

LUMATEK
PROFESSIONAL LIGHTING

ZEUS 600W LED



The Zeus 600W is a very high performance full-cycle top lighting solution for commercial and hobby horticulture cultivation, with the power and flexibility to scale from vegetative growth to higher light intensities in bloom.

2.3 $\mu\text{mol}/\text{J}$

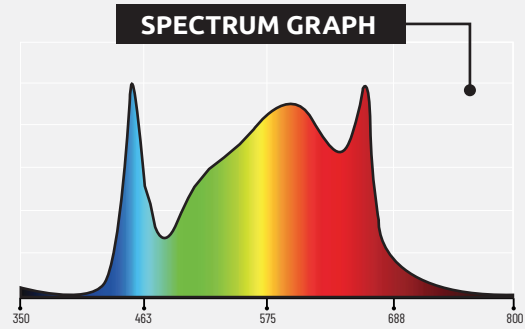
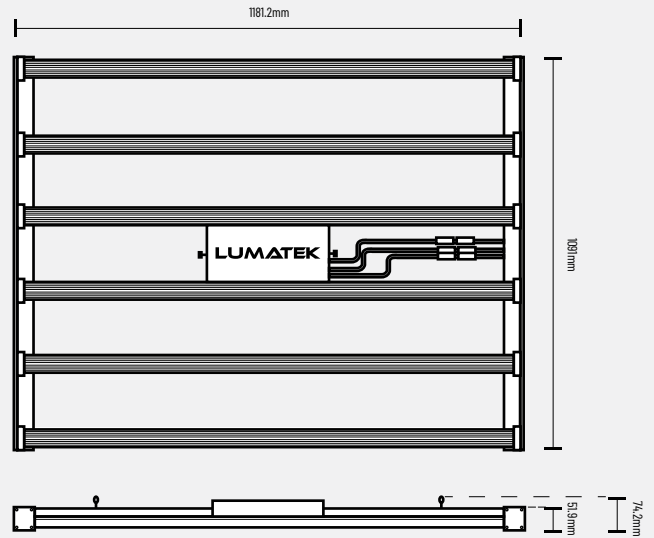
1380 $\mu\text{mol}/\text{s}$ total output

Full-Spectrum



ZEUS 600W LED

- EFFICACY** 2.3 $\mu\text{mol/J}$
- PPF** 1380 $\mu\text{mol/s}$
- INPUT VOLTAGE** 200-240V, 50-60Hz
- POWER CONSUMPTION** 600W
- FOOTPRINT** 1.5 x 1.5m
- APPLICATION** Multi-layer, Room, Tent
- WATERPROOF & DUSTPROOF** IP65
- LIFETIME (LED BARS)** 60 000 hrs
- LIGHT DISTRIBUTION** 120°
- LIGHT SOURCE** Osram (Red) and Lumileds Philips (White) Diodes
- DIODES RATIO** Red 8% , White 92%
- DIODES EFFICIENCY** Osram Dark Red 660NM 3.3 $\mu\text{mol/J}$;
Lumileds Philips White 2.7 $\mu\text{mol/J}$
- DIMMABLE** OFF-25%-50%-75%-100%
with 0-10V Light Dimmer (Included)
- EXTERNAL CONTROL** With Lumatek Digital Panel
(sold separately)
- WEIGHT** 13.5 Kg
- DIMENSIONS** 1091 x 1180.4 x 51.9 mm
- SPECTRUM** Full Spectrum
- THERMAL MANAGEMENT** Passive
- BTU** (With Driver Attached): 2115 BTUs/h
(With Driver Remote): 2047 BTUs/h
- POWER FACTOR** >0.95
- DRIVER LOCATION** Fixed in structure or detachable
for remote use (Extension Cables
Sold Separately)
- WARRANTY** 5 Years
- CERTIFICATIONS** CE, IP65, UL1598, UL8800, EN61347-2-12,
EN 61347-1, IEC 60598-1-2014,
GBT 33721-2017 & GB7000.1-2015



| INPUT CURRENT (A/W) PER DIMMING RANGE | | | | |
|---------------------------------------|------|------|------|------|
| POWER (DIMMING) | 25% | 50% | 75% | 100% |
| AMPS | 0.65 | 1.3 | 1.96 | 2.61 |
| WATTAGE | 150W | 300W | 450W | 600W |

EXTERNAL CONTROL

The Zeus fixture can also be externally controlled with a Lumatek digital lighting controller featuring automated dimming, temperature safety control, Sunrise & Sunset Mode for up to 100 fixtures per controller.



ITEMS INCLUDED IN THE BOX:

- 6 x Lumatek 100W Full-Spectrum Magnet Light Bars *
- 1 x Lumatek 600W Driver with Connecting Cables
- 1 x 0-10V Light Dimmer + Velcro
- 1 x LED Structure with Connecting Cables
- 2 x Metal Cable Hangers
- 1 x Manual

* 100W Standard LED bar only to be used with compatible Zeus 600W Standard Driver/Fixture

PPFD: PHOTOSYNTHETIC PHOTON FLUX DENSITY ($\mu\text{mol}/\text{m}^2/\text{s}$)

FACTORS THAT CAN INFLUENCE PPFD TESTS

- TEST EQUIPMENT.
- LAMP BEADS DEVIATION
- AMBIENT TEMPERATURE DEVIATION
- PC COVER TRANSMITTANCE DEVIATION
- POWER SOURCE EFFICIENCY DEVIATION
- REFLECTION CONSIDERED OR NOT

RECOMMENDED PPFD ($\mu\text{mol}/\text{m}^2/\text{s}$)

| PLANT | SEED | CLONES | VEGETATIVE | FLOWERING |
|-----------|---------|--------|------------|-----------|
| CANNABIS | 100-300 | 75-150 | 300-550 | 650+ |
| TOMATOES | 150-350 | 75-150 | 350-550 | 650+ |
| CUCUMBERS | 100-300 | -- | 300-550 | 650+ |
| PEPPERS | 150-350 | -- | 300-550 | 650+ |

LUMATEK ZEUS 600W PPFD MAPS

TEST AREA **1.5M x 1.5M**

TEST POINTS **25**

TEST EQUIPMENT **INTEGRATING 2 METER SPHERE & EVERFINE PLA20**

AMBIENT TEMPERATURE **25°**

HEIGHT FROM CANOPY **15CM, 30CM, 50CM, 100CM, 150CM**

REFLECTION **0%**

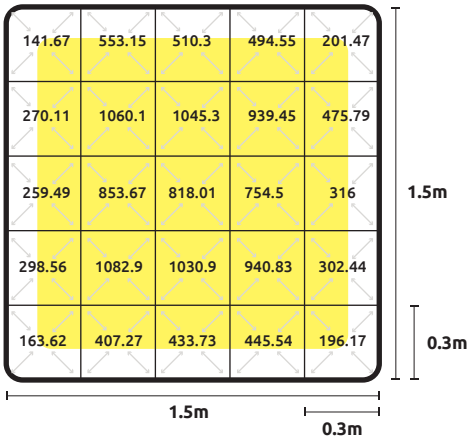
FIXTURE POWER **100%**

HEIGHT TO TEST POINT **15cm**

CANOPY AVERAGE PPFD

1,2m x 1,2m: 947.30 $\mu\text{mol}/\text{m}^2/\text{s}$

1,5m x 1,5m: 559.86 $\mu\text{mol}/\text{m}^2/\text{s}$

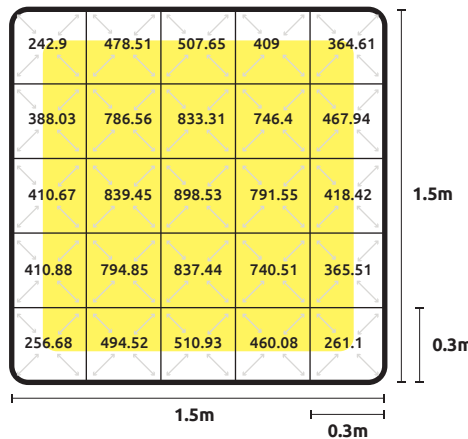


HEIGHT TO TEST POINT **30cm**

CANOPY AVERAGE PPFD

1,2m x 1,2m: 807.62 $\mu\text{mol}/\text{m}^2/\text{s}$

1,5m x 1,5m: 543.44 $\mu\text{mol}/\text{m}^2/\text{s}$

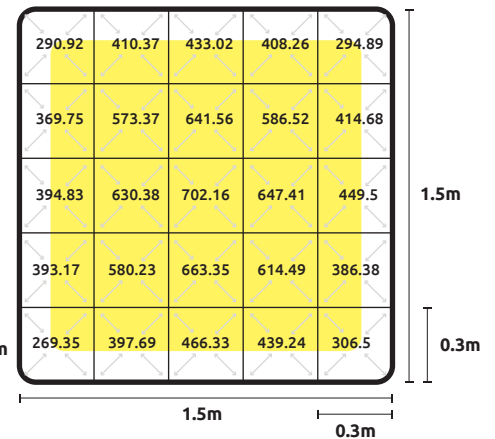


HEIGHT TO TEST POINT **50cm**

CANOPY AVERAGE PPFD

1,2m x 1,2m: 626.60 $\mu\text{mol}/\text{m}^2/\text{s}$

1,5m x 1,5m: 471.57 $\mu\text{mol}/\text{m}^2/\text{s}$

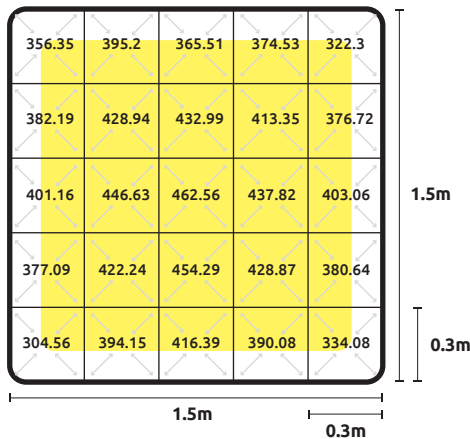


HEIGHT TO TEST POINT **100cm**

CANOPY AVERAGE PPFD

1,2m x 1,2m: 436.41 $\mu\text{mol}/\text{m}^2/\text{s}$

1,5m x 1,5m: 396.06 $\mu\text{mol}/\text{m}^2/\text{s}$



HEIGHT TO TEST POINT **150cm**

CANOPY AVERAGE PPFD

1,2m x 1,2m: 394.73 $\mu\text{mol}/\text{m}^2/\text{s}$

1,5m x 1,5m: 333.26 $\mu\text{mol}/\text{m}^2/\text{s}$

