



# **OREON GROW LIGHT 3.0 EXTENDED VOLTAGE**

WIDE BEAM

**TECHNICAL DATASHEET**

VERSION V190206\_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 (Wieland RST20i3) Connects to: 3 pole connector Female
Operation conditions	32 to 113°F   0 to 45°C / 95% RH
Storage conditions	32 to 140°F   0 to 60°C / 85% RH

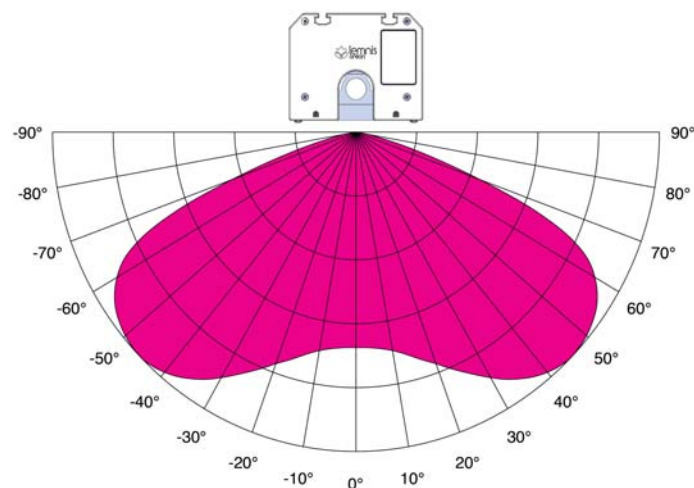
## Optical properties

	R	LB	MB	HB
Light colors				
Photon flux (μMol/s)*	2060	2030	2000	1995
Percentage of blue (% μMol/s)	0%	4.4%	6.7%	8.8%
Wattage (W)	670	670	670	670
Efficacy (μMol/J)	3.1	3.0	3.0	3.0

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

R	LB	MB	HB
<275 W	<275 W	<275 W	<275 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  
Gross weight per pallet  
Pallet dimensions (EUR)

### Air freight

49 pcs.  
1036.2 lb | 470 kg  
31.5" x 47.24" x 56.69"  
800 x 1200 x 1440 mm

### Sea/Road freight

63 pcs.  
1316.2 lb | 597 kg  
31.5" x 47.24" x 71.26"  
800 x 1200 x 1810 mm

## Compliance

cMETus listed (ANSI/UL+CSA)

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

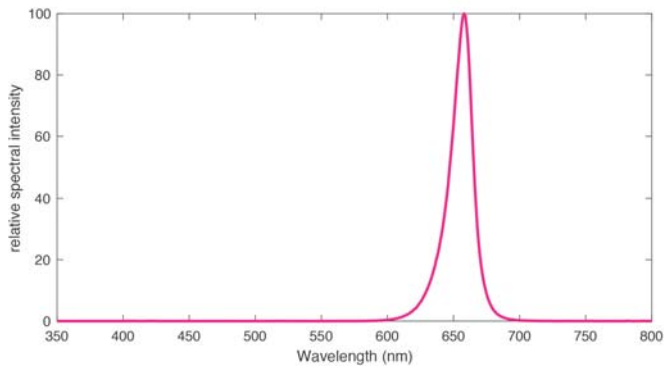
## CE

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

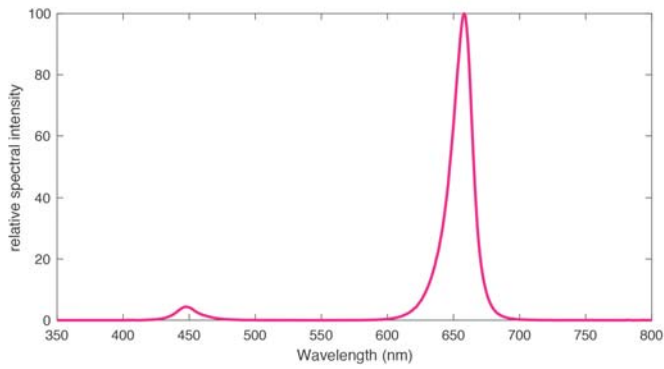
## General

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

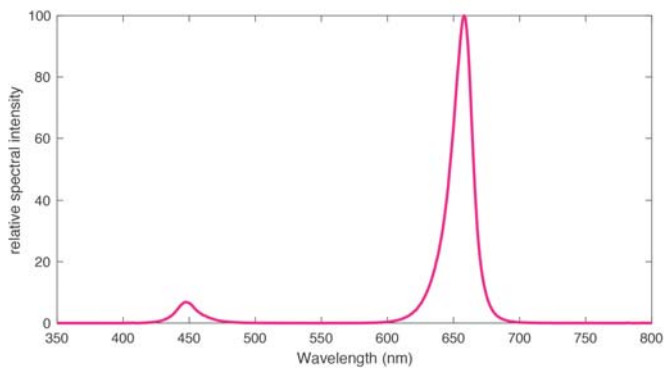




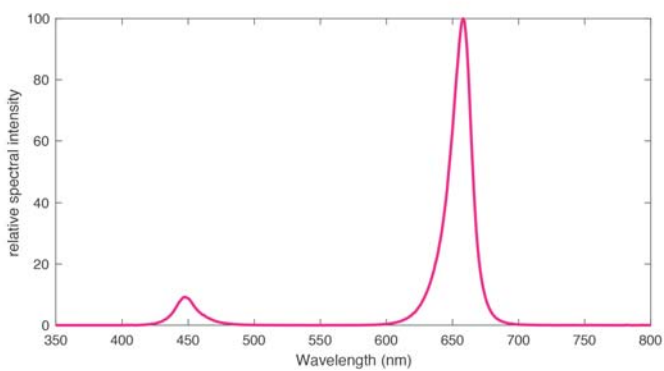
**RED  
SPECTRUM**



**LOW BLUE  
SPECTRUM**



**MEDIUM BLUE  
SPECTRUM**



**HIGH BLUE  
SPECTRUM**

Technical Datasheet

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