



# **OREON GROW LIGHT 2.2 EXTENDED VOLTAGE**

WIDE BEAM

**TECHNICAL DATASHEET**

VERSION V180901\_WB

## Product features

Housing material	Aluminium
Finishing	Anodized/ Antifouling powder coating RAL 9010 (dirt repellent)
Optics materials	High transmission glass with AR coating on both sides (transmission >98%)
Radiation angle	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

Cos(phi)	> 0.95
Voltage range	200-480 VAC
Current range	3.0A - 1.4A
Frequency range	50/60 Hz
Inrush current	< max. 40A (t< 1 msec)
Leakage current	< 0.75 mA@480VAC
Isolation class	Class I
Connector	Integrated: 3 pole connector Male Green (Wieland RST) Connects to: 3 pole connector Female Green**
Operation conditions	32 to 113°F   0 to 45°C / 95% RH
Storage conditions	32 to 140°F   0 to 60°C / 85% RH

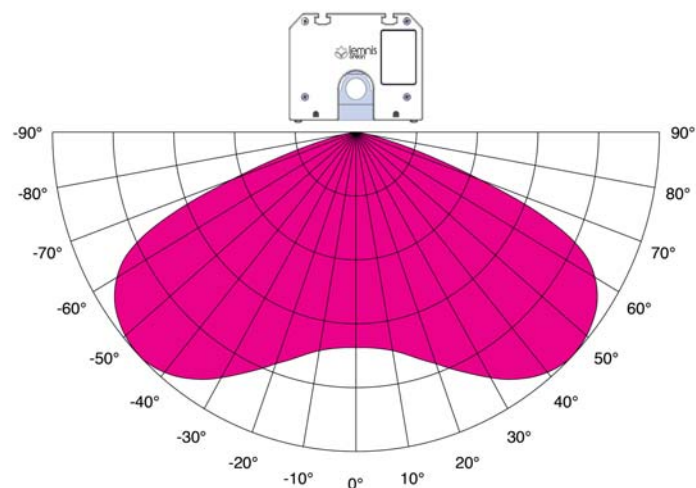
## Optical properties

	LB	MB	HB
Light colors			
Photon flux (μMol/s)*	1720	1660	1635
Percentage of blue (% μMol/s)	4.2%	5.9%	8.7%
Wattage (W)	655	640	640
Efficacy (μMol/J)	2.63	2.59	2.55

Other spectrum varieties on request

Lifespan	L90 - 35,000 hours
Electrical and optical properties	
have a tolerance of ± 5%	

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



## Cooling liquid and circuit

Cooling liquid  
Cooling liquid temperature

Water  
68 to 95°F | 20 to 35°C

Heat imparted onto cooling system per fixture

LB	MB	HB
<310 W	<310 W	<315 W

Water connection

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

## Weight and dimensions

Nett weight 18.3 lb | 8,3 kg  
Gross weight (approx.) 22.0 lb | 10 kg (including mounting brackets, connectors, pipes)  
Product dimensions (L x W x H) 15.28" x 6.3" x 4.8" | 388 mm x 160 mm x 122 mm  
Carton dimensions (L x W x H) 21.65" x 8.66" x 6.89" | 550 mm x 220 mm x 175 mm

## Mounting

Fixture mounting interface 4x M6 T-nut (maximum depth for the bolt is 3/8 inch | 10 mm).  
The four T-nuts are included in the delivery.

## Drawings



## Logistic specifications

Quantity per pallet 49 pcs.  
Gross weight per pallet 1080.3 lb | 490 kg  
Pallet dimensions (EUR) 31.5" x 47.24" x 40.94" | 800 mm x 1200 mm x 1040 mm

## Compliance

cMETus listed (ANSI/UL+CSA)

- UL 1598
- CSA C22.2 No. 250.0-08

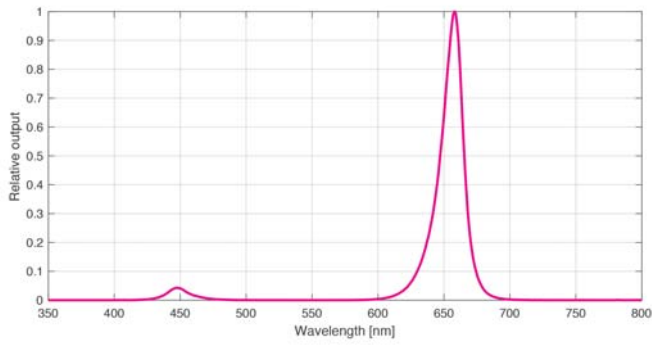
CE (testing by DEKRA in progress)

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility Directive (EMC) 2014/30/EU

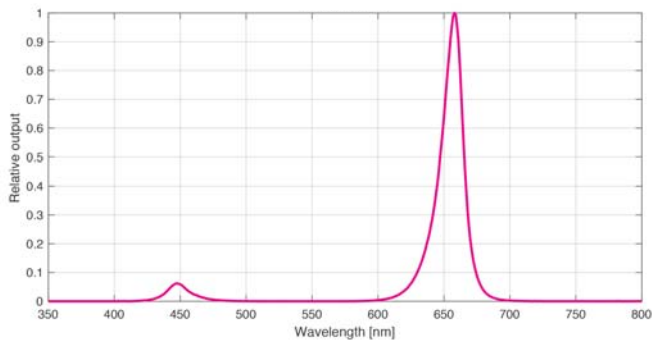
## General

- Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU
- Eco Design Directive 2009/125/EG

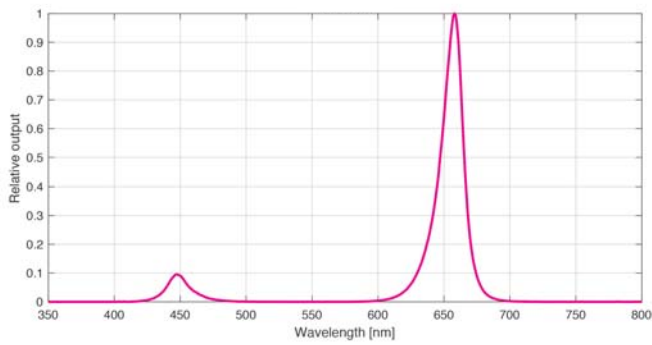




**LOW BLUE SPECTRUM**



**MEDIUM BLUE SPECTRUM**



**HIGH BLUE SPECTRUM**

Technical Datasheet

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