

## SOLAR LIGHT INTENSITY MEASUREMENT DEVICE FOR THE PREVENTION OF SOLAR ERYTHEMA AND RELATED DISEASES

### Description:

Currently, one of the best tools used in public health is primary prevention, in the case of comprehensive photoprotection it is practically the most important tool when it comes to preventing the harmful effects of solar ultraviolet radiation, especially against the generation of skin cancer, so information strategies by different means are the order of the day. Currently, there are no tools available to users for measuring solar radiation that are not based on electronic devices with specific sensors for the different spectral bands, and simpler measurement tools are needed, or at least one that is as accurate as possible. to the real values ??of solar irradiance intensity at a given point on the earth's surface and at any time of the day and date of the year. The main object of the present invention is the realization of an object for measuring the incident solar irradiance based on the measurement of the shadow projected by an object. Being able to estimate solar irradiance, this object may indicate the one with the potential to generate erythema on the skin.

### Keywords:

[Solar Irradiance](#), [Erythema](#), [Uv Index](#), [Skin Cancer](#), [Skin Burns](#)

### Sectors:

[Health](#), [Others](#)

### Areas:

[Health Sciences](#), [Instrumentation](#), [Infrastructure improvements](#), [Protection and security](#), [Infrastructures](#)



### Advantages:

The present invention is capable of measuring solar intensity values for any time of the year, time of day or latitude without the need for any adjustment. Simple object to manufacture and low cost.

### Uses and Applications:

Use as infrastructure in the city, for the use of the general population, as an informative element in the prevention of solar erythema. This object could be used on boardwalks, near the beach or mountains, or in those places where the prediction of solar irradiance may be important in order to inform the public of a greater probability of solar erythema and therefore avoid exposure. in the sun or use of greater protection.

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**Protection Level:** National (Spain)

**Processing Status:** Spanish utility model