



OREON GROW LIGHT 2.1

TECHNICAL DATASHEET - EU

Product features

Radiation angle

Housing material

Finishing Anodized/ Antifouling powder coating RAL 9010 (dirt repellent)

Aluminium

Optics materials High transmission glass with AR coating on both sides

(transmission >98%)

140

Protection degree LED compartment IP67 (dust and watertight)

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

Impact resistance housing IK10
Impact resistance glass IK07

Technical data

Power* 585 Watt (± 5%) Cos(phi) > 0.95

Voltage range 100-250 VAC Current range 6.0A - 2.3A Frequency range 50/60 Hz

Inrush current < max. 70A (t< 1 msec)

Isolation class Class I

Connector Integrated: 3 pole connector Male (Wieland 96.032.5053.1)

Connects to: 3 pole connector Female (Wieland 96.031.4553.1)

Operation conditions $0^{\circ}\text{C to }45^{\circ}\text{C} / 95\% \text{ RH}$ Storage conditions $0^{\circ}\text{C to }60^{\circ}\text{C} / 85\% \text{ RH}$

Optical properties

Light colors
Photon flux (µMol/s)*

Percentage of blue (% µMol/s)

Efficacy (µMol/J)

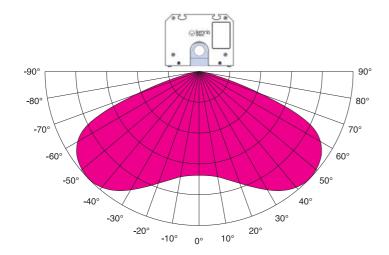
Lifespan

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

Customized lens The customized lens ensures an ideal light distribution for maximum

uniformity. See image below.



*oreor

Cooling liquid and circuit

Cooling liquid Water
Cooling liquid temperature 20°C to 35°C

Power to be dissipated per lamp by cooling system Red Low Blue | Medium Blue | High Blue | Extreme Blue | System | Syste

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

Weight and dimensions

Nett weight 8.3 kg

Gross weight (approx.) 10 kg (including mounting brackets, connectors, pipes)

Product dimensions (L x W x H) 388 mm x 160 mm x 122 mm Carton dimensions (L x W x H) 550 mm x 220 mm x 175 mm

Mounting

Fixture mounting interface 4x M6 T-nut (maximum depth for the bolt is 10 mm). The four T-nuts are included in the delivery.

Drawings



Logistic specifications

Quantity per pallet 49 pcs. Gross weight per pallet 490 kg

Pallet dimensions (EUR) 800 mm x 1200 mm x 1040 mm

Compliance

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

cMETus listed (ANSI/UL)

UL 1598

CSA C22.2 No. 250.0-08

The products meet the RoHS standard, based on the European RoHS Directive 2011/65/EU





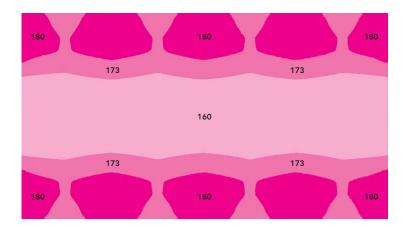


^{*} typical values for stable operation at 25°C cooling water temperature

PPFD map - Oreon Grow Light 2.1

Greenhouse

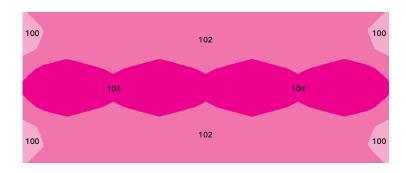
 $\begin{tabular}{lll} \begin{tabular}{lll} \begin{$



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

Greenhouse

Measurements: $12 \times 5 \text{ m}$ Height fixture above canopy:3.65 m1 fixture needed for: 15 m^2 Spectrum:Medium Blue



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

Technical Datasheet - EU
Designed and produced in the Netherlands. © 2017, Oreon. All rights reserved. V170825EU

