



## PHOTON TEK Full Spectrum LED Warranty

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**PHOTONTEK**  
HORTICULTURAL LIGHTING

# X 465W PRO

## PHOTONTEK FULL-SPECTRUM LED

**The PhotonTek X 465W PRO** Only the highest-grade materials and components are used in PHOTONTEK's LED fixtures. PHOTONTEK fixtures have industry-leading performance, delivering safe, dependable light.

**2.7**  
**μmol**

// EFFICIENCY



### X 465W PRO

PHOTONTEK FULL-SPECTRUM LED

EFFICACY – 2.7 μmol/J

PPF – 1256 μmol/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  $\mu\text{mol/J}$ ; Lumileds Philips White 2.9  $\mu\text{mol/J}$

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

EXTERNAL CONTROL PHOTONTEK – Digital Controller

WEIGHT – 24.25 Lbs

DIMENSIONS – 39.29" x 35.43" x 2.92"

SPECTRUM – Full Spectrum

THERMAL MANAGEMENT – Passive

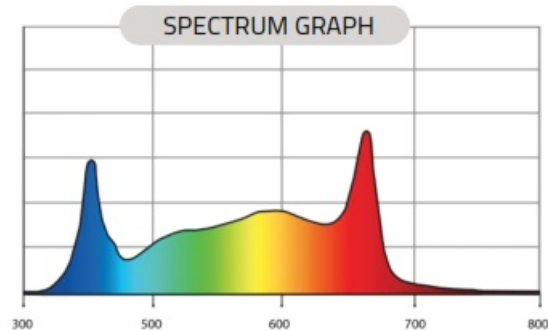
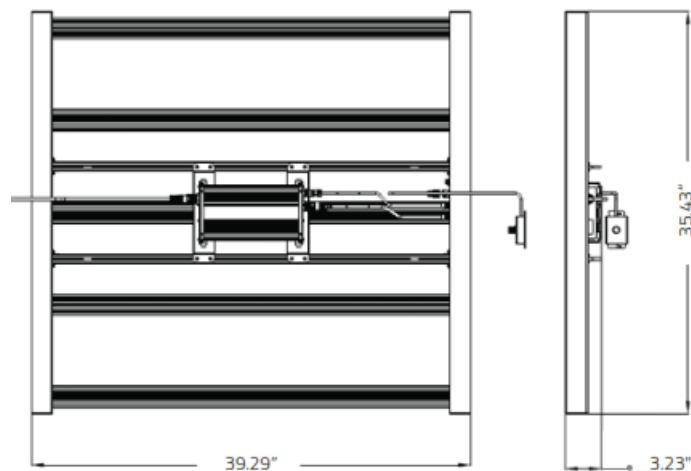
BTU (With Driver Attached): 1706 BTUs/h (With Driver Remote): 1586 BTUs/h

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



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

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

## ITEMS INCLUDED IN THE BOX:

- 6 x PHOTONTEK 100W Full-Spectrum Magnet LED Bars
- 1 x PHOTONTEK 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 (mol/m<sup>2</sup>/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 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"

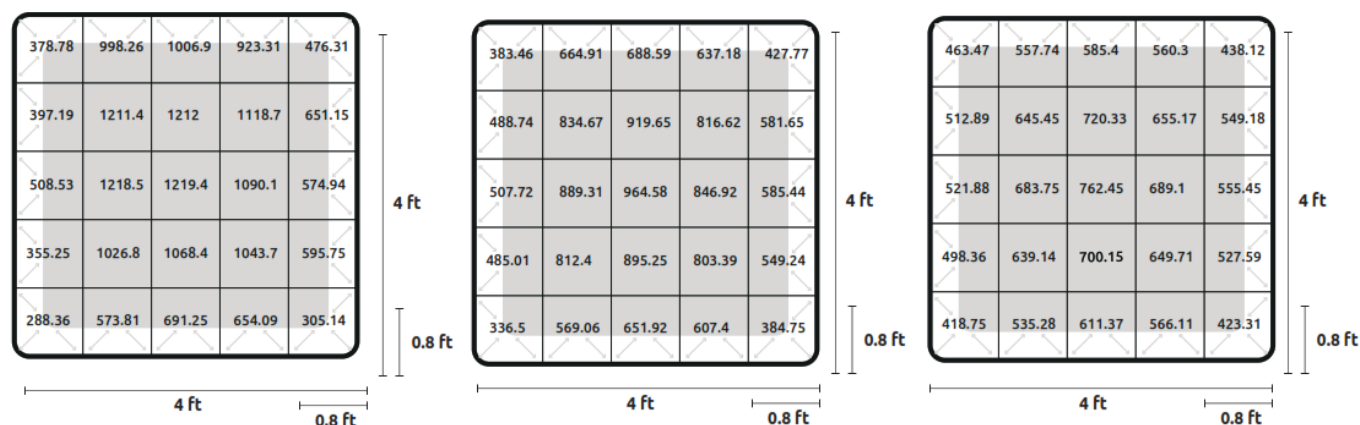
CANOPY AVERAGE PPFD 4'x4': 783.52  $\mu\text{mol}/\text{m}^2/\text{s}$

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  $\mu\text{mol}/\text{m}^2/\text{s}$

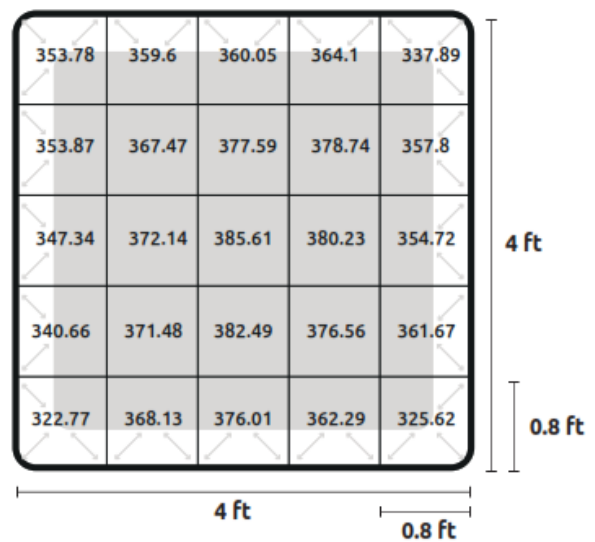
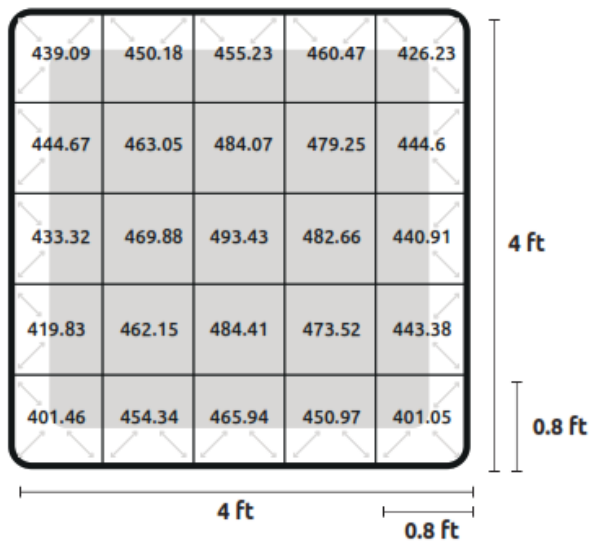


HEIGHT TO TEST POINT 39.4"

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  $\mu\text{mol}/\text{m}^2/\text{s}$



General contact:  
[info@photontek-lighting.com](mailto:info@photontek-lighting.com)

FOR MORE INFORMATION ON LUMATEK PRODUCTS VISIT [WWW.PHOTONTEK-LIGHTING.COM](http://WWW.PHOTONTEK-LIGHTING.COM)

## Documents / Resources



[PHOTON TEK Full Spectrum LED](#) [pdf] Warranty  
 Full Spectrum LED, X 465W PRO

## References

- [LED & Conventional lighting solutions | Philips lighting](#)
- [PHOTONTEK Lighting | LED lighting | LED grow lights | LED Fixtures](#)

Manuals+