

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 1.4×1.4m 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

DESIGNED & ENGINEERED
BY LUMATEK IN THE UNITED KINGDOM

5 YEAR WARRANTY



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: 3800K

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 (@ 600W POWER): 25°C

BTU (WITH DRIVER ATTACHED): 2201 BTUs/h

BTU (WITHOUT DRIVER): 2047 BTUs/h

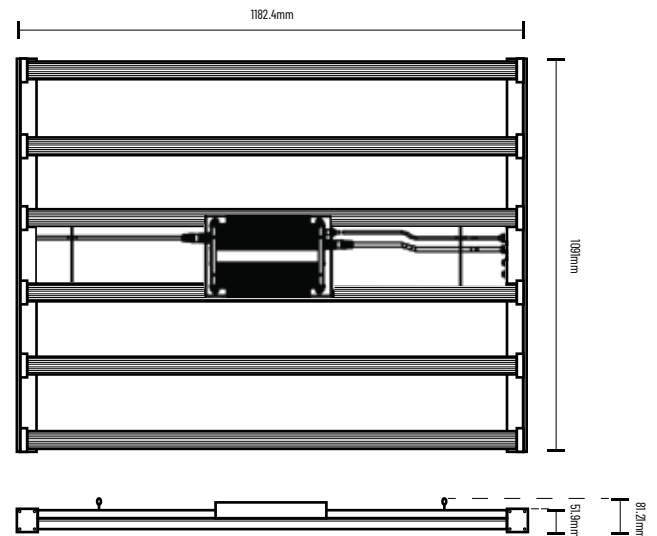
WARRANTY: 5 YEARS

CERTIFICATIONS:

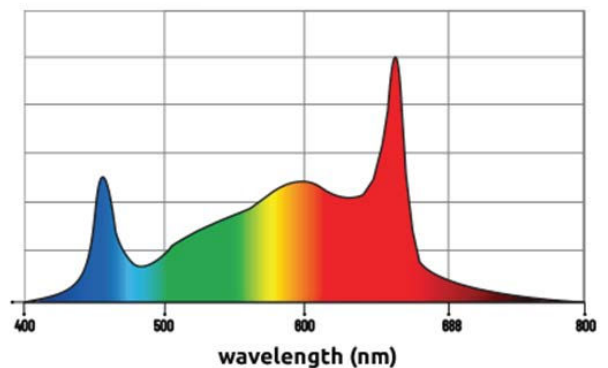
IP65, Rohs Directive 2011/65/EU And (EU)2015/863)

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

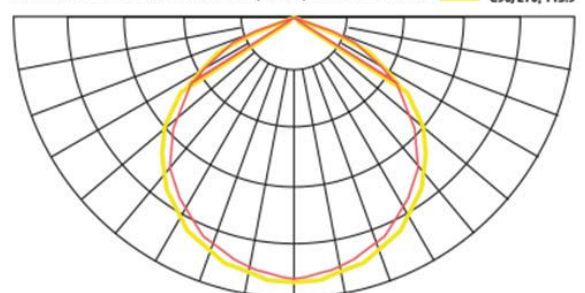


SQD SPECTRUM GRAPH



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

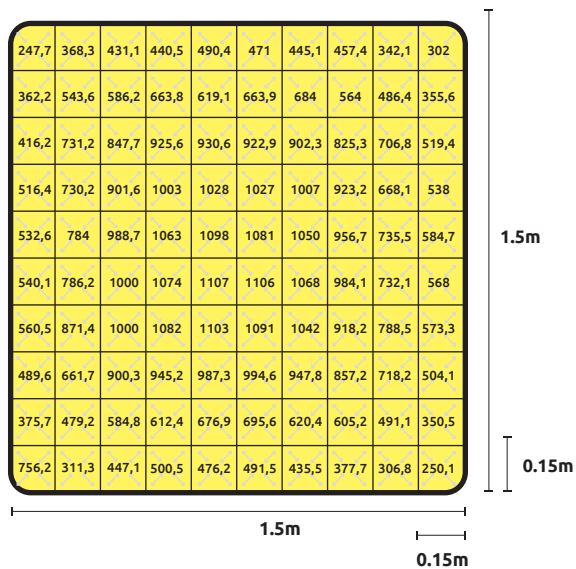
AMBIENT TEMPERATURE 25°

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

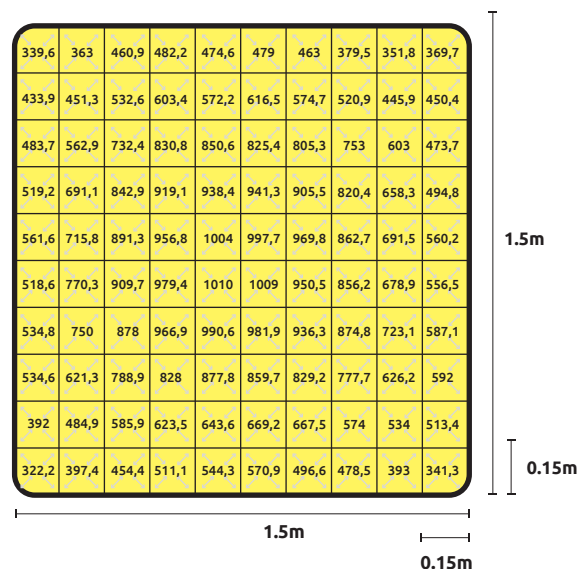
REFLECTION 0%

FIXTURE POWER 100%

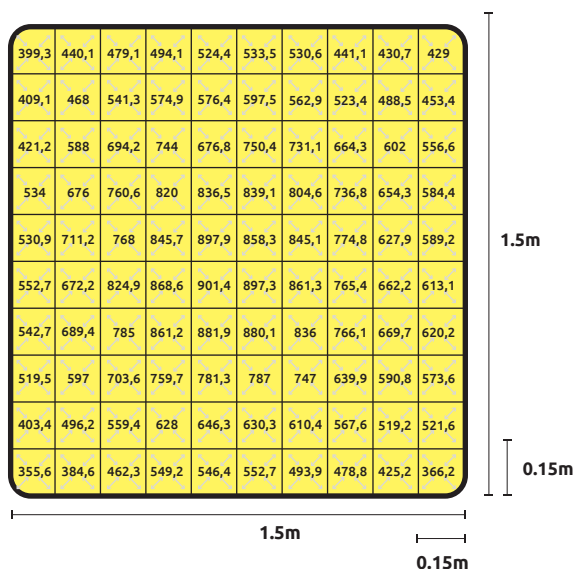
HEIGHT TO TEST POINT **30cm**
CANOPY AVERAGE PPFD **703.1 $\mu\text{mol/s/m}^2$**



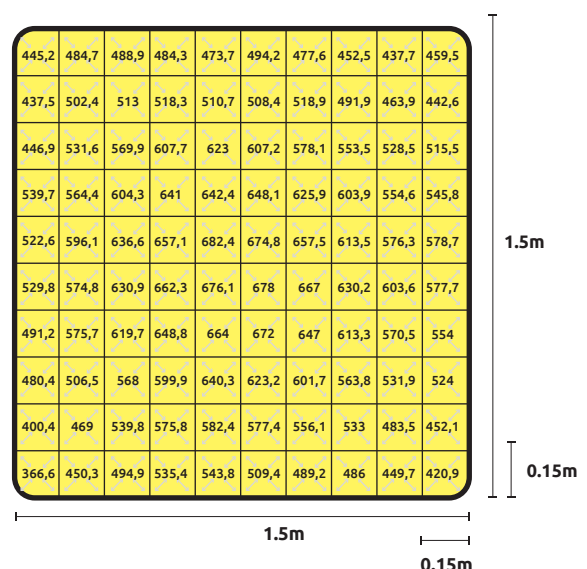
HEIGHT TO TEST POINT **40cm**
CANOPY AVERAGE PPFD **662.2 $\mu\text{mol/s/m}^2$**



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

