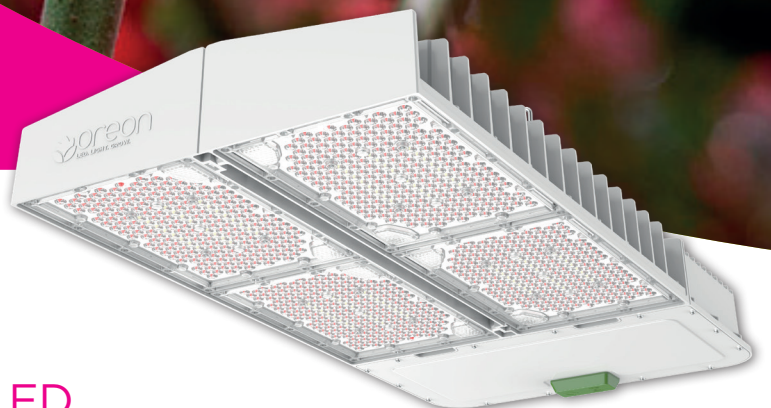




**EVERY SETUP
EVERY CLIMATE
PERFECTLY LIT**



GUARDIAN
LED TOP LIGHT | AIR-COOLED



LED INNOVATOR SINCE 2009

MORE THAN A FIXTURE. IMPROVED GREENHOUSE PERFORMANCE.

Oreon is a forerunner in the development and production of sustainable lighting solutions with advanced, quality LED technology. Active since 2009 in the field of LED lighting in greenhouses and vertical farms. Here, innovation is leading to ensure optimal growing conditions and energy efficiency.

PRODUCT SOLUTIONS

Oreon offers high-quality, customized and highly efficient LED solutions for greenhouse horticulture.

Our portfolio consists of both water-cooled and air-cooled fixtures; thus, we can offer a solution for all types of growers and crops. The **water-cooled** variant ensures that LED grow lights are continuously cooled. As a result, the lamp always performs optimally, the lifespan is extended and there's an opportunity to reuse the gained heat.



Our hybrid (air)-cooled fixture is based on combined technologies resulting in the next level grow light that rivals water-cooled LED in terms of performance and reliability. The 4-channel driver offers ultimate flexibility and high output makes it possible to light with fewer fixtures.



SMART LED SOLUTIONS FOR EVERY CROP

Every crop requires a unique lighting strategy. Thanks to our years of experience in greenhouse farming, we develop lighting solutions that perfectly match growers' specific assimilation lighting needs. Our Monarch 3C and Commander fixtures combine advanced technology with practical applicability and meet virtually all industry requirements.

With fully adjustable spectrums, individually dimmable multi-channel options and water or hybrid cooling, our fixtures offer maximum flexibility, high uniformity and long life. Whether you need energy efficiency, spectrum control, uniformity, crop penetration or far-red switching, Oreon has the solution. Our fixtures are designed to respond to energy prices, reuse heat and maintain a stable growing environment.

Whether your goal is low cost per μmol , minimal installation costs or top-level sustainability, we listen to the needs of your crop and provide an appropriate solution. Not a standard story, but configure-to-order customization.





NEW

GUARDIAN THE TOP LIGHT BUILT AROUND YOUR CROP

The Guardian is a flexible, configure-to-order top light: one to three channels across an 760-1200W range. Its ultra-wide 160° beam and made-to-order spectrum deliver even light distribution and exactly the recipe your crop needs — at a price point that makes high-quality LED accessible.

Configured to your crop, not off the shelf

Most top lights ask to fit your crop to the fixture. The Guardian works the other way around. Choose your desired spectrum, power and number of channels. Based on these demands we build a Guardian to match. Every channel is independently dimmable, giving you full control over light levels, DLI and crop steering throughout the season.

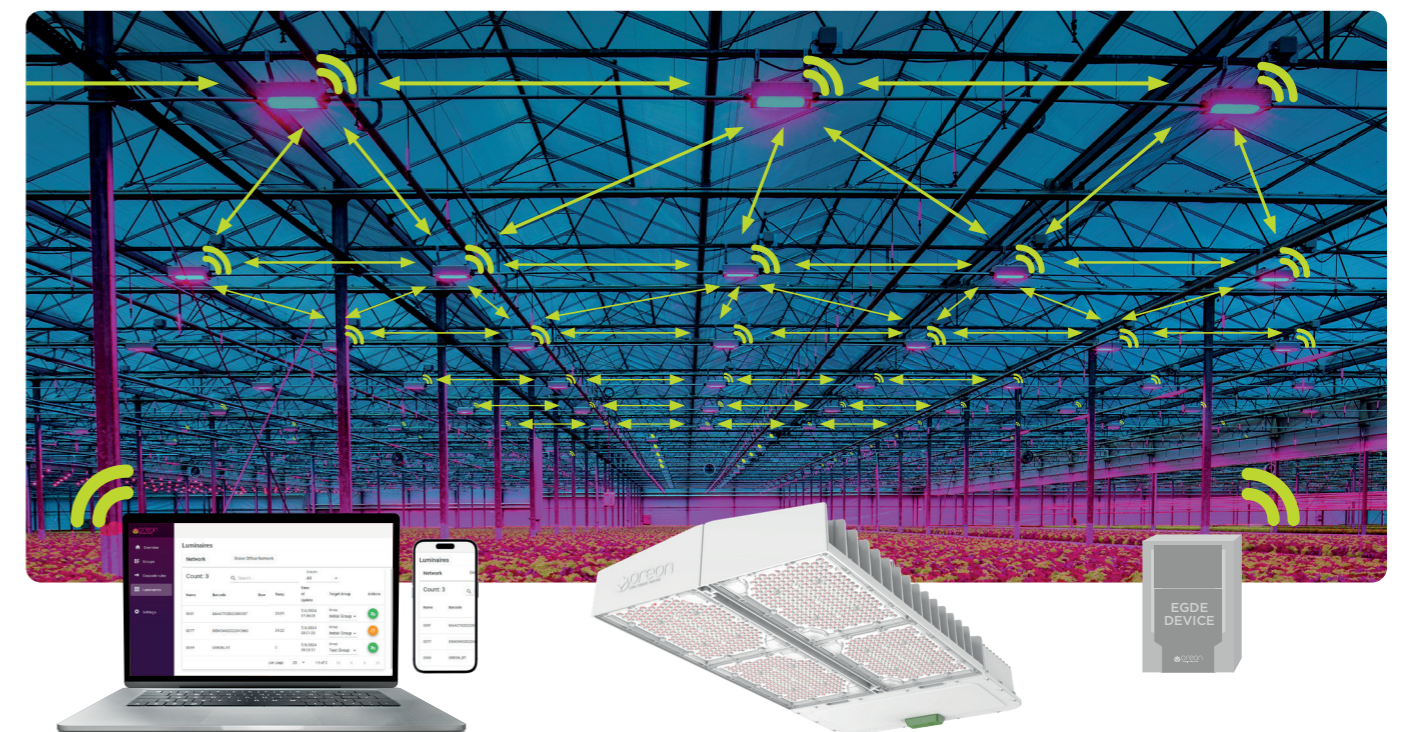
One platform for any greenhouse

- 1-3 channels, 760-1200W: one fixture family for a wide range of crops and light plans
- Made-to-order spectrum: your recipe, composed channel by channel
- Ultra-wide 160° beam: the widest in greenhouse top lighting, engineered to hang close to the canopy with full uniformity, fewer fixtures and minimal shadow - even in low greenhouses.
- Dimming per channel: precise light steering and energy management
- Accessible price point: Oreon quality for a competitive price.

LED CONTROL CENTER BLUETOOTH MESH NETWORK

BLUETOOTH MESH NETWORK

The Oreon LED Control Center (OLCC™) is a proven Bluetooth® SIG MESH network. It dynamically controls all fixtures and offers growers infinite flexibility in grouping and steering fixtures. Beside that, the OLCC provides information about each individual fixture such as temperature, voltage and power consumption. In the future, it will be possible to add sensors to individual fixtures.



QUICK SCAN

Based on your specific greenhouse- and crop preconditions, Oreon can easily provide tailored light plans including the optimal fixture and light configuration. Combining our proven technology and a flexible, customized plug & play LED top light, Oreon ensures you're ready for the future: the right spectrum, the right intensity, the right time at lower costs.

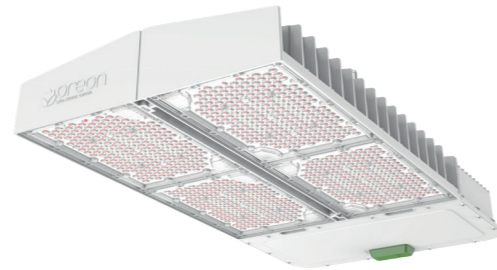


GUARDIAN

TECHNICAL DATASHEET

TECHNICAL DATA

Power consumption	760-1200W
Photon flux	up to 4700 $\mu\text{mol/s}$
Efficiency	up to 3.9 $\mu\text{mol/J}$
Power factor	> 0.9
Input range	347 - 400 VAC
Line frequency	50/60 Hz
Circuit connection	347 VAC Line to Neutral/ 400 VAC Line to Line/
Isolation class	Class I
Input connector type	Wieland green (RST20i3)
Operation conditions	-18°C to 35°C
Storage conditions	-40°C to 60°C



COOLING

Cooling Air, natural convection

MOUNTING

Suspended
(hook system, truss or C-profile)

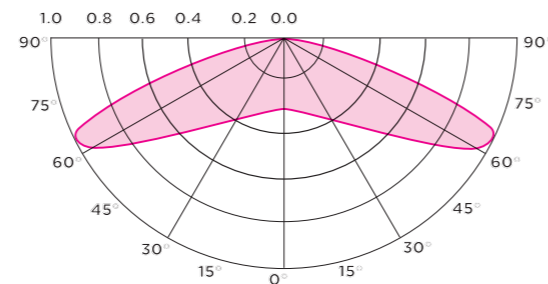
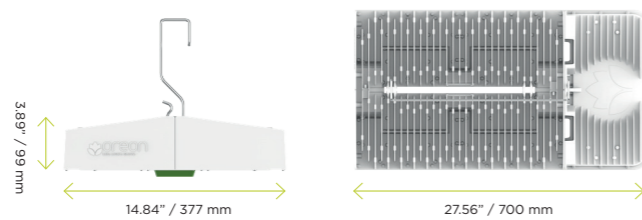
PRODUCT FEATURES

Housing material and finishing Aluminum, powder coating
Beam angle Batwing, ultra wide beam: 160°

Ingress Protection Rated IP66
Lifespan and warranty L90 - 50,000 hours, 5 year full warranty

WEIGHT AND DIMENSIONS

Nett weight 10,3 kg | 22,7 lbs
Product dimensions (L x W x H) 700 x 377 x 90 mm | 27.56" x 14.84" x 3.54"



HS-code 9405 42 39 90

COMPLIANCE FCC, ETL, RoHS and CE



V260624 | Subject to printing and typing errors.



Oreon

Lorentzlaan 6, 3401 MX IJsselstein. The Netherlands.
+31 30 760 0660 | info@oreon-led.com | oreon-led.com