

PHL440LMP

PHENO 440 LED, 440W, 100–277V

MP SPECTRUM

The Phantom PHENO 440 horticultural lighting system combines high photon flux with superior efficiency. The low-profile design and wide voltage range is ideal for a wide range of applications. Two adjustable light bars allow user to adjust light spread. Integrated output knob and PX port provides control over the amount of photons to the plant canopy. This efficient and versatile system is compatible with PX series controllers (sold separately) to manage photoperiod and output.



System Overview

Model	PHL440LMP
Fixture Type	High Efficiency Horticultural LED
Spectrum	MP
Photon Flux (PAR 400–700 nm)	1100 $\mu\text{mol/s}$ @277V
Input Power (W)	440
Efficacy (400–700 nm)	2.5 $\mu\text{mol/J}$ @277V
Input Voltage Range	100–277V Auto Recognition
Lifetime	Q90: > 50,000 hr
Optics	Primary 120 Optics
Dimmable	0–10V PX RJ Port
Driver	Output Compensating IP67 Driver
Operating Environment	Wet Location
Ingress Protection Rating	IP65
Warranty Period	5 Year

Electrical Specifications

Fixture Power (W)	440 \pm 5%
Input Voltage Range	120–277V
Max Voltage Range	90–305V
Frequency	50/60Hz
THD	<15%

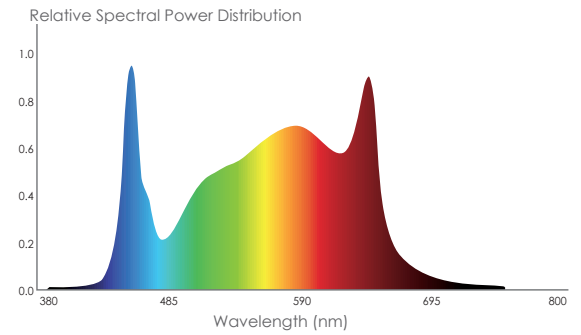
Input Amperage Reference

Voltage Input	120V	208V	240V	277V
Power Factor	0.98	0.95	0.94	0.93
Max Amperage	3.74	2.23	1.9	1.6

Operating Conditions

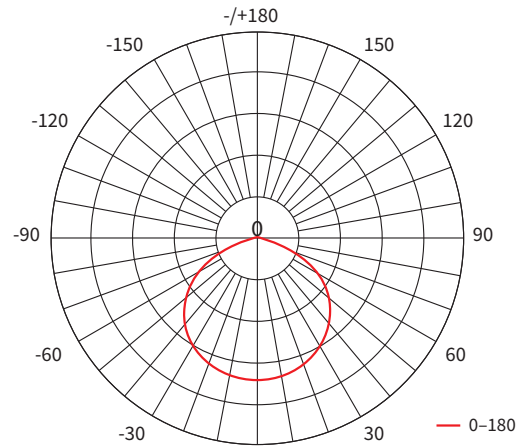
Rated Operating Temperature	77°F/25°C
Minimum Operating Temperature	-4°F/-20°C
Maximum Operating Temperature	104°F/40°C
Operating Environment	Wet Location
Ingress Protection Rating	IP65

MP Spectrum



MP Spectrum: Suitable for both flowering and vegetative stages, the Multi-Phase spectrum provides ideal red to blue ratio for vigorous growth and to maximize flower development.

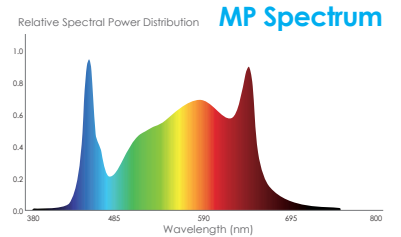
Photosynthetic Photon Intensity Distribution



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Driver Specifications

Microprocessor Control	Yes
Open Circuit Protection	Yes
Short Circuit Protection	Yes
Overtemperature Protection	Yes
Over/Undervoltage Protection	Yes
Over/Undervoltage Indicator	Yes
Output Compensation	Yes
0-10V	Yes
Internal EMI Suppression	Yes

Safety Certifications

Certification Mark	UL & CE
Conforms to UL 1598	Yes
Conforms to CSA C22.2 # 250.0	Yes
Compliant to OOI UL 8800	Yes
FCC Commercial	Yes
FCC Residential	Yes



Operation Notes

For use with a generator, line conditioning equipment to control input voltage must be used in order to avoid damage to fixture. Product is not designed to use with residential power strip. Failure to observe these warnings will result in void of warranty. Contact us for more information. Clean lens with a damp microfiber cloth.

	WARNING – POSSIBLE RISK OF INJURY TO EYES AND SKIN
	<p>Hazardous optical UV, HEV, and IR radiation may be emitted from the light source. Always wear personal protective equipment ensuring complete shielding of skin and eyes. Avoid prolonged exposure and looking directly at light source.</p>

Cable Harnesses

Specific 10' cable harness sold separately based on facility requirements.

- CHE1063000W** 10' F 16AWG WT w/leads, Harness
- CHE1063010W** 10' F 16AWG WT 110-120V Plug, 5-15P, Harness
- CHE1063015W** 10' F 16AWG WT 208-240V Plug, 6-15P, Harness
- CHE1083020W** 10' F 18AWG WT locking 277V, L7-15P, Harness
- CHE1083021W** 10' F 18AWG WT locking 277V, L7-20P, Harness

Mechanical Specification

Dimensions (L x W x H)	800 x 426 x 101.4 mm / 31.5" x 16.77" x 3.99"
Net Weight	9 kg / 19.84lbs
Thermal Management	Passive
Material	Aluminum, Stainless Steel

Dimensional Drawing

