

- **Product overview:**

**Handrail Lighting for Pathways, Step Units and Pavements** - High Quality and fully UK compliant handrail systems. Available with or without UK-manufactured and fully integrated contemporary solid state LED illumination meeting British Standard BS5489-1:2020.

**Conservation** - Our LED systems are designed for Dark Skies and align with ILP guidelines for lighting in ecologically sensitive areas. They contain specifically tailored optics to avoid glare and upwards light spill to support Dark Buffers plus Dark and Dark Blue Corridors.

- **Architectural, task and aesthetic applications – how they differ but how they can all be supplied in a single product.**

**Applications** – Where an illuminated system is required, we can provide contemporary energy efficient lighting systems that offer the necessary lighting performance to meet British Standard BS5489-1:2020 for locations that have this specific requirement. Our systems can also be used to offer an aesthetic to schemes where the illumination forms part of the decorative design intent. This can be provided in all the contemporary shades of white up to full colour, offering direct view and/or tailored illumination to highlight structures, sculptures and other features within the design scheme. We can provide the advice you will require to ensure suitability and conformance.

- **Practical and Operational Considerations when choosing pathway lighting.**

**Considerations** – Selecting the correct lighting system is critical to the scheme being implemented. We can provide the necessary assistance you may need for your scheme.  
**Light Performance** – Does the scheme call for a compliant light level typical for public realm schemes or is this part of a decorative design.  
**Colour** – Where there are environmental considerations such as the presence of bats, the potential for swarming insects near water sources, it is critical to choose the correct colour temperature that suit the specific application. We will provide this information for you.

- **Technical information on LED's.**

**Lighting Systems** – Our lighting systems are all manufactured in the UK to exacting standards and will offer fully compliant performance meeting British Standard BS5489-1:2020. We select from several light sources depending upon the application. These are projectors, modules, and linear solutions. Within these three categories, there are numerous options we deploy carefully chosen to suit each individual application. The systems can be controlled using proximity sensors, timers/photocells or linked back to the street-lighting systems where applicable.

- **Operational costs / financial burdens and opportunities**

**Operational Costs** – Our lighting systems are designed to use the most energy efficient light engines that suit each application. As an example, a typical path lighting scheme can consume as little as 10w of power. Our systems can be specified with proximity sensors and timers which ensure the lights are only energised when they are required. This ensures optimum longevity for the light product plus minimises the energy consumption. 100,000 hours of longevity have been achieved adopting this strategy. Every product we specify also carries industry standard 5-year manufacturer's warranty.

- **Back up / battery power options for power cuts or emergency lighting.**

**Emergency** – Every lighting system we specify has a battery back-up option should this be needed. If you tell us your application, we will advise you as to your requirements.

- **Quality assurance** – all our lighting systems have an anodised aluminium or 316 stainless steel construction and are manufactured in the UK to exacting standards. They all have the relevant anti-vandal and water resistance ratings suitable for your individual application. We can guide you as to the product that best suits your project.
- **Whole life maintenance** – Contemporary LED systems require an annual inspection to clean the surface of the LED product to keep their performance compliant, plus to inspect the LED drivers to ensure there has been no detriment to their locations that may cause detriment (such as enclosure doors being damaged leading to ingress of water). Aside from this, they are generally maintenance free.