



The leader in smart horticultural lighting.



"With LumiGrow, we are assured of a lasting, highest-quality light source for our crops."

— Rick Berman
The Woodlands, Texas



LumiGrow Pro Series™ LED Lighting Systems

Gain Unprecedented Power and Control with LumiGrow Pro

Well-designed lighting systems boost yield and quality. But ordinary lights cost so much to operate that they erode profits. With the LumiGrow Pro series, you no longer need to choose between boosting yields and controlling costs. LumiGrow Pro lights delivers both benefits with the industry's two most powerful LED fixtures for greenhouses: the LumiGrow Pro 325™ and the LumiGrow Pro 650™. It's no wonder LumiGrow is the choice of 1,000+ growers from Alaska to Australia.

Improve Crop Yield and Uniformity

You'll make the most of your greenhouse or other growing environment because the LumiGrow Pro series 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 greenhouse 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.

Reduce Your Operating Costs

Energy-efficient LumiGrow Pro series lights cost between 40% to 70% less to operate compared to HID lamps. New sites see dramatically lower infrastructure costs because of reduced electrical requirements. LumiGrow lights also eliminate the need for ballasts and reflectors while they minimize cooling loads, accelerating your payback. Growers see electrical bills trimmed by approximately half, month after month, year after year.

How It Works

The Pro series equips growers with LED lights that output more red and blue in the essential PAR range than the industry's most powerful conventional systems, including any high-intensity discharge (HID) fixture. Peerless in the industry, Pro 325 and Pro 650 lights double and quadruple, respectively, the brightness and efficiency of the LumiGrow ES330™ system, previously the industry's most powerful LED light.

LumiGrow Pro 325 Horticultural Light

The Pro 325 system is engineered for commercial greenhouses and controlled environment agriculture (CEA) environments. Like all LumiGrow solutions, the Pro 325 light eliminates waste inherent to HID lights by focusing photons in plants' primary response regions rather than in spectral regions plants can't use. All of the light produced by the Pro 325 system is productive for plants, yielding 70% energy savings versus the 1000-Watt HID lights they replace.

LumiGrow Pro 650 Horticultural Light

The Pro 650 system raises the PAR bar for the entire horticultural lighting industry. The Pro 650 light is for growers and scientists who require red and blue PAR output greater than that of 1000-Watt HID lights without the costly energy demand of these fixtures. Energy savings versus a 1000-Watt HID light is approximately 40%.

Applications

- Commercial Greenhouses
- Indoor and Vertical Farms
- Nurseries
- Research

Start the switch. Apply to the Fall 2012 Pilot Program.
Contact **LumiGrow (800) 514-0487** www.lumigrow.com

Key Features

Provides Maximum Light Density

- Enhanced spectral output covering full PAR
- More red and blue PAR per Watt than any other lighting fixture
- Industry's most efficient LEDs
- Small hardware footprint minimizes plant canopy shadowing

Puts Control at Your Fingertips

- Individually adjustable 3-channel (red, blue and white) knobs for precise spectral control
- White-only View mode
- Compatible with automated control systems

Delivers Advanced Thermal Management

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

Reduces Your Costs with Energy Efficiency

- Pro 325 uses approximately 70% less energy than the equivalent 1000-Watt HID light and Pro 650 uses 40% less energy
- Eligible for energy utility rebates

Make the Environmentally Responsible Choice

- RoHS compliant (mercury- and lead-free)
- Long lasting

Installs and Operates Simply

- Smart Volt auto-switching and regulating power supply adjusts to appropriate voltage for international use
- Installs just like HID lights and operates seamlessly alongside them

Built to Last

- Light-weight, yet strong powder-coated aluminum hardware
- Proprietary constant-current LED controllers
- 5-year warranty
- Customer Support from a US-based manufacturer

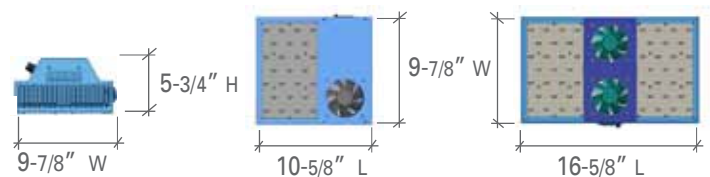
LumiGrow SmartPAR™ Software Compatible

- Boost productivity even further when you operate the lights with SmartPAR, the industry's first greenhouse light management software. Ask your LumiGrow representative for details.

Contact **LumiGrow**
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Pro Series Technical Specifications

Energy Consumption	325 Watts	650 Watts
Operating Voltage	100-120/200-240 V _{AC} (6.5A/3.5A) (auto-switching) v	100-240 V _{AC} (8.5A/5A max) (auto-switching)
Dimensions	9-7/8" W x 10-5/8" L L x 5-3/4" H	9-7/8" W x 16-5/8" L L x 5-3/4" H
Weight	9 lbs	16 lbs
Operating Frequency	50Hz/60Hz	
Operating Temperature	- 4° F to 140° F (- 20° C to 60° C)	
Lifespan	50,000 hours	



Targeted Spectral Output

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

Excess light from HIDs costs you in high electrical bills.

