



**MAMMOTH LIGHTING**  
BRIGHT AF



## Industry's Highest Light Intensity, Advanced Technology and **LOWER** Cost



Lower your Cost of Production AND Increase Yields  
[www.mammothlighting.com](http://www.mammothlighting.com)

# Your Competitive Advantage starts HERE:

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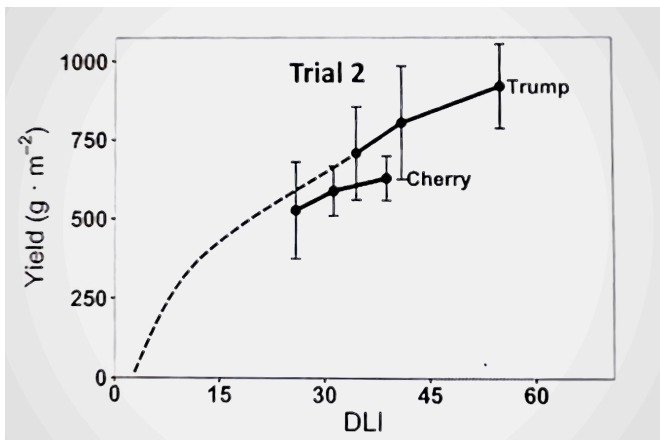
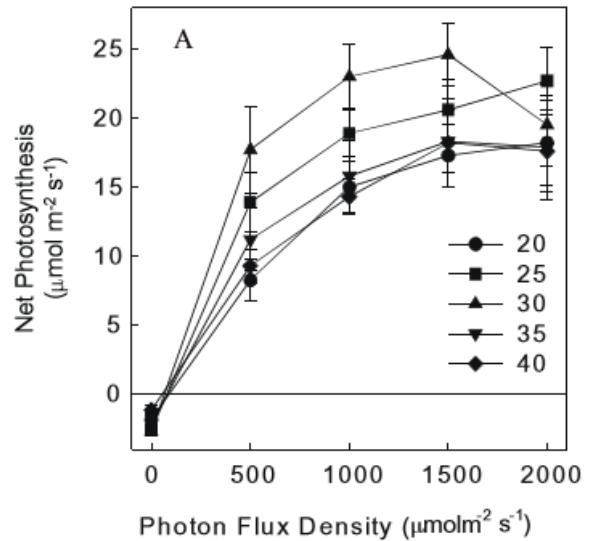


**One of the most important growth factors in cannabis cultivation is Light; Light Quality and Light Intensity. After years of testing, Mammoth has optimized it's light intensity and spectrum to Maximize Growth, Yield and THC production....with the academic studies to prove it:**

Photosynthetic response of *Cannabis sativa* L. to variations in photosynthetic photon flux densities, temperature and CO<sub>2</sub> conditions (Chandra, 2009).

Chandra showed that Max Photosynthesis in Cannabis is 1500 ppfd, although 1000 can be thought of as the max rate before diminishing returns. Mammoth LED's target this level, uniformly, across the canopy. Almost all other lighting manufactures are significantly below this level – therefore not maximizing growth and yield.

Recent experiments carried out by Dr Bruce Bugbee's team at Utah State University compared the effect of different color temperatures and light intensity on Cannabis Yield. This study confirmed Mammoth's 3500k spectrum and light intensity - yield's the highest.



## Spectrum v Yield

Blue %	4	10	16	20
CCT	2000K (HPS)	3000K (LED)	3500K (LED)	5000K (LED)
Flower Yield	68g $\pm$ 11	65g $\pm$ 8	73g $\pm$ 14	65g $\pm$ 11

Crop Physiology Laboratory  
Utah State University

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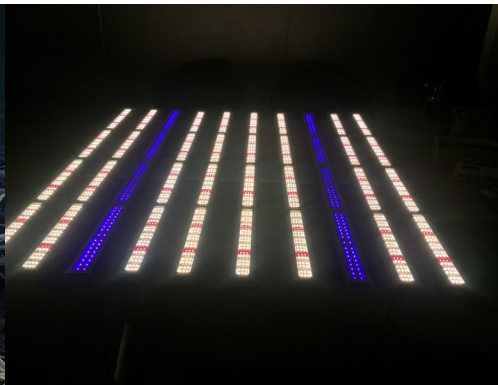
## **Eliminate Powdery Mildew and Go Chemical Free with the Mammoth UV Series**

8 bar with 2 bars of independent, controllable UVA + UVB diodes

- Academic studies have shown UVB to can reduce powdery mildew by up to 99% on plants
- UV radiation can be effective for controlling insect populations
- UV radiation can increase trichome density and content by 28%
- UV wavelengths can enhance the color, flavor and smell of plants

## **GOT UV?**

**Learn more at [www.mammothlighting.com](http://www.mammothlighting.com)**



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	Slide On Bars			Fold Model				Highbay
	Full Cycle	Full Cycle		Veg	Full Cycle	Full Cycle	R&D + Flower	Full Cycle
	8 Bar	10 Bar		4 Bar	6 Bar	8 Bar	6 Bar + 2UV	Greenhouse
Power	640W	800W		400W	600W	800W	700W	640W
Samsung Diode	LM301B	LM301B		LM301B	LM301B	LM301B	LM301B	LM301B
PPF μmol/s	1720	2159		1120	1680	2240	1750	1792
Efficacy μmol/J	2.7	2.7		2.8	2.8	2.8	2.5	2.8
Veg Coverage	6'x6'	7'x7'		5'x5'	6'x6'	7'x7'	6'x6'	7'x7'
Flowering Coverage	4.5'x4.5'	5'x5'		4'x4'	4.5'x4.5'	5'x5'	4.5'x4.5'	5'x5'
Power Voltage	100V-277V, 50/60 Hz	100V-277V, 50/60 Hz		100V-277V, 50/60 Hz	100V-277V, 50/60 Hz	100V-277V, 50/60 Hz	100V-277V, 50/60 Hz	100V-277V, 347- 480V, 50/60 Hz
Amperage/ Voltage	5.33A/120V	6.67A/120V		3.33A/120V	5A/120V	6.67A/120V	5.83A/120V	5.33A/120V
	2.67A/240V	3.33A/240V		1.67A/240V	2.5A/240V	3.33A/240V	2.92A/240V	2.67A/240V
CRI	>=90	>=90		>=90	>=90	>=90	>=90	>=90
Power Factor	>95%	>95%		>95%	>95%	>95%	>95%	>95%
THD	<6%	<6%		<6%	<6%	<6%	<6%	<6%
Beam Angle	120 degree	120 degree		120 degree	120 degree	120 degree	120 degree	120 degree
Spectrum	3500K + 660nm	3500K + 660nm		5000k	3500K + 660nm	3500K + 660nm	3500K + 660nm + 400nm +310nm	4000K + 660nm
Fixture Lifetime	>=50,000 hours	>=50,000 hours		>=50,000 hours	>=50,000 hours	>=50,000 hours	>=50,000 hours	>=50,000 hours
Fixture Dimension	47"x42"x3.7"	47"x42"x3.7"		48"x43"x2"	48"x43"x2"	48"x43"x2"	48"x43"x2"	46"x3"x3"
Fixture Weight	41 lbs	49 lbs		25lbs	30 lbs	35 lbs	35 lbs	30lbs
Dimming	Knob +rj14 port	Knob +rj14 port		Knob +rj14 port	Knob +rj14 port	Knob +rj14 port	Knob +rj14 port	Knob +rj14 port
Certifications	ETL, CE, RoHS	ETL, CE, RoHS		ETL, CE, RoHS	ETL, CE, RoHS	ETL, CE, RoHS	ETL, CE, RoHS	ETL, CE, RoHS
IP Rating	IP54	IP54		IP54	IP54	IP54	IP54	IP54
Warranty	5 years	5 years		5 years	5 years	5 years	5 years	5 years



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