



The leader in smart horticultural lighting.



“Our decision to go with LumiGrow was based on **cost and **light quality**.”**

— Casey Seals
Greenhouse Operations Manager, University of Wyoming



LumiGrow ES165™

Power Meets Efficiency LumiGrow's 165-Watt Grow Light

The LumiGrow ES165 solution makes professional-grade technology right at home in grow tents and hobby greenhouses. The ES165 packs in the features LumiGrow is known for, from full PAR spectrum light to the industry's most powerful LEDs, in a small-profile, wallet-friendly package. Energy-efficient LumiGrow solutions enable growers to achieve the advantages of supplemental lighting without the high operating costs. That's why LumiGrow is the considered choice of expert flower and produce growers around the globe.

Thriving Crops

You'll make the most of your greenhouse, grow tent or other growing space because the LumiGrow ES165 provides uniform light distribution without harmful hot spots. In addition, LumiGrow lights run 70% cooler than high-intensity discharge (HID) lights, eliminating plant damage and problems related to unmanaged temperatures. Hot-running HID lights stress plants as evidenced by high water and nutrient demand. By contrast, plants grow safely at any distance from LumiGrow lights.

Wallet Friendly

The energy-efficient LumiGrow ES165 fixture typically costs 40% less to operate compared to HID lamps. The all-in-one LumiGrow ES165 solution also eliminates the need for ballasts and reflectors and minimizes cooling loads, further accelerating your payback.

Indoor growers see electrical bills trimmed by approximately half, month after month, year after year.

Simple Installation and Operation

The LumiGrow system requires no custom configuration and seamlessly operates independently or alongside ordinary lights. The experts at LumiGrow can help you determine your lighting plan based on factors including crop variety, growing environment, daily light integral and whether the ES165 will be used as a primary or supplemental lighting source. Individually adjustable Red and Blue balance knobs enable precise spectral control for expert gardeners. Plus, LumiGrow ES165 lights last up to 10 times longer than HID lights without degradation, which means your investment in LumiGrow will continue to reward you over time.

How It Works

Ordinary lights squander more than half the energy they consume because they emit broad swaths of the color spectrum that are useless to plants. The LumiGrow ES165 system emits only those portions of the color spectrum that trigger healthy plant responses. In addition to concentrated 450-475nm (blue) and 625-660nm (red) wavelengths, the LumiGrow ES165 delivers spectra throughout the photosynthetically active region (PAR).

Applications

- Hobby Greenhouses
- Indoor and Vertical Farms
- Grow Tents
- Difficult Areas, e.g. Corners



Boost healthy crop yields and cut electrical costs.
Contact **LumiGrow (800) 514-0487** www.lumigrow.com

Key Features

Maximum Light Density Delivers Concentrated Growing Power

- Coverage: 6-9 square feet
- Enhanced spectral output covering full PAR (400-700nm) promotes photosynthesis
- More PAR light per Watt than any other horticultural lighting fixture
- 5-Watt super-flux LEDs

Thermal Management Provides Long-Lasting Performance

- Runs 70% cooler than HID lighting
- Massive heat sinks keep LEDs running cool
- Operates safely without high voltage

Energy Efficiency Reduces Your Costs

- Uses 50% less power than the equivalent 250 Watt HID light
- Eligible for energy utility rebates

Make the Environmentally Responsible Choice

- RoHS compliant
- Mercury free
- Long lasting

Gain Control at Your Fingertips

- Individually adjustable Red and Blue balance knobs allow precise 2-channel spectral control
- Compatible with automated control systems

Installs and Operates Simply

- Smart Volt auto-switching and regulating power supply adjusts to appropriate voltage for international use

Built to Last

- Light-weight, yet strong powder-coated aluminum hardware
- Proprietary constant-current LED controllers
- 3-year warranty
- Designed and built in USA

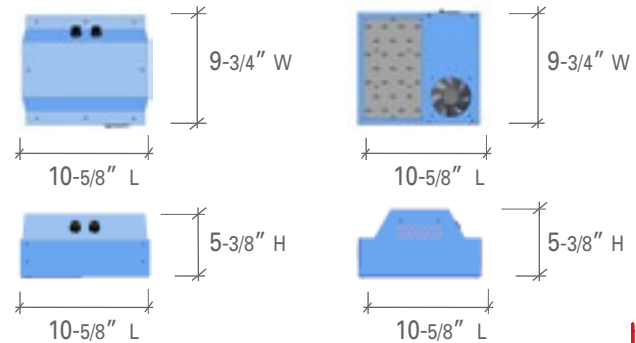


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Technical Specifications

Operating Voltage	90-264 V _{AC} (auto-switching) (2.5A max / 1.5A max)
Operating Frequency	50Hz-60Hz
Typical Energy Consumption	165 Watts
Weight	6 lbs
Operating Temperature	- 4° F to 140° F (- 20° C to 60° C)
Lifespan	50,000 hours
Dimensions	10" L x 10" W x 6" H (smaller than most HID lights)



Targeted Spectral Output

All light emitted by the LumiGrow ES165 triggers healthy plant responses, boosting your yield and reducing your costs.

Excess light from HID's costs you in high electrical bills.

