



SolarStorm 880



Product Specification

Electrical Characteristics

Operating Voltage	90-277 VAC 50/60Hz
Total Power Consumption:	
• Veg Mode	475 Watts
• Bloom Mode	650 Watts
• Bloom Mode + UVB	680 Watts
Power Factor	0.99
Max Current at input (at 90V)	7.6 Amps

LED Characteristics

Max power per LED	5W
Total number of LEDs	176
LED color blend	Proprietary OptiGrow® Blend
LED board	.040" Aluminum Metal Core PCB

LED color spectrum (dominant wavelengths):

• Deep Blue	440nm
• Blue	470nm
• Red	620nm
• Deep Red	665nm
• Warm White	3100K
• UVB	285-315nm

LED Drivers

Type of driver	Custom Built Constant Current Mode
Number of drivers	8
Max power per driver	100 Watts

Luminous Output Characteristics*

PAR Output Measured in adjusted* µmoles/m ² /s at center	
Distance from light:	Value
12 inches	3,694
18 inches	2,439
24 inches	1,596

Recommended Coverage Area

Bloom (20"-30" distance)	Up to 4' X 4'
Veg (Up to 6' above plants)	Up to 7' x 7'

Dimensions & Weight

Length x Width x Height	23" X 18" X 5"
Weight	32 lbs

Expected Life Span

LED Expected Life Span	80,000+ Hours
LED Expected Output After 50,000 Hrs	> 90%
Cooling Fan Life Span	50,000 Hrs MTBF

Operating Requirements

Operating Temperature	-15°C to 40°C (5°F to 104°F)
Operating Position	Light Facing Down

Warranty

Limited 3 year warranty

* Luminous output measured using a spectrometer-radiometer with NIST traceable calibration (calibration certificate available upon request.) Measurements are adjusted to account for plant spectral absorption according to DIN 5031-10. For details on our luminous output measurements and calculation techniques, please visit our website: www.californialightworks.com or contact us.