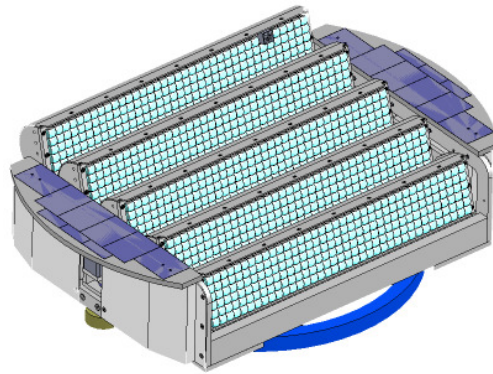


## Polymer Optical Fiber based Sunlight Collector and Distributor

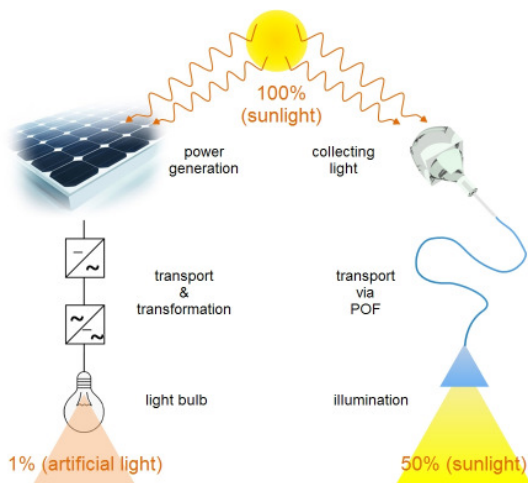
The Sollektor is a device to collect sunlight and transport it via polymer optical fibers in to the interior of buildings

### Advantages:

- Saves energy
- Light without heat
- Doesn't generate CO<sub>2</sub>
- Illuminates rooms with natural sunlight
- Cost recovery after 2 - 4 years



Sollektor Prototype (Model 2009)



### Characteristics of Sollektors:

- On a sunny day, one Sollektor has the capacity to replace 12 standard 100 W bulbs
- Transports light via plastic fibers
- Efficiency level is 50 times higher than corresponding electrical alternatives
- 100% pure sunlight (6200° K colour temp.)
- Hybride Solar / electrical light fixtures possible
- Completely sunlight operated system design
- All materials used suitable for hot conditions (ambient temp. +50 °C)

### Saving energy with Sollektor:

- Using sunlight for interior illumination; saves energy for other appliances
- Light without unwanted heat; no need for separate cooling devices
- Localized, independent and self sufficient light source; continuous availability during sunny days
- Simple, risk & breakdown-free ; no maintenance / bulb replacement costs
- Simple materials, easy construction and totally recyclable
- Highly economical

### Application possibilities:

- Offices
- Subway lighting
- Hospitals
- Department stores



Example for the Sollektor on the roof

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