

Photon Maxe MaxLite

HORTICULTURE CAPABILITIES



WHO WE ARE:

MaxLite has been committed to providing energy-efficient lighting products since 1993. One of the first movers into LED technology, MaxLite offers an extensive line of lamps and luminaires that help businesses of all industries save energy, save money, and protect the climate. Desiring to bring its innovation to LED-based horticulture lighting systems, MaxLite developed and launched the PhotonMax Spot Light as the first product approved to the Design Lights Consortium (DLC) Horticultural Qualified Products List. A full solution provider, MaxLite also offers high-pressure sodium and ceramic metal halide grow lights. With extensive product research and development capabilities, and an expert horticulture sales team, MaxLite is at the forefront of providing quality lighting solutions that empower cultivators to grow their crop to its highest potential.

OUR APPROACH:

MaxLite's team has over 25 years of combined industry experience, allowing us to take a proactive approach to provide horticulture lighting solutions. With this experience, MaxLite offers many support services that are unparalleled in the industry.

OUR SERVICES:

MaxLite understands your success is paramount, and we are here to ensure your lighting solution delivers that success. Our team will provide you with unrivaled support, every step of the way. From initial lighting design, to implementation, to successful operation, we are a resource you can rely on. The PhotonMax line is specifically engineered to meet the rigorousdemands of horticulture applications, and we stand behind our products with the highest standards of performance and quality assurance. MaxLite was the first lighting manufacturerto utilize the UL Third Party performance verification program for horticulture luminaires, and the first to have a product approved to the Design Lights Consortium (DLC) Horticultural Qualified Products List. Our industry-leading warranty demonstrates our commitment to providing horticulture lighting solutions you can count on today, and for years to come.

HORTICULTURE CAPABILITIES

MARKET SEGMENTS WE SERVE:



Greenhouse

- Vine crops: Tomato, cucumber, etc.
- Leafy greens: Lettuce, kale, micro greens, etc.
- Ornamentals and Potted/Bedding Plants: *Poinsettias, daisies, begonias.*
- Seedlings and Starter Plants: *Tomato, Rosemary, Pepper, etc.*



Vertical Farming

- Any type of vertical crop production through the use of multiple layers (i.e., growing crops on racks).
- Controlled Environment Agriculture.
- Any type of crop production where plants and/or organisms are produced in a completely controlled environment.



Cannabis

- Indoor grown: Powered light is the sole source of energy for plants.
- Greenhouse/Hybrid GH: Powered light is supplemental to the sun.

OUR TEAM:



Dr. Dan ChoiDirector of Engineering

Dan holds a PhD in LED physics. Prior to joining MaxLite, Dan was principal engineer at Samsung, where he specialized in LED technology. He developed LED chips and was a product manager for the LED components that the horticulture lighting industry (including MaxLite's competitors) uses in its fixtures today.

LED LINEAR LIGHTS



The PhotonMAX® Horticulture LED LINEAR LIGHT delivers powerful lighting in a sleek form factor, ideal for supplemental and sole source applications. The linear light provides high output and efficacy for greenhouse and indoor growers of all crop types. A lightweight, linkable design and multiple mounting options offers ease of installation for large-scale use.

APPLICATIONS

GREENHOUSE:

Fixtures are designed to easily mount on strut and gutters in a greenhouse, drivers remain on board reducing labor costs while providing a cleaner installation. The slim formfactor reduces shadowing allowing the most natural light to hit the canopy. Fixtures can be mounted end to end or with a daisy chain cable.

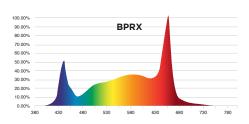
INDOOR:

Fixtures are designed to easily mount on strut and the drivers remain on board reducing labor costs while providing a cleaner installation. 2 300w fixtures placed over a 4x4' footprint provides 800+ umol for cannabis or other hard flowering indoor crops and does so using 50+ less watts than other single fixture designs.

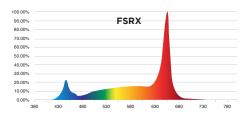
- Comprised of the industry's top performing name brand components like Samsung, Phillips and Osram.
- Designed with a lens to protect the LED chips from spectra degradation due to horticulture sprays and dust. The lens makes cleaning SOPs a breeze.
- Designed with a heat sink that keeps dust and microbes out of the fixture, other leading heat sink designs are dust and microbe traps and are much harder to keep clean.
- Industry leading performance is verified by the DLC and this fixture qualifies for rebates wherever they are available.

LED LINEAR LIGHTS

SPECTRUMS







	NOMINAL 200W												
ITEM	SPECIFICATION	BPRX	врвх	FSRX	BPRX	врвх	FSRX	BPRX	врвх	FSRX	BPRX	врвх	FSRX
	Operating Voltage		120V			277V			347V			480V	
	Input Power (W)	192.30	200.63	198.60	187.95	195.91	195.52	185.51	195.94	190.39	184.07	193.34	190.34
	Input Current (A)	1.67	1.67	1.67	0.72	0.72	0.72	0.58	0.58	0.58	0.42	0.42	0.42
GENERAL PERFORMANCE	PPF (µmol/s)	491	491	533	491	491	533	491	491	533	491	491	533
	Heat Output (BTU's)	628	660	649	628	660	649	628	660	649	628	660	649
	Q90		Photon Flux Maintenance Q90 >36,000 hours at 40°C (104°F) per IESNA TM-21										
	PPE (µmol/J)	2.6	2.5	2.7	2.6	2.5	2.7	2.7	2.5	2.8	2.7	2.5	2.8
	Product Dimensions	3.1" x 3.26" x 48"											
PHYSICAL	Housing	Extruded aluminum with die-cast end-cap											
	Product Weight						13.67 lbs	. (6.2 kg)	2 kg)				
	Environment						Wet loca	tion rated					
	Warranty						5 Ye	ears					
CERTIFICATION	Operating Temperature						0° to	40°C					
	Humidity					10%	- 90% RH, ı	non conden	sing				
	Certification						UL List	ts, IP65					
QUALIFICATION	DLC Horticulture					D	LC Horticul	ture qualifie	ed				

	NOMINAL 300W							
ITEM	SPECIFICATION		BPRX					
	Operating Voltage	120V	277V	347V	480V			
	Input Power (W)	302.51	295.32	289.97	288.17			
	Input Current (A)	2.50	1.10	0.86	0.63			
GENERAL PERFORMANCE	PPF (µmol/s)		76	61				
	Heat Output (BTU's)	1032	1032 1007 989					
	Q90	Photon Flux Maintenance Q90 >36,000 hours at 40°C (104°F) per IESNA TM-21						
	PPE (µmol/J)	2.5	2.6	2.6	2.6			
	Product Dimensions	3.1" x 3.26" x 48"						
PHYSICAL	Housing	Die-cast aluminum						
	Product Weight	13.67 lbs. (6.2 kg)						
	Environment	Wet location rated						
	Warranty		5 Ye	ears				
CERTIFICATION	Operating Temperature	0° to 40°C						
	Humidity		10% - 90% RH, r	non condensing				
	Certification	UL Lists, IP65						

LED SPOT LIGHTS



The PhotonMAX® Horticulture LED SPOT LIGHT delivers powerful lighting, in a sleek form factor ideal for supplemental and sole source applications. The lighting solution offers an extraordinary blend of performance, high output and photon efficacy. With 4 spectra combinations to choose from, our tailored spectra can meet all your various application needs. A slim form factor and light weight design offers ease of installation for large scale use with multiple mounting options.

APPLICATIONS

GREENHOUSE:

Fixtures are designed to easily mount on strut and gutters in a greenhouse, drivers remain on board reducing labor costs while providing a cleaner installation.

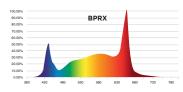
INDOOR:

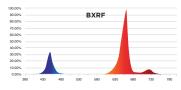
Fixtures are designed to easily mount on strut and the drivers remain on board reducing labor costs while providing a cleaner installation.

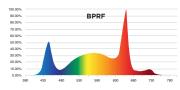
- 1st fixture listed on DLC hort.
- 1st with UL performance
- 4 spectrums available
- Performance is verified by the DLC and this fixture qualifies for rebates wherever they are available.

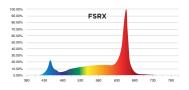
LED SPOT LIGHTS

SPECTRUMS









	NOMINAL 360W									
ITEM	SPECIFICATION	BPRX	BPRX	BPRF	BPRF	BXRF	BXRF	FSRF	FSRF	
	Operating Voltage	120-277V	347-480V	120-277V	347-480V	120-277V	347-480V	120-277V	347-480V	
	Input Power (W)	369.8	362.3	362.1	353.4	340.5	333.9	362.3	350.1	
	Input Current					, 277V @ 1.3 A) ., 480V @ .75 A)		,		
GENERAL PERFORMANCE	PPF (µmol/s)	755.2	755.2	680.1	680.1	699.8	699.8	753.2	753.2	
	Heat Output (BTU's)	1261.8	1236.4	1235.5	1205.9	1161.8	1139.3	1236.2	1194.6	
	Photon Flux Maintenance Q90	Photon Flux Maintenance Q90 >54000 hours at 40°C (104°F) per IESNA TM-21								
	Efficacy (µmol/J)	2.04	2.08	1.9	1.92	2.1	2.1	2.08	2.15	
	Product Dimensions	18.77" x 16.73" x 5"								
PHYSICAL	Housing	Die-cast aluminum								
	Product Weight	Up to 35lb. (16 kg)								
	Environment	Wet location rated								
	Warranty				5 Ye	ears				
CERTIFICATION	Operating Temperature				0° to	40°C				
	Humidity				10% - 90% RH,	non condensing				
	Certification	UL listed, IP66								

					NOMINA	L 600W				
ITEM	SPECIFICATION	BPRX	BPRX	BPRF	BPRF	BXRF	BXRF	FSRF	FSRF	
	Operating Voltage	120-277V	347-480V	120-277V	347-480V	120-277V	347-480V	120-277V	347-480V	
	Input Power (W)	578.3	559.9	582.9	564.4	545.8	539.6	591.4	586.2	
	Input Current					, 277V @ 2.2 A) 480V @ 1.25 A)				
GENERAL PERFORMANCE	PPF (µmol/s)	1143.7	1143.7	1088.5	1088.5	1234.7	1234.7	1224.2	1224.2	
	Heat Output (BTU's)	1973.2	1910.5	1988.9	1925.8	1862.3	1841.2	2017.9	2000.3	
	Photon Flux Maintenance Q90		Photon Flux Maintenance Q90 >54000 hours at 40°C (104°F) per IESNA TM-21							
	Efficacy (µmol/J)	2	2.04	1.87	1.93	2.1	2.3	2.07	2.09	
	Product Dimensions	18.77" x 16.73" x 5"								
PHYSICAL	Housing	Die-cast aluminum								
	Product Weight	Up to 35lb. (16 kg)								
	Environment	Wet location rated								
	Warranty				5 Ye	ears				
CERTIFICATION	Operating Temperature	0° to 40°C								
	Humidity				10% - 90% RH,	non condensing				
	Certification				UL liste	ed, IP66				

DOUBLE ENDED HIGH PRESSURE SODIUM



The PhotonMAX® Double Ended fixture offer's the highest output of all the PhotonMAX® products, reducing up front investment cost while minimizing required fixtures. To this day, the most widely sold solution that cultivars depend on for Greenhouse and indoor crop production. In addition, ballast come standard with cooling fins to help reduce failures and extend the operating life of the product.

APPLICATIONS

GREENHOUSE:

Cannabis, hemp, tomatoes, fruiting and flowering crops.

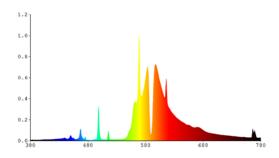
INDOOR:

Cannabis, hemp, and warehouse style growing.

- Highest PPF/\$
- Dimmable via RJ11 Port
- Control Compatible with all major brands using RJ11 Port
- Utilizes High reflectivity German Aluminum Reflector
- Selectable Wattage Via Dial Control
- Standard 3-Year Warranty
- Controllers Sold Separately

DOUBLE ENDED HIGH PRESSURE SODIUM

SPECTRUMS



		PH-1000HPS-F-DE	PH-1000HPS2-F-DE	PH-1000HPS3-F-DE				
ITEM	SPECIFICATION	DETAILS						
	Wattage	1000W						
GENERAL	Ballast Efficiency		93%					
PERFORMANCE	Lifetime (Lamp)	10,000 Hours						
	BTU Output	utput 3,412 BTU's/Hour						
	Frequency		50/60Hz					
ELECTRICAL	Input Voltage	120V	277V	347V				
ELECTRICAL	THD		≤10%					
	Power Factor	r ≥.98						
PHYSICAL	Start/Warm up	5 Mins.						
CERTIFICATION	Certifications	ETL, CETL						

BALLAST SPECIFICATIONS:	PH-1000HPS-F-DE	PH-1000HPS3-F-DE					
SPECIFICATIONS	DETAILS						
Input Voltage	120V 277V 347V						
Input Frequency (HZ)	50/60 HZ						
Input Power Factor		≥.98					
THD (%)		≤10					
Wave Crest Ratio	s1.7						
Starting Time (Seconds)		5 Minutes Maximum					
Pulse Start		4-5KV					
Output Rated Frequency		110HZ					
Open Circuit Voltage		≤440					
Efficiency	≥93%						
6-Phase Dimming	Yes						
0-10V Dimming	No Yes Yes						

CERAMIC METAL HALIDE (SINGLE-LAMP)











The PhotonMAX® CMH Series is available in two wattage options, the newest solution for HID products on the market. Providing a superior spectrum to standard Metal Halide and High-Pressure Sodium lamps, plants can benefit from improved structure and shape. Color appears as a 3000K at 90 CRI allowing cultivators to better assess plant needs.

APPLICATIONS

GREENHOUSE:

Cannabis, hemp, tomatoes, fruiting and flowering crops.

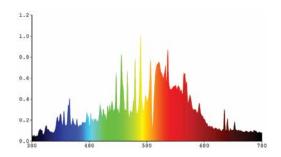
INDOOR:

Cannabis, hemp, and warehouse style growing.

- High CRI (90)
- 3000K Lamp
- Two Wattage Options
- PGZ18 Base, Ensures using the correct lamp
- High Reflectivity Reflector
- Standard 3-Year Warranty

CERAMIC METAL HALIDE (SINGLE-LAMP)

SPECTRUMS



		PH-MHF315130	PHMHF315230					
ITEM	SPECIFICATION	DETAILS						
	Wattage	315	w					
	PPF	≥480i	≥480umol					
GENERAL PERFORMANCE	Ballast Efficiency	≥. 9	≥. 92%					
	Lifetime (Lamp)	10,000 Hours						
	BTU Output	3,412 BTI	U's/Hour					
	Frequency	50/6	OHz					
FLECTRICAL	Input Voltage	120-240V	220-277V					
ELECTRICAL	THD	≤10	0%					
	Power Factor	≥.9	98					
PHYSICAL	Start/Warm up	5 Mins.						
CERTIFICATION	Certifications	ETL, (CETL					

BALLAST SPECIFICATIONS:	PH-MHF315130 PHMHF315230						
SPECIFICATIONS	DETAILS						
Input Voltage	120-240V 220-277V						
Input Frequency (HZ)	50/60 HZ						
Input Power Factor	≥.98						
THD (%)	s	≤10					
Wave Crest Ratio	≤1.7						
Starting Time (Seconds)	5 Minutes Maximum						
Pulse Start	4-5	SKV					
Output Rated Frequency	110	HZ					
Open Circuit Voltage	≤4	40					
Efficiency	≥92%						
6-Phase Dimming	Yes						
0-10V Dimming	No Yes						

CERAMIC METAL HALIDE (DUAL-LAMP)











The PhotonMAX® CMH Series is available in two wattage options, the newest solution for HID products on the market. Providing a superior spectrum to standard Metal Halide and High-Pressure Sodium lamps, plants can benefit from improved structure and shape. Color appears as a 3000K at 90 CRI allowing cultivators to better assess plant needs.

APPLICATIONS

GREENHOUSE:

Cannabis, hemp, tomatoes, fruiting and flowering crops.

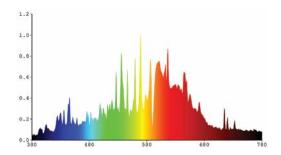
INDOOR:

Cannabis, hemp, and warehouse style growing.

- High CRI (90)
- 3000K Lamp
- Two Wattage Options
- PGZ18 Base, Ensures using the correct lamp
- High Reflectivity Reflector
- Standard 3-Year Warranty

CERAMIC METAL HALIDE (DUAL-LAMP)

SPECTRUMS



		PH-MHF630130	PHMHF630230					
ITEM	SPECIFICATION	DETAILS						
	Wattage	630	ow .					
	PPF	≥1000	umol					
GENERAL PERFORMANCE	Ballast Efficiency	≥. 9.	≥. 92%					
	Lifetime (Lamp)	10,000 Hours						
	BTU Output	3,412 BTU	J's/Hour					
	Frequency	50/6	OHz					
ELECTRICAL	Input Voltage	120-240V	220-277V					
ELECTRICAL	THD	≤10	%					
	Power Factor	≥.98						
PHYSICAL	Start/Warm up	5 Mins.						
CERTIFICATION	Certifications	ETL, (CETL					

BALLAST SPECIFICATIONS:	PH-MHF630130 PHMHF630230					
SPECIFICATIONS	DETAILS					
Input Voltage	120-240V 220-277V					
Input Frequency (HZ)	50/60 HZ					
Input Power Factor	≥.98					
THD (%)	s10					
Wave Crest Ratio	≤1.7					
Starting Time (Seconds)	5 Minutes	Maximum				
Pulse Start	4-5	kV				
Output Rated Frequency	110HZ					
Open Circuit Voltage	s440					
Efficiency	≥92%					

HORTICULTURE LIGHTING REQUEST FORM

STANDARD CROPS

		I					
Project Name:		Dealer Company:					
Dealer Contact:		Customer Contact:					
	Street Address:						
Job Company:	City:						
		State:		Zip C	ode:		
Your E-Mail:		Phone:					
Crop:		☐ Arch ☐ Got	hic Cable	0	ther:		
Structure: Greenhouse	Warehouse Other						
			, ,	` _			
BUILDING MEASUREMENTS:							
Number of Buildings	Width W	Length L			m of the Trus	S,	
				Eave	Height H		
Peak Height PH	Space Between Trusses TS	Bench + Crop Heig	rht = CU				
reak Height Fh	Space between musses 13	Bench - Crop Heig	grit – CH				
	2						
	^		Obstacles			Y N	
			Partition bet	tion between bays?			
			Material:				
PH TS	A H	\rightarrow	า?				
		If yes, is it below the truss?			е		
N							
L		<u></u>					
Building Specifications	Crop Height & Light	Distrance					
BENCH MEASUREMENTS		_					
	Hadaadal	Oth					
Vertical Vertical	— BL Horizontal	Other	Numb	er of	Bench	Bench	
	P BW		Bench		Length BL	Width BW	
	AS						
	0-		Bench BS	n Start	Aisle Space	Space from Wall WS	
					A3	vvali vv 3	
AS BS				nit a sketch ut with dime			
AS S			. iayu	at with diffe	11310113		
	BS BS						
Orientation of Benches:	Vertical Horizontal	Other					
Bed/Bench Type:	Stationary Rolling	Ground Beds	Other				
Bench height from floor:							

HORTICULTURE LIGHTING REQUEST FORM

STANDARD CROPS

Light Requirement	ts: Sole source (indoor)	Primarily supplimental	☐ Photoperiod/Daylength extension
Growth Stage:	Propagation	☐ Vegetative	☐ Flowering
Uniformity Desired	High (may result in more fixture	s) Low (may result in fewer fixture	s)
Desired Intensity Micromoles:		Footcandles: Natural+supp Supplime crop type and my region and focus on:	ental only=
			FIXTURE INFORMATION:
Fixture/	HID (HPS) Double-End	HID (CMH) Single-End	HID (CMH) Dual Lamp Single-End
Technology Type:	LED	☐ T8 (LED) Single-End	
	☐ 120V	□ 208V	240V
Voltage:	☐ 277V	☐ 347V	☐ 480V
Plug/Cord Requirements:			
Other Special Requirements not Listed above:			



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