

PHOTONTEK
HORTICULTURAL LIGHTING

X 600W PRO

FULL-SPECTRUM LED

The P-tek X 600W 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.

2.7
μmol

/ J EFFICIENCY

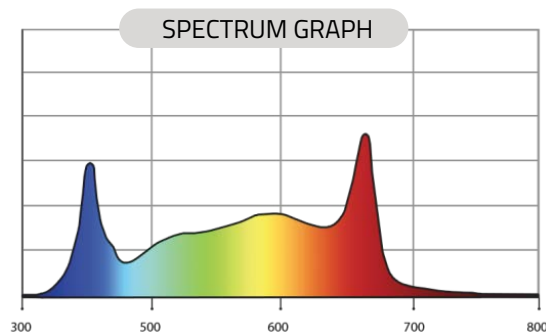
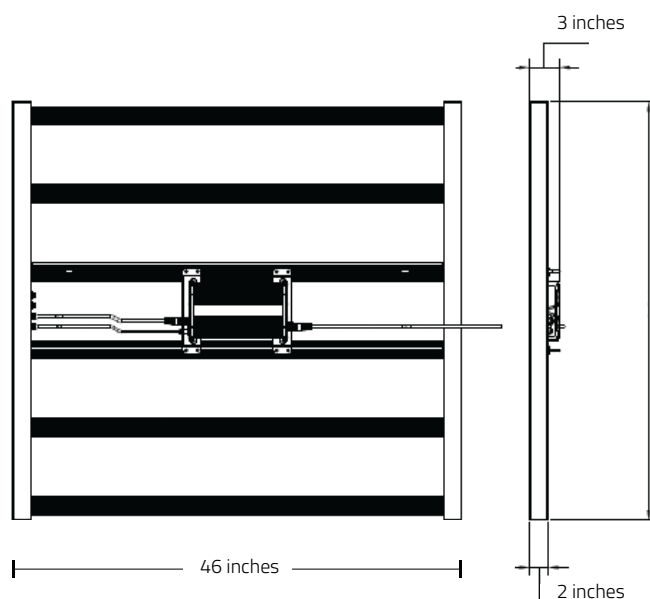


5 YEAR
WARRANTY

X 600W PRO

FULL-SPECTRUM LED

EFFICACY	2.7 $\mu\text{mol/J}$
PPF	1620 $\mu\text{mol/s}$
INPUT VOLTAGE	120-277V
POWER CONSUMPTION	600W
COVERAGE AREA	4' x 4' – 5' x 5'
APPLICATION	Multi-layer, Room, Tent
WATERPROOF & DUSTPROOF	IP65
LIFETIME (LED BARS)	60 000 hrs
LIGHT DISTRIBUTION	120°
LIGHT SOURCE	Osram & Lumileds Philips Diodes
DIODES RATIO	Red 15%, White 85%
DIODES EFFICIENCY	Osram Dark Red 660NM 3.3 $\mu\text{mol/J}$; Lumileds Philips White 2.9 $\mu\text{mol/J}$
DIMMABLE	OFF-25%-50%-75%-100% with 0-10V Light Dimmer (Included)
EXTERNAL CONTROL	P-TEK Digital Controller
WEIGHT	29.76 Lbs
DIMENSIONS	42.95" x 46.55" x 2.04"
SPECTRUM	Full Spectrum
THERMAL MANAGEMENT	Passive
BTU	(With Driver Attached): 2115 BTUs/h (With Driver Remote): 2047 BTUs/h
POWER FACTOR	>0.95
DRIVER LOCATION	Fixed in structure or detachable for remote use (Extension Cables Sold Separately)
WARRANTY	5 Years
CERTIFICATIONS	FCC, CSA, IC, IP65



INPUT CURRENT (A/W) PER DIMMING RANGE

POWER (DIMMING)	25%	50%	75%	100%
AMPS	0.65	1.3	1.96	2.61
WATTAGE	150W	300W	450W	600W



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:

- 6 x P-TEK 100W Full-Spectrum Magnet LED Bars
- 1 x P-TEK 600W Driver with Connecting Cables
- 1 x LED Structure with Connecting Cables
- 1 x Power Cable (NEMA 5-15P Plug for 120V)
- 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 X600W PRO PPFD MAPS

TEST AREA 5' X 5'

TEST POINTS 25

TEST EQUIPMENT INTEGRATING 2 METER SPHERE & EVERFINE PLA20

AMBIENT TEMPERATURE 25°

HEIGHT FROM CANOPY 5.9", 11.8", 19.7", 39.4", 59"

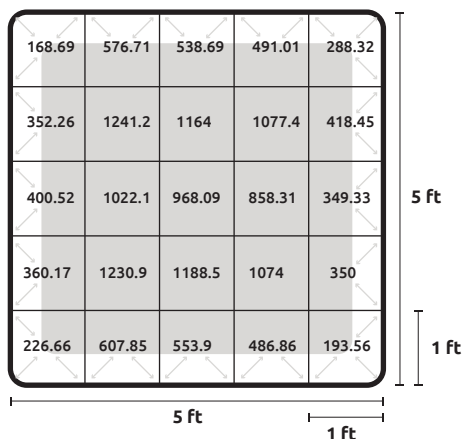
REFLECTION 0%

HEIGHT TO TEST POINT 5.9"

CANOPY AVERAGE PPFD

4'x4: 1091.61 $\mu\text{mol}/\text{m}^2/\text{s}$

5'x5: 647.5 $\mu\text{mol}/\text{m}^2/\text{s}$

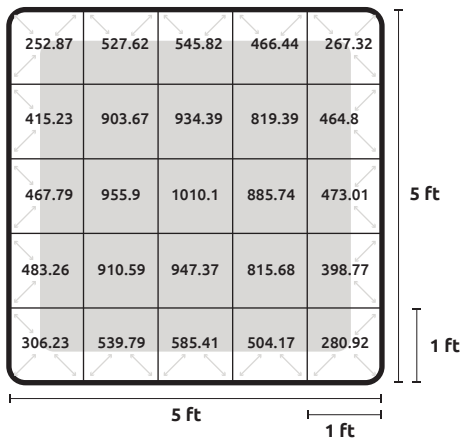


HEIGHT TO TEST POINT 11.8"

CANOPY AVERAGE PPFD

4'x4: 909.20 $\mu\text{mol}/\text{m}^2/\text{s}$

5'x5: 586.59 $\mu\text{mol}/\text{m}^2/\text{s}$

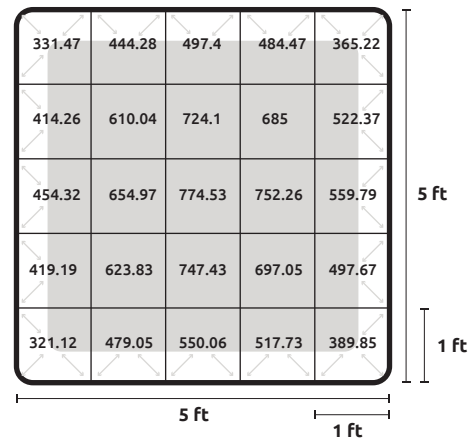


HEIGHT TO TEST POINT 19.7"

CANOPY AVERAGE PPFD

4'x4: 696.57 $\mu\text{mol}/\text{m}^2/\text{s}$

5'x5: 541.018 $\mu\text{mol}/\text{m}^2/\text{s}$

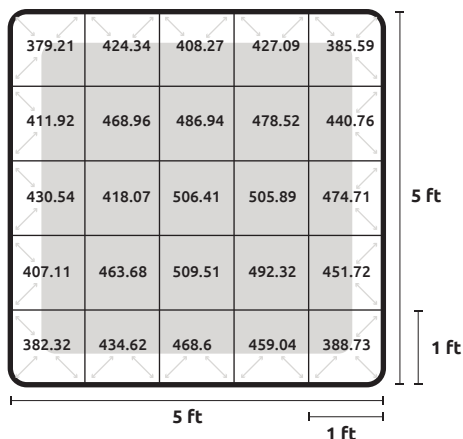


HEIGHT TO TEST POINT 39.4"

CANOPY AVERAGE PPFD

4'x4: 481.14 $\mu\text{mol}/\text{m}^2/\text{s}$

5'x5: 444.59 $\mu\text{mol}/\text{m}^2/\text{s}$



HEIGHT TO TEST POINT 59"

CANOPY AVERAGE PPFD

4'x4: 394.73 $\mu\text{mol}/\text{m}^2/\text{s}$

5'x5: 361.45 $\mu\text{mol}/\text{m}^2/\text{s}$

