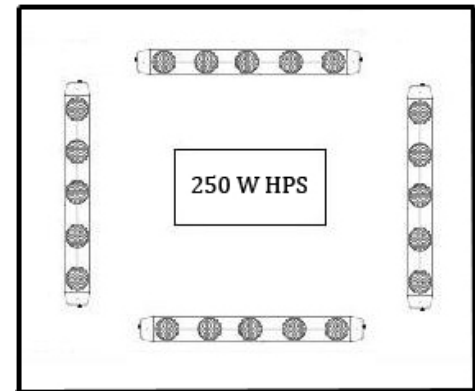


System recommended for maximum growth rates of fruiting plants in an indoor garden that does not receive any natural light. Fruiting plants can be grown under LED only lighting, but expect slower growth rates and smaller fruit without the radiant heat applied directly to the plant canopy and plant stress supplied by the sun in a greenhouse and HPS indoors. If one needs to add heat to a growing environment; doing so with plant lighting ensures that the cost is associated with increased production as well as heat.

Advantages

- **Lifetime-** LGM lighting is rated for 100,000 hours of life or approximately 11 years if you run them 24 hours per day. In the basic hybrid system, growers utilize approximately 25% of the HID lighting generally recommended for their area. The HID adds radiant heat to the environment while the LEDs provide quality wavelengths of light. Using the lighting in this way increases the lifetime of your HPS lighting and greatly decreases bulb replacement and energy costs.
- **Energy Savings-** Each LGM550 runs on only 9 watts of electricity. When using a 250 watt HPS with 4 LGM550s as pictured to the right, the electrical cost per year for a 15 hour photoperiod at 10 cents per Kwh is \$156.50. Now let's say you eliminate the LEDs and just run the recommended 1000 watt HPS. The cost per year using the same variables is \$547.50. The hybrid method can save over 70% on electricity.
- **Eliminate Overheating-** LED Grow Master lighting puts off only trace amounts of heat. Conventional grow lights run from several hundred degrees to over 1400 degrees Fahrenheit at the bulb's surface. Although this heat is expensive and harmful in excess, it is also partially responsible for the growth rates and size of many indoor gardens. By using LED Grow Master lighting with HID as a supplement, you are able to take advantage of the radiant heat while dramatically increasing the efficiency of your system.
- **Small, Easy, Safe-** The LED Grow Master product line is lightweight and alternative energy ready. Low voltage; without lead, mercury, or glass parts. Minimal shock/fire risks providing a safe option for growers, kids, pets. (HPS lamp does not include these safety features. Please read manufacturer warnings and instructions.)

4' x 4' LED/HPS Hybrid



Easily expanded to 6' x 6' area using 6 LGM550 bars with 400W HPS.

Keep all lights at 28"-36" above the plants when using the hybrid system.

Monitor your CO2 levels, LGM LED lighting emits a large amount of absorbed light which may require slight augmentation of CO2 levels +300-500 PPM.

Electronic Ballasts such as the Quantum Dimmable Digital Series are recommended in the Hybrid System.

Note: LEDs should be mounted at approximately the same height as the HPS but never below it. Mounting LEDs too close or below an HID lamp can damage LED clusters and housings.