

LUMATEK

PROFESSIONAL LIGHTING

ATS300W 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.

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

816 $\mu\text{mol/s}$ total output

Full-Spectrum

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

816
 $\mu\text{mol/s}$ PPF



ATS300W PRO

PRODUCT CODE LUMLED300P

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

PPF 816 $\mu\text{mol/s}$

INPUT VOLTAGE 220-240V, 50-60Hz

INPUT POWER 310W (100% 230V)

FOOTPRINT Up to 1.0x1.0m

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 576; Red 24; 24 Far Red

DIODES POWER PROPORTION White 74%; Red 14%; Far Red 12%

DIODES EFFICIENCY White 2.8 $\mu\text{mol/J}$; Red 3.2 $\mu\text{mol/J}$; 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 5.2Kg

DIMENSIONS 559.5 x 559.5 x 71.6mm

SPECTRUM Full Spectrum +

THERMAL MANAGEMENT Passive cooling

POWER FACTOR 0.95

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

BTU 1051 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

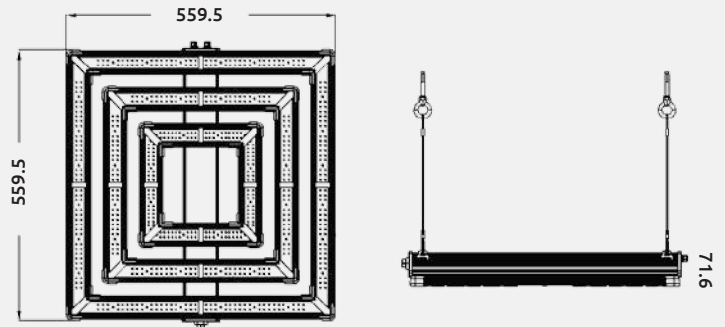
60598-2-1:1989, EN 62031:2020, EN 62493:2015, EN 62471:2008; CE

EMC Standard: EN 61347-1:2015, EN 61347-2-13:2014+A1:2017, EN

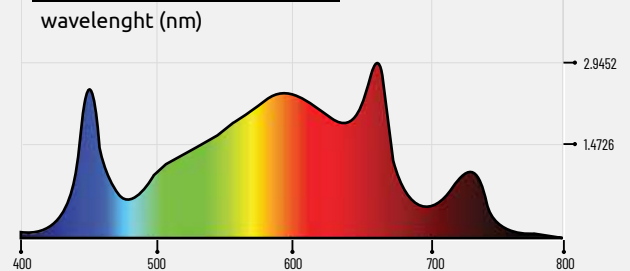
62493:2015+61347-1:2015, EN 61347-2-13:2014+A1:2017, EN 62493:2015

INPUT CURRENT (A/W) PER DIMMING RANGE

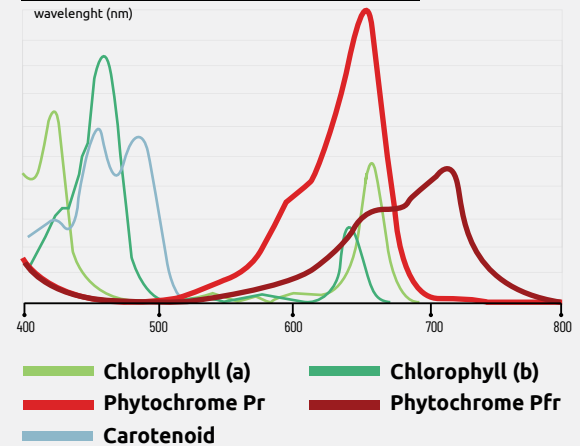
@ 230V		
DIMMING	INPUT POWER (W)	INPUT CURRENT (A)
100%	307	1.35
75%	227	1
50%	150	0.68
25%	80	0.4



SQD SPECTRUM GRAPH



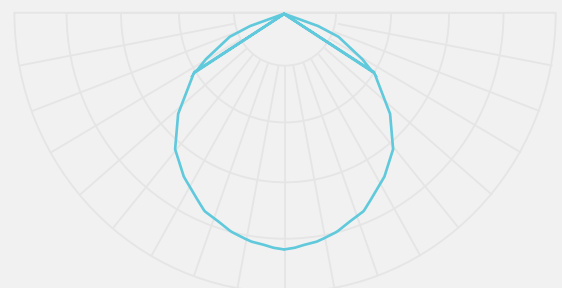
ABSORPTION CURVES OF PLANTS



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 ATS300W 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 ATS300W PRO PPFD MAPS

TEST AREA 1.0M x 1.0M

TEST POINTS 49

TEST EQUIPMENT INTEGRATING 2 METER SPHERE & LI-COR 180

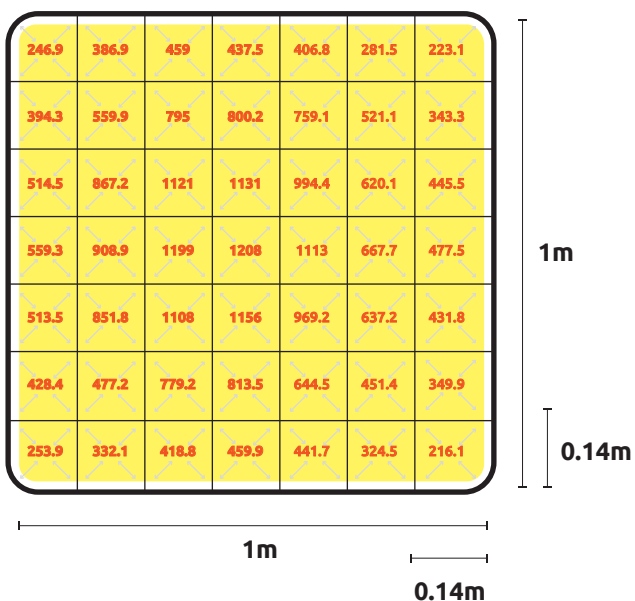
AMBIENT TEMPERATURE 25°

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

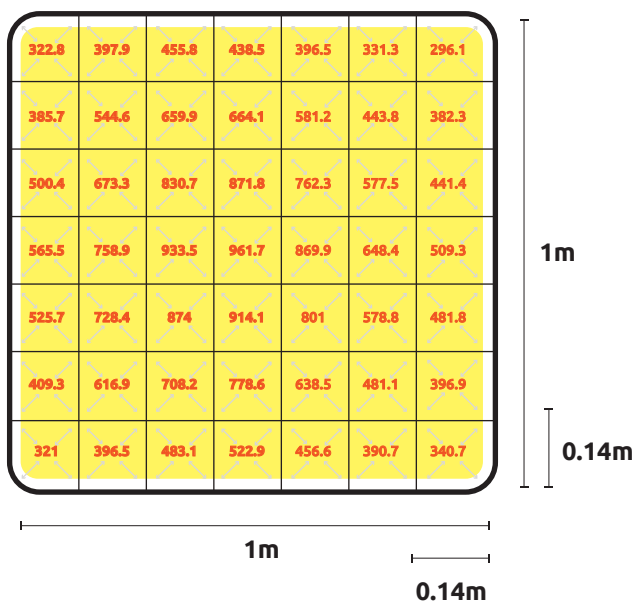
REFLECTION 0%

FIXTURE POWER 100%

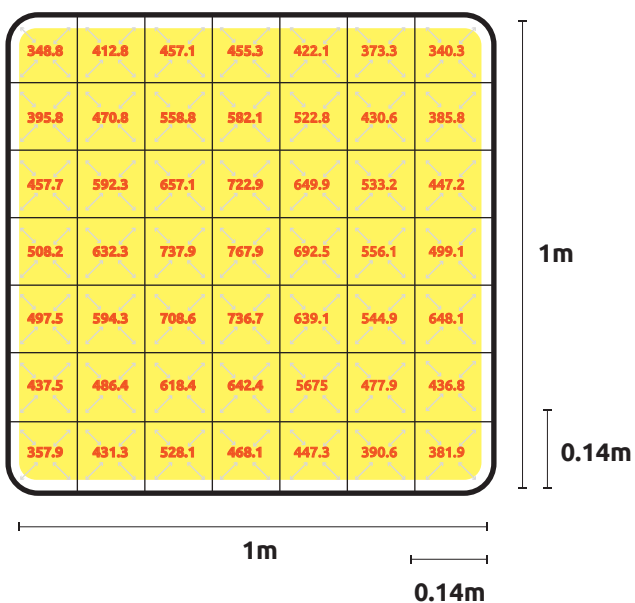
HEIGHT TO TEST POINT **30cm**
CANOPY AVERAGE PPFD **622.46 $\mu\text{mol/s/m}^2$**



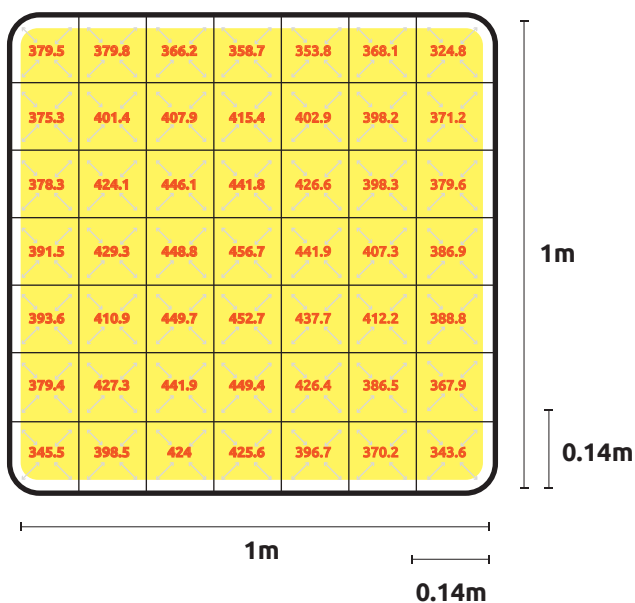
HEIGHT TO TEST POINT **40cm**
CANOPY AVERAGE PPFD **572.45 $\mu\text{mol/s/m}^2$**



HEIGHT TO TEST POINT **50cm**
CANOPY AVERAGE PPFD **524.06 $\mu\text{mol/s/m}^2$**



HEIGHT TO TEST POINT **100cm**
CANOPY AVERAGE PPFD **401.80 $\mu\text{mol/s/m}^2$**



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