



Considerations in Cost Comparison to Traditional Lighting

Electricity Costs- In a greenhouse, potential for supplemental lighting has been previously limited by the high heat generation of artificial lighting. Due to the low heat output and efficient use of energy, LED Grow Master lighting is able to run 24 hours a day for 365 days a year.

Electricity Costs LED Grow Lights vs. HPS

4x4 coverage	Watts	Hours Per Day	Days per Year	Watt Hours Per Year	KW Hours Per Year	Cost Per KWHR	Cost Per Year
4 LGM540s	36	14	365	183,960	183	.10	\$18
1 1000W HPS	1000	14	365	5,110,000	5,110	.10	\$511

These costs become more important as electricity prices continue to rise.

Peripheral Equipment

- **LED Grow Master lighting requires no ballast.**
Up to four bars can be run on a single power supply that plugs directly into a wall socket or bus line.
- **LED Grow Master lighting requires no reflector.**
The LGM product line is complete with built in reflectors to focus the light only where it is needed.

Replacement Costs

- **Replacing bulbs and ballasts is a recurring cost of traditional lighting that is greatly reduced using LEDs.**
LED Grow Master bars are rated for 100,000 hours of life with no light degradation. This is 10-20 times longer than traditional bulbs.

Heat Management

- **LED Grow Master lighting puts off only trace amounts of heat.**
HID lighting creates a great deal of waste heat that must be ventilated in warm weather when the price of electricity is at its peak. LED Grow Master lighting is only warm to the touch even after operating all day.

Disposal Costs

- **HPS and fluorescent lighting is considered hazardous waste and requires special disposal that includes disposal fees.**
LED Grow Master lighting contains no lead, mercury, or glass parts. This not only saves money in disposal fees but also makes them a safer lighting option for gardeners and the environment. LED Grow Master lighting is recyclable at the end of its useful lifetime.

Water Use

- **Plants will use far less water under a non-radiant light source.**

Nutrient Use

- **We recommend starting with half the nutrient recommendation when gardening under LEDs**