



OREON GROW LIGHT 2.1

TECHNICAL DATASHEET - US/CA

Product features

Housing material

Finishing

Optics materials

Radiation angle

Protection degree LED compartment

Impact resistance housing Impact resistance glass

Technical data

Power* Cos(phi)

Voltage range Current range

Frequency range

Inrush current

Isolation class

Connector

Operation conditions Storage conditions

Optical properties

Light colors

Percentage of blue (% µMol/s)

Efficacy (µMol/J)

Lifespan

Aluminium

Anodized/ Antifouling powder coating RAL 9010 (dirt repellent)

High transmission glass with AR coating on both sides

(transmission >98%)

IP67 (dust and watertight)

Lamps can be cleaned by using pressurized water, the complete electrical circuit is sealed waterproof.

IK10 IK07

585 Watt (± 5%)

> 0.95

100-280 VAC 6.0A - 2.3A

50/60 Hz

< max. 70A (t< 1 msec)

Class I

Integrated: 3 pole connector Male (Wieland 96.032.5053.1)

Connects to: 3 pole connector Female (Wieland 96.031.4553.1)

0 - 113°F / 95% RH 0 - 140°F / 85% RH

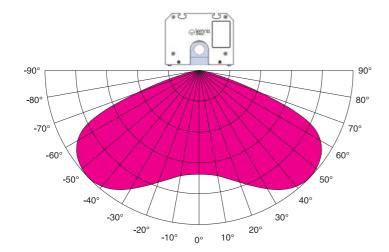
Photon flux (µMol/s)*

Customized lens

Red	Low Blue	Medium Blue	High Blue	Extreme Blue
1589	1562	1534	1507	1425
0	3.2	6.6	10	21.5
2.72	2.67	2.62	2.58	2.44

L90 - 35,000 hours

The customized lens ensures an ideal light distribution for maximum uniformity. See image below.



Cooling liquid and circuit

Cooling liquid Water Cooling liquid temperature 68°F to 95°F

Power to be dissipated per lamp Red | Low Blue | Medium Blue | High Blue | Extreme Blue 327 W by cooling system 294 W 305 W 316 W 361 W

Water connection Pipe thread ISO 228-G 3/4" (2x)

Weight and dimensions

Nett weight 18.3 lb

22.0 lb (including mounting brackets, connectors, pipes) Gross weight (approx.)

Product dimensions (L x W x H) 15.28" x 6.3" x 4.8" Carton dimensions (L x W x H) 21.65" x 8.66" x 6.89"

Mounting

Fixture mounting interface 4x M6 T-nut (maximum depth for the bolt is 3/8 inch). The four T-nuts are included in the delivery.

Drawings



Logistic specifications

Quantity per pallet 49 pcs. Gross weight per pallet 1080.3 lb

31.5" x 47.24" x 40.94" Pallet dimensions (EUR)

Compliance

cMETus listed (ANSI/UL)

UL 1598

CSA C22.2 No. 250.0-08

CE (tested by accredited certification body DEKRA)

Low Voltage Directive (LVD) 2014/35/EU

Electromagnetic Compatibility Directive (EMC) 2014/30/EU

Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU





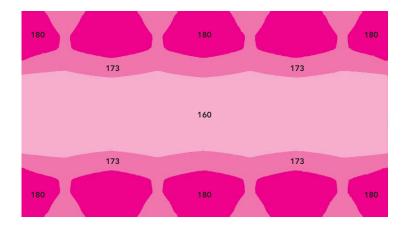


^{*} typical values for stable operation at 77°F cooling water temperature

PPFD map - Oreon Grow Light 2.1

Greenhouse

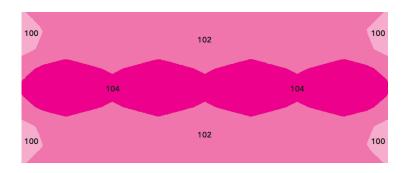
Measurements:25' x 15'Height fixture above canopy:8'1 fixture needed for:94 sqft.Spectrum:Low Blue



Average: 172 μ Mol/s Maximum: 181 μ Mol/s Minimum: 166 μ Mol/s Uniformity: 92%

Greenhouse

Measurements: $40' \times 16'$ Height fixture above canopy:12'1 fixture needed for:160 sqft.Spectrum:Medium Blue



Average: $102 \mu Mol/s$ Maximum: $104 \mu Mol/s$ Minimum: $100 \mu Mol/s$ Uniformity: 96.1%

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