

PHOTONTEK

HORTICULTURAL LIGHTING

X 465W PRO

FULL-SPECTRUM LED

The P-tek X 465W 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



X 465W PRO

FULL-SPECTRUM LED

EFFICACY 2.7 $\mu\text{mol}/\text{J}$

PPF 1256 $\mu\text{mol}/\text{s}$

INPUT VOLTAGE 120-270V

POWER CONSUMPTION 465W

COVERAGE AREA 3' x 3' - 4' x 4'

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 $\mu\text{mol}/\text{J}$;
Lumileds Philips White 2.9 $\mu\text{mol}/\text{J}$

DIMMABLE OFF-25%-50%-75%-100%
with 0-10V Light Dimmer (Included)

EXTERNAL CONTROL P-TEK Digital Controller

WEIGHT 24.25 Lbs

DIMENSIONS 39.29" x 35.43" x 2.92"

SPECTRUM Full Spectrum

THERMAL MANAGEMENT Passive

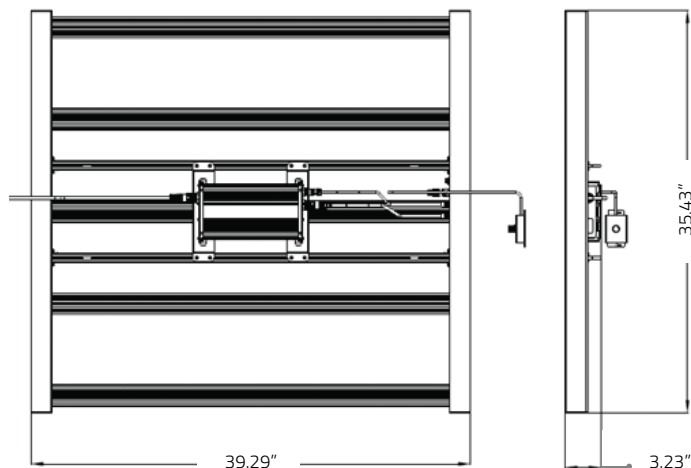
BTU (With Driver Attached): 1706 BTUs/h
(With Driver Remote): 1586 BTUs/h

POWER FACTOR >0.95

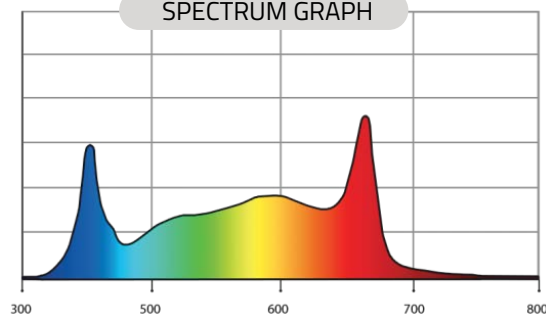
DRIVER LOCATION Fixed in structure or detachable
for remote use (Extension Cables
Sold Separately)

WARRANTY 5 Years

CERTIFICATIONS FCC, CSA, IC, IP65



SPECTRUM GRAPH



INPUT CURRENT (A/W) PER DIMMING RANGE

POWER (DIMMING)	25%	50%	75%	100%
AMPS	0.65	1.3	1.96	2.61
WATTAGE	116.3W	232.5W	348.8W	465W



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 465W 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

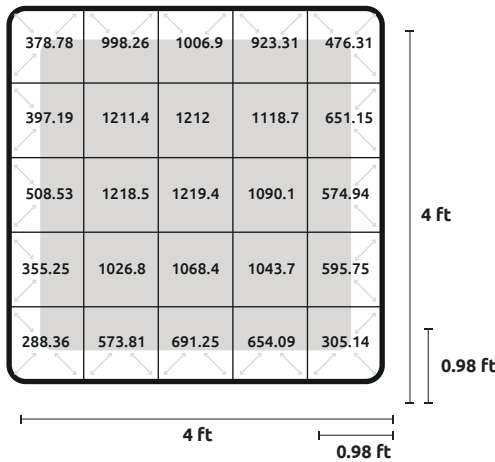
RECOMMENDED PPFD ($\mu\text{mol}/\text{m}^2/\text{s}$)

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+

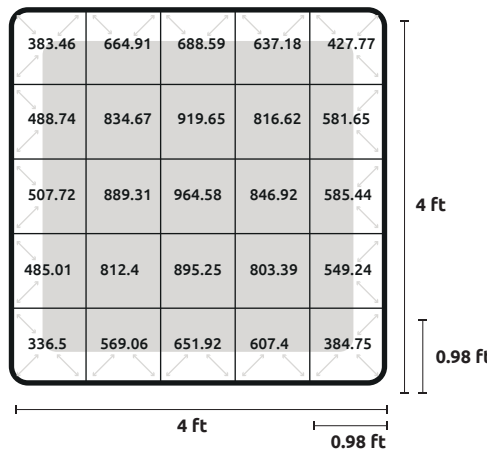
P-TEK X 465W PRO PPFD MAPS

- TEST AREA 4' X 4'
- 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%

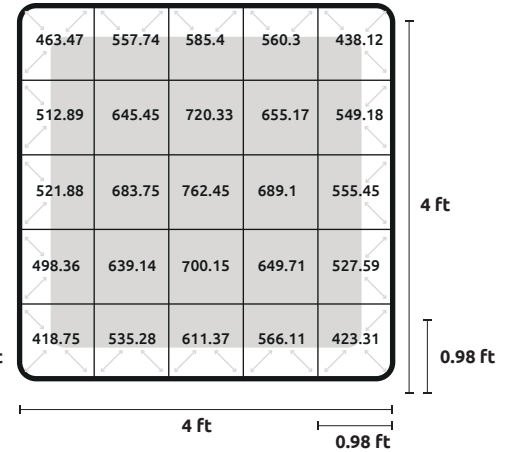
HEIGHT TO TEST POINT 5.9"
CANOPY AVERAGE PPFD 4'x4': 783.52 $\mu\text{mol}/\text{m}^2/\text{s}$



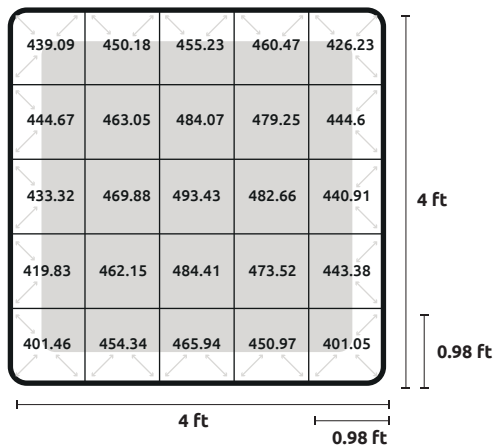
HEIGHT TO TEST POINT 11.8"
CANOPY AVERAGE PPFD 4'x4': 653.28 $\mu\text{mol}/\text{m}^2/\text{s}$



HEIGHT TO TEST POINT 19.7"
CANOPY AVERAGE PPFD 4'x4': 578.8 $\mu\text{mol}/\text{m}^2/\text{s}$



HEIGHT TO TEST POINT 39.4"
CANOPY AVERAGE PPFD 4'x4': 452.96 $\mu\text{mol}/\text{m}^2/\text{s}$



HEIGHT TO TEST POINT 59"
CANOPY AVERAGE PPFD 4'x4': 361.54 $\mu\text{mol}/\text{m}^2/\text{s}$

