

# PHOTONTEK

HORTICULTURAL LIGHTING

FULL-SPECTRUM

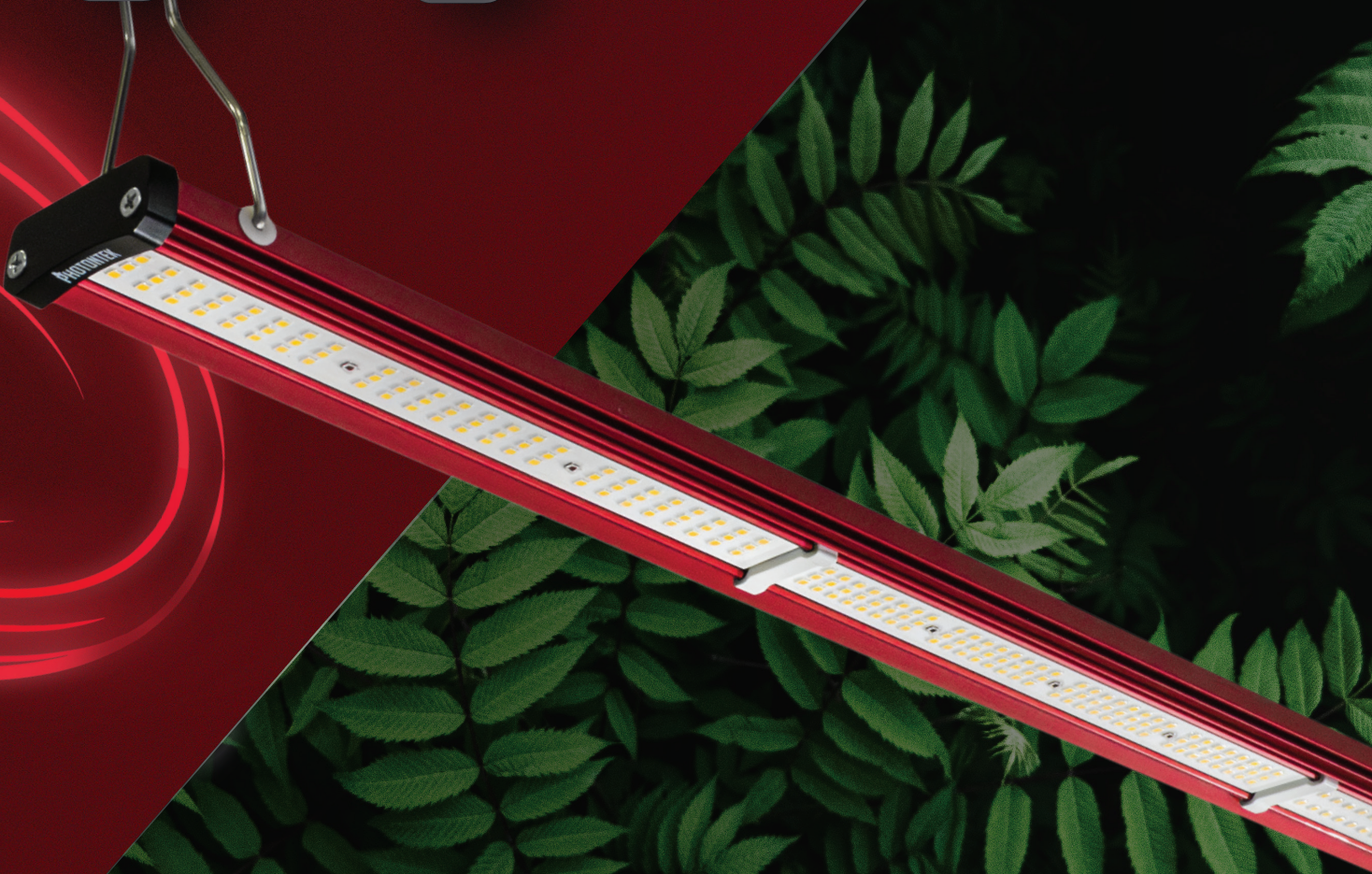
## P-TEK 100W INDIVIDUAL SUPPLEMENTAL LIGHT LED BAR

2.9  
 $\mu\text{mol}$

/J EFFICACY

295  
 $\mu\text{mol}$

/s PPF



5

YEAR

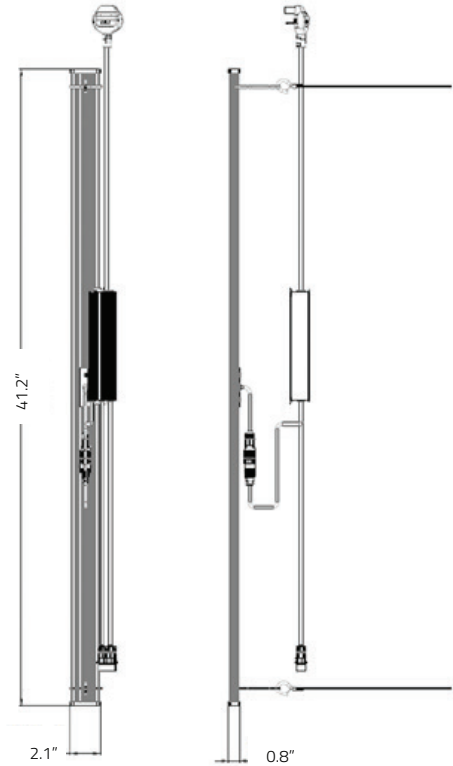
WARRANTY



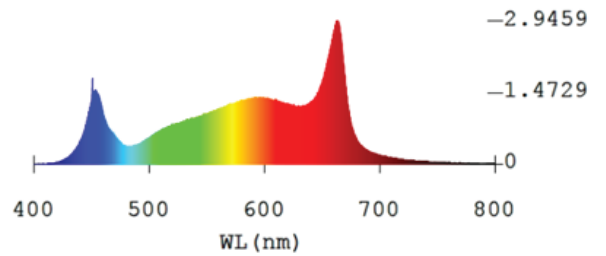
FULL-SPECTRUM

# P-TEK 100W INDIVIDUAL SUPPLEMENTAL LIGHT LED BAR

- Product Code: PTEKLED026
- Efficacy: Up to 2.9  $\mu\text{mol}/\text{J}$
- PPF: 295  $\mu\text{mol}/\text{s}$
- Input Voltage: 120-277V, 50-60Hz
- Driver: 100W 120-277V (Included with cabling to be used remote)
- Input Power: 102W ( $\pm 2\%$ )
- 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 Diodes Total: 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 (Not Included)
- External Control: With Lumatek Digital Panel Plus 2.0  
or Universal Controller 0-10V
- Weight (led bar): 2.4 lbs
- Dimensions: 4.12" x 0.8" x 2.1"
- Spectrum: Full Spectrum +
- Thermal Management: Passive Cooling
- Power Factor: 0.95
- Max. Ambient Temperature (@ 100% Power) 77° F (25° C)
- BTU (With Driver Attached): 358 BTUs/h
- Warranty: 5 Years
- Certifications:  
This product is FCC, IC, CSA & CE certified compliant with LVD and EMC directive test standards.

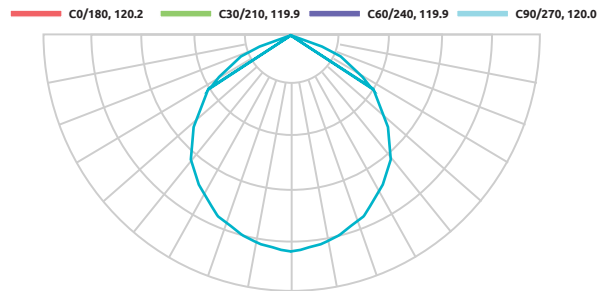


SQD SPECTRUM GRAPH



DISTRIBUTION CURVE FLUX

AVERAGE BEAM ANGLE (50%) : 120.2 DEG



Input Voltage (V)	Dimming Ratio	Input Power (W)	Current (A)
Vmains=120VAC	100%	100	0.84
	75%	75	0.63
	50%	50	0.42
	25%	25	0.22
Vmains=240VAC	100%	105	0.41
	75%	84	0.33
	50%	55	0.24
	25%	29	0.16
Vmains=277VAC	100%	105	0.41
	75%	84	0.33
	50%	55	0.24
	25%	29	0.16

## FULL CONTROL

PhotonTek 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.

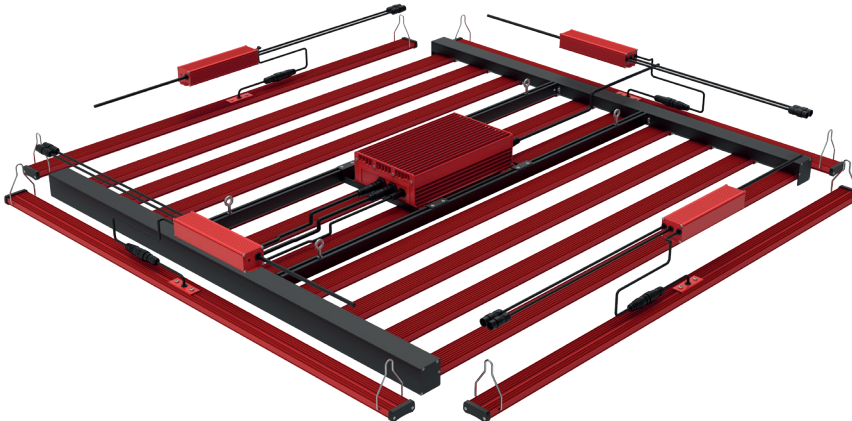


## WHAT'S IN THE BOX:

- 1 x Photontek 100W Full-Spectrum individual Supplemental Light LED Bar
- 2 x Metal Cable Hooks
- 1 x Photontek 100W Driver with Connecting Cables (Power and Dimming)
- 1 x Manual
- 1 x 120 V Power Cable (NEMA 5-15P)
- 1 x 240 V Power Cable (NEMA 6-15P)

## PPFD: PHOTOSYNTHETIC PHOTON FLUX DENSITY

The versatility of this LED Bar allows multiple options and ways of using it. Being so, there are several PPFD Maps scenarios depending on the number of bars used, if it is being used with any other fixture, individually and so on. For these reasons, here we provide only one example, and more specifically the use of our famous XT 1000W CO2 PRO LED together with four 100W Full-Spectrum Individual Supplemental Light LED Bars placed on each XT side as below:



### 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+

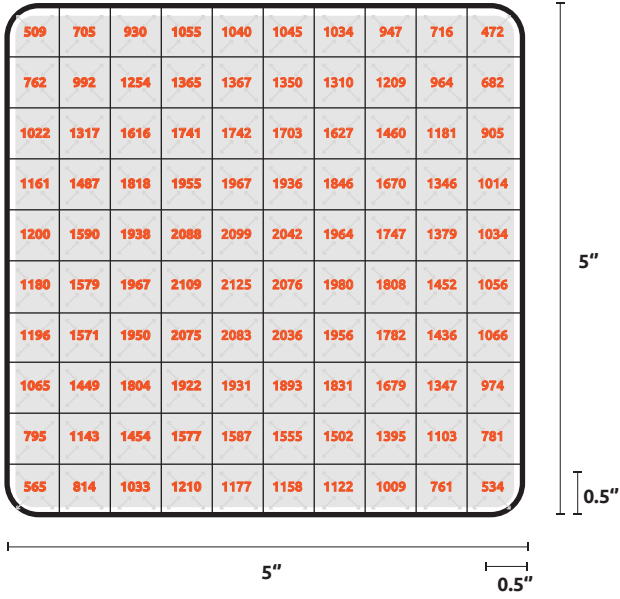
### PHOTONTEK XT 1000W CO2 PRO LED + 4X 100W IND.F.SUPP.LIGHT LED BARS PPFD MAPS

- TEST AREA 5' X 5'
- TEST POINTS 49 - 100
- TEST EQUIPMENT APOGEE DLI-500
- AMBIENT TEMPERATURE 77°F
- HEIGHT FROM CANOPY 0.98", 1.31", 1.64", 2.62", 3.28"
- REFLECTION 0%
- FIXTURE POWER 100%

HEIGHT TO TEST POINT 12"

CANOPY AVERAGE PPF 1400  $\mu\text{mol}/\text{m}^2/\text{s}$  (1148  $\mu\text{mol}/\text{m}^2/\text{s}$ , single XT 1000W CO2 PRO LED)

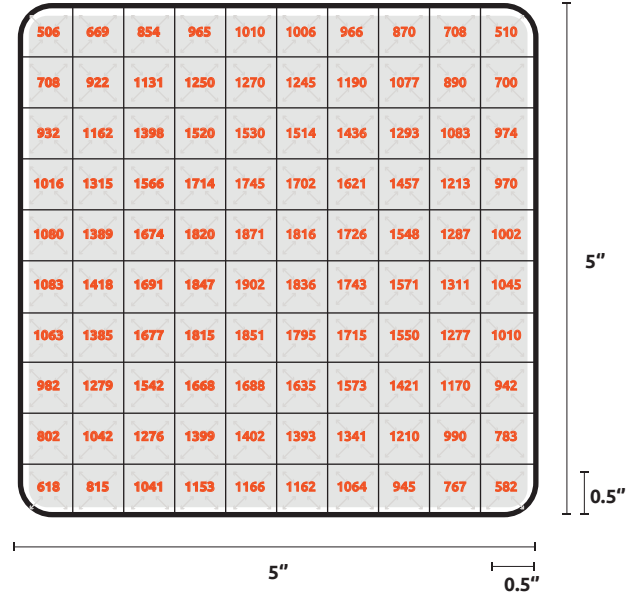
(P-TEK XT 1000W CO2 PRO LED + 4 X 100W IND. SUPP. LIGHT LED BARS PPF MAP)



HEIGHT TO TEST POINT 16"

CANOPY AVERAGE PPF 1263  $\mu\text{mol}/\text{m}^2/\text{s}$  (1095  $\mu\text{mol}/\text{m}^2/\text{s}$ , single XT 1000W CO2 PRO LED)

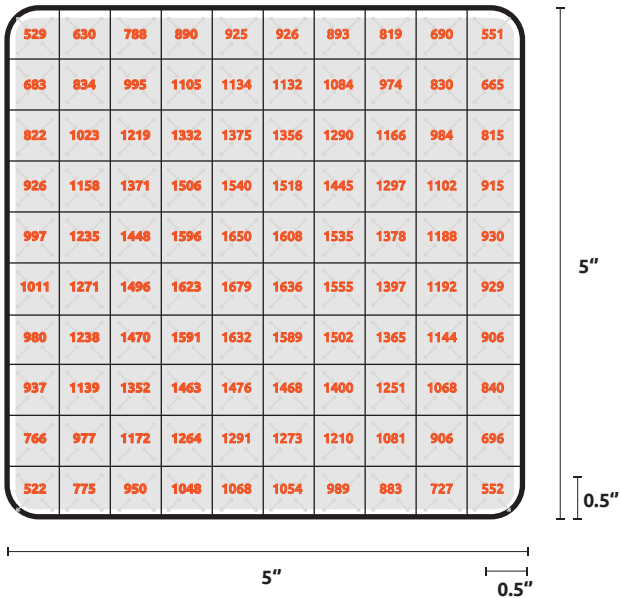
(P-TEK XT 1000W CO2 PRO LED + 4 X 100W IND. SUPP. LIGHT LED BARS PPF MAP)



HEIGHT TO TEST POINT 24"

CANOPY AVERAGE PPF 1136  $\mu\text{mol}/\text{m}^2/\text{s}$

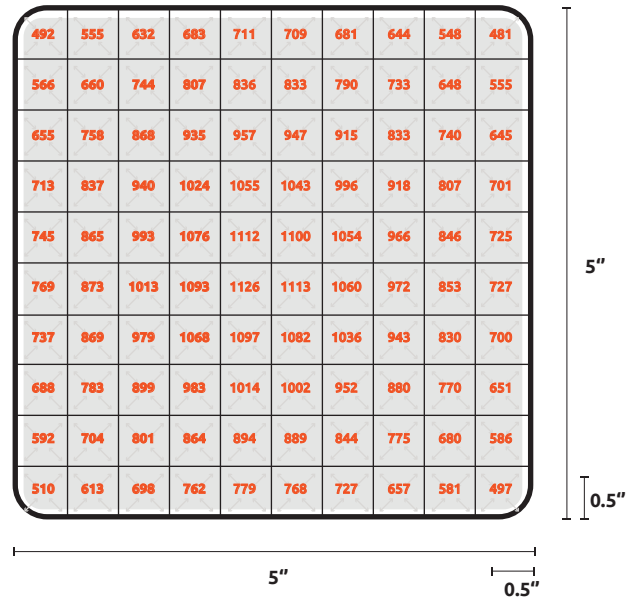
(P-TEK XT 1000W CO2 PRO LED + 4 X 100W IND. SUPP. LIGHT LED BARS PPF MAP)



HEIGHT TO TEST POINT 30"

CANOPY AVERAGE PPF 819  $\mu\text{mol}/\text{m}^2/\text{s}$

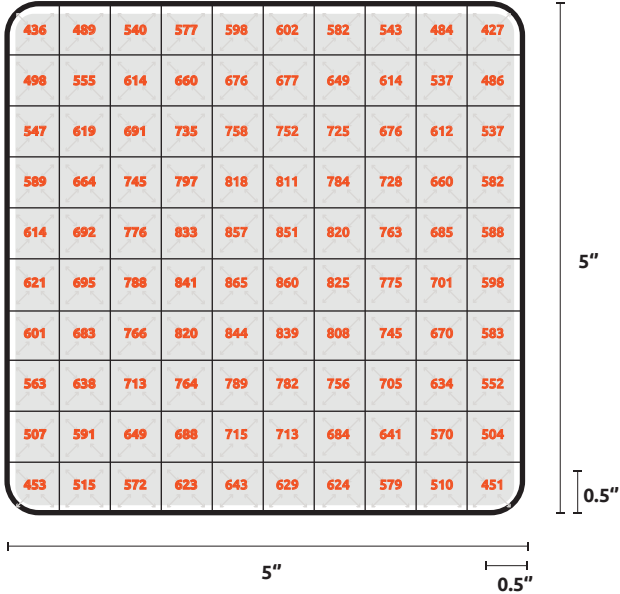
(P-TEK XT 1000W CO2 PRO LED + 4 X 100W IND. SUPP. LIGHT LED BARS PPF MAP)



HEIGHT TO TEST POINT 40"

CANOPY AVERAGE PPF 662  $\mu\text{mol}/\text{m}^2/\text{s}$

(P-TEK XT 1000W CO2 PRO LED + 4 X 100W IND. SUPP. LIGHT LED BARS PPF MAP)



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