

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

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

**Full-Spectrum**



# ZEUS 1000W PRO

PRODUCT CODE LUMLED009

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

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

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  $\mu\text{mol/J}$ ;  
Red Osram SQ3.24 3.8  $\mu\text{mol/J}$

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

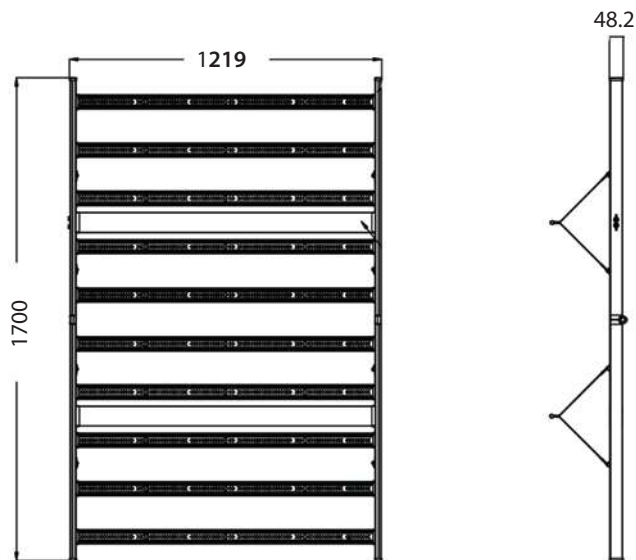
| DIMMING | INPUT POWER (W) | INPUT CURRENT (A) |
|---------|-----------------|-------------------|
| 100%    | 1075            | 3.99              |
| 75%     | 818             | 3.08              |
| 50%     | 530             | 2.1               |
| 25%     | 268             | 1.26              |

### @ 240V

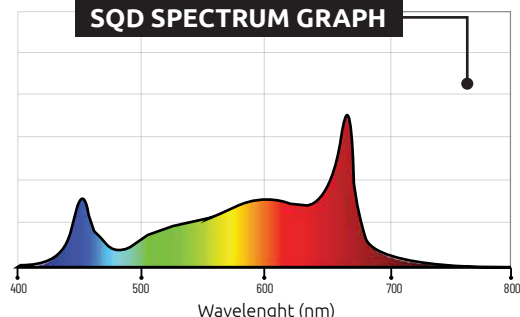
| DIMMING | INPUT POWER (W) | INPUT CURRENT (A) |
|---------|-----------------|-------------------|
| 100%    | 1075            | 4.56              |
| 75%     | 820             | 3.51              |
| 50%     | 530             | 2.33              |
| 25%     | 267             | 1.33              |

### @ 230V

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

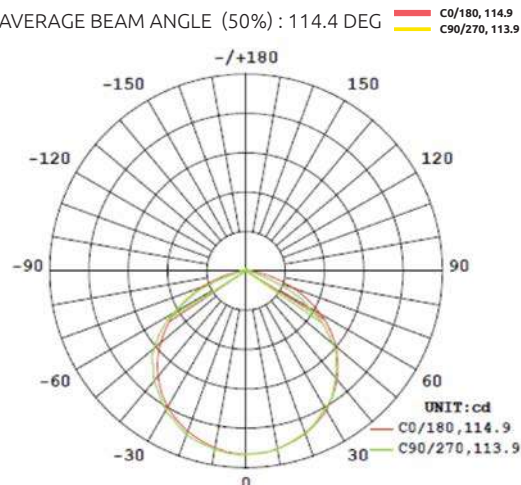


## SQD SPECTRUM GRAPH



## 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°

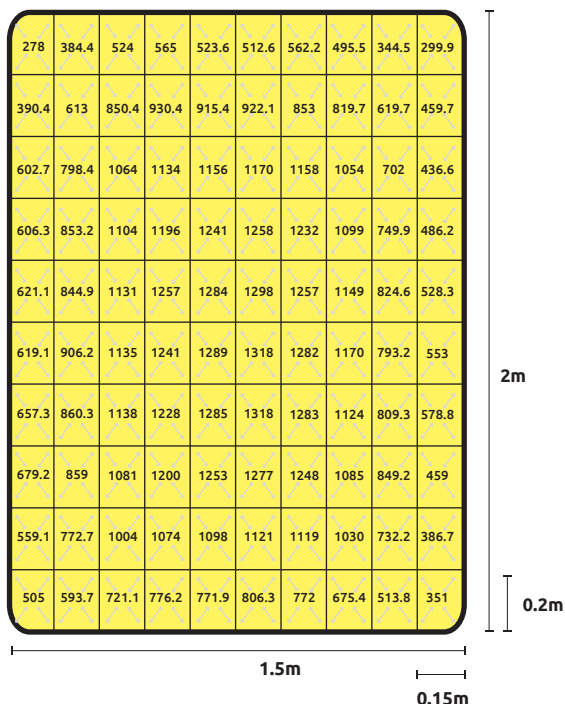
HEIGHT FROM CANOPY 30CM, 40CM, 50CM, 60CM, 80CM, 100CM, 120CM, 150CM

REFLECTION 0%

FIXTURE POWER: 100%

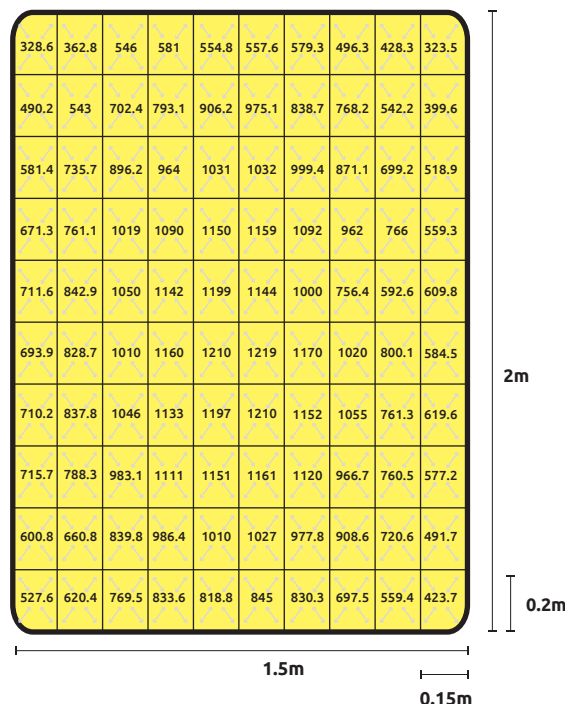
HEIGHT TO TEST POINT 30cm

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

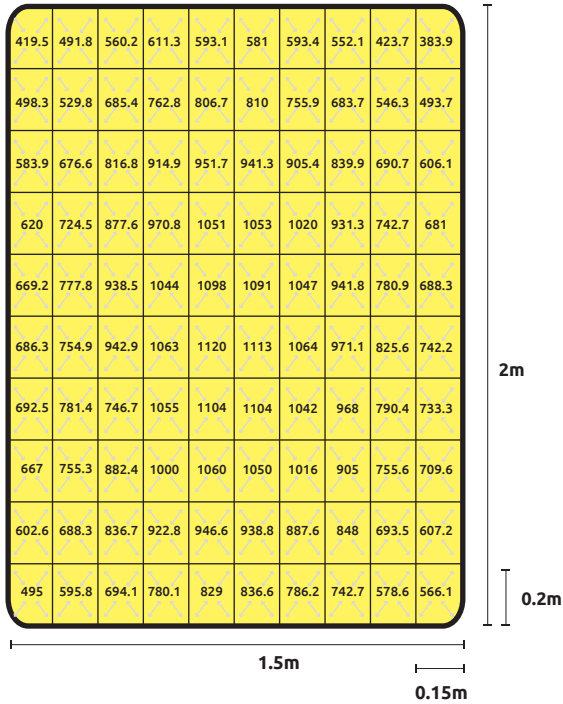


HEIGHT TO TEST POINT 40cm

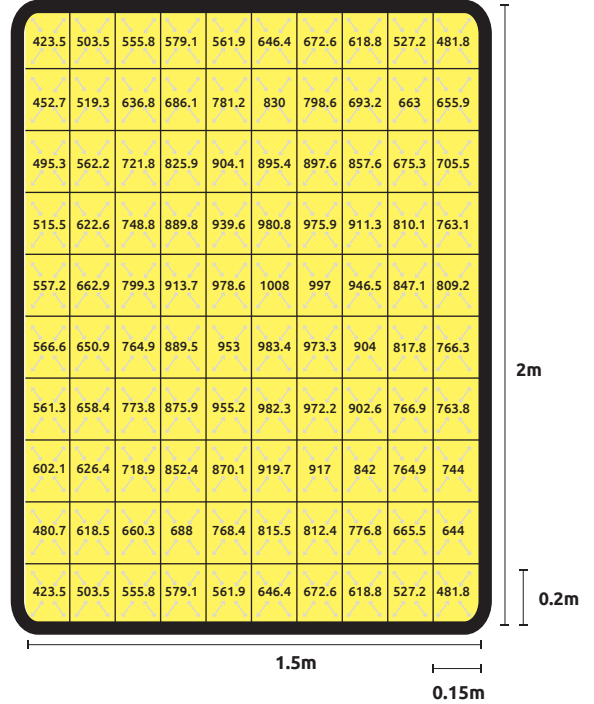
CANOPY AVERAGE PPFD 822.2  $\mu\text{mol}/\text{s}/\text{m}^2$



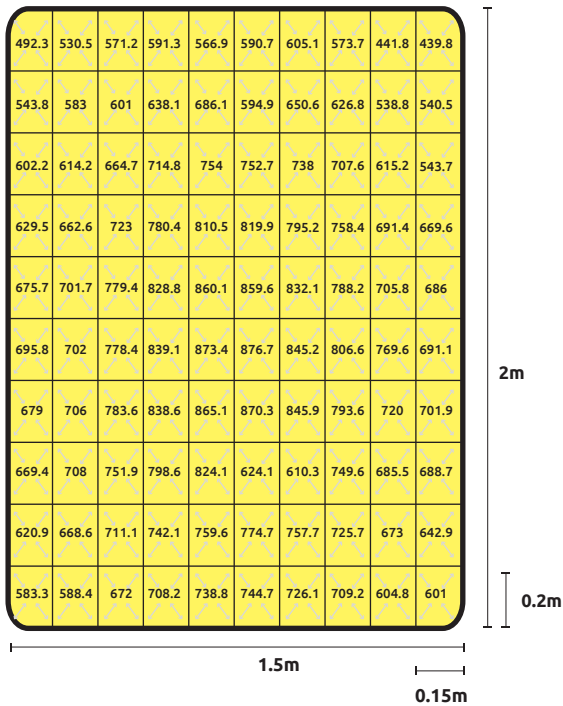
HEIGHT TO TEST POINT **50cm**  
CANOPY AVERAGE **PPFD** **794.4  $\mu\text{mol/s/m}^2$**



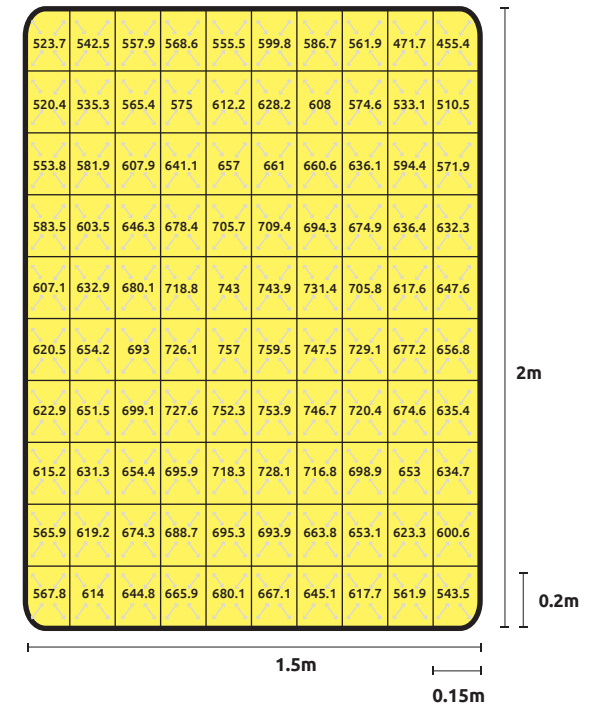
HEIGHT TO TEST POINT **60cm**  
CANOPY AVERAGE **PPFD** **742.1  $\mu\text{mol/s/m}^2$**



HEIGHT TO TEST POINT **80cm**  
CANOPY AVERAGE **PPFD** **694.5  $\mu\text{mol/s/m}^2$**

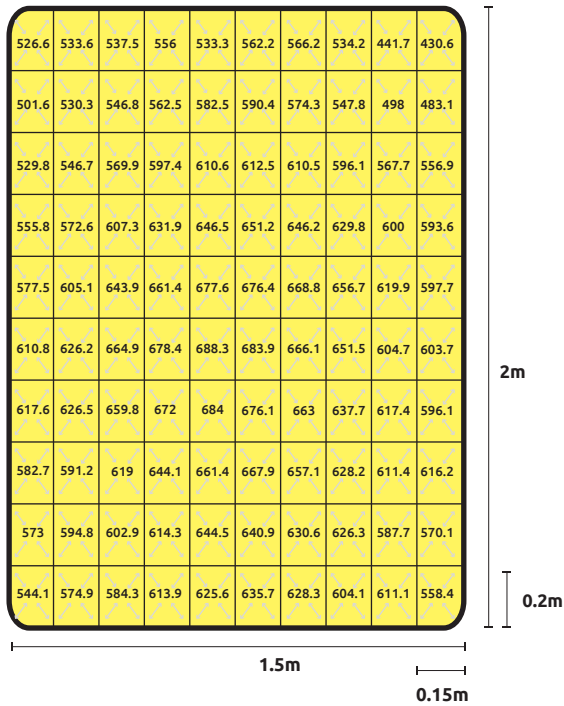


HEIGHT TO TEST POINT **100cm**  
CANOPY AVERAGE **PPFD** **640.8  $\mu\text{mol/s/m}^2$**



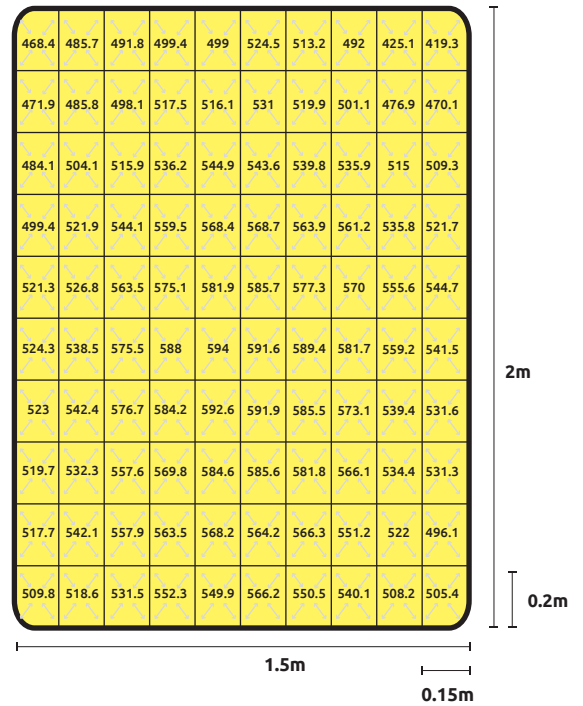
HEIGHT TO TEST POINT **120cm**

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



HEIGHT TO TEST POINT **150cm**

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



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