



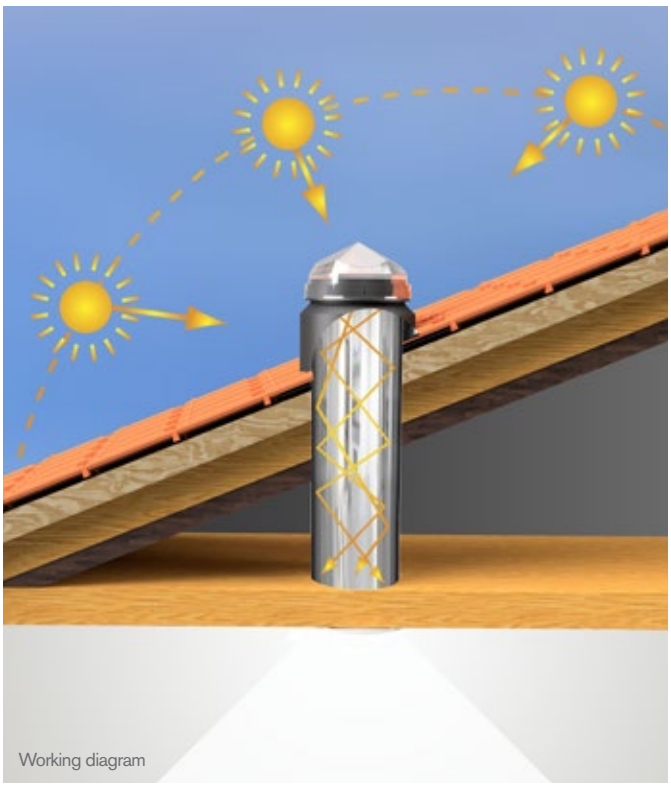
CHATRON®

SOLAR LIGHT TUBE

100% Natural Lighting

Residential and Industrial





Working diagram

Solar Light Tube Constitution:

Chatron solar Light tube consists of:

- Dome in polycarbonate high-impact top-shaped diamond, maximizing solar capture
- “Max Lighting” accessory that can increase the solar capture when the sun goes down (winter solstice) and at sunrise and sunset
- Aluminum tube coated inside by highly reflective material (almost perfect mirror), reflecting 99.7% of the sunlight, sending it to the inside

Models and technical specifications

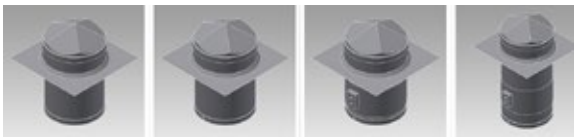
Model	Diameter	Tube length	Clear Sky	Clear Sky	Cloudy sky	Cloudy sky
	(mm)	(mm)	120,000 Lux at 2pm	85,000 Lux at 2pm	45,000 Lux at 2 pm	20,000 Lux at 2 pm
TS 250	250	625	4.600	2.900	1.350	540
TS 350	350	625	9.400	6.700	2.900	1300
TS 530	530	625	20.000	13.000	6.350	2.500
TS 750	750	625	30.000	24.000	11.620	5.300

Models for sizing and design

Chatron developed in partnership with prestigious Portuguese Universities, models for daylighting design within spaces.

Contact us for your specific project.

3D models in BIM format



Chatron has available Solar Light Tube products in BIM format for integration into projects.

Cover bases:

All kind of accessories for a perfect assembly.

Chatron developed Roof bases in PE or metal for many different roof applications.
Chatron can build the molds to customer coverage of measure, providing with corrugated or formats suitable for seamless integration in different situations.

Residential coverages



Corrugated tile (B5) | Flat tile (B4) | Wall (B6) | Slate (B4)

Industrial coverages



Corrugated (B3) | Sandwich Panel (B2) | Tile imitation (B5) | Steel plate (B1) | Screen (B1)

Applications

- Houses
- Offices
- Gymnasiums
- Sports Halls
- Factories
- Supermarkets
- Warehouses
- Industrial Pavilions
- Amphitheaters
- Room Centers
- Creative Applications

Advantages

- Ability of lighting superior than one window.
- Perfectly natural light.
- No thermal transfer (Cold and Heat).
- No need for cleaning
- or maintenance
- Resistance to UV radiation.
- Solutions for inclusion in the coverage 100% reliable and guaranteed.

Version with LEDin available - 24h day



Integration of Led lighting in solar tubes, allowing efficient lighting 24 hours a day. During daylight and sunny periods the illumination of the space comes from the sun. As night approaches or the day gets darker, Chatron’s “Light Controller” console introduces power to the LEDs to keep the desired and selected Lux level constant for that location.



Dome



The dome is made of high-impact polycarbonate, with optimal characteristics lag fire and extremely robust allowing them to withstand strong impacts. Good filtering UV radiation. Leaves the factory with antistatic treatment. Requires no maintenance. Is maintenance-free. Its geometric shape has been developed for self-cleaning. Weather conditions such as wind and rain shall dome cleaning. Moreover domes are subjected during the manufacture of an anti-adhesion treatment.

Connection accessory



Element of transition between the various components of the solar tube.

Solar Tube



The solar light tube (aluminum from the outside) is subjected to overlapping hot laminated inner layer of high reflectivity (greater than 99.7%), thus preventing loss of brightness and allowing the transport of light over considerable distances. Chatron has already installed solar tubes with length up to 25 m with low losses (less than 20% of their income).

Diffusers



Model	ST Flat Heights greater than 9 m	ST High spherical Heights less than 5 m	ST Low spherical Heights between 5 to 9 m	STB Application on slabs or suspended ceiling	Easy Clic Application on slabs or suspended ceiling
TS250	•				•
TS350	•				•
TS530	•	•	•		•
TS750	•			•	

Dimmer



Dimmer entry of light with remote control infrared. Allows, in certain situations that require less input light, regulate the amount of light that is output to the space to be illuminated.

Angles



Angles 30 °, 45 ° and 90 °. All can be regulated. Additional lengths of pipe 625 mm, 1,250 mm or other measures on request.

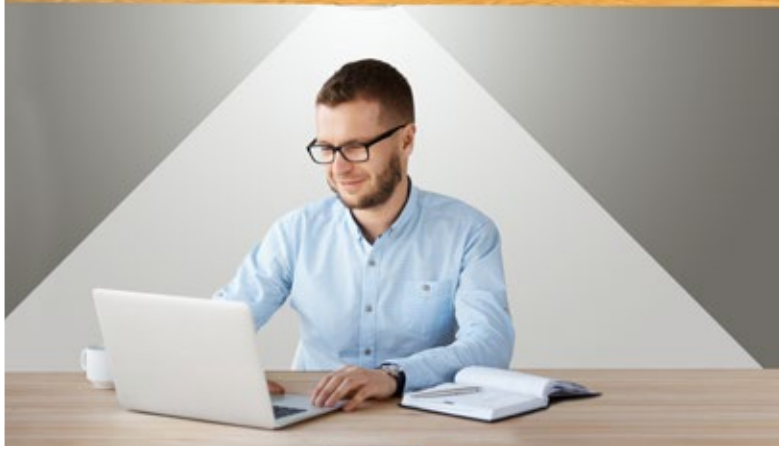
LEDin



The electric lighting kit allows you to adjust light bulbs of low consumption in the solar diffuser mirror, for operation during the







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24h continuous lighting

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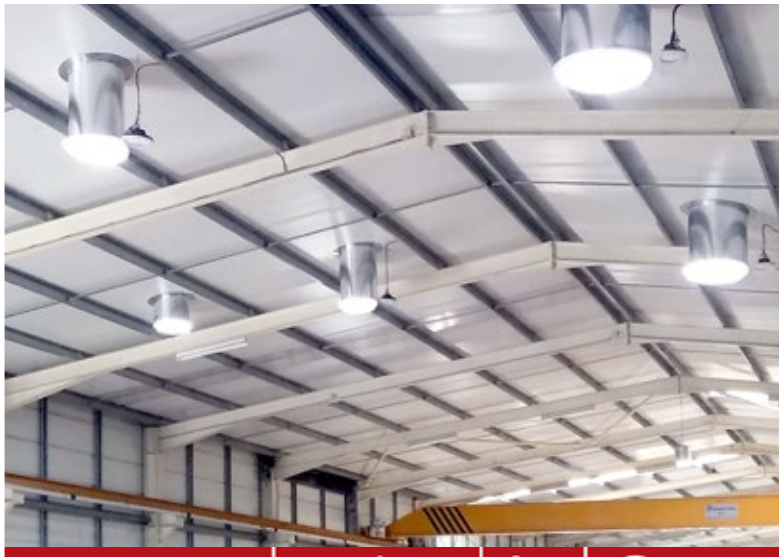
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SOLAR LIGHT TUBE with URANUS SYSTEM
Maximum use of natural sunlight
+ Dimmable industrial LED lighting complement