

CHATRON®

CAT04.02 EN

URANUS System

Maximum Efficiency in Industrial Lighting

Solar Tube + Dimmable Industrial LED + Smart Control

Maximum use of natural solar lighting + Dimmable industrial LED lighting complement, working with Solar Tubes, industrial LEDs and an intelligent energy control and management system, allowing for the maximization of energy efficiency.

Chatron's Uranus System is composed of the Solar Tube and the dimmable industrial LED, in order to provide light for 24 hours without the need for any additional lighting for the spaces where they are applied. These spaces can be factories, warehouses, pavilions, etc. and start to work with minimal energy consumption.

The great advantage of Chatron's Uranus system is to be able to efficiently light the space, consuming the least amount of electrical energy for this purpose.

Intelligent lighting with maximum use of sunlight and complement with dimmable industrial LED depending on the existing luminosity and/or presence detection and the Lux level required for that location (Smart Control)

This is possible because the Uranus system gives maximum priority to the natural lighting that comes from the Solar Tubes, complementing it only by LED light in the amount necessary to maintain the desired level of lighting for the place.



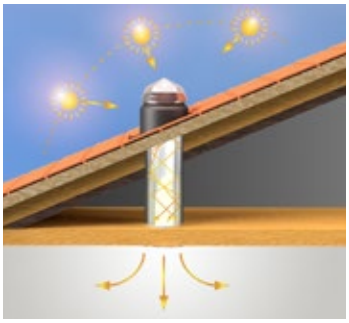
Factory: Travessa da Zona Industrial - 1, nº 95 Rossio, 3730-601
Vila Cova do Perrinho, Vale de Cambra, PORTUGAL

Tel. (+351) 256 472 888
Fax: (+351) 256 425 794
Email: comercial@chatron.pt
Url: www.chatron.pt

COMPETE 2020
NORTE 2020 PROGRAMA OPERACIONAL REGIONAL DO NORTE
PORTUGAL 2020
UNIÃO EUROPEIA
Fundo Europeu de Desenvolvimento Regional

SUNLIGHT TUBE

During the daytime periods and with sun, the lighting of the space is all coming from the sun. As night approaches or the day starts to get cloudier, the smart control introduces power to the LEDs, in order to maintain the desired and selected Lux level constant for that location. During the day, the solar tubes transport natural lighting into the spaces, maintaining the environment with the quality that only Chatron solar tubes can achieve.
In order to be able to light up at night or in periods of cloudy sky, the smart control allows, for each model of solar tube, to light the spaces with the appropriate power.



SOLAR TUBE WITH INDUSTRIAL LED AND SMART CONTROL

WHAT DOES INDUSTRIAL LED DO?

- This Solution offers maximum energy savings with highly efficient solar tube solutions combined with Chatron CHT-DIM industrial LEDs.
- Chatron CHT-DIM industrial LEDs allow maximum energy savings due to their high efficiency in terms of LEDs, drives and dimming system to be controlled by the Smart Controller and sensors.

The efficiency of chatron leds is 150 lumens/W, but this is just the difference principle and efficiency maximization.



Model	LED CHT-DIM-150	LED CHT-DIM-240
Power (W)	150	240
Size (mm)	260x260x163	300x300x177
Lumen	22500	36000
Beam Angle	90°	90
CCT	4000/6000	4000/6000
Voltage	AC 100-277V	AC 100-277V
Power Factor	>0.95	>0.95
CRI	≥ 80	≥ 80
NET Weight	3.1 Kg	4.0 Kg



INDUSTRIAL LED 150W



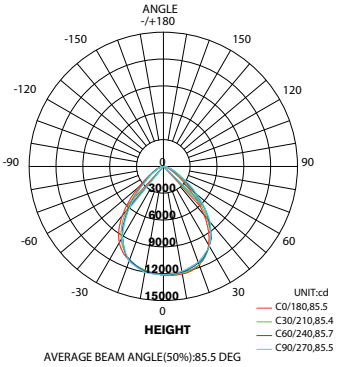
INDUSTRIAL LED 240W

Technical Characteristics of the URANUS System

Model	Tube Diameter (mm)	Diffuser (mm)	Clear sky 120.000 Lux mesured at 14h	LED Power (W)	LED beam angle	Lumen LED
U-TS530 150W	530	900x660	20.000	150	90°	22.500
U-TS530 240W	530	950x660	20.000	240	90°	36.000
U-TS750 150W	750	1120x880	30.000	150	90°	22.500
U-TS750 240W	750	1170x880	20.000	240	90°	36.000

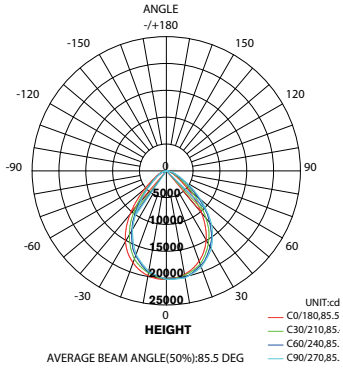
Industrial LED light intensity distribution diagrams

URANOS TS530/750 -**150W**



AVERAGE BEAM ANGLE(50%):85.5 DEG

URANOS TS530/750 -**240W**



AVERAGE BEAM ANGLE(50%):85.5 DEG

SMART CONTROL WITH LIGHT AND PRESENCE SENSORS

A simple and practical solution for different locations from factories, warehouses and even offices and which consists of a power supply, a multisensor and an integrated Bluetooth interface. The multisensor is the ideal choice if we take into account not only its detection area, but also the architectural requirement. It is not just a multi-sensor, but also a presence detector with its own intelligence as a controller. It is extremely fail-safe, expandable and economical. All components are also available individually, so smaller areas such as conference rooms and classrooms can be fully equipped.

