

Greenhouse Layout and Coverage

We recommend the LGM540 for all greenhouse applications.

The most common greenhouse configurations utilize the “LEDStik” which consists of four LGM540 LED grow lights attached to a vertically adjustable frame. The following information will help determine the number of LEDStiks needed to cover the desired greenhouse plot.



- Each LEDStik would include 10' (3m) frame, mounting hardware, 4 LGM540 bars, 1 country specific power supply, and 3 connect cables.
- Frames for LEDStik can be purchased preassembled or materials are available at most local hardware stores for easy assembly locally and reduced shipping charges.
- The LEDStik is able to cover an area that is approximately 2' (1.8m) x 10' (3m) mounted 3-4 feet (.9 – 1.2 meters) above the plant canopy.
- The power supplies allow for a maximum of 11' (3.35m) from the first bar to the power socket. Standard connect cables allow for a maximum of 11" (28cm) between bars. Up to 4 LGM540 bars can be run on a single power supply.
- Each LEDStik just over 36 watts of electricity making this the most efficient greenhouse lighting on the marketplace today.
- Bars are rated for 100,000 hours of life with minimal light degradation.
- LEDs contain no glass parts, lead, or mercury and greatly reduce the risks of shock, burn, or fires associated with traditional lighting.
- Lights require no ballast and include built-in reflectors eliminating white light pollution concerns.
- LED Grow Master plant lighting products are 100% recyclable via common methods at the end of product lifetime.

To determine coverage using the single bar method a general rule of thumb in the greenhouse is that each LGM5 covers an area that is approximately 22" (.56 meters) x 67" (1.7 meters.) Individual bar coverage will require a power supply or drop to each bar *or* a minimum order of 1,000 bars for custom made extended connect cables. This method allows maximum coverage from each LGM5.