

HYDROFARM®

# PHOTO BIO®

LED LIGHTING

BUILT TO GROW



## WHO WE ARE

PHOTOBIO is a high-performance LED brand that offers several unique models, all delivering high output and efficiency. It's serious commercial-grade, technologically advanced lighting.

- ☼ Built for quality and reliability
- ☼ Trusted by the professional grower community
- ☼ U.S. Customer Care and Service
- ☼ 100% Burn-in Testing at the factory
- ☼ DLC Hort Listed



"PHOTOBIO is one of the few out there these days that truly understands how business is done in our industry. Their products are built for results and reliability. Their team understands grower's needs and they are always there for you."

- Jim Conner, Founder of MJ Verdant

## PROFESSIONAL SERVICES

- ☼ We provide layouts for benching and racking, water treatment, and irrigation.
- ☼ FREE Professional Lighting Layout
- ☼ Greenhouse DLI calculation
- ☼ Rebate Service for Eligible Projects



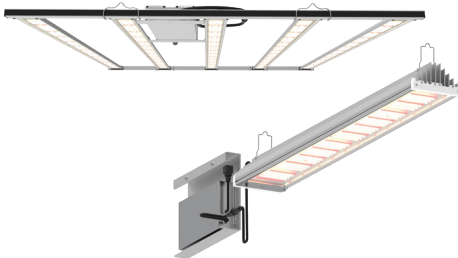
*Dr. Robb*  
F A R M S

### DR. ROBB CASE STUDY

Dr. Robert Flannery, a.k.a. Dr. Robb, is the founder and owner of Dr. Robb Farms, a company that provides high-quality medicinal cannabis. A well-respected grower, he holds a Ph.D. from UC Davis in Plant Biology with an emphasis in Environmental Horticulture and specific expertise in hydroponic crop optimization for cut-flower production.

"Since installing PHOTOBIO LEDs, the uniformity in the plants has increased throughout our house, including thicker plant stalks. Plant health in general is much higher; having healthier plants reduces pest issues, and we have no significant issues with powdery mildew."

- Dr. Robb



	MX2NEW	TX2NEW	CX	MXR & TXR	VP
	Indoor Multi-bar	Linear Toplight	Compact Toplight	Customizable Multi-bar and Toplight	Linear Bar Light for Clone/Veg
MSRP (w/o cords)	\$799.9	\$959.9	\$999.9	Starting from \$799.9	\$149.9 (2PK)
Power	680 W	800W	840 W	720/600/240 W	32W
Photon Flux (280-800nm)	1,906 µmol/s	2,400 µmol/s	2,125 µmol/s	Varies	73.6 µmol/s
Efficacy (280-800nm)	2.8 µmol/J	3.0 µmol/J	2.5 µmol/J	2.5 µmol/J	2.3 µmol/J
Input Voltage	120-277v	208-480v	120-277v/ 347-480vNEW	120-277v	120-277v
Spectrum	S4	S5	S4	Radiant (UV)/ S4	VE
Features	<ul style="list-style-type: none"><li>Improved Hinges</li><li>47% weight reduction than MX</li><li>Ultra-wide LED bars</li><li>On-board Dimming</li></ul>	<ul style="list-style-type: none"><li>Enhanced 660nm output</li><li>Origami-style heatsink</li></ul>	<ul style="list-style-type: none"><li>1:1 HPS Replacement</li><li>Secondary optics for bat-wing distribution</li><li>On-board dimming</li></ul>	<ul style="list-style-type: none"><li>Additional UV output in the Radiant spectrum</li><li>Commercial bulk packaging</li><li>Customizable</li><li>Assembled in the U.S.A.</li></ul>	<ul style="list-style-type: none"><li>Daisy-chainable</li><li>Easy plug &amp; play</li></ul>

The **HYDROFARM** Standards



**IP65**  
Water/Dust Protection



**0-10v**  
Control & Dim-to-off\*

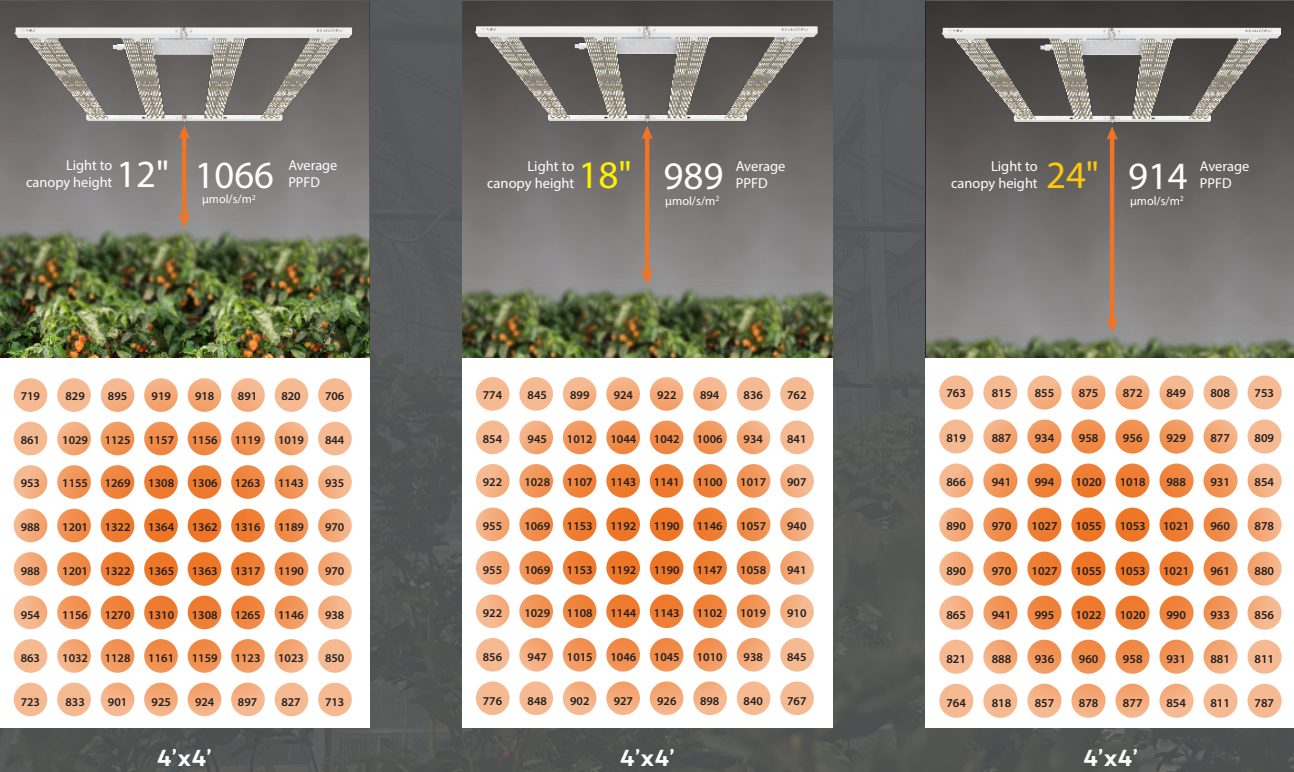
Product Specifications Are Subject to Change; PHOTOBIO-VP are non-dimmable; version 051024  
Go to [hydrofarm.com/led-lighting](http://hydrofarm.com/led-lighting) for the latest product offering and information

Measure your PPFD with the PHOTOBIO PAR meter (LGBQM2)



PLANNING YOUR GROW

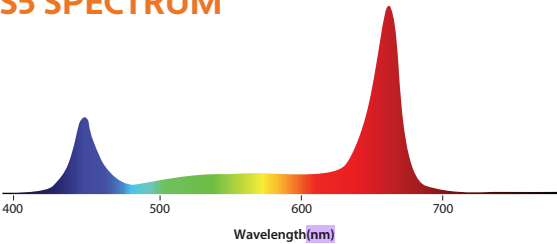
MX2 PPFD FOOTPRINTS



**Note:** Photosynthetic Photon Flux Density (PPFD) data is produced by using professional lighting simulation software and third party laboratory photometric files. All PPFD data are measured in  $\mu\text{mol/s/m}^2$ . The result assumes a single fixture being mounted in a 4'x4' grow tent with 85% wall reflectance. Actual measurement may vary depending on actual use conditions, input voltages, and measuring instruments. Professional lighting plans for commercial applications are available upon request.

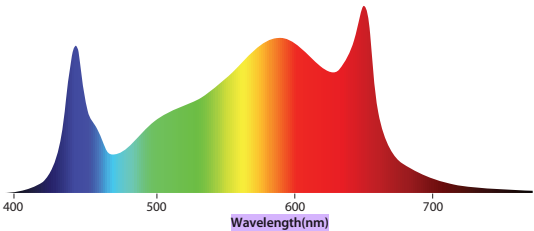
Understanding Our Spectra

S5 SPECTRUM



	Ratio Comparison	S4 (680W)	S4 Normalized	S5 (800W)	S5 Normalized
BLUE	400-500	310.3	17%	532.9	22%
GREEN	501-600	789.8	42%	497.3	21%
RED	601-700	743.7	40%	1353.8	56%
FR	701-800	32.6	2%	18.8	1%
Total		1876.4	1	2402.7	1
B/R Ratio		0.4	0.4	0.4	0.4
B/G Ratio		0.4	0.4	1.1	1.1
R/FR Ratio		22.8	22.8	72.1	72.1

S4 SPECTRUM



PHOTOBIO•MX2

The PHOTOBIO•MX2 changes everything, again. The best-selling PHOTOBIO MX fixture evolves with higher output and better efficiencies while still delivering the same great recipe many growers have come to love. We care about you and your crops. We know nothing will stop you from focusing on the goal and trying to do better. PHOTOBIO has similar beliefs, to always try to raise the bar and be BETTER. The result is a 1,870  $\mu\text{Mol/s}$  (PAR) fixture that consumes the same power as the original MX while delivering enhanced efficacy at 2.8  $\mu\text{Mol/J}$ . The PHOTOBIO MX2 offers 10% more photon output, 10% better efficiency, and a 47% weight reduction compared to the original model. The wide light bars deliver the uniformity and intensity that professional growers desire.

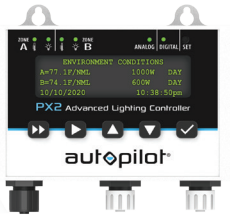
Increase yields while driving down operational cost with the PHOTOBIO•MX2.

- Auto adjusting 100-277V driver input range
- Slim design maximizes vertical growing space
- Robust commercial design keeps LEDs running cool

Lighting Accessories

MORE POWERFUL. MORE RELIABLE. MORE CAPABLE.

Advanced lighting controllers, cable kits, meters, and more.



Autopilot PX2  
Advanced Lighting  
Controller

ITEM CODE APDPX2




PHOTOBIO  
Advanced Quantum  
PAR Meter

ITEM CODE LGBQM2



Hydrofarm Light Riser  
Hanging System w/Push  
Button Release, 1/8"

ITEM CODE HLH1002



**"We have found that PHOTOBIO LEDs are easy to work under, use and control and we have not had any issues. Jud and the Hydrofarm team are great to work with."**

**- Dr. Roberto Lopez, CEA Lighting Research Team, Michigan State University**

**HYDROFARM®**

**PHOTO: BIO®**

CHECK US OUT | [PHOTOBIO.COM](https://PHOTOBIO.COM) | [HYDROFARM.COM](https://HYDROFARM.COM)

CONNECT WITH US | @ [PHOTOBIOLED](https://PHOTOBIOLED)

©2024 HYDROFARM