

PHOTONMAX 630W Ceramic Metal Halide

The PhotonMax Dual-Lamp Series, 630W Ceramic Metal Halide (CMH) solution, delivers superior spectral quality to other HID lamps on the market! Delivering increased greens, UV, and red spectrum, the full spectrum solution allows application versatility not feasible with traditional HID lamps. With a passive cooling design, an added cooling fin's, the PhotonMax solution sports a thin profile, ideal for green house applications. The CMH complete fixture can be used as a primary, or supplemental solution, from vegetative to flowering applications.



PERFORMANCE:

- Delivers up to 1.75 $\mu\text{mol/J}$
- 630W Ceramic Metal Halide Lamp(s)
- 120V and 277V (347V Special Order)

MECHANICAL:

- Ballast Dimensions: 11.88" x 9.13" x 4.8"
- Reflector Dimensions: 10.66" x 4.6" x 4.44"

FINISH:

- White Finish

CONSTRUCTION:

- Aluminum Ballast
- High Reflectivity Aluminum Reflector
- Cooling Fins along ballast for Passive Cooling design

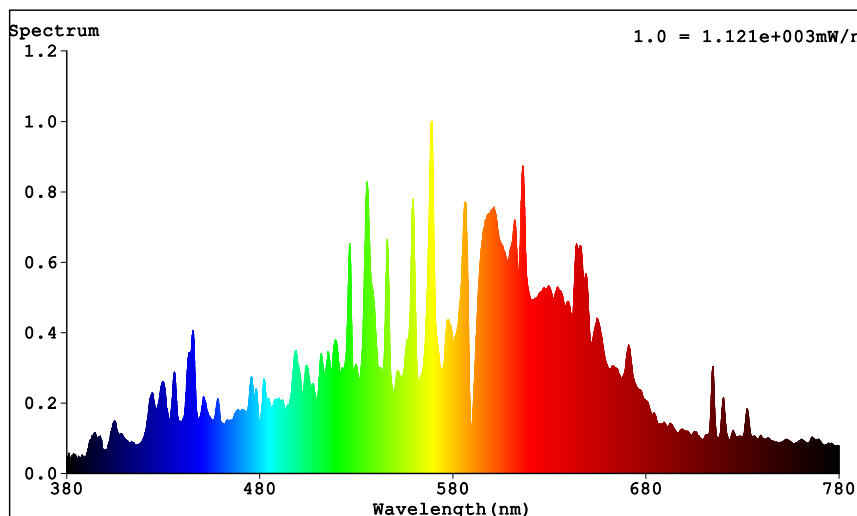
MOUNTING:

- See instruction manual for details

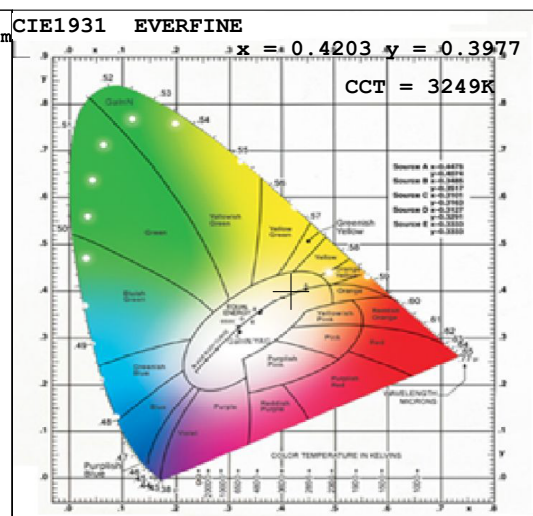
ENVIRONMENT:

- Damp or Dry Location

SPECTRAL ANALYSIS:



Spectral Distribution



CIE1931 Chromaticity Diagram



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SPECIFICATIONS:

		PH-MHF630130	PH--MHF630230
ITEM	SPECIFICATION	DETAILS	
GENERAL PERFORMANCE	Wattage	630W	
	PPF	≥1000umol	
	Ballast Efficiency	≥.92%	
	Lifetime (Lamp)	10,000 Hours	
	BTU Output	3,412 BTU's/Hour	
ELECTRICAL	Frequency	50/60Hz	
	Input Voltage	120-240V	220-277V
	THD	≤10%	
	Power Factor	≥0.98	
PHYSICAL	Start/Warm up	5 Mins	
CERTIFICATION	Certifications	ETL, cETL	

BALLAST SPECIFICATIONS:

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SPECIFICATIONS		DETAILS	
Input Voltage		120-240V	220-277V
Input Frequency (HZ)		50/60HZ	
Input Power Factor		≥.98	
THD (%)		≤10	
Wave Crest Ratio		≤1.7	
Starting Time (Seconds)		5 Minutes Maximum	
Pulse Start		4-5KV	
Output Rated Frequency		110HZ	
Open Circuit Voltage		≤440	
Efficiency		≥92%	
6-Phase Dimming		Yes	
0-10V Dimming		No	Yes

MODEL SELECTION Typical order example: PH-MHF630130

PH	-	630	-		30
FAMILY	-	NOMINAL WATTAGE	-	TYPE	CCT
PH=PhotonMax		630=630 Watts		MHL=Metal Halide Lamp MHF=Metal Halide Fixture	30=3000K

ORDERING INFORMATION:

ORDER NUMBER	MODEL	DESCRIPTION
1409956	PH-MHF630130	630 Watt Two-Lamp Ceramic Metal Halide Complete Fixture (Lamps Included) (120V)
14099004	PH-MHF630230	630 Watt Two-Lamp Ceramic Metal Halide Complete Fixture (Lamps Included) (277V)
107826	PH-MHL315130	315W Single Lamp Replacement

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LAMP SPECIFICATIONS:

		PH-MHF630130	PH--MHF630230
ITEM	SPECIFICATION	DETAILS	
GENERAL PERFORMANCE	Cap-Base	PGZ18	
	Operating Position	Universal	
	Life To 10% Failures	10,000 HRS	
	System Description	CMH315W/942/PZ18	
LIGHT TECHNICAL	Color Code	3000 [CCT of 3000K]	
	Luminous Flux (Rated)	≥30,430	
	Photosynthetic Photon Flux (PPF)	≥480umol	
	PPF Maintenance (4,000 Hour)	≥85%	
	PPF Maintenance (8,000 Hour)	≥75%	
	PPF Maintenance (10,000 Hour)	≥70%	
	Chromaticity Coordinate X (Nom)	0.4185	
	Chromaticity Coordinate Y (Nom)	0.3985	
	Correlated Color Temperature (Nom)	3300K	
	Luminous Efficacy (Rated) (Nom)	100 lm/w	
	Color Rendering Index (Nom)	90	
OPERATING AND ELECTRICAL	Lamp Supply Voltage	80-120V	
	Power (Rated) (Min)	300W	
	Power (Rated) (Nom)	3150W	
	Ignition Supply Voltage	≥3500V	
	Re-ignition Time (Min) (Max)	30 minutes	
	Ignition Time	≤5 Seconds	
CONTROLS AND DIMMING	Dimmable	NO	
	Run-Up Time 90% (Max)	5 mins@25°C	
APPLICATION	Mercury (Hg) Content (Nom)	20mg	
	Energy Consumption kWh/1000	340KW	
LAMP TEMPERATURE	Lamp Temperature (Max)	420°C	
MECHANICAL AND HOUSING	Lamp Finish	Clear	



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