

LUMATEK

PROFESSIONAL LIGHTING

ZEUS 1000W XTREME PPFD CO2



The Zeus 1000W Xtreme PPFD CO2 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 1.5x1.5m coverage with Supplemental CO2 or 1.8x1.8m without this supplementation and placed at higher heights.

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

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

Full-Spectrum

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

EFFICACY

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

PPF



ZEUS 1000W XTREME PPFD CO2

PRODUCT CODE	LUMLED003
EFFICACY	2.9 $\mu\text{mol/J}$
PPF	2925 $\mu\text{mol/s}$
INPUT VOLTAGE	220-240V, 50-60Hz
INPUT POWER	1025W (100% 230V); 988W (100% 240V)
FOOTPRINT	1.5x1.5m with Supp. CO2; 1.8x1.8m without Supp. CO2 used at higher heights.
CO2 SUPPLEMENTAL:	1:1 Ratio CO2 PPM should be added once a PPFD of 1000 $\mu\text{mol/s/m}^2$ is exceeded

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
DIODES POWER PORPORTION:	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)
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EXTERNAL CONTROL	With Lumatek Digital Panel Plus 2.0 (Up to 100 fixtures)
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WEIGHT	18 Kg
DIMENSIONS	1181.2x1091x105.7mm
SPECTRUM	Full Spectrum F

THERMAL MANAGEMENT	Passive cooling
POWER FACTOR	0.95

DRIVER LOCATION	Fixed in structure or detachable for remote use (Extension Cables Sold Separately)
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MAX. AMBIENT TEMPERATURE (@1000W POWER)	25°C
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BTU (WITH DRIVER ATTACHED)	3497
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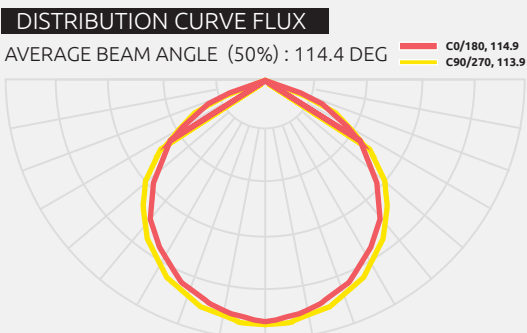
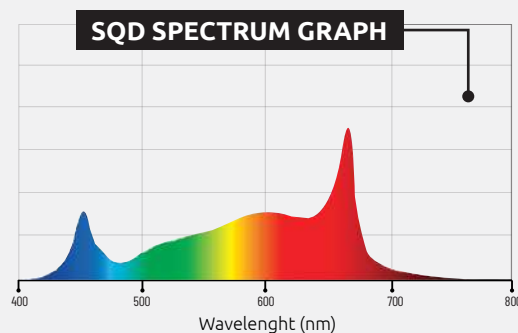
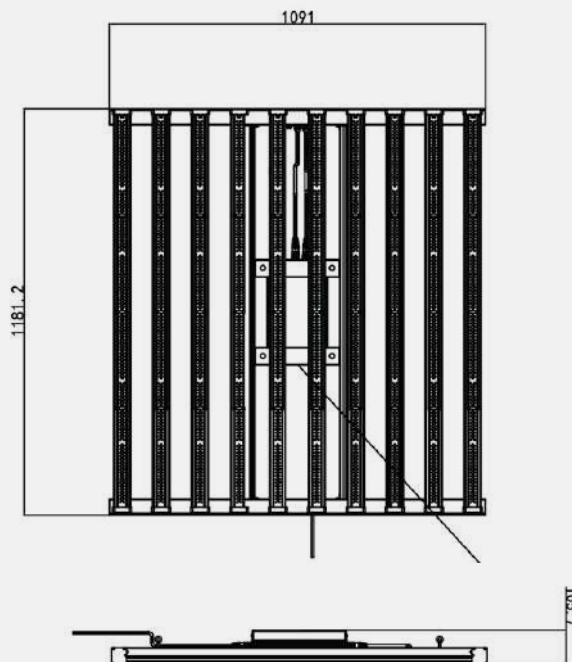
BTU (WITHOUT DRIVER)	3180
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WARRANTY	5 Years
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CERTIFICATIONS	IP65, Rohs Directive 2011/65/EU And (EU)2015/863) LED Fixture: CE Safety Standard: EN 60598-1:2015+A1:2018, EN 60598-2-1:1989, EN 62031:2020, 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
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INPUT CURRENT (A/w) PER DIMMING RANGE

@ 240V		
DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
100%	988	4.28
75%	753	3.29
50%	494	2.22
25%	250	1.25
@ 230V		
DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
100%	1021	4.62
75%	782	3.61
50%	512	2.45
25%	251	1.83



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 Lumatek 1000W Xtreme Pro Driver with Connecting Cables
- 1 x LED Structure with Connecting Cables
- 1 x 0-10V Light Dimmer + Velcro
- 2 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 XTREME PPFD CO₂ PPFD MAPS

TEST AREA 1.5M x 1.5M

TEST POINTS 100

TEST EQUIPMENT INTEGRATING 2 METER SPHERE & EVERFINE PLA20

AMBIENT TEMPERATURE 25°

HEIGHT FROM CANOPY 30CM, 40CM, 52CM, 100CM, 150CM

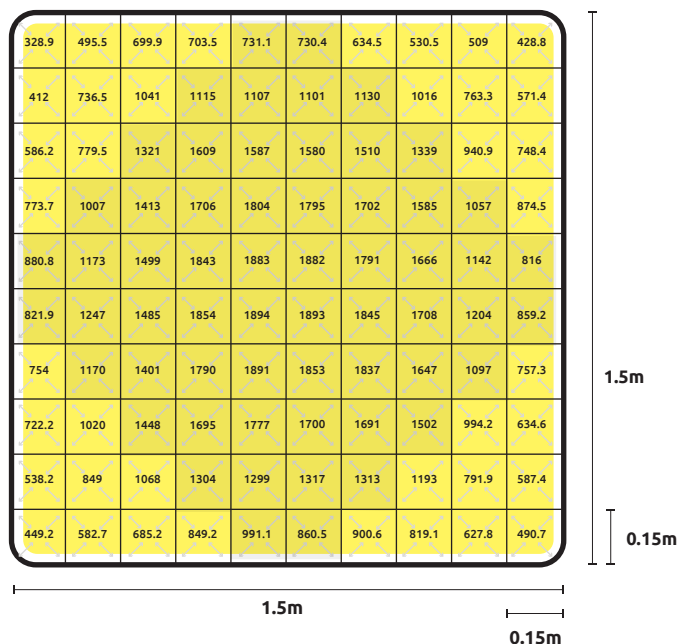
REFLECTION 0%

FIXTURE POWER 100%

PRIMARY TESTS WITH 10 BARS AT 100% POWER

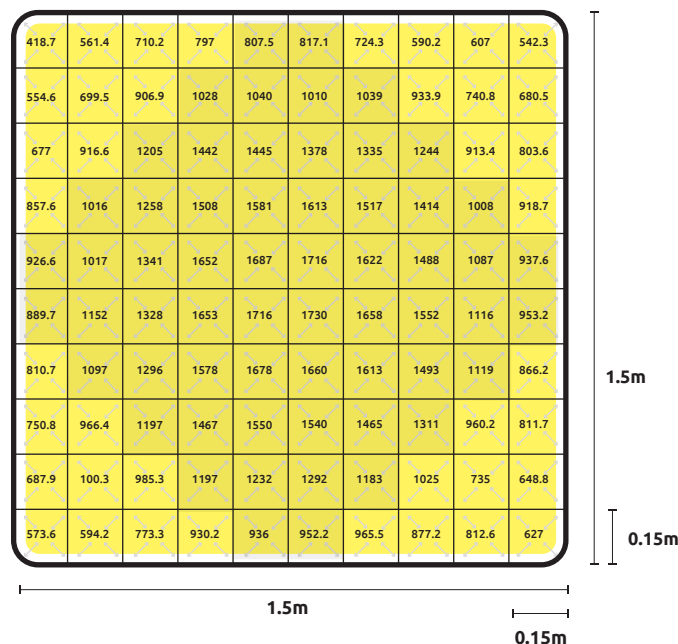
HEIGHT TO TEST POINT 30cm

CANOPY AVERAGE PPFD 1148 $\mu\text{mol}/\text{s}/\text{m}^2$

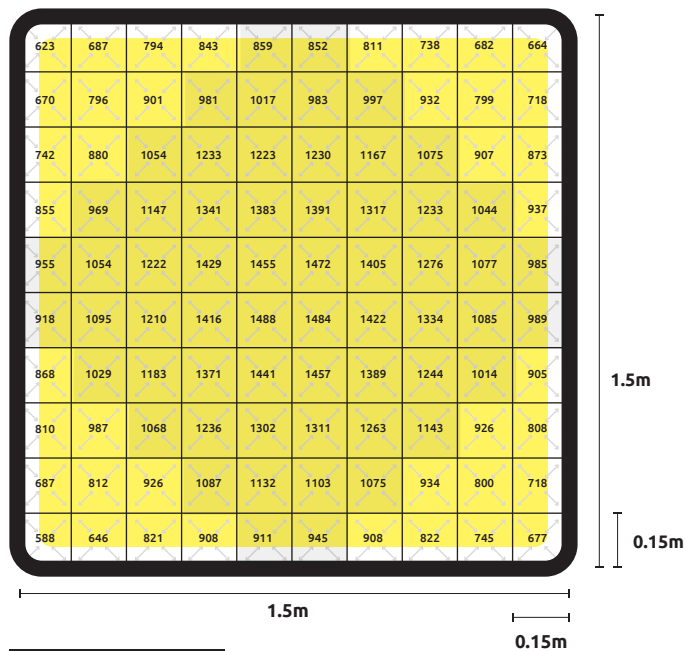


HEIGHT TO TEST POINT 40cm

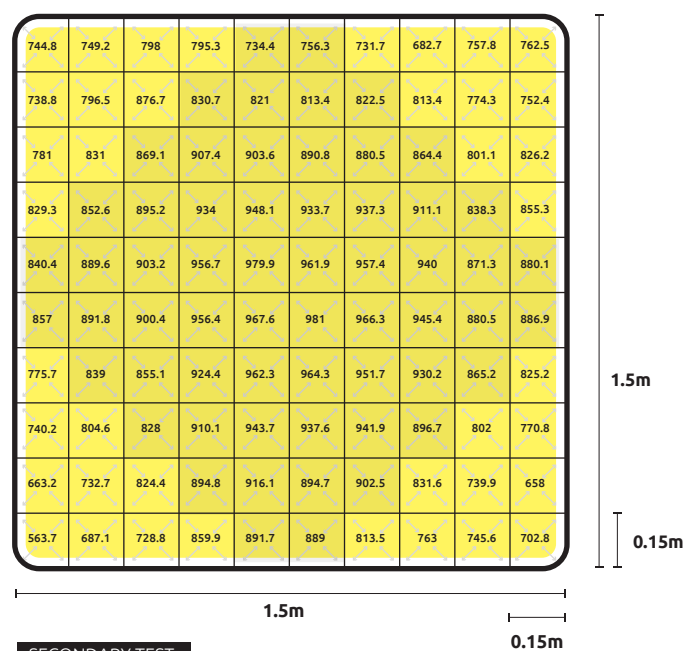
CANOPY AVERAGE PPFD 1095.4 $\mu\text{mol}/\text{s}/\text{m}^2$



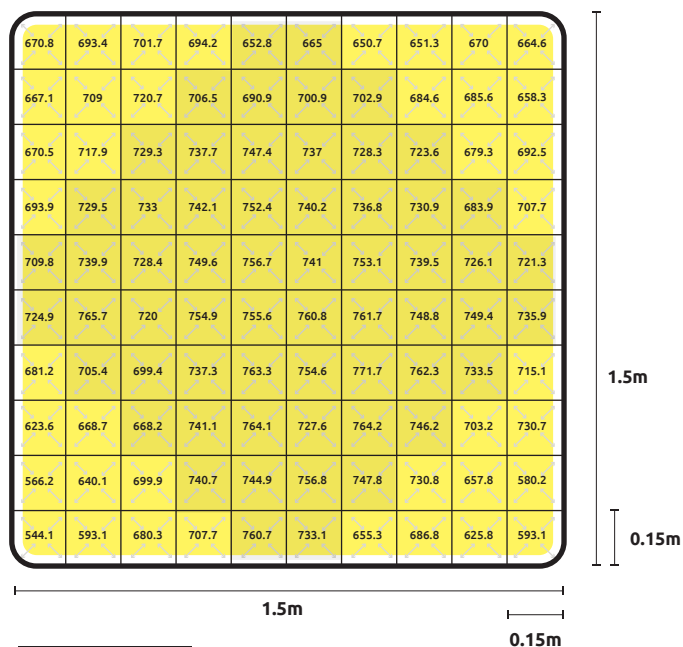
HEIGHT TO TEST POINT **52cm**
CANOPY AVERAGE PPFD **1031.2 $\mu\text{mol/s/m}^2$**



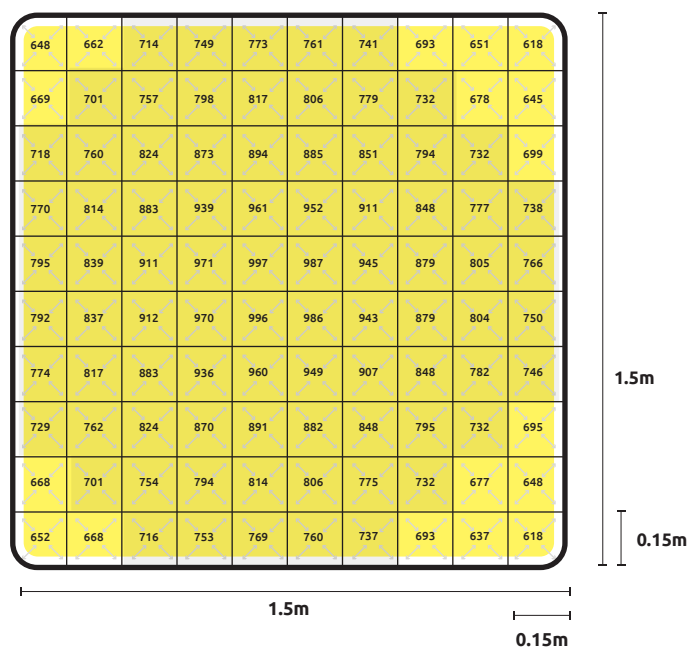
HEIGHT TO TEST POINT **100cm**
CANOPY AVERAGE PPFD **846.3 $\mu\text{mol/s/m}^2$**



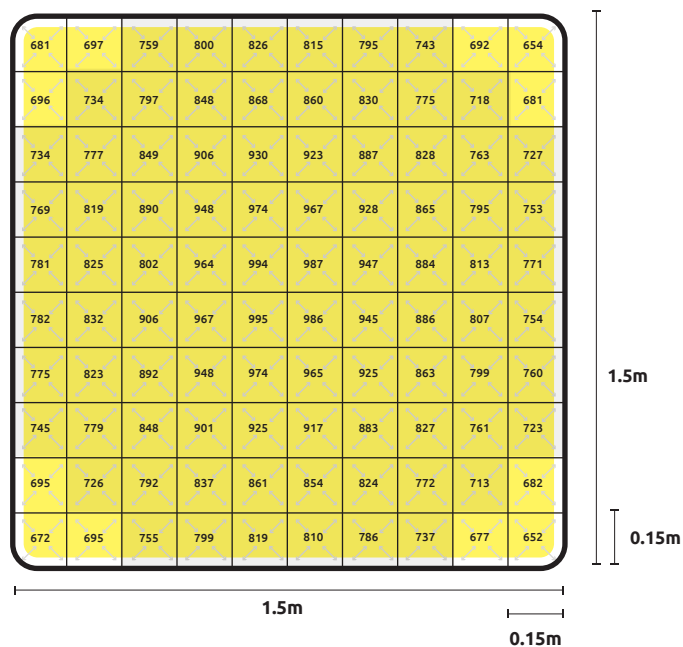
HEIGHT TO TEST POINT **150cm**
CANOPY AVERAGE PPFD **708 $\mu\text{mol/s/m}^2$**



SECONDARY TEST
• 10 Bars at 75% Power
• 67cm Height to Test Point
• Max 1000 $\mu\text{mol/s/m}^2$ PPFD
• Area: 2.25 m² (1,5x1,5m)



SECONDARY TEST
• 8 Bars at 100% Power
• 65.5cm Height to Test Point
• Max 1000 $\mu\text{mol/s/m}^2$ PPFD
• Area: 2.25 m² (1,5x1,5m)



For sales support:
orders@lumatek.co.uk

General contact:
info@lumatek.co.uk

For technical support:
techsupport@lumatek.co.uk

FOR MORE INFORMATION ON LUMATEK PRODUCTS
VISIT WWW.LUMATEK-LIGHTING.COM