Fiber optic solar lighting residential

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You may have heard of fiber optics in reference to an internet connection, but the technology can also be used for indoor lighting. In this article, we"ll discuss solar fiber optic lighting, a way to use the sun to light up indoor spaces without windows naturally.

Solar fiber optic lighting setups are an alternative to traditional indoor lights using fiber optic technology. Fiber optic cables are designed to carry light from point to point by internally reflecting it along their length. Solar fiber optic setups allow you to capture sunlight, transmit it inside, and emit it in your home or business. While more expensive than traditional lighting setups, a fiber optic lighting installation can help you save money on electricity costs while providing high-quality, natural light throughout your property.

Solar fiber optic lighting systems bring natural sunlight into your building to shine light on rooms without access to windows. There are three major components to these systems:

Much like photovoltaic solar panels and solar hot water systems, solar fiber optic systems need to collect sunlight, usually on top of a roof. The solar collectors used for fiber optic lighting are usually made of several small mirrors that focus sunlight on the fibers that transmit light. Similar to ground-mounted tracking systems, many solar collectors for fiber optic setups track the sun throughout the day. This allows them to funnel as much sunlight as possible into your building.

A solar fiber optic collector. Image from parans .

Once solar collectors capture sunlight, they focus it on the fiber optic cables transmitting any captured light

throughout your building. Solar fiber optic cables are like electrical wiring, but instead of transmitting power, they transmit light by reflecting the light internally along their entire length. Cables are usually made from glass or plastic, and the glass versions generally carry light more effectively but come at a higher price point.

The last major components of a solar fiber system are the lights themselves. Light can travel up to a few hundred feet through fiber optic cables, and at the end of each cable is a lighting apparatus that disperses sunlight, just like a traditional electrical lighting setup. Fiber optic lighting companies often have multiple types of products that provide different lighting experiences, from spotlights to large-area lighting.

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