

LUMATEK
PROFESSIONAL LIGHTING

ZEUS 600W PRO 2.9



The Zeus 600W Pro 2.9 is a very high performance full-cycle LED solution for commercial and hobby horticulture cultivation, with the power and flexibility to scale from vegetative growth to higher light intensities in bloom. Designed for up to 1.4x1.4m coverage.

up to 2.9 $\mu\text{mol}/\text{J}$

1770 $\mu\text{mol}/\text{s}$ total output

Full-Spectrum

2.9 $\mu\text{mol}/\text{J}$ EFFICACY

1770 $\mu\text{mol}/\text{s}$ PPF



ZEUS 600W PRO 2.9 LED

PRODUCT CODE: LUMLED010

EFFICACY: Up to 2.9 $\mu\text{mol}/\text{J}$

PPF: 1770 $\mu\text{mol}/\text{s}$

INPUT VOLTAGE: 220-240V, 50-60HZ

DRIVER: 600W 220-240V with Twist Lock Capability

INPUT POWER: 615W ($\pm 5\%$)

FOOTPRINT: 1.4x1.4m

APPLICATION: MULTI-LAYER, ROOM, TENT

WATERPROOF & DUSTPROOF: IP65

LIFETIME (LED BARS): 60 000 HRS

LIGHT DISTRIBUTION: 120°

LIGHT SOURCE: 4000K WHITE DIODES LUMILEDS 3030 HE PLUS;
660NM RED DIODES OSRAM SQ3.24

CCT: 3500K

QUANTITY OF LED BARS: 6

QUANTITY OF DIODES TOTAL: WHITE 1728; RED 144

QUANTITY OF DIODES PER LED BAR: WHITE 288; RED 24

DIODES POWER PROPORTION: WHITE 82%; RED 18%

DIODES EFFICIENCY: White Lumileds 3030 HE Plus 2.9 $\mu\text{mol}/\text{J}$;
Red Osram SQ3.24 3.8 $\mu\text{mol}/\text{J}$

DIMMABLE: OFF-25%-50%-75%-100%

with 0-10V Light Dimmer (Included)

EXTERNAL CONTROL: With Lumatek Digital Panel Plus 2.0
or Universal Controller 0-10V

WEIGHT: 13.5 Kg

DIMENSIONS: 1091 x 1182.4 x 51.9mm

SPECTRUM: FULL SPECTRUM F

THERMAL MANAGEMENT: PASSIVE COOLING

POWER FACTOR: 0.95

MAX. AMBIENT TEMPERATURE (@ 1000W POWER): 25°C

BTU (WITH DRIVER ATTACHED): 2201 BTUs/h

BTU (WITHOUT DRIVER): 2047 BTUs/h

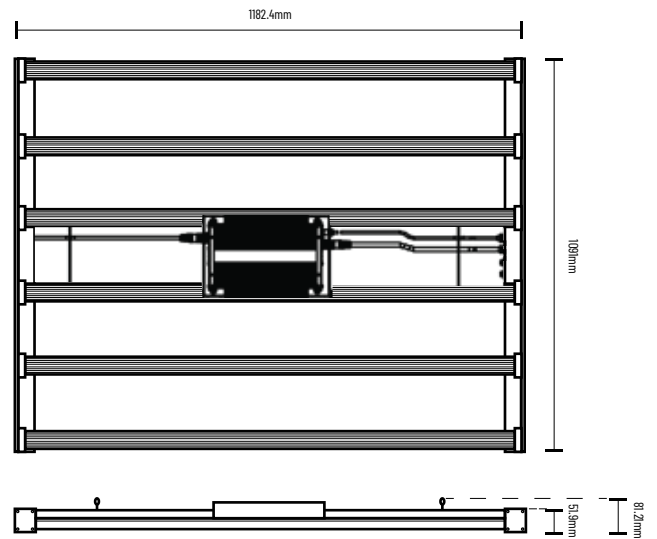
WARRANTY: 5 YEARS

CERTIFICATIONS:

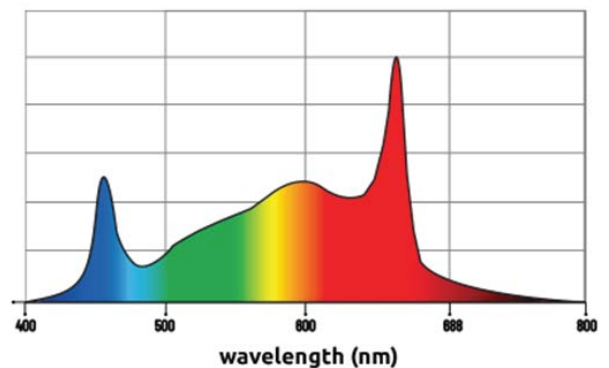
IP65, Rohs Directive 2011/65/EU And (EU)2015/863)

LED Fixture: CE Safety Standard: EN 60598-1:2015+A1:2018, EN 60598-2-1:1989, EN 62031:2020, EN 62493:2015, EN 62471:2008;
CE EMC Standard: EN 55015:2019, EN 61547:2009, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019

LED Driver: : CE Safety Standard: EN 60598-1:2015+A1:2018, EN 60598-2-1:1989, EN 62031:2020, EN 62493:2015, EN 62471:2008;
CE EMC Standard: EN 61347-1:2015, EN 61347-2-13:2014+A1:2017, EN 62493:2015

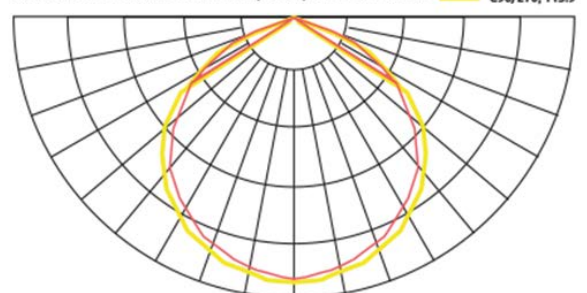


SQD SPECTRUM GRAPH



DISTRIBUTION CURVE FLUX

AVERAGE BEAM ANGLE (50%) : 114.4 DEG



INPUT CURRENT (A/w) PER DIMMING RANGE		
@ 277V		
DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
100%	645	2,43
75%	511	1,95
50%	328	1,32
25%	171	0,78
@ 240V		
DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
100%	645	2,77
75%	511	2,2
50%	332	1,47
25%	169	0,84
@ 230V		
DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
100%	645	2,88
75%	511	2,29
50%	328	1,53
25%	171	0,86

ITEMS INCLUDED IN THE BOX:

- 6 x Lumatek 100W Pro 2.9 Full-Spectrum Magnet Light Bars *
- 1 x Lumatek 600W Pro 2.9 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 Pro LED bar only to be used with compatible Zeus 600W Pro Driver/Fixture

EXTERNAL CONTROL

The Zeus fixture can be externally controlled with a Lumatek digital lighting controller (Digital Panel Plus 2.0) featuring light timing, automated dimming (1% increments), temperature safety control, Sunrise & Sunset Mode for up to 100 fixtures per controller



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 PRO 2.9 PPFD MAPS

TEST AREA 1.5M x 1.5M

TEST POINTS 25

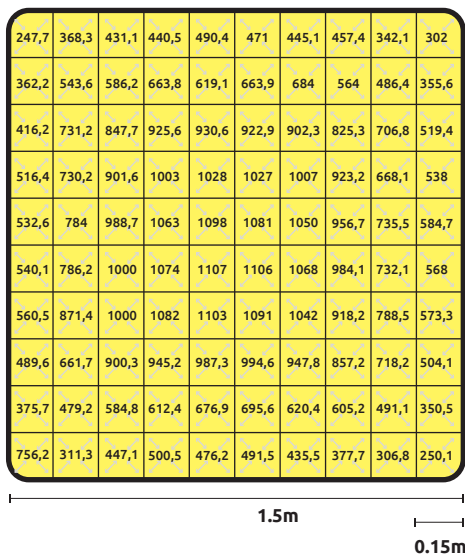
TEST EQUIPMENT INTEGRATING 2 METER SPHERE & LI-COR 180

AMBIENT TEMPERATURE 25°

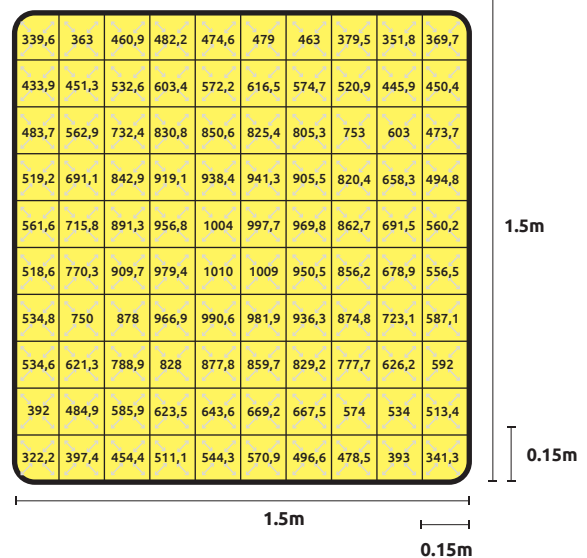
HEIGHT FROM CANOPY 30cm, 40cm, 50cm, 80cm, 100cm

REFLECTION 0%

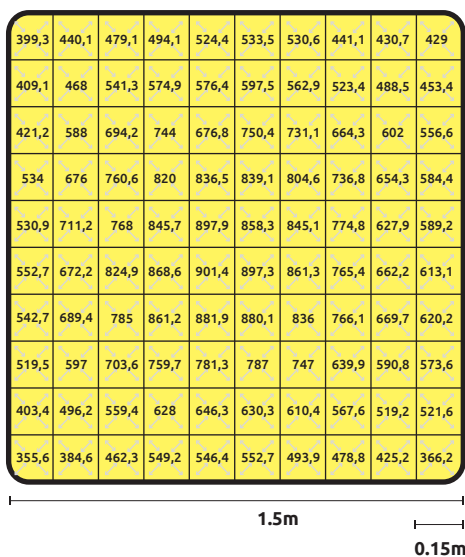
HEIGHT TO TEST POINT **30cm**
 CANOPY AVERAGE PPFd **703.1 $\mu\text{mol/s/m}^2$**



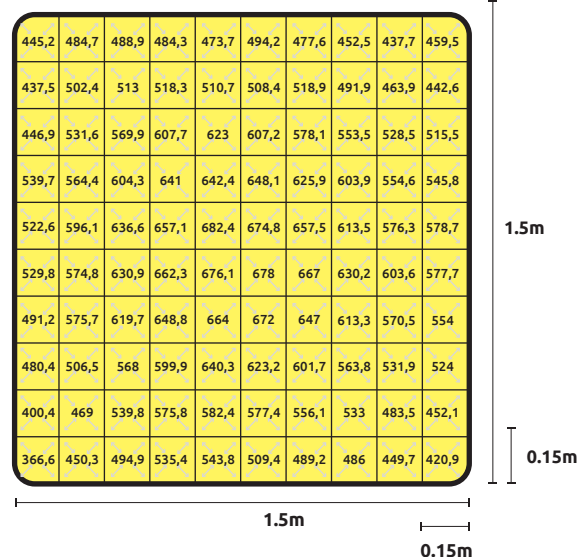
HEIGHT TO TEST POINT **40cm**
 CANOPY AVERAGE PPFd **662.2 $\mu\text{mol/s/m}^2$**



HEIGHT TO TEST POINT **50cm**
 CANOPY AVERAGE PPFd **630.7 $\mu\text{mol/s/m}^2$**



HEIGHT TO TEST POINT **80cm**
 CANOPY AVERAGE PPFd **551.7 $\mu\text{mol/s/m}^2$**



HEIGHT TO TEST POINT **100cm**
 AVERAGE PPFd **513.2 $\mu\text{mol/s/m}^2$**

