



**GREENLIGHT TECHNOLOGIES**



**SOLAR LED LIGHT TILES**

***Solar LED light tiles offer a new “giant leap” for energy efficient lighting. They are entirely self sufficient, requiring only solar energy to operate.***

No wiring or maintenance

12 hours average operation from full charge

Automatic on/off operation and fully waterproof (I.P.68)

Wide operating temperature ( -25C / +60C )

Range of shapes, sizes, colours and effects

Highly durable polycarbonate housing with very high compressive

High level of vandal resistance and non slip top surface

Branded to clients specification if required





***Integrates with paving***



***Forth & Clyde Canal  
Clydebank, Scotland***



***Low cost lighting features  
created easily***



***Decorative and functional***



***The Whiteinch Centre  
Glasgow, Scotland***



**Forth & Clyde Canal  
Clydebank, Scotland**



**Ideal for public realm  
enhancement**



**For use as architectural  
lighting feature**



**Discreet daytime  
appearance**



**Ideal for signalling  
potential hazards**



# Versatile....



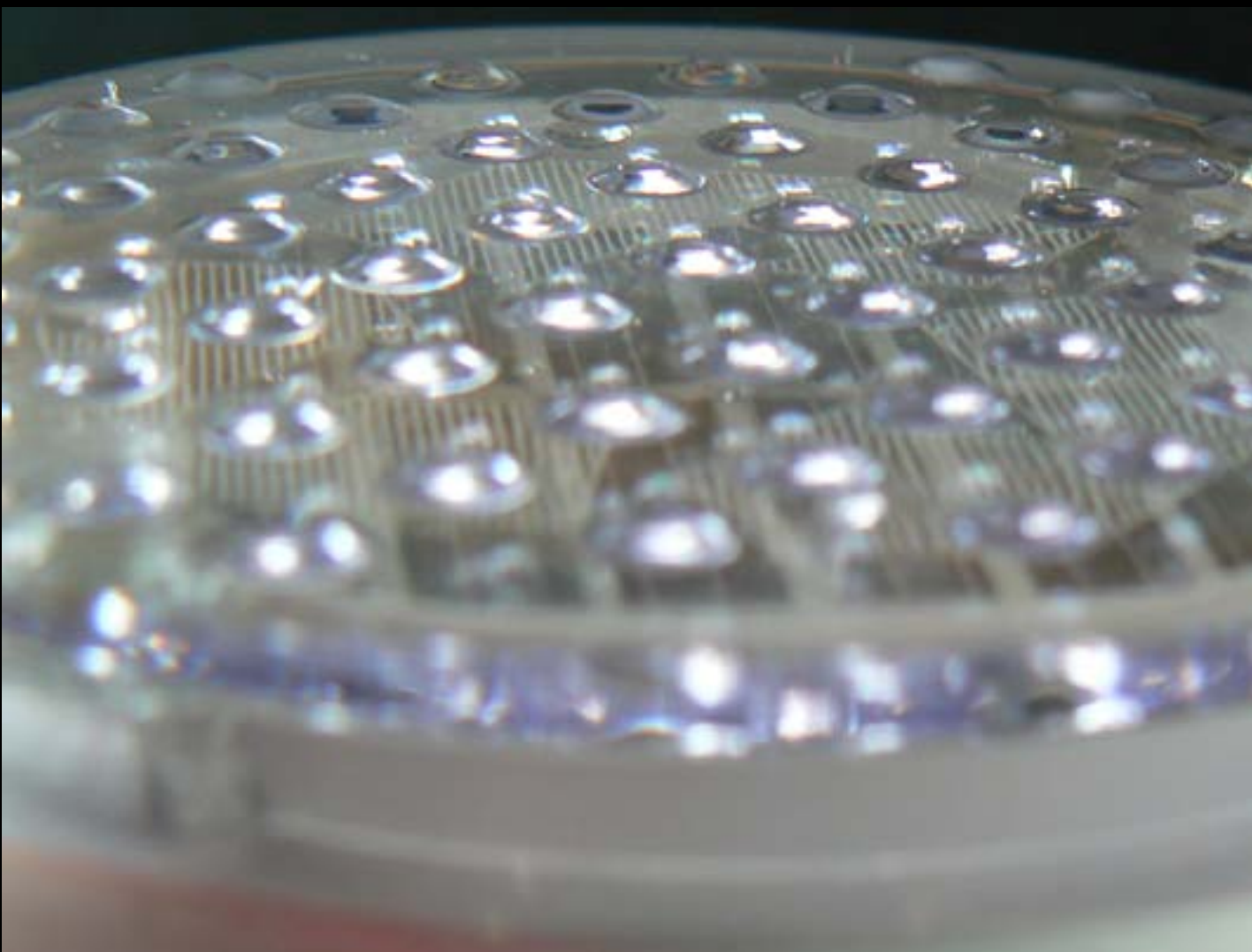
Innovative....



Simple.....

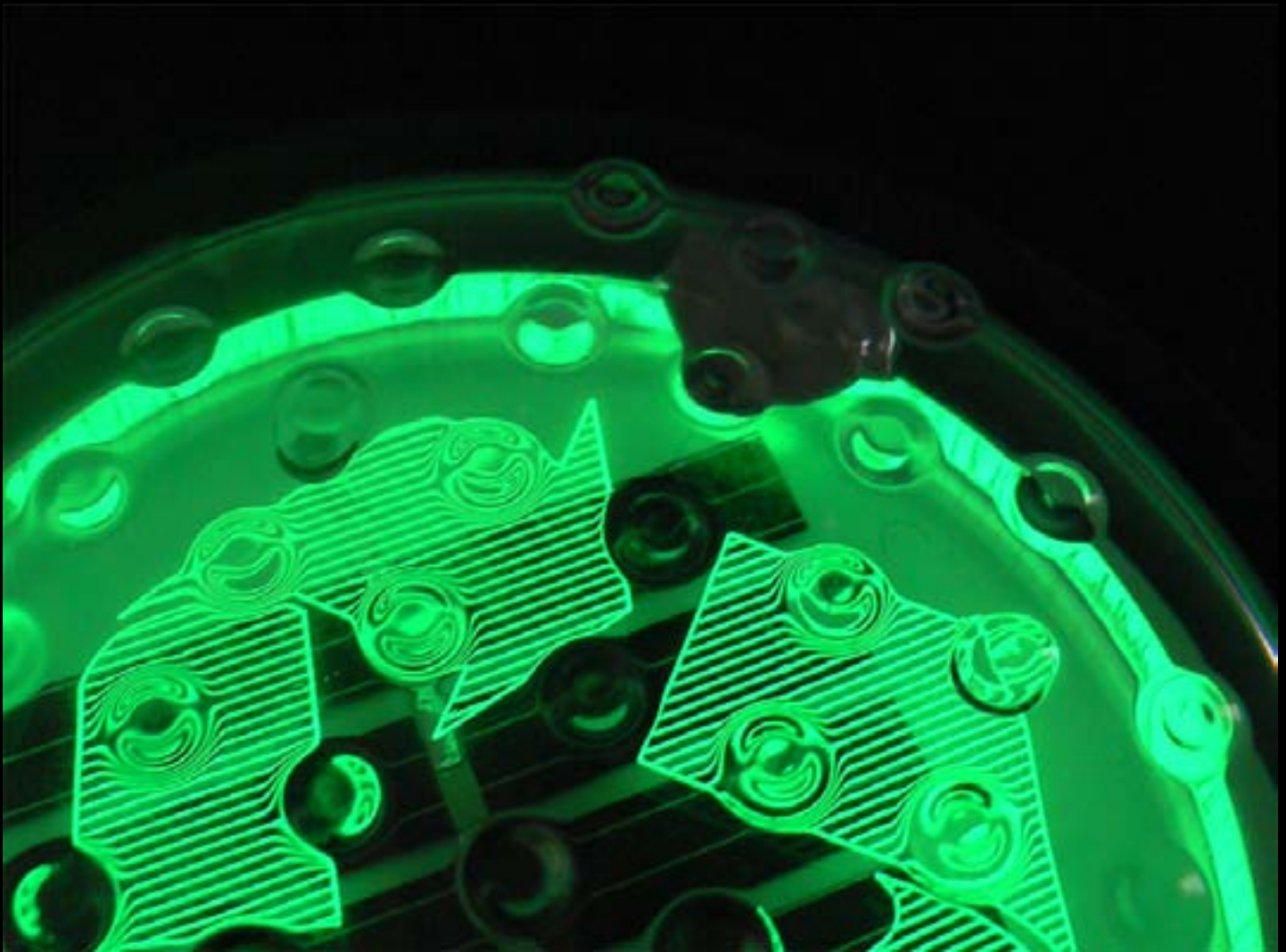


Durable.....





# Green.....



***Solar tiles can be mounted either vertically or horizontally***

They can be used in walls, footpaths, paved areas, decking, soft landscaping and even underwater

Ideal for route marking, orientation, creating lighting features, marking out focal and gathering points and places of interest

Solar tiles are Ideal for areas where the cost of installing traditional lightsources, wiring, containment and associated maintenance would be prohibitive



***Solar tiles can be personalised with artwork which is laser etched into the illuminating plate inside to suit your particular application***

Any design can be replicated including corporate logo's text, orientation markers, decorative designs or handdrawn artwork

Artwork can be included within any colour and size of solar light tile

Artwork created from simple Jpeg file format (300 dpi and above)



## **Sizes:**

100mm Round, Part No (NSTR1)+(Colour )  
100mm x 100mm x 60mm, Part No (NSTSQS) +(Colour )  
100mm x 200mm x 60mm, Part No (NSTRLE) +(Colour )  
200mm x200mm x 60mm, Part No (NSTSQL) +(Colour )

## **Colours Available:**

White, Blue, Green, Orange, Amber, Red

## **Charging Time:**

3Hrs - 12Hrs

## **Onset Point:**

150 Lux Average

## **Operating Time:**

Average 4-5 Hours (Winter/Spring) 12 Hours (Summer/Autumn)

## **Waterproof Rating:**

I.P. 68 (submersible to 1 metre)

## **Operating Temperature**

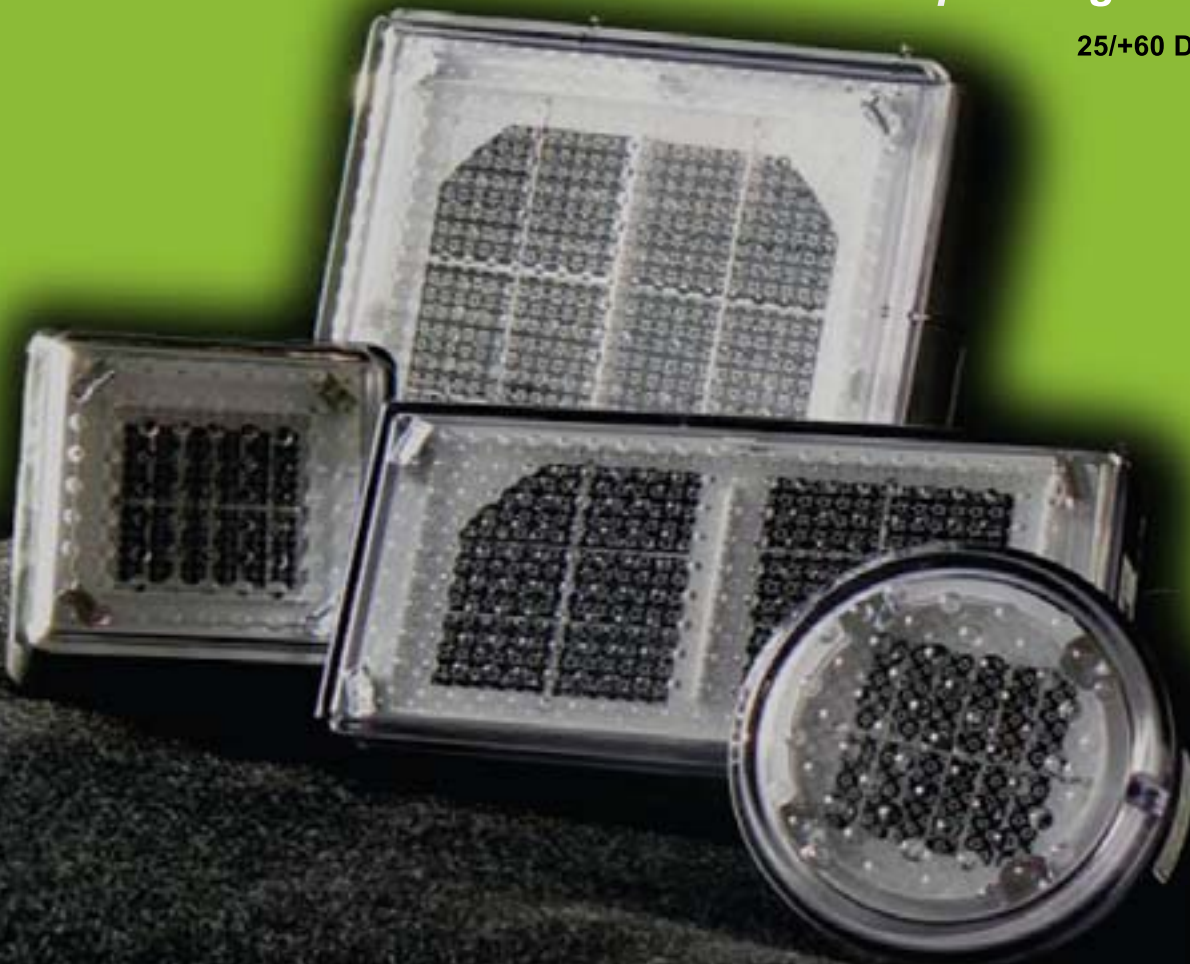
25/+60 Degrees Celsius

## **Weight:**

650g / 2.8KG

## **Warranty:**

3 Years



## ***How long do the tiles take to charge?***

Between 3 hours and 15 hours depending upon the type of tile and the weather conditions. The average full charge is achieved in around 8 hours at 10 000 lux, which is a lightly overcast day.

The internal power cells called pseudo capacitors are very efficient at charging. Even if they don't get a full charge they will still work, just not for as long.

## ***Why do solar tiles use pseudo capacitors rather than batteries?***

Rechargeable batteries require to be changed on average every three years, the pseudo capacitor does not, which means the unit can be sealed for life to maintain it's waterproof integrity. This means the solar tiles can be immersed permanently up to 1 metre in water

## ***Do pseudo capacitors work as well as rechargeable batteries?***

Better in fact as rechargeable batteries are dependant upon a regular flow of power to allow them to charge properly where as the pseudo capacitor is capable of storing power as becomes available in any quantity so it is a far more efficient system for collecting solar energy.

## ***How much light do you get from the tiles?***

The solar light tiles are bright to look at. They are intended for marking out routes and highlighting the location of obstacles and are not really designed for use as a functional light source. That having been said, in very low light conditions the tiles can provide a surprising amount of ambient light depending upon how they are mounted and the colour of the tile. It is always best to carry out a test to determine if the solar tiles will be suitable for each application which we can help you with.

## ***How do you get artwork inside the tiles?***

Artwork is laser etched into an internal plate which is then edge lit by the LED. Artwork can be created from any Jpeg image at 300 dpi or above. You just need to think about the complexity of the artwork according to the size of the tile you have chosen and we will take care of the rest.

## ***How strong are the tiles, can they be broken by vandals?***

The tiles are made from a special polycarbonate that is extremely strong, crystal clear like glass and UV treated to prevent damage. They will withstand the weight of light commercial vehicles such as 7.5 tonne trucks, 4 x 4's and cars etc.

## ***Can solar tiles be used anywhere?***

Yes they can, providing they get adequate light during the day to allow them to charge up. It is advisable that trials are carried out to determine if the desired hours of illumination are being achieved before proceeding with an installation. Again we can help you with this as we can provide samples and carry out surveys.





**If you would like any further information about solar LED light tiles please do not hesitate to contact us. We have full technical detail available for each of the tiles, installation guidelines, samples and the video showing the truck driving back and forward over them without damaging them which we can send to you .**





# GREENLIGHT TECHNOLOGIES

“for a brighter more sustainable future”



[sales@greenlighttechnologies.co.uk](mailto:sales@greenlighttechnologies.co.uk)

T : +44 (0)1968 670601

[www.greenlighttechnologies.co.uk](http://www.greenlighttechnologies.co.uk)

13 Lawhead Place, Penicuik, Midlothian,  
Scotland, EH26 9JU