

# LUMATEK

PROFESSIONAL LIGHTING

## ZEUS 1000W PRO



The Zeus 1000W Pro 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 2.0×1.5m coverage.

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

2925  $\mu\text{mol}/\text{s}$  total output

Full-Spectrum



# ZEUS 1000W PRO

**PRODUCT CODE** LUMLED009

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

**PPF** 2925  $\mu\text{mol}/\text{s}$

**INPUT VOLTAGE** 220-240V, 50-60Hz

**DRIVER** 2 x 500W Drivers incorporated on the frame

**INPUT POWER** 1025W ( $\pm 5\%$ )

**FOOTPRINT** 2.0x1.5m

**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

**CTT** 3800K

**QUANTITY OF LED BARS** 10

**QUANTITY OF DIODES TOTAL** White 2880; Red 240

**QUANTITY OF DIODES PER LED BAR** White 280; 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** 17.5 Kg

**DIMENSIONS** 1700 x 1219 x 48.2mm

**SPECTRUM** Full Spectrum F

**THERMAL MANAGEMENT** Passive Cooling

**POWER FACTOR** 0.95

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

**BTU** 3497 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

N 61347-1:2015, EN 61347-2-13:2014+A1:2017, EN 62493:2015

## INPUT CURRENT (A/W) PER DIMMING RANGE

### @ 277V

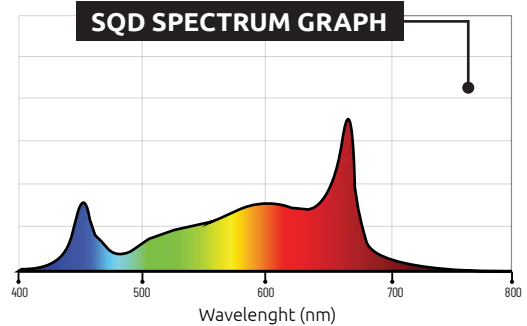
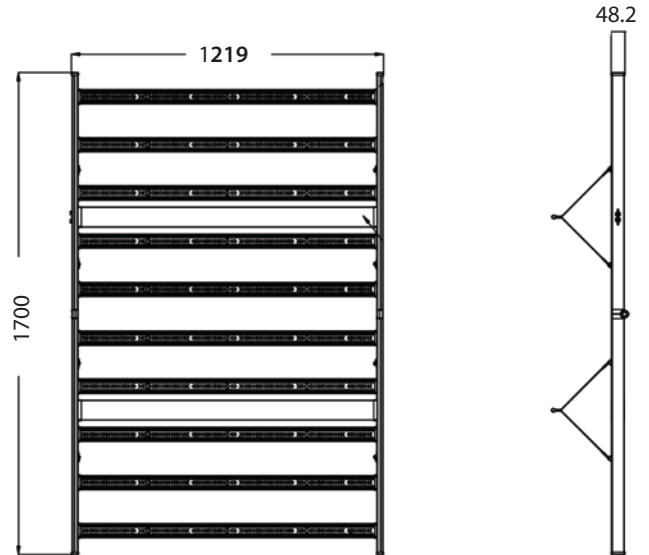
DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
100%	1075	3.99
75%	818	3.08
50%	530	2.1
25%	268	1.26

### @ 240V

DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
100%	1075	4.56
75%	820	3.51
50%	530	2.33
25%	267	1.33

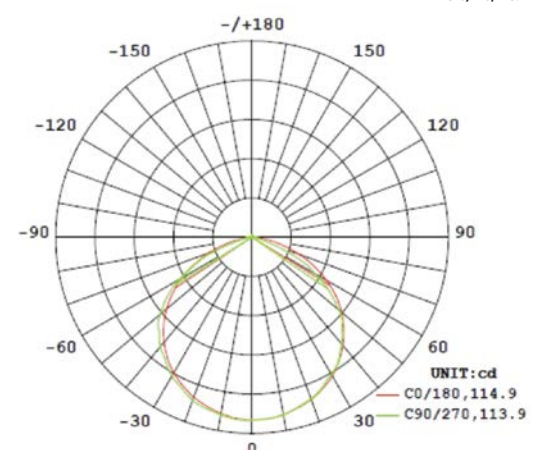
### @ 230V

DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
100%	1075	4.76
75%	821	3.66
50%	530	2.41
25%	268	1.36



## DISTRIBUTION CURVE FLUX

AVERAGE BEAM ANGLE (50%) : 114.4 DEG





# EXTERNAL CONTROL

The Zeus fixture can also 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



## ITEMS INCLUDED IN THE BOX:

- 10 x Lumatek 100W Pro 2.9 Full-Spectrum Magnet Light Bars
- 1 x Foldable Frame Structure with 2 x 500W Pro Incorporated Drivers + Connecting cables
- 2 x Metal Plates Fixed in structure to ensure fixture balances
- 1 x 0-10V Light Dimmer + Velcro
- 4 x Metal Cable Hangers
- 1 x Manual

## 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 1000W PRO PPFD MAPS

TEST AREA 2.0M x 1.5M

TEST POINTS 100

TEST EQUIPMENT INTEGRATING 2 METER SPHERE & LI-COR 180

AMBIENT TEMPERATURE 25°

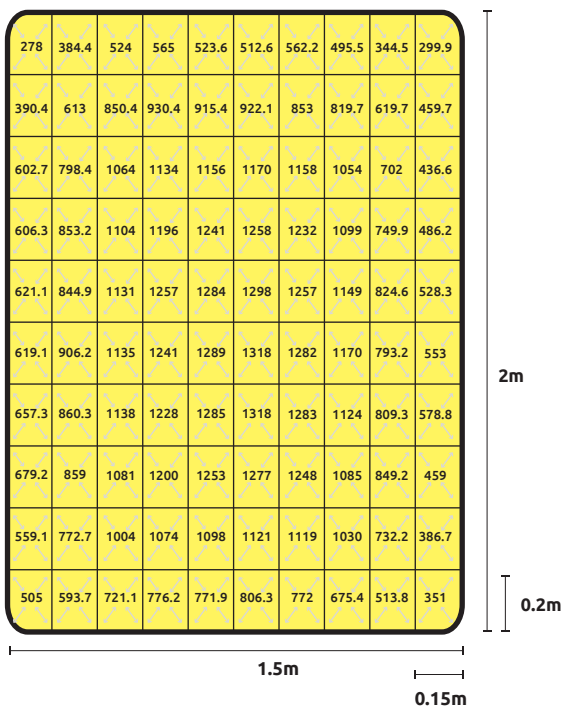
HEIGHT FROM CANOPY 30CM, 40CM, 50CM, 60CM, 80CM, 100CM, 120CM, 150CM

REFLECTION 0%

FIXTURE POWER: 100%

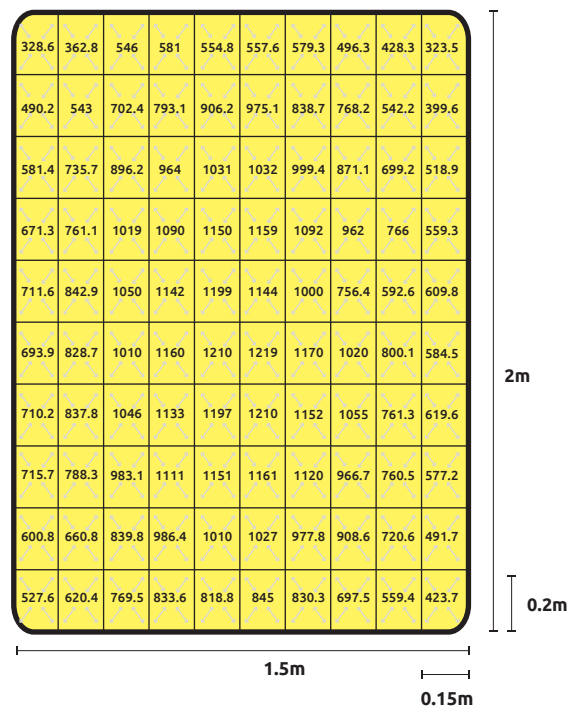
HEIGHT TO TEST POINT 30cm

CANOPY AVERAGE PPFD 871.2  $\mu\text{mol}/\text{s}/\text{m}^2$



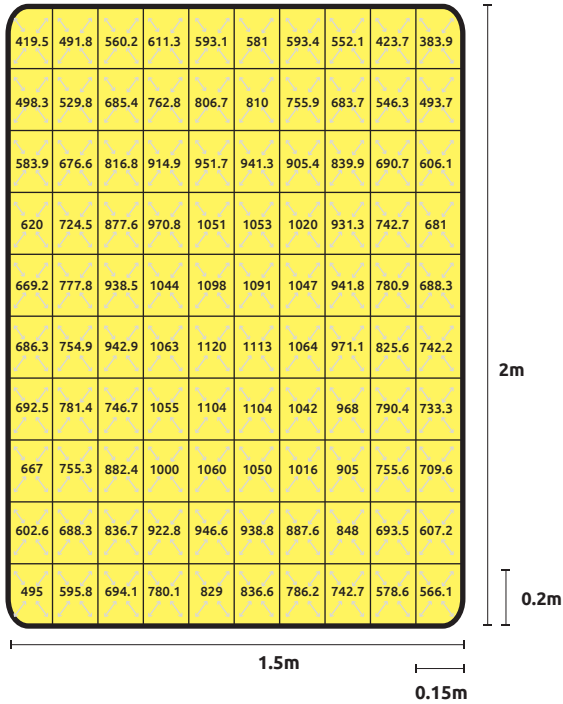
HEIGHT TO TEST POINT 40cm

CANOPY AVERAGE PPFD 822.2  $\mu\text{mol}/\text{s}/\text{m}^2$



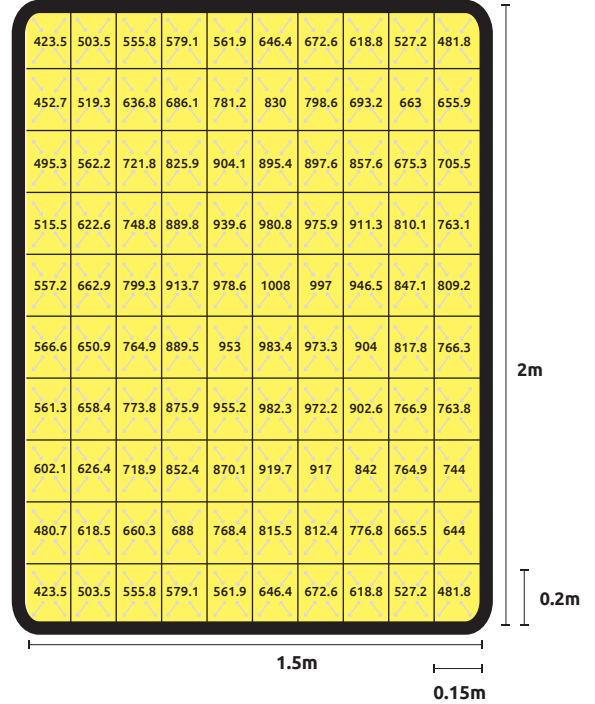
HEIGHT TO TEST POINT **50cm**

CANOPY AVERAGE **PPFD** **794.4  $\mu\text{mol/s/m}^2$**



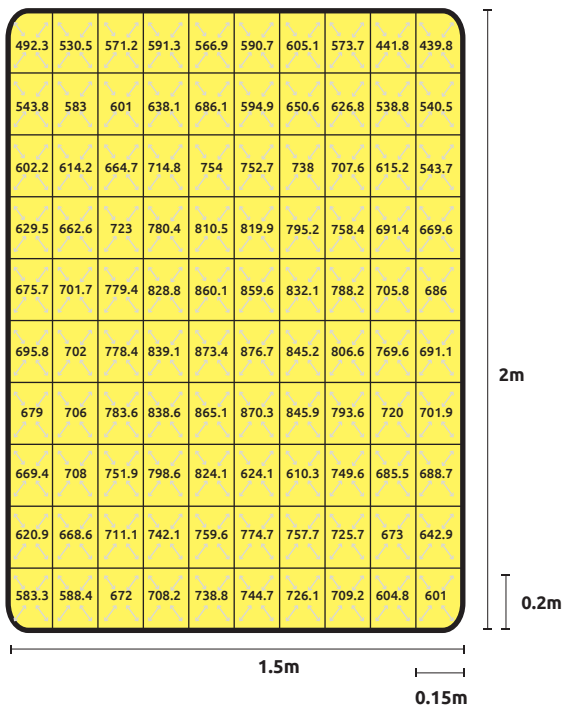
HEIGHT TO TEST POINT **60cm**

CANOPY AVERAGE **PPFD** **742.1  $\mu\text{mol/s/m}^2$**



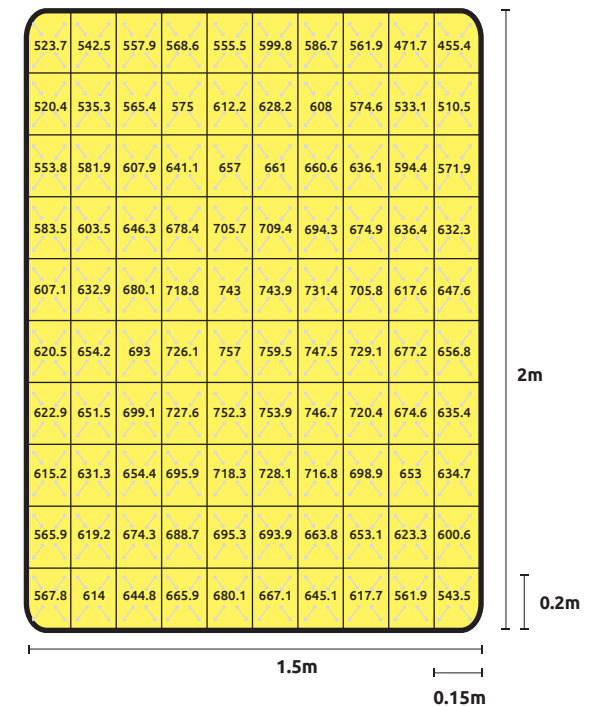
HEIGHT TO TEST POINT **80cm**

CANOPY AVERAGE **PPFD** **694.5  $\mu\text{mol/s/m}^2$**



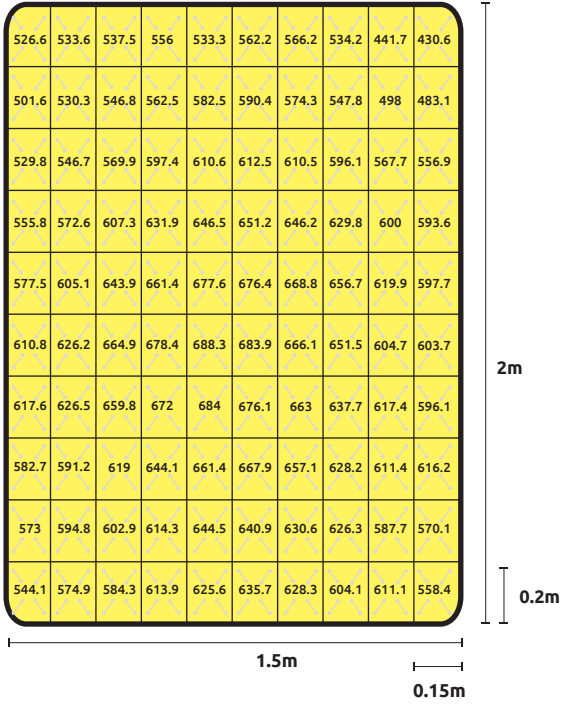
HEIGHT TO TEST POINT **100cm**

CANOPY AVERAGE **PPFD** **640.8  $\mu\text{mol/s/m}^2$**



HEIGHT TO TEST POINT **120cm**

CANOPY AVERAGE **PPFD** **602.3  $\mu\text{mol/s/m}^2$**



HEIGHT TO TEST POINT **150cm**

CANOPY AVERAGE **PPFD** **537.5  $\mu\text{mol/s/m}^2$**

