



OREON GROW LIGHT 3.0 EXTENDED VOLTAGE

NARROW BEAM

TECHNICAL DATASHEET

VERSION V190206_NB

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 | 120° |
| 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

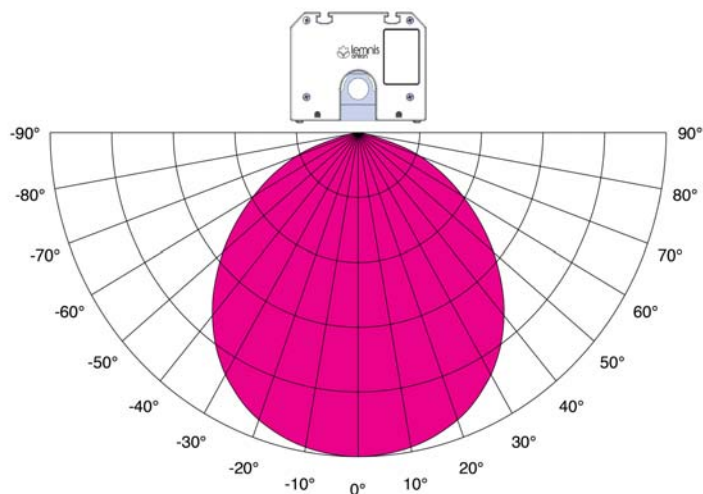
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|----------------------|---|
| Cos(phi) | > 0.95 |
| Voltage range | 200-480 VAC |
| Current range | 3.0A - 1.4A |
| Frequency range | 50/60 Hz |
| Inrush current | < max. 40A (t< 1 msec) |
| Leakage current | < 0.75 mA@480VAC |
| Isolation class | 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 | FS |
|-------------------------------|------|------|------|------|------|
| Light colors | 2080 | 2050 | 2010 | 2005 | 1710 |
| Photon flux (μMol/s)* | 0% | 4.4% | 6.7% | 8.8% | 6.8% |
| Percentage of blue (% μMol/s) | 670 | 670 | 670 | 670 | 670 |
| Wattage (W) | 3.1 | 3.1 | 3.0 | 3.0 | 2.6 |
| Efficacy (μMol/J) | | | | | |

Other spectrum varieties on request

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



Cooling liquid and circuit

Cooling liquid

Water

Cooling liquid temperature

68 to 95°F | 20 to 35°C

Heat imparted onto cooling system per fixture

| R | LB | MB | HB | FS |
|--------|--------|--------|--------|--------|
| <275 W | <275 W | <275 W | <275 W | <340 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

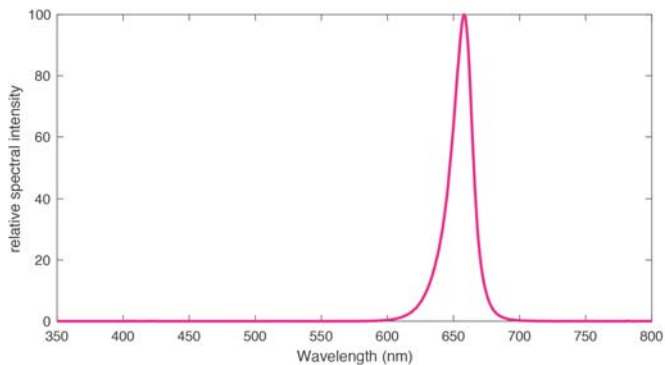
- Electromagnetic Compatibility Directive (EMC) 2014/30/EU

General

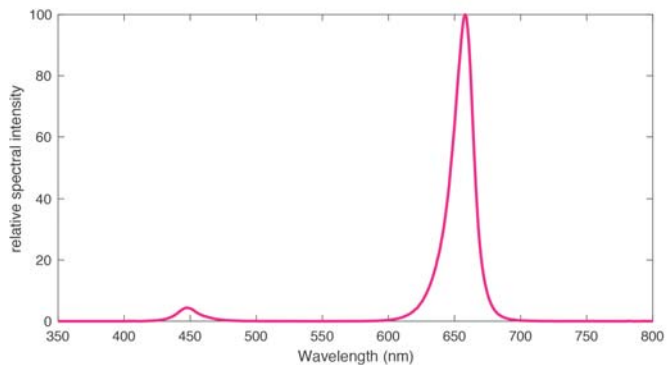
- Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU

- Eco Design Directive 2009/125/EG

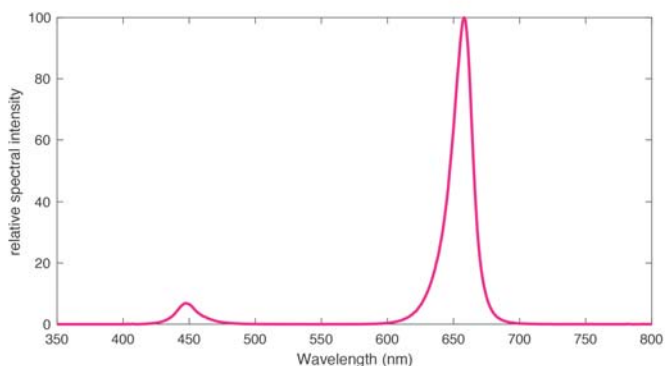




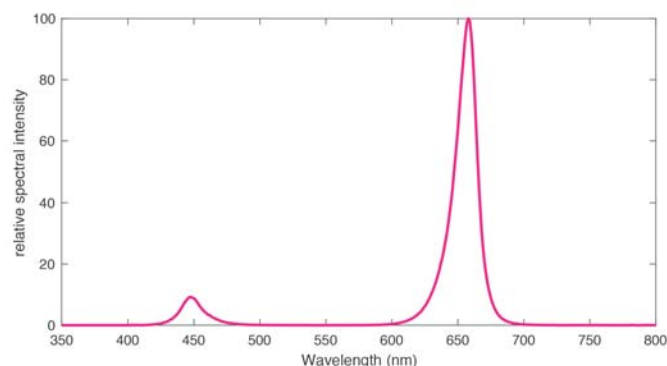
**RED
SPECTRUM**



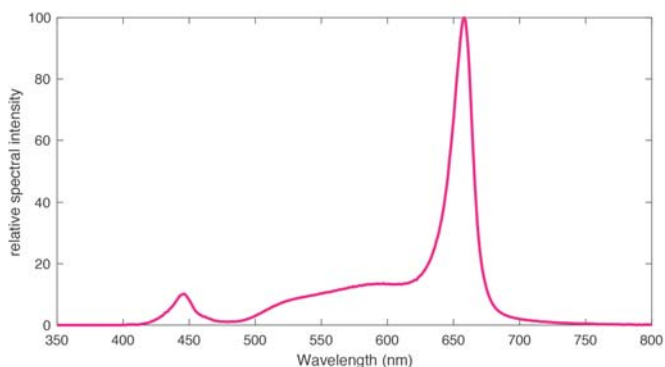
**LOW BLUE
SPECTRUM**



**MEDIUM BLUE
SPECTRUM**



**HIGH BLUE
SPECTRUM**



**FULL
SPECTRUM**

Technical Datasheet

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