# CALIFORNIA LIGHTWORKS™

# 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 |
| **Max Current at input (at 90V)** | 3.9 Amps |

### LED Characteristics

| Max power per LED | 5W |
|---|---|
| Total number of LEDs | 88 |
| 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/m²/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 |
|---|

* 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.