# Solareye 80

## Key Features

Solar Eye has some very unique features that set it ahead of conventional floor and path lighting. Here are some of the key features that make the Solar Eye so popular:

- Renewable & maintenance free Green energy
- Low cost
- Low maintenance/operational costs
- No electrical supply required
- Simple and quick installation
- Fully sealed, waterproof unit
- CE and IP68 accredited
- Unique 360° visibility
- Skid resistant
- Light sensitive auto on/off for economical operation

## Technical Characteristics

- Material: High impact durable engineering grade polymer
- Light source: LED (100,000hrs life)
- Battery: Long life LFP type battery (8yrs+ anticipated)
- Working temperature: -20° to +70°
- Body dimensions: 80mm diameter
- Installed height: 6mm nominal
- Milling depth: 30mm
- Weight: 275g
- Fixing adhesive: 2 component epoxy adhesives
- Working time after full charge: Flashing 400hrs+ Steady 200hrs+
- Flash rate: 1 sec on, 1 sec off
- High visibility: Up to 500m

## Product Range

We have variations of our Solar Eye product, giving you the option for the perfect product that fits your needs.

- LED signal: steady or slow flash
- Standard colours: White steady & Red flash
- Special order colours: Blue, Green, Yellow & Red steady.
- Conservation area option: Bat Hat – reduction of upwards light spillage by up to 98%

## What is the Bat-Hat?

As well as being detrimental to Bats, artificial light also disturbs invertebrate feeding, breeding & movement which may reduce and fragment populations due to the disruptive natural patterns of light and dark caused by artificial lighting.

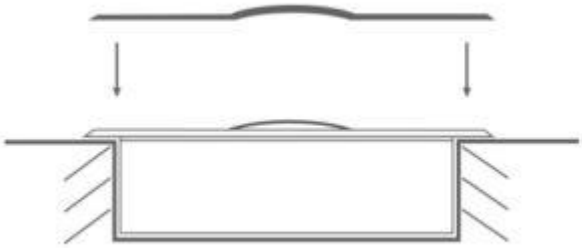
A number of our British mammals are nocturnal and have adapted their lifestyle so that they are active in the dark in order to avoid predators. Artificial illumination of the areas in which these mammals are active and foraging is likely to be disturbing to their nocturnal activities and their foraging areas could be lost in this way. It is thought that the most pronounced effect is likely to be on small mammals due to their need to avoid predators. However, this in itself has a knock-on effect on those predators.

The detrimental effect of artificial lighting is most clearly seen in bats. Our resident bat species have all suffered dramatic reductions in their numbers in the past century. Light falling on a bat roost exit point, regardless of species, will at least delay bats from emerging, which shortens the amount of time available to them for foraging.

As the main peak of nocturnal insect abundance occurs at and soon after dusk, a delay in emergence means this vital time for feeding is missed. At worst, the bats may feel compelled to abandon the roost. Bats are faithful to their roosts over many years and disturbance of this sort can have a significant effect on the future of the colony. It is likely to be deemed a breach of the natural and European legislation that protects British bats and their roosts.

In addition to causing disturbance to bats at the roost, artificial lighting can also affect the feeding behaviour of bats and their use of commuting routes. There are two aspects to this: one is the attraction that short wave length light (UV and Blue light) has to a range of insects; the other is the presence of lit conditions.

Whilst we are very proud of the brightness and omni-directionality of our standard product – we were keen to create an alternative for conservation areas so that Bats and other wildlife that may be affected, would not be disturbed.



We re-engineered the standard product by adding a little hat to reduce the upwards light spillage by around 98% whilst remaining the same in profile, making the 'Bat Hat' a far friendlier option.

Perfect for conservation sensitive areas or dark sky reserves, our delineator won't give off unwanted light fields or interfere with our little nocturnal friends.