



# SolarStorm 440



## Product Specification

### Electrical Characteristics

Operating Voltage	90-277 VAC 50/60Hz
Total Power Consumption:	
• Veg Mode	235 Watts
• Bloom Mode	320 Watts
• Bloom Mode + UVB	350 Watts
Power Factor	0.99
Typical Current:	1.46A (@240V) – 2.92A (@120V)

### LED Characteristics

LED Emitter Type	OSRAM SSL
Total number of LEDs	144
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	4
Max power per driver	100 Watts

### Luminous Output Characteristics\*

PAR Output Measured in adjusted* µmoles/m <sup>2</sup> /s at center	
Distance from light:	Value
12 inches	2,570
18 inches	1,389
24 inches	832

### Recommended Coverage Area

Bloom (16"-24" distance)	Up to 3' X 3'
Veg (Up to 5' above plants)	Up to 6' x 6'

### Dimensions & Weight

Length x Width x Height	15" X 18" X 5"
Weight	18 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
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\* 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](http://www.californialightworks.com) or contact us.