EMBRACE THE DUTCH POWERHOUSE



TECHNICAL DATASHEET MULTI-LAYER FIXTURE

Dynamically adjustable spectrum

A dynamically adjustable spectrum can provide maximum flexibility during the phases of growth and the possibility to customize the spectrum at any time. Oreon offers 4 hardware fixture versions, each with 2 or 3 independent channels. Each channel is adjustable from 0-100% in 0.5% increments.

Light output		Energy Consumption		
Version	Max Photon Flux (µmol/s)**	Max Consumed Power (W)*	Max Efficiency (µmol/J)	Max Imparted Heat (W)
R/W				
Red	570	169	3.4	
White	120	60	2.0	
Total	690	229	3.0	78
R/B				
Red	570	169	3.4	
Blue	130	60	2.2	
Total	700	229	3.1	78
R/W/FR				
Red	365	108	3.4	
White	180	89	2.0	
Far-red	105	41	2.6	
Total	650	238	2.7	81
R/B/FR				
Red	365	108	3.4	
Blue	195	89	2.2	
Far-red	105	41	2.6	
Total	665	238	2.8	81

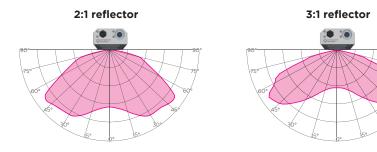
All data for 3:1 reflector, 2:1 reflector alternative also available

Additional losses per lamp in the external driver: 10W (based on 2 lamps per driver)

* Without driver losses

** Output is defined as the total photon flux between 400-800nm. Typical values for stable operation at 77°F | 25°C cooling water temperature

Light distribution





Specifications

Housing material LED protection cover Ingress Protection

Lifespan / Warranty

Technical data

Power factor Total Harmonic Distortion (THD) Voltage range driver Current range Frequency range Inrush current Leakage current Isolation class Operation conditions Storage conditions

Cooling liquid and circuit

Cooling liquid Cooling liquid temperature Water connection Required flow velocity Flow velocity formula Aluminium (IK10). Finishing: anodized / antifouling powder coating (dirt repellent) High transmission glass (transmission >98%) (IK07) IP67 (dust- and watertight, hermetically sealed). Fixtures can be cleaned by using pressurized water, the complete electrical circuit is sealed waterproof. L90 B05 - 50,000 hours / 5 year warranty

> 0.96 @ 400 VAC
< 11% (THD)
230 - 480 VAC
2.1 - 1 A
50/60 Hz
max. 40A (t < 2.5ms) @ 480 VAC
< 0.75 mA @ 480 VAC
< Class I
32 to 113°F | 0 to 45°C / 95% RH
32 to 140°F | 0 to 60°C / 85% RH

Water (pH 4-8) From dew point to 113°F | 45°C Pipe thread ISO 228-G 3/8" (2x) Flow velocity must be at least 0.2 m/s and should not exceed 1.5m/s. v = Q*n/7200 (velocity in m/s, channel inner diameter 15 mm) v: minimally required flow velocity of water in the cooling channel of the lamp. (m/s) Q: heat imparted per fixture (Watt), n: number of fixtures in series on a cooling pipe.

Mounting

Mount the LED fixture with suitable brackets. Contact Oreon for info about types of brackets.

Weight and dimensions

Nett weight

Product dimensions (L x W x H) Carton dimensions 1 pcs (L x W x H) Carton dimensions 4 pcs (L x W x H) 10.14 lb | 4,6 kg 42.09" x 3.74" x 1.77" | 1069 mm x 95 mm x 45 mm 43" x 4.5" x 3" | 1093 mm x 115 mm x 75 mm TBA



3.74" | 95 mm 42.09" | 1069 mm

Logistic specifications

Quantity per pallet Gross weight per pallet Pallet dimensions (EUR) HS-code

Compliance

Pending

Air freight
ТВА
ТВА
ТВА
ТВА

Sea/Road freight

VERSION 210706



Lorentzlaan 6 3401 MX IJsselstein The Netherlands

T +31 30 760 0660

E info@oreon-led.com

W www.oreon-led.com

