

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

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

Full-Spectrum



# ATS200W PRO

**PRODUCT CODE** LUMLED200P

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

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

**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  $\mu\text{mol}/\text{J}$ ; 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 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

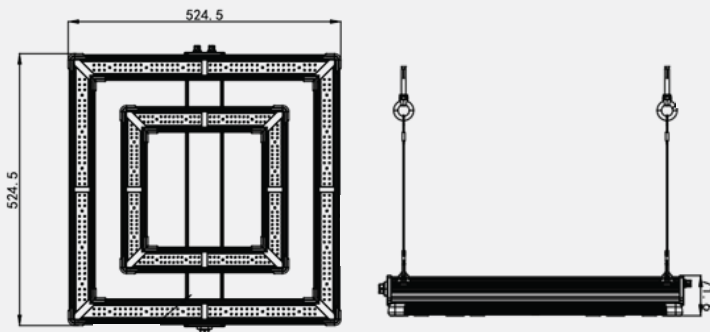
**CERTIFICATIONS** IP65, Rohs Directive 2011/65/EU And (EU)2015/863)

**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

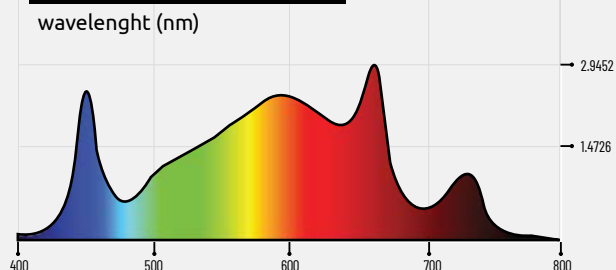
**LED Driver:** CE Safety Standard: EN 60598-1:2015+A1:2018, EN 60598-2-1:1989, EN 62031:2020, EN 62493:2015, EN 62471:2008; CE EMC Standard: EN 61347-1:2015, EN 61347-2-13:2014+A1:2017, EN 62493:2015

## INPUT CURRENT (A/W) PER DIMMING RANGE

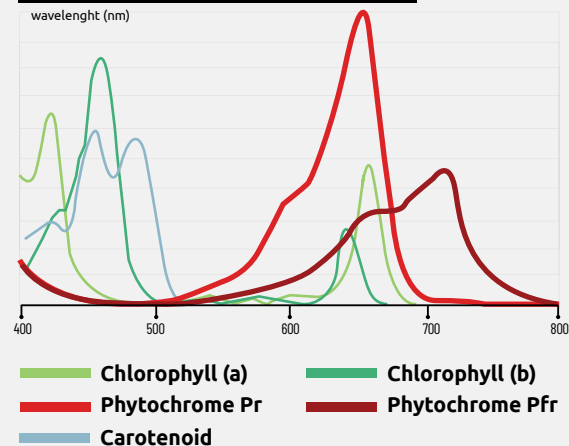
@ 230V		
DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
100%	208	0.92
75%	150	0.67
50%	96	0.44
25%	50	0.27



## SQD SPECTRUM GRAPH



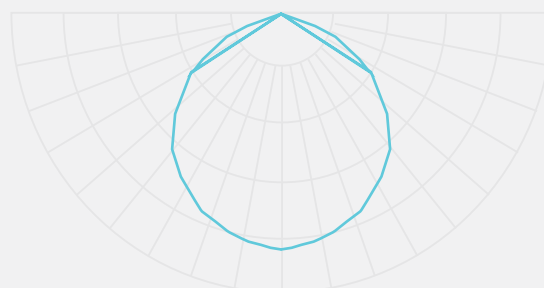
## ABSORPTION CURVES OF PLANTS



## 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**

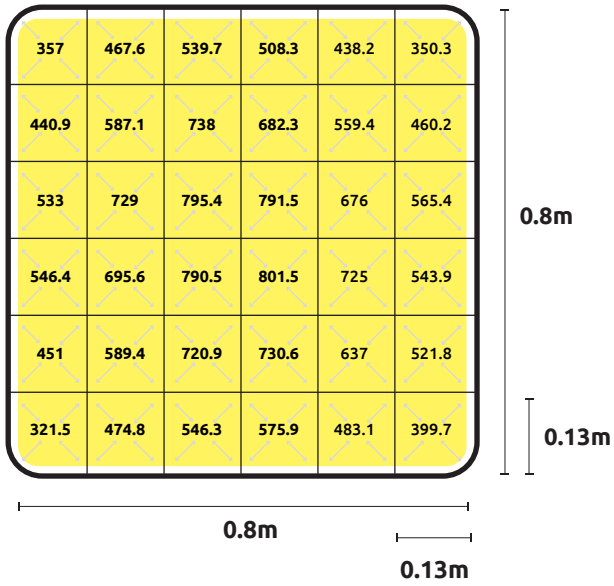
AMBIENT TEMPERATURE **25°**

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

REFLECTION **0%**

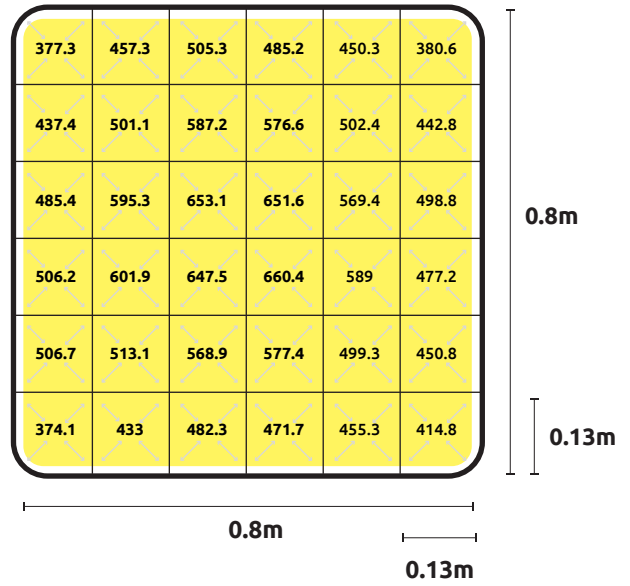
HEIGHT TO TEST POINT **30cm**

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



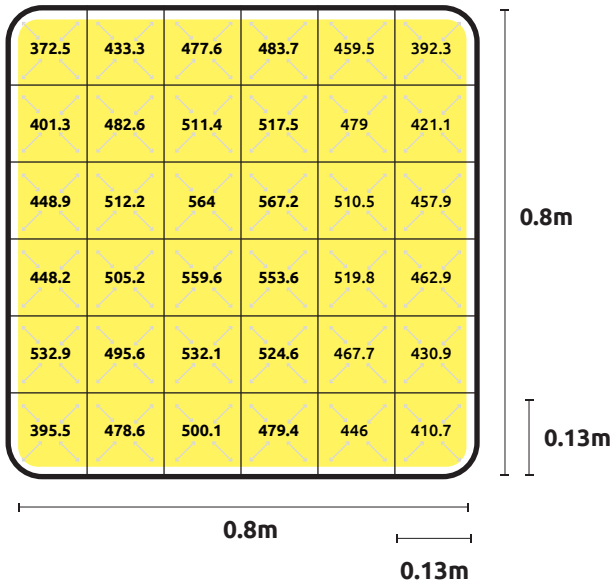
HEIGHT TO TEST POINT **40cm**

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



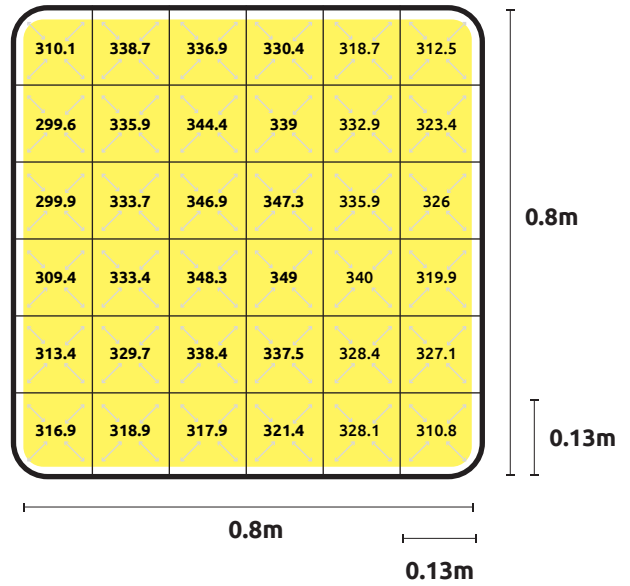
HEIGHT TO TEST POINT **50cm**

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



HEIGHT TO TEST POINT **100cm**

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



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