

## Mammoth-C500

# LED Horticultural Lighting

## 560W Industrial High PAR LED Grow Light

### Description / About

The Mammoth-C500 grow light offers a specially tuned photosynthetic spectrum supplying all spectrums needed to grow the highest yielding premium quality plants. Blue spectrums aid in vegetative growth amber-red spectrum aids in pre-flower/ flowering stages, and UVB increases flowering for optimal results.

### Features

- Lower energy consumption by over 60%
- Drastically reduced heat production saves up to 60% on air conditioning and ventilation costs
- Optimized spectrum delivers 100% photosynthetically usable light [Figure 1]
- Special optical distributions focus light directly on plants for optimal growth
- Life span of 50,000+ Hrs (15x longer than HID)
- Selectable UVB tubes increase quality of growth in flowering
- 0-10v control input
- Made in USA
- Instant on/off, no warm up period
- "Cool" to touch
- 2 different PAR Level options

### Additional Information

Operating Temperature Range:

- -40°C to 55°C Nominal Optics offered for different distributions. (Dist. = 120° w/o secondary optics)
- L70 ≥ 150,000Hrs @ 95°C. Life Sync adjusts module to operate at max performance in any given environment

Warranty:

- Driver = 5 years
- Solstice Light Engine = 5 years
- Fixture = 5 years
- Tubes: No Warranty

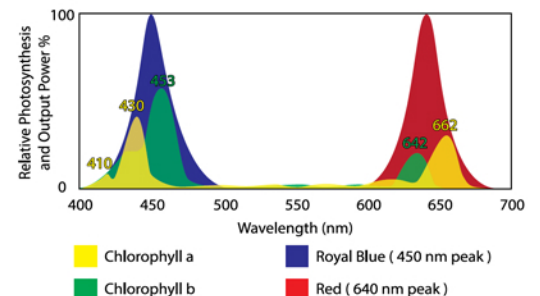


Mammoth-C500 (off)



Mammoth-C500 (on)

Wavelength needed by plants  
Vs.  
Wavelength given by Solstice Grow Light



[Figure 1]

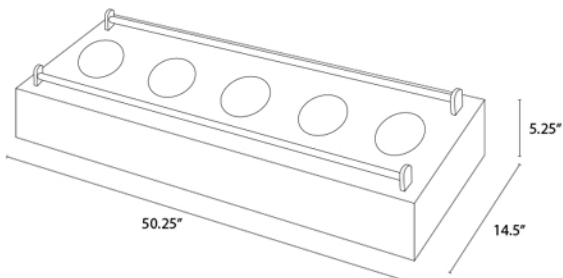
## Comparison to HPS Fixture

Providing a more even distribution of light with the Mammoth-C500 grow fixture allows a more consistent quality throughout the plant resulting in higher profits and quicker ROI's for any growing operation. Side fill supplementation increases PAR values lower on the plant where traditional grow systems cannot. UV supplementation tubes increase potency in the final flowering stages.

- Life Sync Smart Technology - Over temperature protection and lumen depreciation maintenance
- Programmable Power & Timing Settings on board.
- Low energy consumption with only 95W/Module.
- Low running temperature cuts cost of air conditioning.
- Supplemental UV tubes help mimic sunlight for a increased yields and quality of crops

Chip Set: Luxeon Rebel LXML

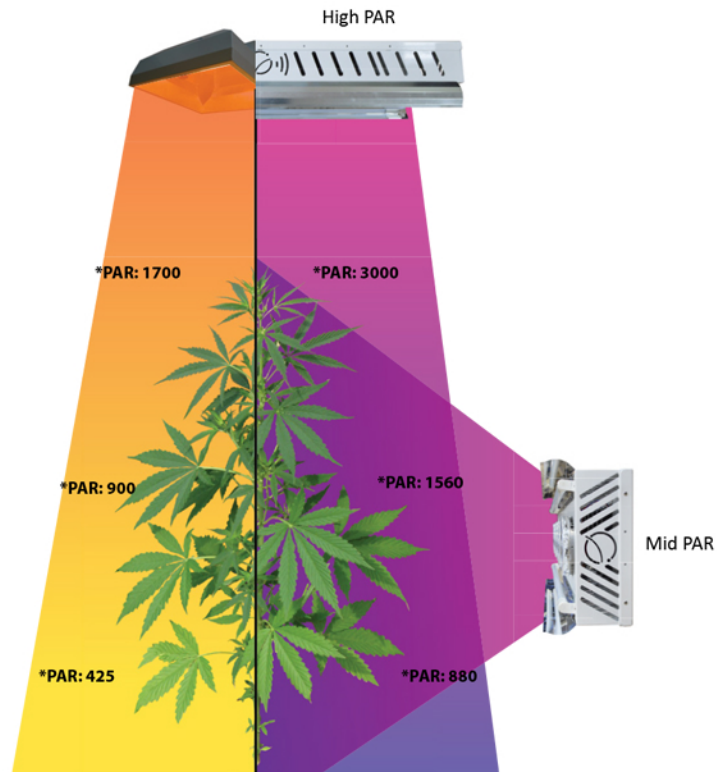
- Royal Blue (440nm)
- Red (645nm)
- UVB (285nm-315nm)



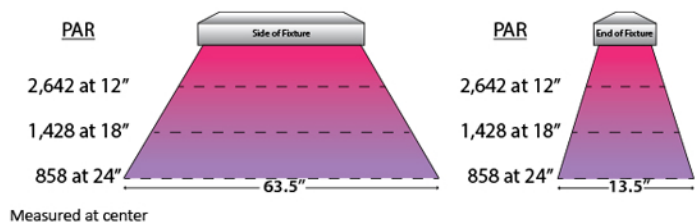
### Accessories

Catalog #	Description
<b>IP67</b>	IP67 Rated LED Engine
<b>GT-LSP-120</b>	Surge Protector. 120 V 10 kA Parallel. 20kA maximum discharge current.
<b>GT-LSP-240</b>	Surge Protector. 240 V 10 kA Parallel. 20kA maximum discharge current.
<b>GT-LSP-277</b>	Surge Protector. 277 V 10 kA Parallel. 20kA maximum discharge current.
<b>GT-LSP-347</b>	Surge Protector. 347 V 10 kA Parallel. 20kA maximum discharge current.
<b>GT-LSP-480</b>	Surge Protector. 480 V 10 kA Parallel. 20kA maximum discharge current.
<b>GT-SAFETY-CABLE-3'</b>	3 foot safety cable
<b>GT-SAFETY-CABLE-4'</b>	4 foot safety cable

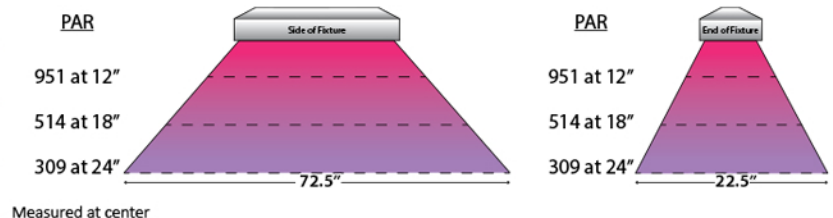
## HPS Fixture VS. Mammoth-C500



\* For informational purposes only



### High PAR Distribution



### Mid PAR Distribution