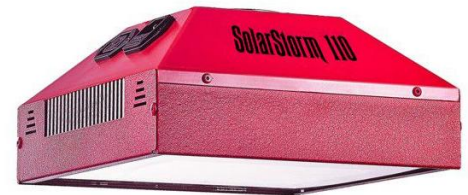# SolarStorm 110

110W LED Grow Light

- 36 high power OSRAM emitters
- OptiGrow® Spectrum
- Uniform 80 Degree Primary Lenses
- Coverage Area up to 3' x 3'

Clever chainable design allows up to 20 SolarFlare 110 units to be powered from the same plug using a single timer

Product Specification

Electrical Characteristics	
Operating Voltage	90-277VAC / 50-60Hz
Total Power Consumption:	90 Watts
Power Factor	0.99
Typical Current: 0.38A (@240V), 0.75A (@120V)	

LED Characteristics	
LED emitter type	OSRAM SSL
Total number of LEDs	36
LED color blend	Proprietary OptiGrow® Blend
LED board	.040" Aluminum Metal Core PCB
LED color spectrum (dominant wavelengths):	
• Deep Blue	450nm
• Blue	470nm
• Red	620nm
• Deep Red	665nm
• Warm White	3100K

LED Drivers	
Type of driver	Custom Built Constant Current Mode
Number of drivers	1
Max power per driver	100 Watts

Luminous Output Characteristics*	
PAR Output Measured in adjusted* µmoles/m²/s at center	
Distance from light:	Value
12 inches	920
18 inches	441
24 inches	253

Recommended Coverage Area	
	Up to 3' x 3' (Veg)

Dimensions & Weight	
Length x Width x Height	9" X 9" X 4"
Weight	7 lbs

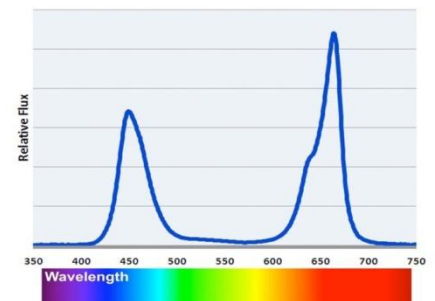| Expected Life Span	
LED Expected Life Span	80,000+ Hours
LED Expected Output After 50,000 Hrs	> 90%
Cooling Fan Life Span	50,000 Hrs MTBF

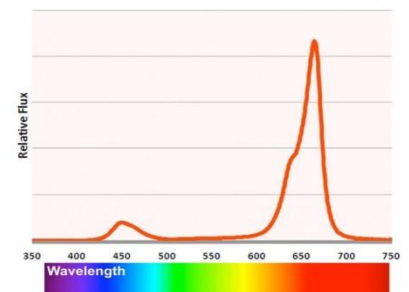| Operating Requirements	
Operating Temperature	-15°C to 40°C (5°F to 104°F)
Operating Position	Light Facing Down

Warranty	
Limited 3 year warranty	

2 Spectral Blends

VegMaster

BloomBooster

* Luminous output measured using a spectro-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