



# OREON GROW LIGHT 3.0 EXTENDED VOLTAGE

TECHNICAL DATASHEET

VERSION 190701

## Product features

Housing material	Aluminium
Finishing	Anodized/ Antifouling powder coating RAL 9010 (dirt repellent)
LED protection cover	High transmission glass (transmission >98%)
Beam angle	Wide Beam: 140°   Narrow Beam: 120°
Ingress Protection 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	3.0 - 1.4 A
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)
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

Light colors
Photon flux (μMol/s)*
Percentage of blue (% μMol/s)
Wattage (W)
Efficacy (μMol/J)

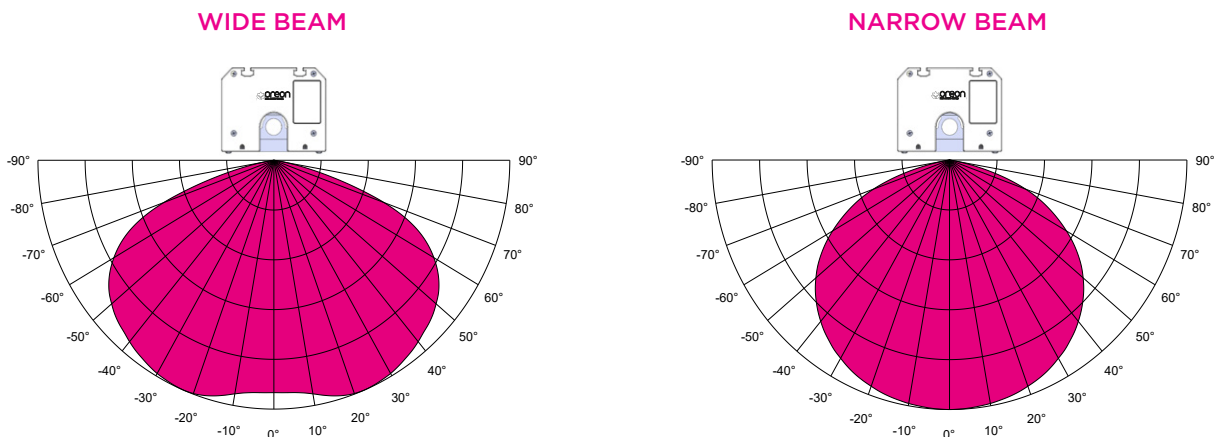
WIDE BEAM				NARROW BEAM				Full Spectrum
Red	Low Blue	Medium Blue	High Blue	Red	Low Blue	Medium Blue	High Blue	
2060	2030	2000	1995	2080	2050	2010	2005	1710
0%	4.4%	6.7%	8.8%	0%	4.4%	6.7%	8.8%	6.8%
670	670	670	670	670	670	670	670	670
3.1	3.1	3.0	3.0	3.1	3.1	3.0	3.0	2.6

Other spectrum varieties on request.

Electrical and optical properties have a tolerance of ± 5%.

Lifespan	L90 - 35,000 hours
Warranty	5 years

## Light distribution



### Cooling liquid and circuit

Cooling liquid	Water (PH 4-8)
Cooling liquid temperature	68 to 113°F   20 to 45°C
Cooling liquid flow rate	> 15 l / min
Imparted heat into cooling system	< 275 W per fixture   Full Spectrum < 340 W per fixture
Water connection	Pipe thread ISO 228-G 3/4" (2x)

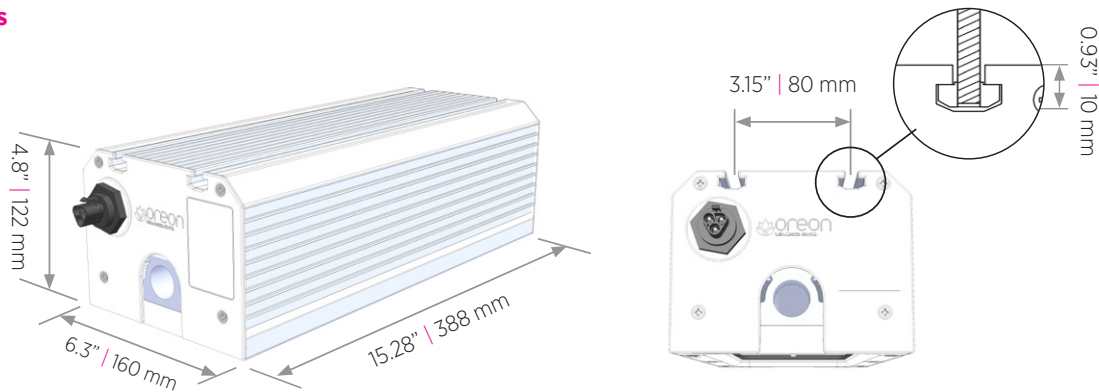
### Weight and dimensions

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)

HS-code

### Air freight

49 pcs.  
1036.2 lb | 470 kg  
31.5" x 47.24" x 56.69"  
800 x 1200 x 1440 mm  
9405 4099 90

### Sea/Road freight

63 pcs.  
1316.2 lb | 597 kg  
31.5" x 47.24" x 71.26"  
800 x 1200 x 1810 mm  
9405 4099 90

### Compliance

#### cMETus listed (ANSI/UL+CSA)

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

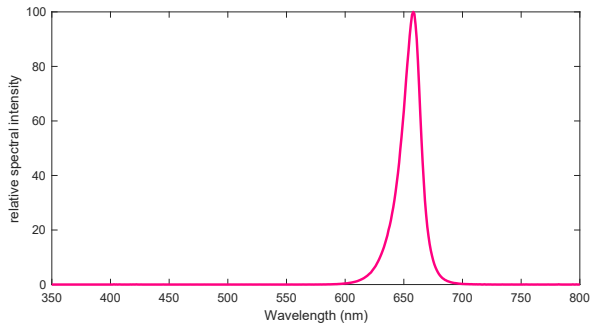
#### CE

- LVD 2014/35/EU
- EMC 2014/30/EU
- RoHS 2011/65/EU

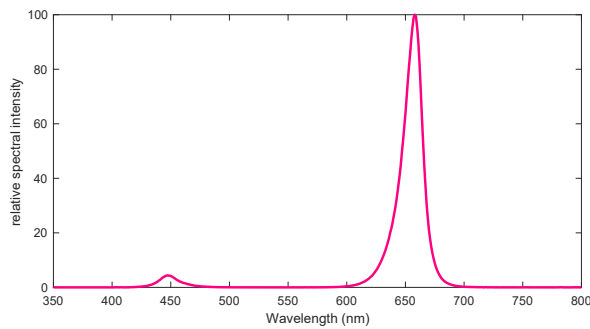


## WIDE & NARROW BEAM

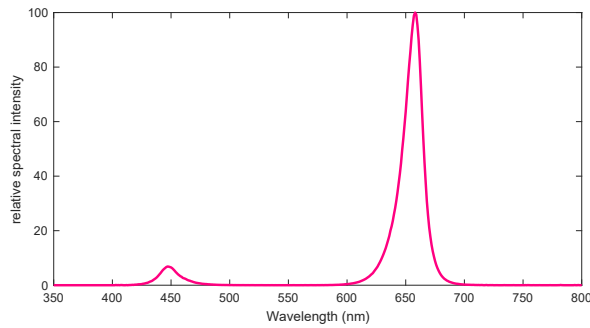
### RED SPECTRUM



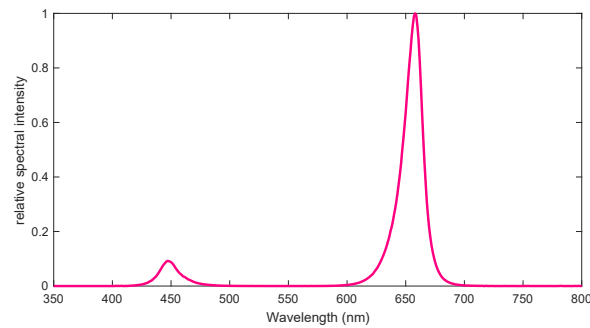
### LOW BLUE SPECTRUM



### MEDIUM BLUE SPECTRUM

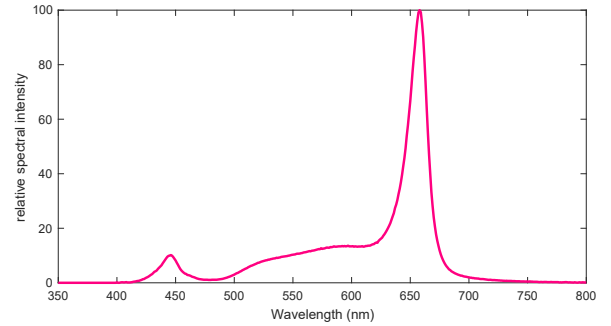


### HIGH BLUE SPECTRUM



## ONLY NARROW BEAM

### FULL SPECTRUM



Technical Datasheet

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