

Himawari Solar Natural Lighting System is a revolutionary new product that brings real sunlight into your home. The system consists of a sunlight collector, optical fiber cables, and an ...

Thus we've analysed four day lighting systems namely Himawari, Parans sp3, Hybrid Solar Lighting and Solux system. We've compared these four systems with respect to different parameters like techniques used for concentration of daylight, initial and maintenance costs, reliability, efficiencies and outputs. [6]

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The Himawari solar lighting system harnesses natural sunlight through the light-collecting lens unit and travels through optical fiber cables emitting light on the other side into the rooms of homes, offices, factories, warehouses, and other areas where natural light is hard to get through.

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Signet Himawari Solar Light Tracking System: Follows the path of the Sun in equatorial, mid-latitude, and polar locations. Stable natural light with automatic tracking and a solar sensor. Clock mechanism controls the light-focusing lens to aim accurately at the Sun. Tracks the Sun even in cloudy conditions by calculating its trajectory.

A currently available daylighting system using optical fibers is the Himawari solar lighting system [16]. The system consists of a sun-tracking device to capture direct sunlight all day. The light is focused through a Fresnel lens, and only visible light is inserted into optical fibers.

At two-meter from the end of the optical fiber, an approximately 1.5-m diameter circle region is illuminated at approximately 1,036 lux on average (per cable) and one Himawari system is equipped with two cables. We have an automatic dimmer system available which allows you to switch between the Himawari and artificial illumination systems.

The running cost of the HIMAWARI system is approximately 1 yen a day when equipped with a twelve-lens collector. By using an energy-saving type system that is powered by solar cells, you can reduce the electricity cost to zero yen. &#183; Once the HIMAWARI system is installed, it operates automatically without any need for manual operation.

Compared to regular LED light which is specific radiations triggered from electronic energy, the natural light of Himawari is direct from real sunlight. The HIMAWARI system consists of a sunlight collector (lens focusing unit), quartz glass optical fiber devices, an automatic tracking system, and the outer acrylic dome covering all the devices.

Eight lessons learned have been addressed. The BCSS are technically powerful enough to provide lighting for remote and windowless spaces within buildings, but a couple of significant shortcomings hinders their popularization: cost prohibitive and application limitations.

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