

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

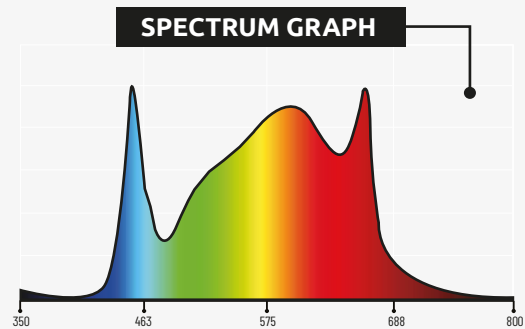
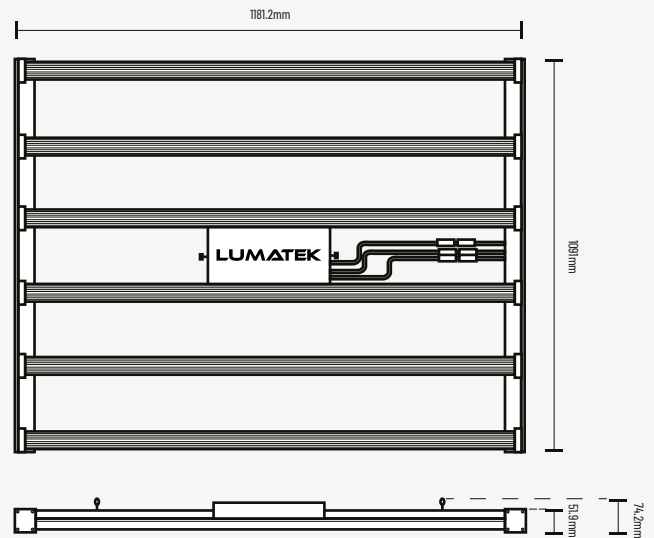
1380 $\mu\text{mol}/\text{s}$ total output

Full-Spectrum



ZEUS 600W LED

EFFICACY	2.3 $\mu\text{mol}/\text{J}$
PPF	1380 $\mu\text{mol}/\text{s}$
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 $\mu\text{mol}/\text{J}$; Lumileds Philips White 2.7 $\mu\text{mol}/\text{J}$
DIMMABLE	OFF-25%-50%-75%-100% with 0-10V Light Dimmer (Included)
EXTERNAL CONTROL	With Lumatek Digital Panel and T-Junction (Sold Separately)
WEIGHT	13.5 Kg
DIMENSIONS	1091 x 1180.4 x 51.9 mm
SPECTRUM	Full Spectrum
THERMAL MANAGEMENT	Passive
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,



UV & FAR RED LIGHT BARS CAN BE PURCHASED SEPARATELY (SPECTRUM CUSTOMIZATION)

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**

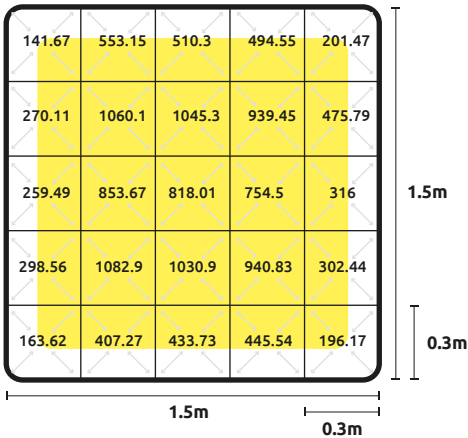
REFLECTION **0%**

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 $\mu\text{mol}/\text{m}^2/\text{s}$

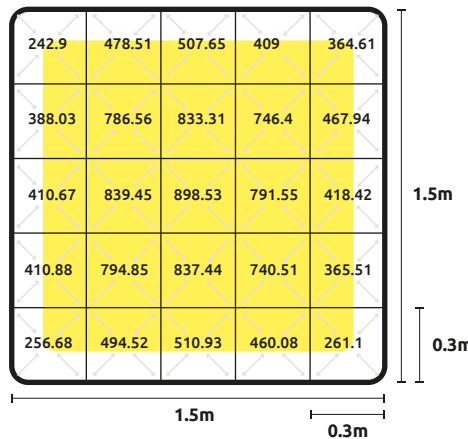


HEIGHT TO TEST POINT **30cm**

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 $\mu\text{mol}/\text{m}^2/\text{s}$

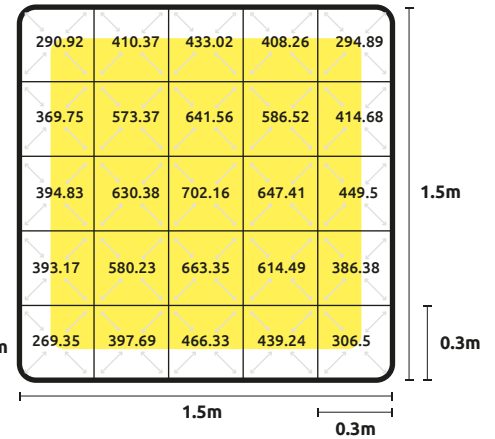


HEIGHT TO TEST POINT **50cm**

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 $\mu\text{mol}/\text{m}^2/\text{s}$

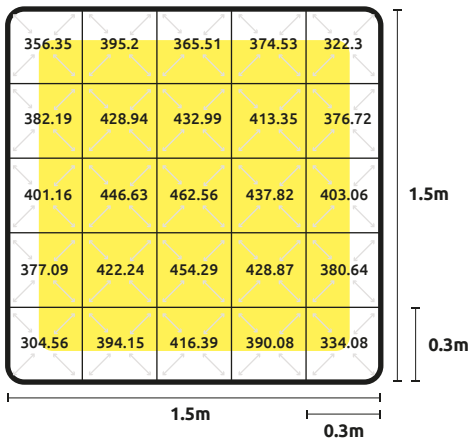


HEIGHT TO TEST POINT **100cm**

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 $\mu\text{mol}/\text{m}^2/\text{s}$

