated extruded aluminium, their longevity and reliability are notable within the lighting world. Spare parts including replacement heads, bulb holders lamps and tubes are stocked.

Photometric data using our 15W and 20W corn bulbs is available upon request. This includes full PDF reports, .LDT and .IES files. This data helps ensure the correct fitting is selected for the project and type of lighting required, as well as how to space bollards efficiently.





Surface Mounting Base (6mm thick aluminium) is supplied with 4x anchor bolts



Root Mounting Tube has additional 400mm with anchor bar to submerse into concrete.

#### Require a Specific Colour? Bespoke powder coating available.

Various RAL numbers & finishes.
MOO: 10pcs

Enquire today: **01327 871161** 



| Head SKU       |          |          |            |          |  |  |
|----------------|----------|----------|------------|----------|--|--|
|                | Fortress | Parabola | Lighthouse | LEDifice |  |  |
| Dome $\bigcap$ | FORT-DBL | PARA-DBL | LIG-DBL    | LEDI-DBL |  |  |
| Flat           | FORT-FBL | PARA-FBL | LIG-FBL    | LEDI-FBL |  |  |
| Pillar 🗌       | FORT-PBL | PARA-PBL | LIG-PBL    | LEDI-PBL |  |  |

| Tube SKU      |           |              |         |          |  |  |
|---------------|-----------|--------------|---------|----------|--|--|
|               | 0.4m      | 0.6m         | 0.8m    | 1m       |  |  |
| Surface Mount | SMT19BL   | SMT39BL      | SMT58BL | SMT78BL  |  |  |
| Root Mount    | N/A       | RMT78BL      | RMT99BL | RMT119BL |  |  |
|               | 1T78BL-PC | On 🔌 / 🔆 Off |         |          |  |  |

E.g. LEDI-PBL/SMT58BL-PC = LEDifice pillar head on 0.8m surface mount tube with photocell

## **Fortress**

## **Pro Bollard** Range

### **Vandal Resistant Illuminated Bollard**

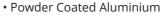


Flat



SKU on p.72





- Surface Mounted or Root Mounted
- Height: 0.4m, 0.6m, 0.8m or 1m
- 3 Head Styles: Flat, Pillar & Dome
- Photocell Option Available
- Internal Junction Box (240V)

















**External louvres** for added protection



















## **Pro Bollard** Range

# **Parabola**

### Illuminated Marker Bollard



Flat



SKU on p.72



- Powder Coated Aluminium
  - Surface Mounted or Root Mounted
  - Height: 0.4m, 0.6m, 0.8m or 1m
  - 3 Head Styles: Flat, Pillar & Dome
  - Photocell Option Available
  - Internal Junction Box (240V)



**Bulb fully concealed** behind reflectors









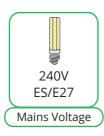


















# Lighthouse

## **Pro Bollard** Range

## Commercial Illuminated Bollard













- Powder Coated Aluminium
- Surface Mounted or Root Mounted
- Height: 0.4m, 0.6m, 0.8m or 1m
- 3 Head Styles: Flat, Pillar & Dome
- Photocell Option Available
- Internal Junction Box (240V)









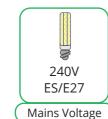


















## **Pro Bollard** Range

# **LEDifice**

### **High Output Commercial Bollard**



Flat



SKU on p.72

Dome



- Surface Mounted or Root Mounted
- Height: 0.4m, 0.6m, 0.8m or 1m
- 3 Head Styles: Flat, Pillar & Dome
- Photocell Option
- Internal Junction Box (240V)































# **Boleda Range**

### **In-Built LED Bollard Lights**

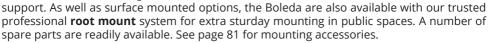
## Boleda LED Bollard Range

2022 saw the release of the highly efficient, high output Boleda LED Bollard Range. There are 2 contemporary designs, the 'Ventus' (p.78) and 'Conus' (p.79), which utilise specially designed, built-in LEDs as an alternative to replaceable lamps. These maintain the same light output as replaceable lamps with an expected life of **50,000 hours**. The 20W rated in-built LEDs in both bollards emit an impressive 1600lm (80lm/W) output.

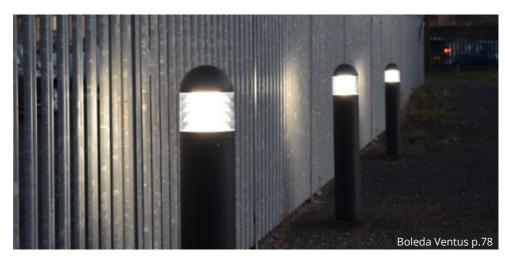
An internal **3-way colour switch** enables the choice of 3 colour temperatures: 3000K, 4200K and 6500K.

Boleda designs are made from heavy duty, pressure die-cast aluminium with non-corrosive, stainless steel socket screws. The tube is up to 5mm thick where reinforced with internal ribs.

A sturdy **surface mount** base is supplied for mounting to a flat surface or alongside J-bolts / internal mount



For automated dusk to dawn illumination, all Boleda variations are available with an **integrated photocell** and additional PIR motion sensor models coming soon.





## Boleda **LED Bollard** Range

# Boleda Ventus

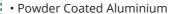
### **Built-in LED Bollard Light**





Adjusts via Switch





- Surface Mounted or Root Mounted
- · Height: 0.8m or 1m
- Built-In 20W LED (1600lm) 220V-240V
- Photocell Option
- Internal CCT Switch: 3000K, 4200K & 6500K
- Internal IP68 Cable Connector

















3000K

4200K

Daylight White









3 Colour Temperatures

UK Registered Design: 6249429

|                    | SKU            |                   |
|--------------------|----------------|-------------------|
| Mounting           | Standard       | Photocell         |
| 0.8m Surface Mount | BLVEN20D-80    | BLVEN20D-80-PC    |
| 1m Surface Mount   | BLVEN20D-100   | BLVEN20D-100-PC   |
| 1m Root Mount      | BLVEN20D-100RM | BLVEN20D-100RM-PC |







# Boleda Conus

### **Built-in LED Bollard Light**

## Boleda **LED Bollard** Range







Colour Temperature Adjusts via Switch



- Powder Coated Aluminium
- Surface Mounted or Root Mounted
- Height: 0.8m or 1m
- Built-In 20W LED (1600lm) 220V-240V
- Internal CCT Switch: 3000K, 4200K & 6500K
- Photocell Option
- Internal Cable Connector











Daylight White

















3 Colour Temperatures

UK Registered Design: 6249428

|                    | SKU            |                   |
|--------------------|----------------|-------------------|
| Mounting           | Standard       | Photocell         |
| 0.8m Surface Mount | BLCON20F-80    | BLCON20F-80-PC    |
| 1m Surface Mount   | BLCON20F-100   | BLCON20F-100-PC   |
| 1m Root Mount      | BLCON20F-100RM | BLCON20F-100RM-PC |







# Lampposts & Other

# **More Designs Online**

**Different Styles & Finishes Available** 



## **Bollard Accessories**

**Lamps, Mounting and Spares** 

Lamps, **Bolts & Spares** 

**LED Light Bulbs** 

More lamps including SES/E14, MR16 and GU10 on p.56

#### 6W or 8W LED GLS Bulb ES/E27



#### Suitable for:

- Smartpost
- Domus
- Fortress
- Parabola
- Lighthouse



15W LED Corn Bulb ES/E27

#### Suitable for:

- Domus
- Pathos 316
- Marina
- Lighthouse
- Parabola





20W LED Corn Bulb ES/E27

#### Suitable for:

- Stelled
- Marina
- **LEDifice**

| sкu     |         |          |
|---------|---------|----------|
| Kelvins | 6W      | 8W       |
| 2700K   | LGLESF6 | LGLESF8W |
| 6500K   | N/A     | LGLESF8D |

| SKU        |         |          |
|------------|---------|----------|
| Kelvins 6W |         | 8W       |
| 2700K      | LGLESF6 | LGLESF8W |
| 6500K      | N/A     | LGLESF8D |

| SKU     |        |
|---------|--------|
| Kelvins | 15W    |
| 1800K   | LED15A |
| 2700K   | LED15W |
| 6500K   | LED15D |

| SKU     |        |
|---------|--------|
| Kelvins | 20W    |
| 1800K   | LED20A |
| 3000K   | LED20W |
| 6500K   | LED20D |

## **Mounting Bolts & Screws**







Root Mount **I-Bolt Kits** 

| SKU         |          |
|-------------|----------|
| Range       | SKU      |
| Pro Bollard | LLRMK4   |
| Boleda      | BI -RMK3 |

Surface Mount Internal Support for Boleda Range

SKU: BL-SMS





#### **Bollard Spares in Stock**

In the event of damage to your bollards, Lumena stock a variety of spares parts including heads, tubes, bulb holders & mounts.





Security Screws for Pro Bollards

SKU: LLSSK6



## Solar Lighting

# **Solar Lighting**

It has always been Lumena's ambition to stock reliable solar lighting that works in UK weather. For many years, much of what was available on the UK market was cheap, low output and didn't last for extended periods of time. Lumena wanted to offer solar products that were functional and reliable all year round.



In 2019, the Pro Solar Range was launched, followed by the ViaMAX street lighting range in 2021 (p.112). Lumena now stock and supply the UK's largest range of professional solar lighting including 15+ incredibly popular solar bollards. Most products have a 5 year guarantee with expected battery life of 8-10 years.

#### What makes them suitable for the UK?

Lumena has embraced advances in solar technology, incorporating high-end components into their solar ranges. Both polycrystalline and monocrystalline solar cells provide fast charging. The advent of improved technology, such as more efficient solar panels, ever brighter LEDs, and high capacity, long life Lithium-Ion batteries ensure Lumena's solar ranges are able to illuminate all year round.

#### **Lighting Efficiently**

Many of Lumena's solar lights operate a gradual dimming sequence. Sequences vary depending on the fitting, usually starting at 100% brightness, gradually dimming down in incriments hour by hour until 30% brightness during the early morning. This technique reduces light pollution during the early morning and improves conservation of battery charge. Motion sensors are also effective in achieving these results by only powering the light at full brightness when people are nearby.

### **Colour Temperatures**

The tone of light emitted by LEDs is measured in kelvins. Lumena's solar lights range from 3000K (Warm White) to 6500K (Daylight White). The lumen output or 'brightness' of warm & daylight white LEDs is typically the same, although daylight white can appear brighter to the naked eye.





# Pro Solar Range Rosolar

Solar Lighting

### **Professional Solar Lighting**

The 'Pro Solar Range' is our core range of professional solar lighting launched in 2019. It includes: bollards & path lights, wall lights, floodlights, step lights, spike lights and in-ground lights. Designs include innovative power saving functions such as PIR motion sensors, gradual dimming sequences and multifunction remote controls for timer and brightness settings. We stock spare components where possible, and offer a 5 year guarantee on most models. This has quickly become the most popular range of outdoor lighting for Lumena, overtaking the demand for mains Bollards.

#### **Solar Bollard Lights**

Contemporary and traditional designs are available with a choice of colour temperature. Each design is complete with integrated solar panel, battery and LEDs. These are supplied with coach bolts as standard with some also offering a groundspike.



## **Durasol** - 12V DC Solar Lighting System

Pair the lights you love with solar. The Durasol is an all-in-one solar power source for Lumena's 12V lighting.

The unit is complete with solar panel, battery and remote control and can be free standing or wall mounted. With the easy to use VERSA plug & play system, you can have your garden lights installed in minutes! Simply connect your 12V DC lights, whether it be spikelights, spreadlights or other, and wait for nightfall.



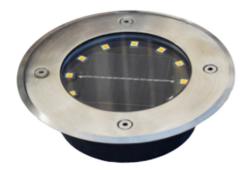


## Solar Ground / Step Lights

# Soldial



## **Solar Driveway Light**



| <ul> <li>Stainless Steel</li> </ul> | Bezel, Alum | inium | Body |
|-------------------------------------|-------------|-------|------|
|-------------------------------------|-------------|-------|------|

• Installation Hole Diamater: 100mm

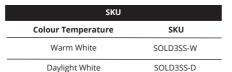
• Bezel Diameter: 150mm

• 3W LED (210lm)

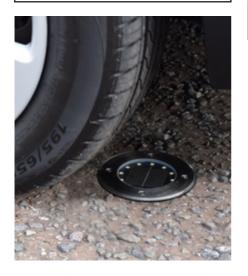
• 6-8 Hours Charging Time

• Up to 15 Hours Illumination Time

• Driveover (max 5mph, <500kg per wheel)











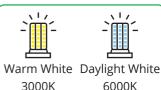












2 Colour Temperatures





## Halomarka



Solar Ground / Step Lights

## **Edging Marker Light**



| • ABS + | Polycarbonate |
|---------|---------------|
|---------|---------------|

- Pack of 2
- 115mm Diameter
- 0.5W LED with 3 Colour Options
- 6-8 Hours Charging Time
- Up to 18 Hours Illumination Time
- Spike Mount or Surface Mount

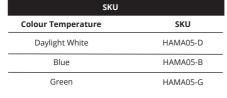


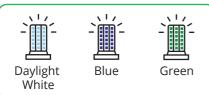












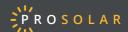
3 Colour Options







# Solspike



## **Set of 3 Solar Spike Lights**



- Powder Coated Aluminium (Black)
- Remote Control: Dimming & Time Control (3hr, 5hr, 8hr & Dusk to Dawn)
- Cable Length: 2m per light + 2m (Panel)
- 6-8 Hours Charging Time
- Up to 20 Hours Illumination Time
- 3x 7W Epistar LED (630lm) Warm White
- Spike Mount or Surface Mount















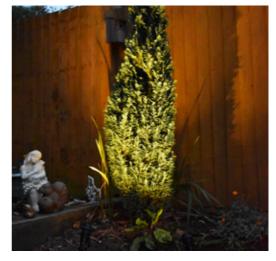
In-Built LED



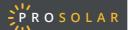
Solspike

SOLSPK7W-3









## Solar **Spikelights**

## **Spike Mounted Solar Uplight**



|         | SKU .      |
|---------|------------|
| Wattage | SKU        |
| 25W     | LUX25D-SPK |
| 60W     | LUX60D-SPK |



- · Aluminium Alloy, Tempered Glass
- 5-6 Hour Charging Time (Full Sunshine)
- Up to 14 Hours Illumination Time
- 3hr, 5hr, 8hr & Dusk 'til Dawn Timer Modes
- 4m Cable (+5m Extension Available)
- 25W or 60W LEDs (Up to 1500lm)
- Spike Mounted















# Trapeze

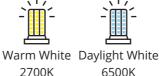




### **Solar Spike Light**



- · Aluminium & Glass
- 5-6 Hour Charging Time (Full Sunshine)
- Up to 23 Hours Illumination Time
- 2hr, 3hr, 5hr, 8hr, 10hr & Dusk 'til Dawn
   Timer Modes + Dimming (25% increments)
- 7W LEDs (Up to 840lm)
- Spike or Surface Mounted









2 Colour Temperatures





| SKU                |           |
|--------------------|-----------|
| Colour Temperature | SKU       |
| 2700K              | TRAPSPK-W |
| 6500K              | TRAPSPK-D |

Included

Lighting Mode: Gradual Dimming Sequence 4hrs 100%, 3hrs 70%, then 30% until dawn.

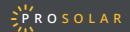






## Trapeze





## Solar Wall Lights

## Single or Twin Wall Light



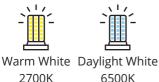






- 5-6 Hour Charging Time (Full Sunshine)
- Up to 23 Hours Illumination Time
- 2hr, 3hr, 5hr, 8hr, 10hr & Dusk 'til Dawn Timer Modes + Dimming (25% increments)
- 7W LEDs (Up to 840lm) 3.5W Each Side
- Wall Mounted





2700K 2 Colour Temperatures

|                    | SKU      |           |
|--------------------|----------|-----------|
| Colour Temperature | Single   | Up & Down |
| Warm White         | TRAPWL-W | TRAPWL2-W |
| Daylight White     | TRAPWL-D | TRAPWL2-D |

Lighting Mode: Gradual Dimming Sequence 4hrs 100%, 3hrs 70%, then 30% until dawn.















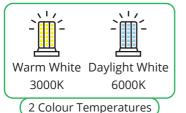


# Olympia

## **Solar Wall Light**



| SKU                |         |
|--------------------|---------|
| Colour Temperature | Olympia |
| Warm White         | OLYWL-W |
| Daylight White     | OLYWL-D |





- Die-Cast Aluminium, Polycarbonate
  - & Tempered Glass
- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- Height: 38cm
- 3.5W LED (420lm)
- Matching Pedestal / Path Lights p.100















## **Solar Sign Light**



with optional remote



Default Mode: Gradual Dimming Sequence 1hrs 100%, 2hrs 80%, 2hrs 50%, 9hrs 30%

Other Modes (Remote Only): Timers & Dimming 4hr, 6hr, 8hr, 10hr & Dusk 'til Dawn. Brightness (- or +).

- Powder Coated Aluminium
- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- 6W LED (720lm)
- Mount to Walls or Lamposts (Alternative Bracket)
- Suitable for Graphics of up to 1m Width
- Tilt with up to 260mm Outreach (Adjustable)















UK Registered Design: 6250124

SKU SKU

SIGNA6B-C







# **Freeway**



### **PIR Motion Sensor Solar Light**





#### SKU

Arm: 16cm or 26cm

#### Freeway

FWAY5PIR-D





• Polycarbonate, Aluminium Body

- PIR Motion Sensor (5m / 120°)
- 2x Mounting Arms: 16cm or 26cm
- 8-10 Hour Charging Time (Full Sunshine)
- Up to 18 Hours Illumination Time
- 6W LED (1000lm)
- Surface Mounted (2 Size Brackets)







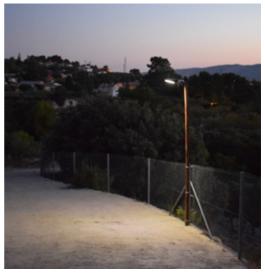




#### Lighting Modes:

- 1) Constant on Full brightness for 6 Hours
- 2) 50% Light PIR Constant 50% light until PIR triggered
- 3) Standard PIR Light remains off until PIR is triggered







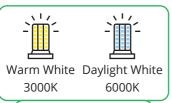
## **PIR Motion Sensor Solar Light**



| SKI |
|-----|
|     |

SKU: HWAY-WB

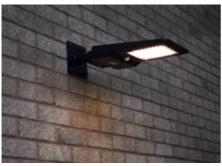
| Colour Temperature | SKU       |
|--------------------|-----------|
| 3000K              | HWAYPIR-W |
| 6000K              | HWAYPIR-D |



2 Colour Temperatures

#### Lighting Mode: Security Lighting

Dim brightness until motion is detected (increases to full for 20 seconds). After 5 hours, or less than 30% battery capactity, light remains off until motion is detected.



- Polycarbonate Body, Aluminium Arm & Tempered Glass
- PIR Motion Sensor (8m / 120°)
- 10-12 Hour Charging Time (Full Sunshine)
- Up to 25 Hours Illumination Time
- 15W LED (1600lm)
- Internal Collar for 50mm Horizontal Poles
- Supplied: 29cm Arm & 15cm Wall Mount
- Surface Mounted

















# Solar Floodlights

## Lumelux



## **High Output Solar Floodlight**











| S       | KU     |
|---------|--------|
| Wattage | SKU    |
| 25W     | LUX25D |
| 60W     | LUX60D |



- · Aluminium Alloy, Tempered Glass
- 5-6 Hour Charging Time (Full Sunshine)
- Up to 14 Hours Illumination Time
- 3hr, 5hr, 8hr & Dusk 'til Dawn Timer Modes
- 4m Cable (+5m Extension Available)
- 25W or 60W LEDs (Up to 1500lm)
- Surface Mounted















## Heliosol



# Solar FloodLights

## Slimline High Output Solar Floodlight



| SKI     | IJ      |
|---------|---------|
| Wattage | SKU     |
| 200W    | HEL200D |
| 300W    | HEL300D |
| 400W    | HEL400D |



- Aluminium Alloy, Tempered Glass
- 4-6 Hour Charging Time (Full Sunshine)
- 20+ Hours Illumination Time
- 2hr, 4hr, 6hr & Dusk 'til Dawn Timer Modes
- 2m Cable (+4m Extension Available)
- 200W, 300W & 400W LEDs (Up to 4800lm)
- Surface Mount or Pole Mount





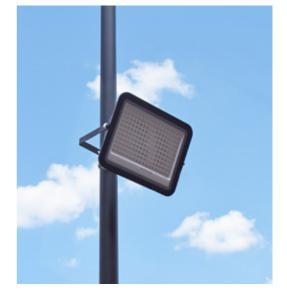










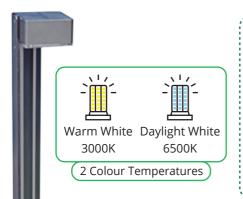




# **Endura**



## **Slimline Solar Path Light**



- Aluminium Alloy
- 6-8 Hours Charging Time
- 130 Hours Illumination Time
- 1m Spread of Light
- 0.5m Height
- 3W LED (500lm)
- Spike Mount or Surface Mount





















| SKU                | ı            |
|--------------------|--------------|
| Colour Temperature | ENDURA       |
| 3000K              | ENDURA3-SG-W |
| 6500K              | ENDURA3-SG-D |

Lighting Mode: Gradual Dimming Sequence 1hrs 100%, 2hrs 80%, then 30% until dawn







## **Pathmaster**



Solar **Path** Lights

**Solar Spreadlight** 



- Die-Cast Aluminium & Polycarbonate
- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- · Height: 450mm or 700mm
- 6W LED (300lm)
- Ground Spike & External Surface Mount













In-Built LED

|        | SKU        |
|--------|------------|
| Height | Pathmaster |
| 450mm  | PMAST450-D |
| 700mm  | PMAST700-D |







## **Edisol**



## **Traditional Solar Path Light**



- Die-cast Aluminium & Polycarbonate
- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- Replaceable 2W LED Filament Lamp (216lm)
- 5m Spread of Light
- · Height: 0.8m
- External Surface Mount

















3000K

2 Colour Temperatures



**Colour Temperature** 

Warm White

SKU

Black

EDIS800B-W

Silver

EDIS800S-W





# Radiata Edisol PROSOLAR

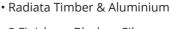
**Bollard** Lights

## **Solar Timber Path Light**





Silver Black



• 2 Finishes - Black or Silver

- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- 2W LED Filament Lamp 216lm
- 5m Spread of Light
- 0.8m Above Ground + 0.35m In-Ground













Solar

3000K

2 Colour Temperatures

Warm White Daylight White 6000K







UK Registered Design: 6249426

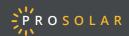
|             | SKU        |                |
|-------------|------------|----------------|
| Head Finish | Warm White | Daylight White |
| Black       | EDISRADB-W | EDISRADB-D     |
| Silver      | EDISRADS-W | EDISRADS-D     |







# Olympia



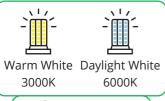
### **Solar Post & Pedestal Lights**

## Olympia Pedestal (380mm)



- Die-Cast Aluminium, Polycarbonate & Tempered Glass
- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- 3.5W LED (420lm)
- 1.5m / 4m (Respectively) Spread of Light
- Height: 0.38m (Pedestal) or 0.8m (Post)
- External or Internal Surface Mount
- Matching Wall Lights (p.90)

## Olympia Post Light (800mm)





2 Colour Temperatures



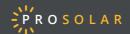


Design: 6089624



**UK Registered** Design: 6074580

# Olympia



## Solar Bollard Lights

## **Solar Post & Pedestal Lights**

















| 0.38m Pedestal SKU |               |               |
|--------------------|---------------|---------------|
| Colour Temperature | External Base | Internal Base |
| Warm White         | OLYPEDB-W     | OLYPED-W      |
| Daylight White     | OLYPEDB-D     | OLYPED-D      |
|                    |               |               |

| 0.8m Post SKU      |               |               |
|--------------------|---------------|---------------|
| Colour Temperature | External Base | Internal Base |
| Warm White         | OLY800B-W     | OLY800-W      |
| Daylight White     | OLY800B-D     | OLY800-D      |







## Solar **Bollard** Lights

# Olympia PIR



## **Path Light with Motion Sensor**











• Die-Cast Aluminium, Polycarbonate

- PIR Motion Sensor (8m / 120°)
- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- 3.5W LED (420lm)
- 4m Spread of Light
- · Height: 0.8m
- Internal Surface Mount





















#### SKU

#### Olympia

OLY800-D-PIR

#### Lighting Mode: Security Lighting

Light remains at 50% brightness until motion detected, then switches to 100% for 30 seconds.







# Halopost

# PROSOLAR

## Solar **Bollard** Lights

## 360° Downlight





- Die-Cast Aluminium & Tempered Glass
- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- 3.5W LED (420lm)
- 3m Spread of Light
- Height: 0.8m
- External Surface Mount





2 Colour Temperatures













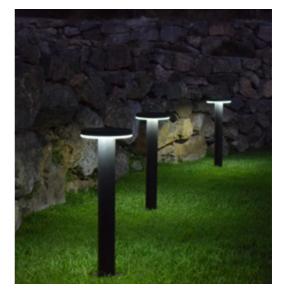




UK Registered Design: 6074585

| SKU                |           |
|--------------------|-----------|
| Colour Temperature | SKU       |
| 3000K              | HALO800-W |
| 6000K              | HALO800-D |







# Guarda



## **Vandal Resistant Bollard Light**







- · Die-Cast Aluminium, Polycarbonate
  - & Tempered Glass
- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- 1.8W LED (210lm)
- 2m Spread of Light
- Height: 0.76m
- External Surface Mount



3000K

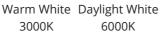












2 Colour Temperatures









UK Registered Design: 6074586

| SKU                |          |
|--------------------|----------|
| Colour Temperature | SKU      |
| 3000K              | GUA760-W |
| 6000K              | GUA760-D |







## **Eccentrica**

## ROSOLAR

## Solar **Bollard** Lights

## **Angled Solar Path Light**







Black



White

• Die-Cast Aluminium & Tempered Glass

- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- Adjustable Solar Panel (6 Rotations)
- 1.2W LED (150lm)
- 1m (Frontal) Spread of Light
- Height: 0.8m
- Internal Surface Mount Base

Solar panel position can be adjusted or changed

















UK Registered Design: 6089623

| SKU                |           |            |  |
|--------------------|-----------|------------|--|
| Colour Temperature | Black     | White      |  |
| Warm White         | ECC800B-W | ECC800WH-W |  |
| Daylight White     | ECC800B-D | ECC800WH-D |  |

Default Mode: Gradual Dimming Sequence 1hrs 100%, 2hrs 80%, 2hrs 50%, 9hrs 30%

Other Modes (Remote Only): Timers & Dimming 4hr, 6hr, 8hr,10hr & Dusk 'til Dawn. Brightness (- or +).





Warm White Daylight White 3000K 6000K

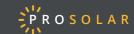
2 Colour Temperatures



Control functionality with optional remote



# Litecharga



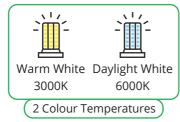
### 800mm Bollard Light







- Die-Cast Aluminium, Polycarbonate
  - & Tempered Glass
- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- 1.8W LED (210lm)
- 2m Spread of Light
- Height: 0.8m
- Internal Surface Mount



















UK Registered Design: 6074583

| SKU                |             |  |
|--------------------|-------------|--|
| Colour Temperature | SKU         |  |
| 3000K              | LCHARG800-W |  |
| 6000K              | LCHARG800-D |  |







# Litecharga PIR Resolar

Solar **Bollard** Lights

## **Solar Security Bollard Light**









- · Die-Cast Aluminium, Polycarbonate
- & Tempered Glass
- PIR Motion Sensor (8m / 120°)
- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- 1.8W LED (210lm)
- 2m Spread of Light
- Height: 0.8m
- Internal Surface Mount





















#### Litecharga

LCHARG-D-PIR

Lighting Mode: Security Lighting Light remains at 50% brightness until motion detected, then switches to 100% for 30 seconds







## **Panama**



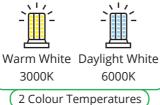
## **800mm Bollard Light**







- Die-Cast Aluminium, Polycarbonate
  - & Tempered Glass
- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- 1.8W LED (210lm)
- 2m Spread of Light
- Height: 0.8m
- Internal Surface Mount



















UK Registered Design: 6074584

| SKU                |           |  |
|--------------------|-----------|--|
| Colour Temperature | SKU       |  |
| 3000K              | PANA800-W |  |
| 6000K              | PANA800-D |  |







### Panama PIR



Solar **Bollard** Lights

**Solar Bollard Light with Motion Sensor** 









- Die-Cast Aluminium, Polycarbonate
  - & Tempered Glass
- PIR Motion Sensor (8m / 120°)
- 6-8 Hours Charging Time
- Up to 23 Hours Illumination Time
- 1.8W LED (210lm)
- 2m Spread of Light
- · Height: 0.8m
- Internal Surface Mount





















### SKU

#### Litecharga

PANA800-D-PIR

Lighting Mode: Security Lighting Light remains at 50% brightness until motion detected, then switches to 100% for 30 seconds



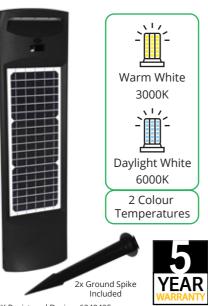




## Sol-Icon



### **Two Sided PIR Path Light**



UK Registered Design: 6249425

| SKU       |  |  |  |
|-----------|--|--|--|
| SKU       |  |  |  |
| ICON800-W |  |  |  |
| ICON800-D |  |  |  |
|           |  |  |  |

#### Lighting Modes:

- 1) PIR Mode 15% brightness until PIR triggered
- 2) Constant Light (dusk to dawn) continual 50% brightness



- Die-Cast Aluminium & Tempered Glass
- 2 Sided (can be used as Single Sided)
- PIR Motion Sensor (8m / 160°)
- 10 Hours Charging Time
- Up to 32 Hours Illumination Time
- 20W LED (2000lm) / 10W per Side
- 6m Spread of Light
- Height: 0.8m
- Internal Surface Mount & Ground Spikes



















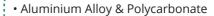






### **Solar Road Stud**





- 0.8W LED (Up to 80lm)
- 4x Colours: Daylight White (6000K), Red,
   Yellow or Green
- 8 Hours Charging Time
- Up to 12 Hours Illumination Time
- 105mm x 105mm
- Withstands Loads of up to 20 Tonnes







| SKU            |            |  |
|----------------|------------|--|
| LED Colour     | SKU        |  |
| Daylight White | UNILED08-D |  |
| Red            | UNILED08-R |  |
| Yellow         | UNILED08-Y |  |
| Green          | UNILED08-G |  |





















### Solar Lighting

# ViaMAX Range

### **Solar Street Lighting**

ViaMAX is the professionals' choice in solar street lighting, for all year round, high-output illumination in UK weather. Long life, high-capacity Lithium batteries and large panels, teamed with motion sensor functionality and time controllers, result in substantial charge retention and reliable illumination time. All models have dusk to dawn functionality as standard, with most products incorporating motion sensors.



#### Mounting

Lumena have kept installation simple. We focused on two primary column types: 60mm Diameter & 76mm Diameter. All our lampost lights are designed for one of these poles, with the ability to mix and match with handy 60-76mm adaptors.

#### **Photometry**

Photometric data including full reports, .LDT and .IES files are available for all ViaMAX models. This data helps specifiers ensure the correct fitting is selected for the project, confirming the type of illumination required and quantity of light output. Contact us for more info.

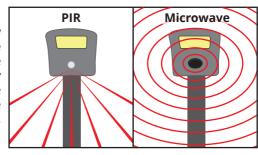
#### All-in-one vs Separate Panel

As the name suggests, all-in-one refers to a single solar light with integrated solar panel. Otherwise a solar light usually has two components, where the solar panel and light fitting are separate but connect with a short cable.

Separate designs can sometimes allow for more versatility around installation because the often larger solar panel can be installed some distance from the main light. Examples of this include the Dominium (p.116) and Sky-Eye (p.117).

#### PIR vs Microwave Motion Sensors

Most solar lights used for security purposes will be fitted with one of these types of sensors. PIRs are effective in the area visible to them (usually approx 120°), whereas microwave sensors have 360° detection and sense motion through walls and other objects.





# **Hiway Max**



Solar Street Lights

**Motion Sensor Solar Street Light** 



| Product Code       |            |  |
|--------------------|------------|--|
| Colour Temperature | SKU        |  |
| 3000K              | HWM40PIR-W |  |

6000K

Warm White



HWM40PIR-D

Compatible with 50mm horizontal poles



2 Colour Temperatures



- Aluminium, ABS, Polycarbonate
  - & Tempered Glass
- PIR Motion Sensor (12m / 120°)
- Main Body: 62cm x 29cm
- 60mm Collar (Vertical), 50mm (Horizontal)
- 8 Hour Charge Time (Full Sunshine)
- Up to 60 Hours Illumination
- 40W LED (4800lm)
- 5 Lighting Modes: Timer & Security Modes
- Recommended Mounting Height: 3-6m

























# Olympia Max



**All-in-One Solar Street Light** 

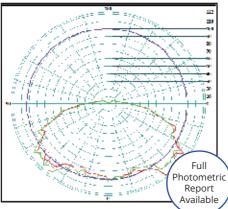


UK Registered Design: 6148069

SKU Olympia Max

OLYMAX-SLH-D

Lighting Mode: Gradual Dimming Sequence 1hrs 100%, 1hr 80%, 1hr 60%, 4hrs 40%, 5hrs 20%



- Die-cast Aluminium, Polycarbonate
  - & Tempered Glass
- Two-Tone Frosted DIffuser
- Top of Head: 48cm Diameter
- 76mm Collar
- 5-8 Hour Charge Time (Full Sunshine)
- Up to 23 Hours Illumination Time
- 40W LED (2200lm)
- Recommended Mounting Height: 3-6m







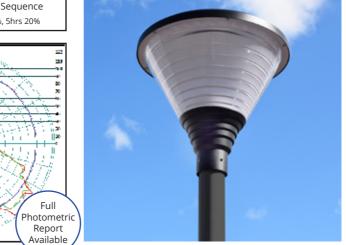














## Streetmaster



Solar Street Lights

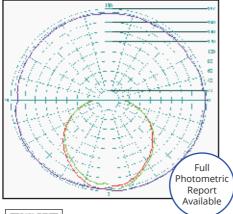
**All-in-One Solar Street Light** 



- Die-cast Aluminium, Polycarbonate & **Tempered Glass**
- White Polycarbonate DIffuser
- Top of Head: 55cm Diameter
- 76mm Collar
- 5-8 Hour Charge Time (Full Sunshine)
- Up to 35 Hours Illumination Time
- 80W LED (2700lm)
- Recommended Mounting Height: 3-6m

### SKU Streetmaster SMAST-SLH-D

Lighting Mode: Gradual Dimming Sequence 1hrs 100%, 1hr 80%, 1hr 60%, 4hrs 40%, 5hrs 20%





















## **Dominium**



### **Solar Street Light with Motion Sensor**



**Product Code** 

SKU

DOMSEN15-D

DOMSEN15-D / ADAP7660GS

Mounting

60mm Mount Kit

76mm Mount Kit

- Die-cast Aluminium (Grey Finish)
- Microwave Motion Sensor (15m)
- Solar Panel Sizing: 53cm x 50cm
- 60mm Collar
- 0.5m Cable (Light to Panel)
- 8 Hour Charge Time (Full Sunshine)
- Up to 40 Hours Illumination Time
- 50W LED (3000lm)
- 5 Lighting Modes: Timer and Security Modes
- Recommended Mounting Height: 3-6m











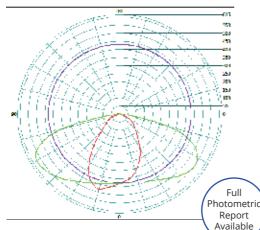














# Sky-Eye

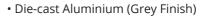


Solar Street Lights

### **Motion Sensor Solar Sign Light / Floodlight**



| SKU            |              |  |
|----------------|--------------|--|
| Mounting       | SKU          |  |
| 60mm Mount Kit | SKY15SEN-D / |  |
|                | UBRACK60     |  |
|                | SKY15SEN-D / |  |
| 76mm Mount Kit | UNICLAMP76 / |  |
|                | ADAP7660GS   |  |



- Microwave Motion Sensor (15m)
- Solar Panel Sizing: 78cm x 34cm
- 60mm Collar
- 0.9m Cable (Light to Panel)
- 5-8 Hour Charge Time (Full Sunshine)
- Up to 40 Hours Illumination Time
- 15W LED (2400lm)
- 5 Lighting Modes: Timer and Security Modes
- Mounting Height: 3-6m (Floodlighting)











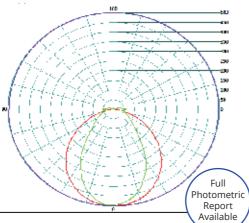


















### **Aftercare**

#### **Maintenance & Aftercare**

Outdoor lighting made from quality materials will always outlast inferior fittings. Care should still be taken to preserve a fitting's pristine finish after installation. Lumena recommend wiping clean the surface with a damp cloth and then dry once a month (more frequently in coastal areas). PIR and photocell sensors should also be cleaned regularly.

Materials like **Copper and Brass** naturally form a patina on their surface, adding an additional layer of protection. If a polished copper appearance is preferred, a layer of lacquer will slow down the weathering process.

**316 Stainless Steel** withstands corrosion for much longer due to its anti-corrosion properties. Stainless steel is still susceptible to pitting and tea staining from acid rain and salt in the air. It is recommended to clean the surface once per month with a damp cloth to remove residue. Specialist cleaning products like *'Kilrock'* stainless steel cleaner can also be used.

For **Solar Lights** to perform well, it is extremely important that solar panels are cleaned once a month. Debris should be removed from the solar panel as soon as this is noticed, and the panel wiped down with a soft, damp cloth. This ensures optimum charging of the product. Sensors and LEDs should also be wiped down with a soft, damp cloth regularly. Lumena offer a solar cleaning kit (right image) which acts as a preservative for solar panels, boosting charging performance.



#### Guarantee

Our customer service continues after installation to ensure you get the best out of your purchase. Lumena offer guarantees of up to 5 years on all our light fittings. The warranty period for cables, integrated photocells and connection blocks is 1 year.

Guarantee excludes accidental or malicious damage, general wear and tear and electrical faults due to misuse or incorrect installation. All 240V lights must have been installed by an Electrician qualified and registered to part "P" of the electrical regulations (proof may be required). Products installed in coastal areas will be covered with a reduced guarantee period of 1 year.

It should be noted that Lumena carry spare parts for most of the lights supplied. It may be a better option to ask for a spare part (which may be supplied free of charge) rather than claim under Guarantee and have the expense of reinstalling the fitting.



Under the guarantee, we will firstly offer spare components or try to fix the fitting if possible. If this is unsuccessful, a full replacement will be offered. If we do not have the item in stock, the choice of an alternative replacement or a refund will be offered.

### Our Portfolio



Lumena are proud to have supplied many pregistious locations and institutions, including the following:



















Ask your Local Electrical Wholesaler about Lumena













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...and More!







Lighting

Solar Lighting



Lighting

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