

Eco-friendly earthquake-resistant lighting system of the 21st century, effective for safety protection and CO₂ reduction

Solar LED lighting system

Feature

- The system achieves the industry's brightest flux for solar LED lights at 1,800 lm.^{※1} (Classified as Class A for the safety light illuminance recommendation when set up in 13 m^{※1} intervals along a 5 m-wide street)
- Solar power generation reduces CO₂ emissions by about 48 kg per year.
- The LED light sources lasts about 40,000 hours and is free from mercury, an environment-impacting chemical substances, resulting in significant waste reduction.
- Equipped with a seismoscope, the system remains lit for two days when it detects seismic intensity of level 5 (130-200 gal) or stronger.

※1 In case of LN-LW3A1. LN-LS2A1 is equivalent to class A with a fixture light flux of 1,200 lm and an installation interval of 9 m.



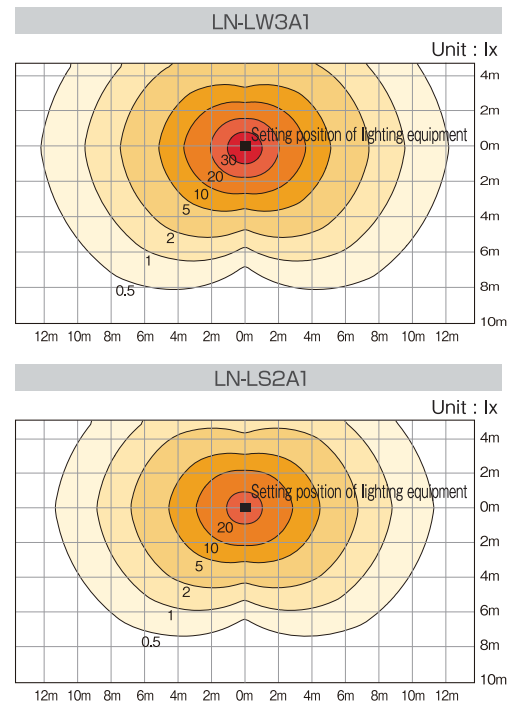
Solar light system

Overview

(Technical principles, actions, etc.)

The solar LED lighting system directly converts solar energy to electric energy, which is stored in the batteries mounted in the system. When it gets darker outside and solar battery output voltage gets lower, electric energy stored during the daytime turns the LED lights on. When it gets light and solar output voltage gets higher, the lights are automatically turned off. It is a self-generation system without any utility power supply required, different from existing city lights.

■ Distribution diagram for the equivalent intensity of illumination (reference)



■ Product installation example



Applicable field
Street light/Safety light

Water

Energy saving/Energy recovery

Energy storage/Energy creation

New energy

Waste disposal/
Recycling/
Resource saving

Air

Soil

Other

Sharp Corporation

Solar Application Development Project Team New Project Promotion Center Appliance Systems Group

3-1-72 Kita-Kamei-cho, Yao-shi,
Osaka 581-8585, Japan

● TEL / +81-6-6796-2735 ● FAX / +81-6-6796-6842 ● E-Mail / shimoura.kohji@sharp.co.jp ● <http://www.sharp.co.jp/>

※Note: This publication introduces examples of technologies and products believed useful towards solving environmental and energy problems. In no way does it constitute guarantees concerning their transfer or sale.