

CAT04 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.

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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.





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.



INDUSTRIAL LED

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

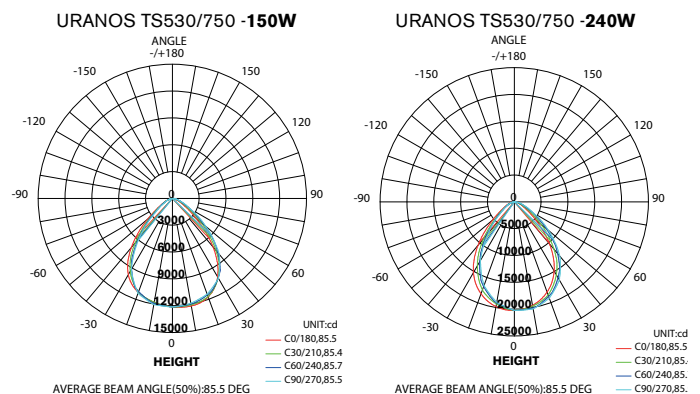


INDUSTRIAL LED 240W

Technical Characteristics of the URANUS System

| Model | Tube Diameter (mm) | Diffuser (mm) | Clear sky 120.000 Lux measured 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



SMART LIGHT CONTROLLER

The SLC allows intelligent adaptation of ambient light to the needs of using the space in question, using a light intensity probe, motion sensor and control app on the mobile phone.

DALI COMPACT: It is an autonomous solution, it already has the controller and DALI source, it allows you to control up to 50 luminaires.

DALI LINK: It has greater flexibility, allowing control through a mobile application, "B.E.G. DALI LINK".

