

PHOTONTEK

HORTICULTURAL LIGHTING

SQ200W PRO LED FULL-SPECTRUM LED

The **P-TEK SQ200W 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.

2.5
μmol

/ J EFFICACY

508
μmol

/ s PPF

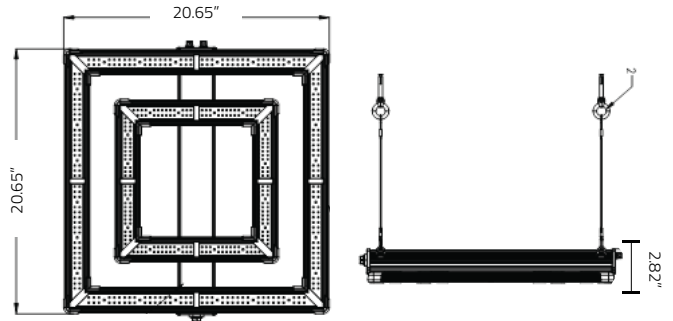


3 YEAR
WARRANTY

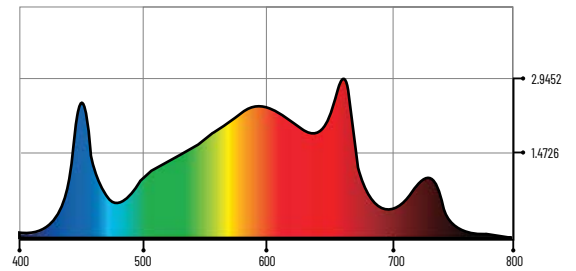
SQ200W PRO LED

FULL-SPECTRUM LED

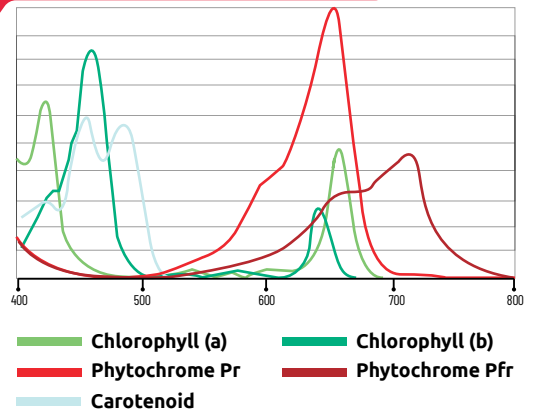
- Product Code: PTEKLED023
- Efficacy: 2.5 $\mu\text{mol}/\text{J}$
- PPF: 508 $\mu\text{mol}/\text{s}$
- Input Voltage: 120-277V, 50-60Hz
- Input Power: 205W (100%)
- Input Current (100%): 1.76A (120V); 0.9A (230V); 0.75A (277V)
- Footprint: Up to 2.6'x2.6'
- Application: Multi-layer, Room, Tent
- Waterproof & Dustproof: IP65
- Lifetime: 60 000 Hrs
- Light Distribution: 120°
- Light Source: Higher Spec 4000K White, 660nm Red & 730nm Far Red Diodes
- CCT: 4000K
- Quantity of Diodes Total: White 288; Red 12; 24 Far Red
- Diodes Power Proportion: White 74%; Red 14%; Far Red 12%
- Diodes Efficiency: White 2.6 $\mu\text{mol}/\text{J}$; Red 3.0 $\mu\text{mol}/\text{J}$; Far Red 2.2 $\mu\text{mol}/\text{J}$
- Dimmable: OFF-25%-50%-75%-100% with 0-10V Light Dimmer (Included)
- External Control: With P-Tek Digital Controller or Universal Controller 0-10V
- Weight: 8.82 Lbs
- Dimensions: 20.65"x20.65"x2.82"
- Spectrum: Full Spectrum
- Thermal Management: Passive Cooling
- Power Factor: 0.95
- Max. Ambient Temperature (@ 200W Power): 25°C
- BTU: 703 BTUs/h
- Warranty: 3 Years
- Certifications: IP65, Rohs Directive
- CSA: ANSI/CAN/UL 8800:2019
- FCC: FCC PART15 SUBPART B:2017
- IC: ICES-005 Issue 5:2018



SQD SPECTRUM GRAPH



ABSORPTION CURVES OF PLANTS



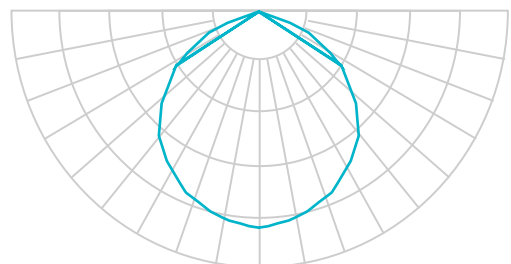
INPUT CURRENT (A/W) PER DIMMING RANGE

Input Voltage (V)	Dimming Ratio	Input Power (W)	Input Current (A)
Vmains=120VAC	100%	208	1.75
	75%	152	1.3
	50%	99	0.83
	25%	50	0.43
Vmains=240VAC	100%	203	0.9
	75%	150	0.67
	50%	98	0.45
	25%	49.5	0.3
Vmains=277VAC	100%	202	0.76
	75%	149.5	0.6
	50%	97.8	0.45
	25%	49	0.31

DISTRIBUTION CURVE FLUX

AVERAGE BEAM ANGLE (50%) : 117.9 DEG

C90/270, 117.9



FULL CONTROL

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



WHAT IN THE BOX:

- 1 x SQ200W Pro LED Fixture with Driver
- 1 x Power Cable 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

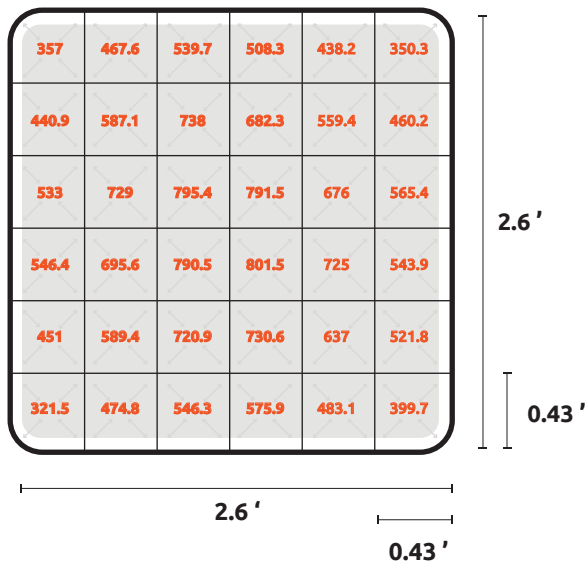
RECOMMENDED PPFD ($\mu\text{mol}/\text{m}^2/\text{s}$)

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+

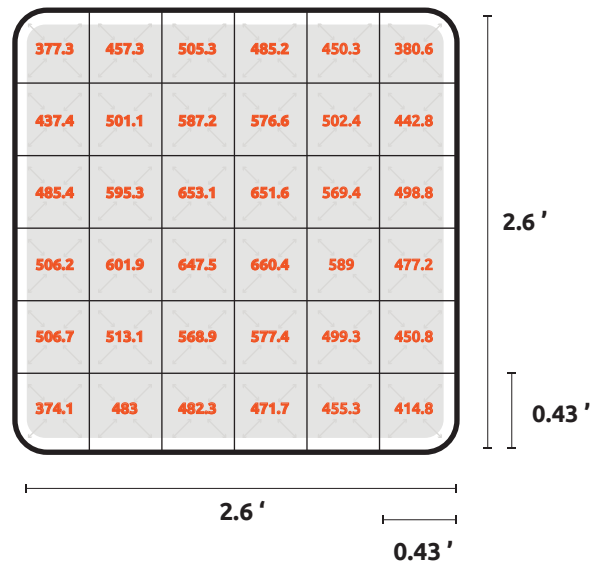
PHOTONTEK SQ200W PRO PPFD MAPS

- TEST AREA 2.6' X 2.6'
- TEST POINTS 36
- TEST EQUIPMENT INTEGRATING 2 METER SPHERE & LI-COR 180
- AMBIENT TEMPERATURE 25°
- HEIGHT FROM CANOPY 12", 16", 20", 40"
- REFLECTION 0%

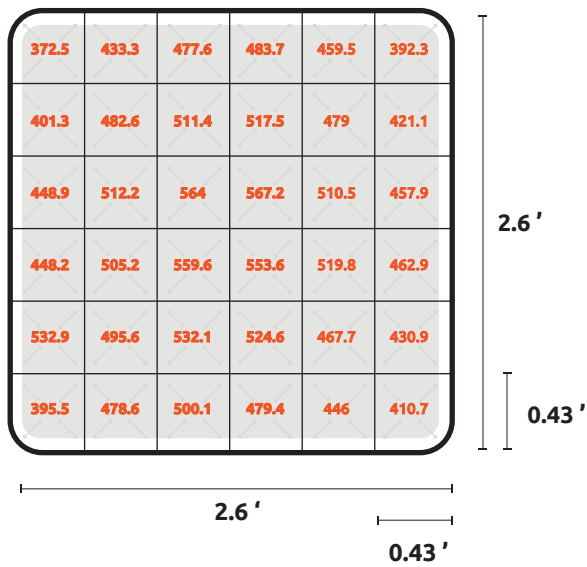
HEIGHT TO TEST POINT 12"
 CANOPY AVERAGE PPFD 577.1 $\mu\text{mol/s/m}^2$



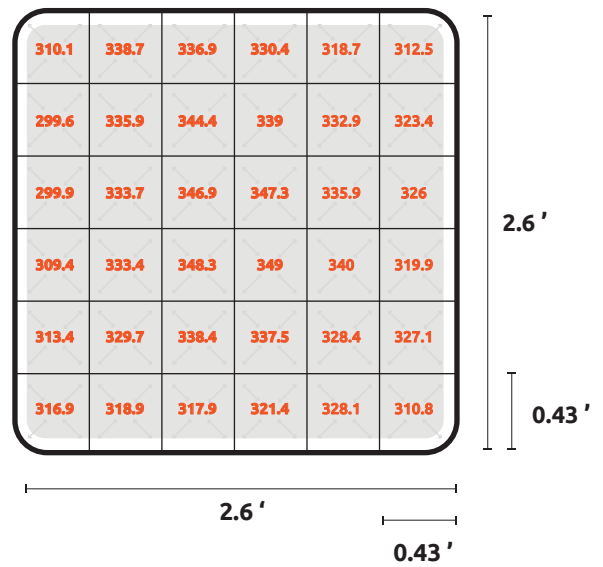
HEIGHT TO TEST POINT 16"
 CANOPY AVERAGE PPFD 510.7 $\mu\text{mol/s/m}^2$



HEIGHT TO TEST POINT 20"
 CANOPY AVERAGE PPFD 478.8 $\mu\text{mol/s/m}^2$



HEIGHT TO TEST POINT 40"
 CANOPY AVERAGE PPFD 327.8 $\mu\text{mol/s/m}^2$



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