

PHOTONTEK

HORTICULTURAL LIGHTING

P-TEK XT 1000W CO2 PRO LED FULL-SPECTRUM

The **P-TEK XT 1000W CO2 PRO** Only the highest-grade materials and components are used in P-TEK's LED fixtures. P-TEK fixtures have industry-leading performance, delivering safe, dependable light.

2.9
 μmol

/ J EFFICIENCY

2925
 μmol

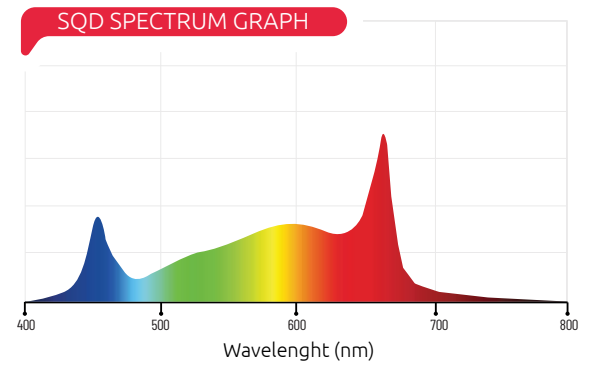
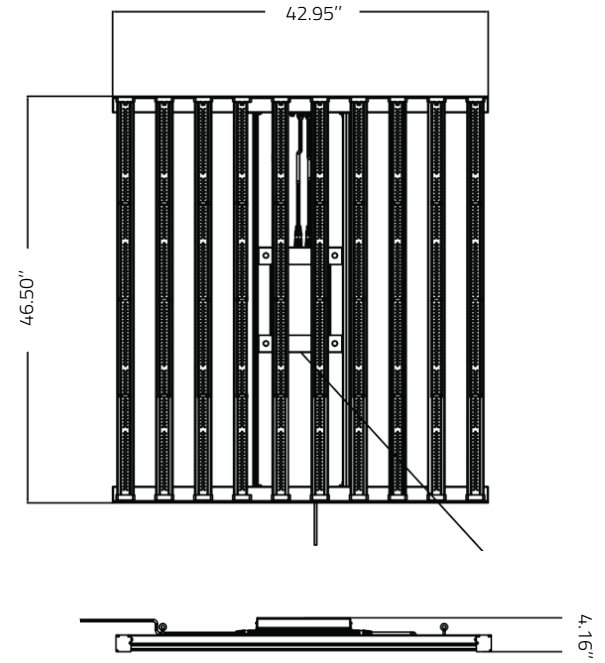
/ s PPF



5 YEAR WARRANTY

P-TEK XT 1000W CO2 PRO LED FULL-SPECTRUM

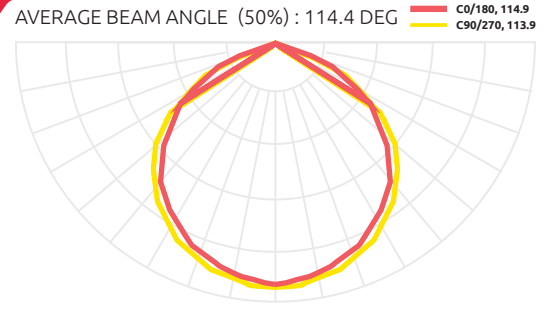
- Product Code: PTEKLED020
- Efficacy: 2.9 $\mu\text{mol}/\text{J}$
- PPF: 2925 $\mu\text{mol}/\text{s}$
- Input Voltage: 120-277V, 50-60Hz
- Driver: 1000W 120V-277V with Twist Lock capability
- Input Power: 1025W (100% 120V); 988W (100% 240V); 986W (100% 277V)
- Footprint: 5'x5' with Supp. CO2; 6'x6' without Supp. CO2 used at higher heights.
- CO2 Supplemental: 1:1 Ratio CO2 PPM should be added once a PPF of 1000 $\mu\text{mol}/\text{s}/\text{m}^2$ 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
- CCT: 3800K
- Quantity of LED Bars: 10
- Quantity of Diodes Total: White 2880; Red 240
- Quantity of Diodes per LED Bar: White 288; Red 24
- Diodes Ratio: 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 P-Tek Digital Controller (Up to 100 fixtures)
- Weight: 39.68 Lbs
- Dimensions: 46.50" x 42.95" x 4.16"
- Spectrum: Full Spectrum
- Thermal Management: Passive Cooling
- Power Factor: 0.95
- Driver Location: Fixed in structure or detachable for remote use (Extension Cables Sold Separately)
- Max. Ambient Temperature (@ 1000W Power): 25°C
- BTU (With Driver Attached): 3497
- BTU (Without Driver): 3180
- Warranty: 5 Years
- Certifications: IP65, Rohs Directive
CSA: ANSI/CAN/UL 8800:2019
FCC: FCC PART 15 SUBPART B:2017
IC: ICES-005 Issue 5:2018
DLC Listed



INPUT CURRENT (A/W) PER DIMMING RANGE

Input Voltage (V)	Dimming Ratio	Input Power (W)	Input Current (A)
Vmains=120VAC	100%	1025	8.56
	75%	773	6.45
	50%	500	4.20
	25%	250	2.13
Vmains=240VAC	100%	988	4.28
	75%	753	3.29
	50%	494	2.22
	25%	250	1.25
Vmains=277VAC	100%	986	3.79
	75%	752	2.94
	50%	494	2.00
	25%	250	1.16

DISTRIBUTION CURVE FLUX





FULL CONTROL

P-Tek Pro LED Fixtures can be fully controlled with either the P-Tek Digital Controller or with any other Control System that utilises 0-10V output signal.

ITEMS INCLUDED IN THE BOX:

- 10 x 100W 2.9 Full-Spectrum Magnet LED Bars
- 1 x 1000W Driver with Connecting Cables
- 1 x LED Structure with Connecting Cables
- 1 x Power Cable with NEMA 5-15P 120V Plug (NEMA 6-15P 240V also available)
- 1 x 0-10V Light Dimmer + Velcro
- 2 x Metal Cable Hangers
- 1 x Manual

PPFD: PHOTOSYNTHETIC PHOTON FLUX DENSITY ($\mu\text{mol}/\text{m}^2/\text{s}$)

ALL TESTS CONDUCTED WITH 100% DRIVER POWER

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+

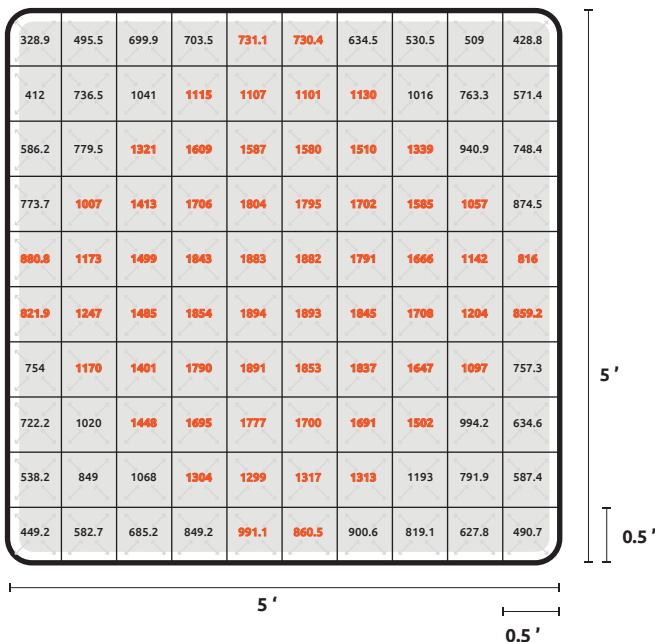
P-TEK XT 1000W CO2 PRO PPFD MAPS

- TEST AREA 5' X 5'
- TEST POINTS 100
- TEST EQUIPMENT INTEGRATING 2 METER SPHERE & EVERFINE PLA20
- AMBIENT TEMPERATURE 25°
- HEIGHT FROM CANOPY 12", 16", 20.5", 40", 60"
- REFLECTION 0%

PRIMARY TESTS WITH 10 BARS AT 100% POWER

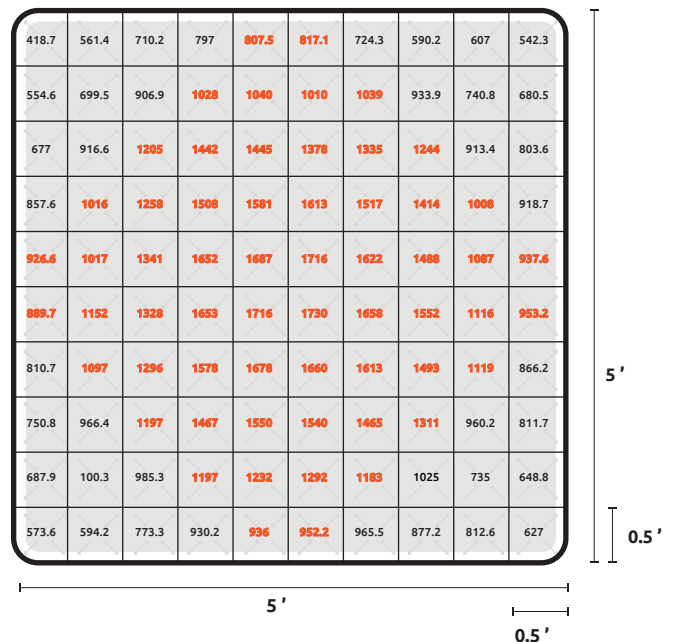
HEIGHT TO TEST POINT **12"**

CANOPY AVERAGE PPFD **5'x5': 1148 $\mu\text{mol}/\text{s}/\text{m}^2$**



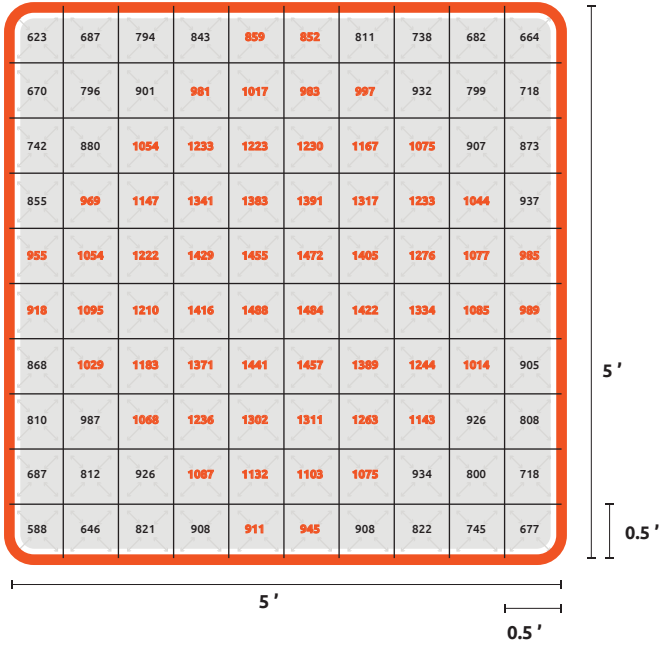
HEIGHT TO TEST POINT **16"**

CANOPY AVERAGE PPFD **5'x5': 1095,4 $\mu\text{mol}/\text{s}/\text{m}^2$**



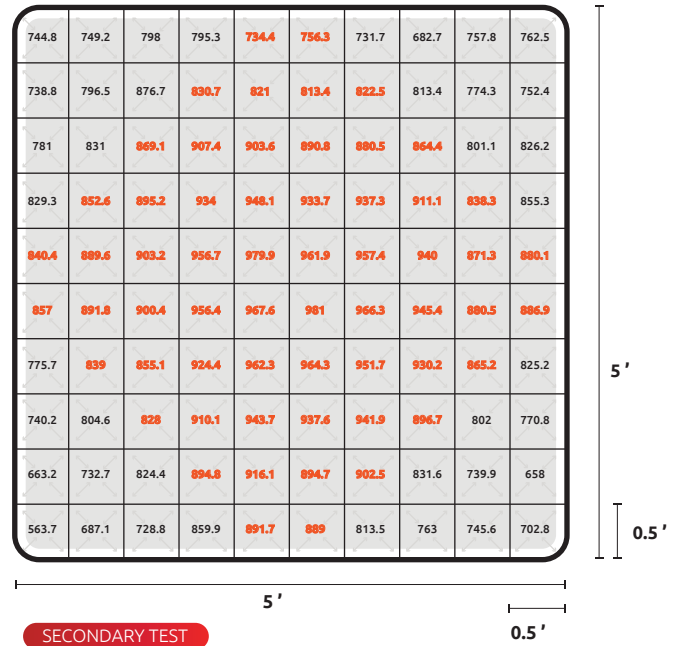
HEIGHT TO TEST POINT 20.5"

CANOPY AVERAGE PPF 5'x5': 1031.2 µmol/s/m2



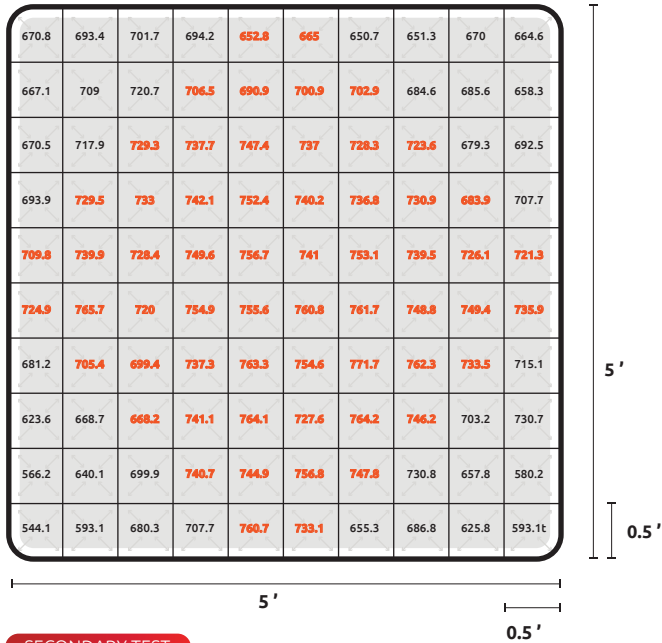
HEIGHT TO TEST POINT 40"

CANOPY AVERAGE PPF 5'x5': 846.3 µmol/s/m2



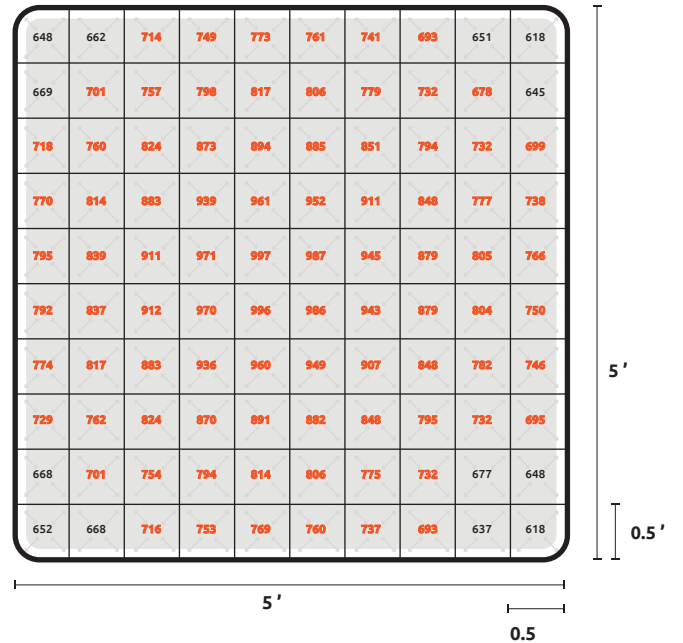
HEIGHT TO TEST POINT 60"

CANOPY AVERAGE PPF 5'x5': 708 µmol/s/m2



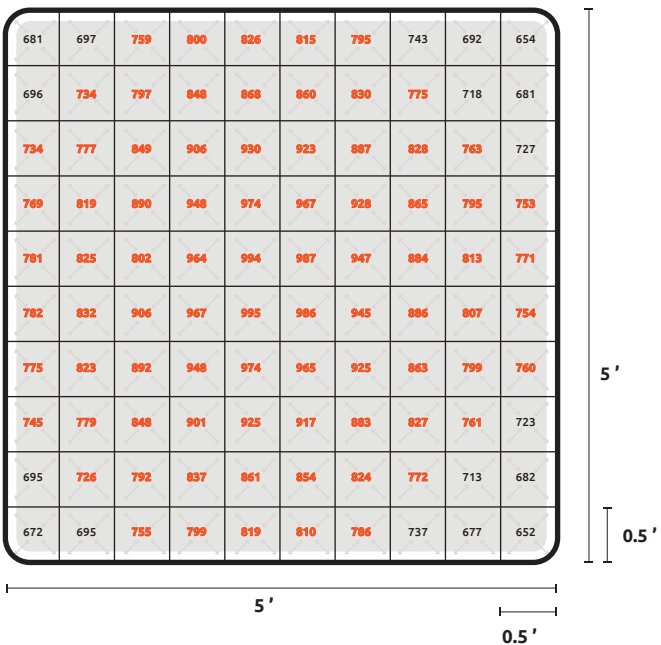
SECONDARY TEST

- 10 Bars at 75% Power
- Max 1000 µmol/s/m2 PPF
- 26.4" Height to Test Point
- Area: 5'x5'



SECONDARY TEST

- 8 Bars at 100% Power
- Max 1000 µmol/s/m2 PPF
- 25.8" Height to Test Point
- Area: 5'x5'



General contact:
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FOR MORE INFORMATION ON LUMATEK PRODUCTS
VISIT WWW.PHOTONTEK-LIGHTING.COM