

LUMATEK

PROFESSIONAL LIGHTING

ATS200W PRO



The Lumatek ATS Pro series is a range of full spectrum LED grow lights featuring higher efficiency top bin White, Red & Far Red diodes and dimmable Lumatek drivers. This light-weight fixture is ideal as sole-source or supplemental grow lighting for propagation, vegetative and flowering growth periods of indoor-grown crops.

2.5 $\mu\text{mol/J}$

508 $\mu\text{mol/s}$ total output

Full-Spectrum

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

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



ATS200W PRO

PRODUCT CODE LUMLED200P

EFFICACY 2.5 $\mu\text{mol/J}$

PPF 508 $\mu\text{mol/s}$

INPUT VOLTAGE 220-240V, 50-60Hz

INPUT POWER 208W (100% 230V)

FOOTPRINT Up to 0.8x0.8m

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 $\mu\text{mol/J}$; Red 3.0 $\mu\text{mol/J}$; Far Red 2.2 $\mu\text{mol/J}$

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

EXTERNAL CONTROL With Lumatek Digital Panel Plus 2.0 or Universal Controller 0-10V

WEIGHT 4 Kg

DIMENSIONS 524.5 x 524.5 x 71.6mm

SPECTRUM Full Spectrum +

THERMAL MANAGEMENT Passive cooling

POWER FACTOR 0.95

MAX. AMBIENT TEMPERATURE (@200W POWER) 25°C

BTU 703 BTUs/h

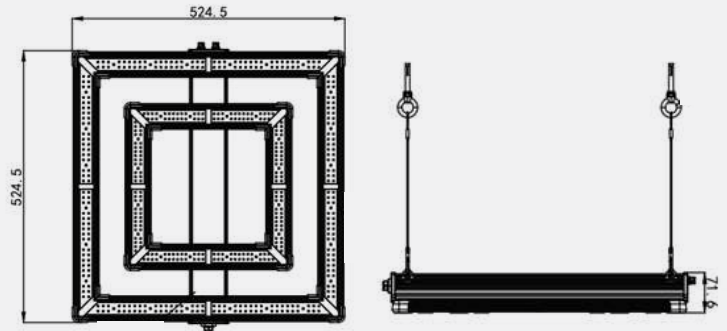
WARRANTY 3 Years

CERTIFICATIONS IP65, Rohs Directive 2011/65/EU And (EU)2015/863)
LED Fixture: CE Safety Standard: EN 60598-1:2015+A1:2018, EN 60598-2-1:1989, EN 62031:2020, EN 62493:2015, EN 62471:2008; CE EMC Standard: EN 55015:2019, EN 61547:2009, EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019

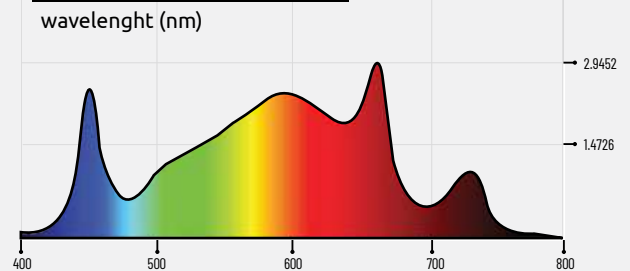
LED Driver: CE Safety Standard: EN 60598-1:2015+A1:2018, EN 60598-2-1:1989, EN 62031:2020, EN 62493:2015, EN 62471:2008; CE EMC Standard: EN 61347-1:2015, EN 61347-2-13:2014+A1:2017, EN 62493:2015

INPUT CURRENT (A/W) PER DIMMING RANGE

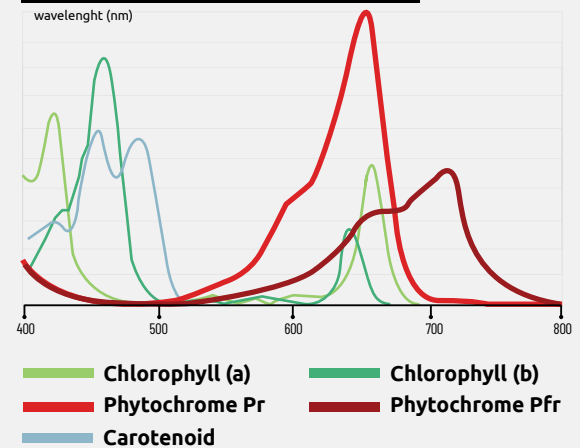
@ 230V		
DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
100%	208	0.92
75%	150	0.67
50%	96	0.44
25%	50	0.27



SQD SPECTRUM GRAPH



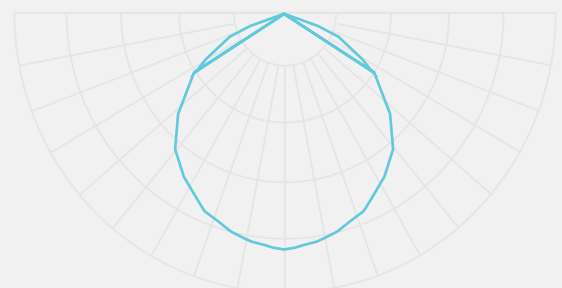
ABSORPTION CURVES OF PLANTS



DISTRIBUTION CURVE FLUX

AVERAGE BEAM ANGLE (50%) : 117.9 DEG

C90/270, 117.9



EXTERNAL CONTROL

The ATS Pro fixtures can also be externally controlled with a Lumatek digital lighting controller (Digital Panel Plus 2.0) featuring light timing, automated dimming (1% increments), temperature safety control, Sunrise & Sunset Mode for up to 100 fixtures per controller



ITEMS INCLUDED :

- 1 x ATS200W Pro LED Fixture with Driver
- 1 x Power Cable 230V
- 1 x 0-10V Light Dimmer + Velcro
- 2 x Metal Cable Hangers
- 1 x Manual

PPFD: PHOTOSYNTHETIC PHOTON FLUX DENSITY ($\mu\text{mol}/\text{m}^2/\text{s}$)

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+

LUMATEK ATS200W PRO PPFD MAPS

TEST AREA **0.8M x 0.8M**

TEST POINTS **36**

TEST EQUIPMENT **INTEGRATING 2 METER SPHERE & LI-COR 180**

AMBIENT TEMPERATURE **25°**

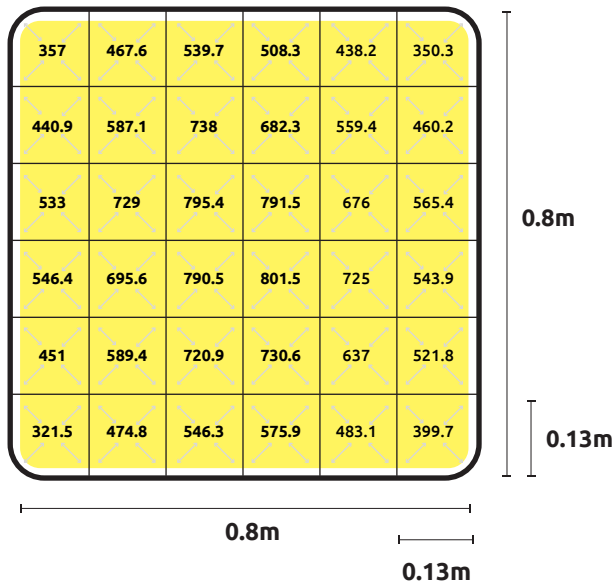
HEIGHT FROM CANOPY **30CM, 40CM, 50CM, 100CM**

REFLECTION **0%**

FIXTURE POWER **100%**

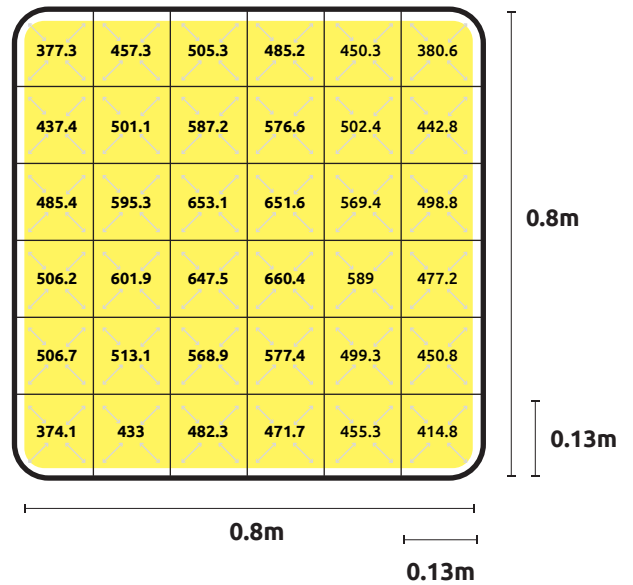
HEIGHT TO TEST POINT **30cm**

CANOPY AVERAGE PPFD **577.1 $\mu\text{mol/s/m}^2$**



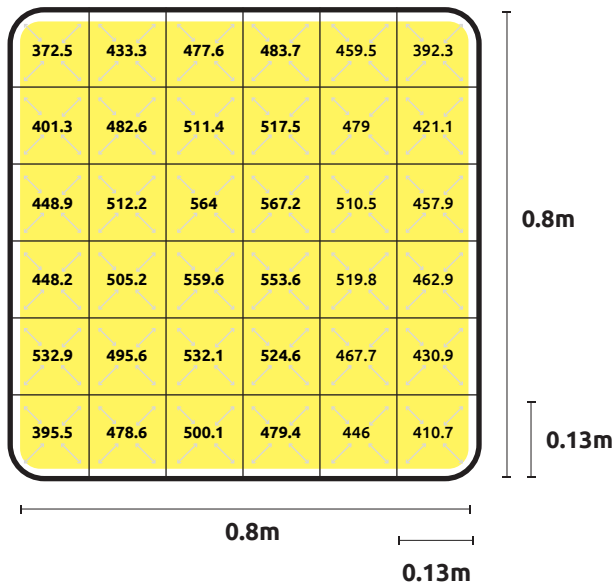
HEIGHT TO TEST POINT **40cm**

CANOPY AVERAGE PPFD **510.7 $\mu\text{mol/s/m}^2$**



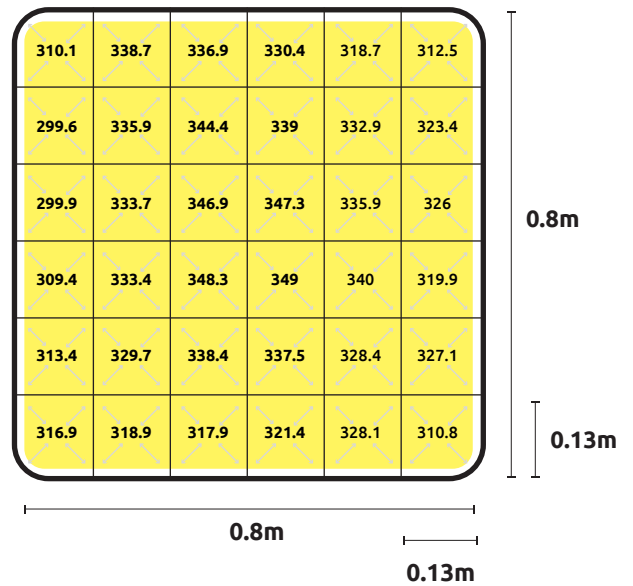
HEIGHT TO TEST POINT **50cm**

CANOPY AVERAGE PPFD **478.8 $\mu\text{mol/s/m}^2$**



HEIGHT TO TEST POINT **100cm**

CANOPY AVERAGE PPFD **327.8 $\mu\text{mol/s/m}^2$**



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FOR MORE INFORMATION ON LUMATEK PRODUCTS
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