

Date:	Approved:
Type:	
Fixture:	
Project:	

HID GROW LIGHT - LS-GLHID-1000 JOULES*

STANDARD



The LS-GLHID-1000 is a high-performance, high intensity discharge (HID) grow light. Designed to illuminate commercial horticultural facilities, the HIDGL-1000 provides uniform illumination from T10, dual-ended HID lamps, which are both an economical and proven lighting technology. Using either high pressure sodium (HPS) or metal halide (MH) lamps, the LS-GLHID-1000 provides a wide variety of lighting color spectrums, which optimize plant growth at all stages of maturation.

FEATURES

- Complete luminaire comes with the following standard equipment: Electronic HID ballast, reflector, HPS lamp, AC power cord, and one set of ratcheting rope hangers.
- Models designed for use with 120-240 input voltage come standard with a detachable AC cordset terminated with a NEMA 5-15P (120V) plug. Use optional, detachable AC power cord with NEMA 6-15P plug for 208-240V applications.
- Models designed for use with 208-277 input voltage come standard with a hard-wired AC cordset terminated with stripped wires.
- Field-adjustable, 5-level dimming adjustment provides control over individual luminaires. Optional programmable controller provides control over up to 100 luminaires.
- Delivers photosynthetic photon flux (400-700 nanometers) of 1,648 $\mu\text{mol}/\text{second}$ of photosynthetic active radiation (PAR) with HPS lamps, and 1,241 $\mu\text{mol}/\text{second}$ of PAR with MH lamps (both with dimming control at the 1,000 level). See Spectral Quantum Distribution for additional details.**
- Input power of 1,055 Joules*, and photosynthetic photon efficiency (PPE) of 1.6 with HPS lamps and 1.2 with MH lamps.*
- High-frequency electronic ballast provides optimal efficiency with either HPS or MH lamps.
- Select from universal 120-240 AC voltage (50-60Hz) or universal 208-277 AC voltage (50-60Hz).
- Power factor > 0.95.
- Total harmonic distortion < 10%.
- Current crest factor < 1.7.
- Extruded aluminum ballast housing & specular aluminum reflector.
- Sliding lamp holders lock lamp securely in place.
- Mount luminaire by hanging from two pre-installed mounting hooks. Luminaire mounting height is easily adjusted using enclosed ratcheting rope hangers.

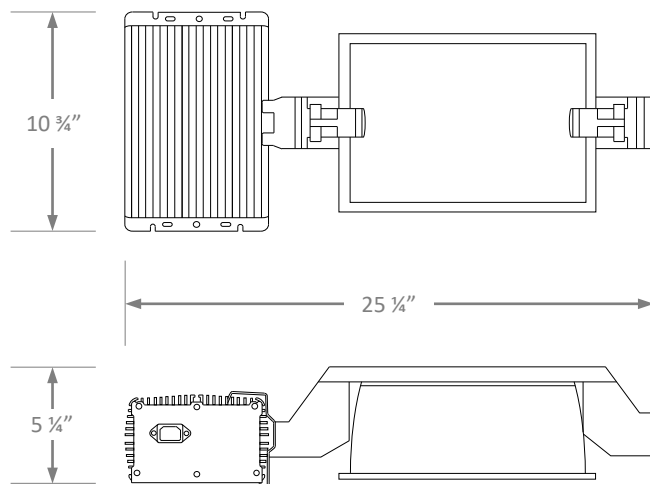
** Contact factory for other lamp and lumen packages.



WARRANTY & LISTINGS

- cETLus for damp locations.
- Suitable for ambient temperatures from -25°C to 40°C (-13°F to 104°F).
- Complies with ANSI/IEEE C62.41, surge immunity protection (1.5kV).
- 5-year warranty on housings, 3-year warranty on ballasts, and 1-year warranty on lamps.

DIMENSIONS



Weight: 12.2 lbs.

ORDERING INFORMATION

Example: LS-GLHID-1000-HPS-120-240

Series	Input Power (Joules)	Lamp		Input Voltage		Accessories (Order Separately)	
LS-GLHID	1000	HPS	High Pressure Sodium	120-240	120-240V	LS-GLHID-AC5M240C13	AC power cord, NEMA 6-15P plug (208-240V), IEC320 C13 plug,
		MH	Metal Halide (6000k)	208-277	208-277V	LS-GLHID-PC	5 meters long Programmable controller
						LS-GLHID-HPS1000	Replacement lamp, 1000J high pressure sodium
						LS-GLHID-MH1000-6K	Replacement lamp, 1000J metal halide (6000K)
						LS-GLHID-REF	Replacement reflector
						LS-GL-TETHER	Ratcheting rope hangers (pair), 2 meters long

*Joules = watts/second

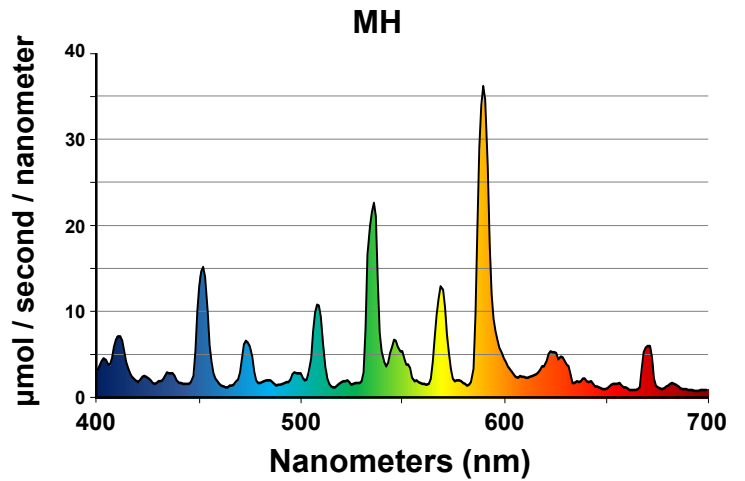
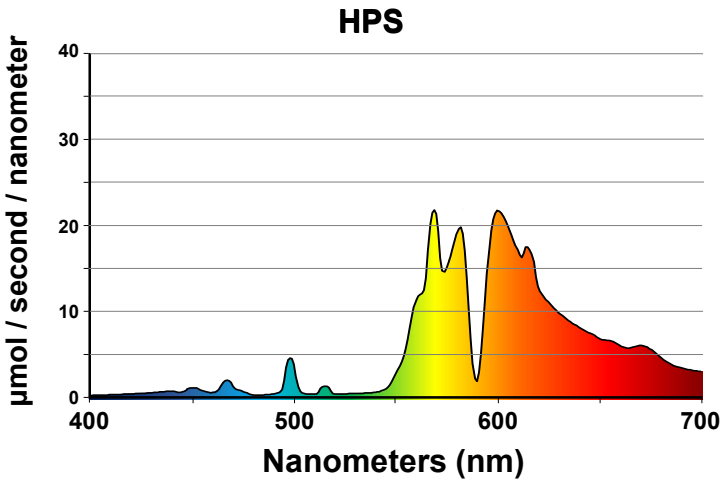
ELECTRICAL DATA

Model	Photosynthetic Photon Flux ($\mu\text{mol}/\text{second}$)	Input Power (Joules*)	Photosynthetic Photon Efficiency (PPE)	Input Current (A) ¹				Power Factor	THD ²	Average Lamp Life
				120V	208V	240V	277V			
LS-GLHID-1000-HPS	1,648	1,055	1.6	8.8	5.1	4.4	3.8	>95%	<10%	12,000
LS-GLHID-1000-MH	1,241	1,058	1.2	8.8	5.1	4.4	3.8	>95%	<10%	10,000

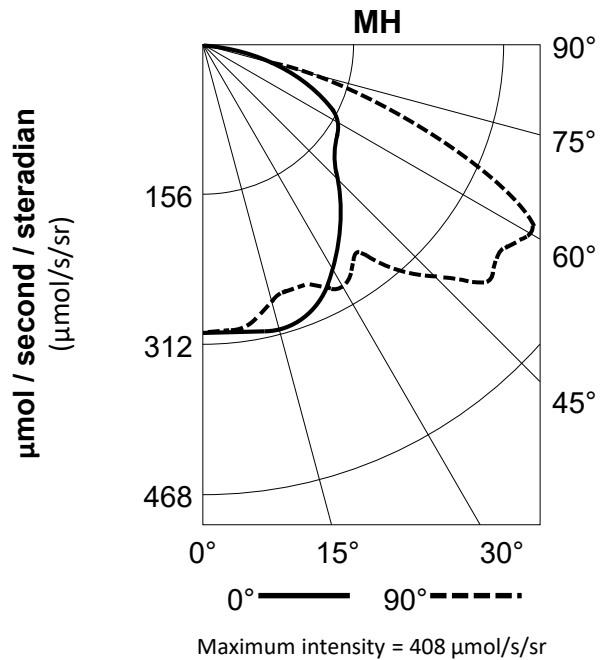
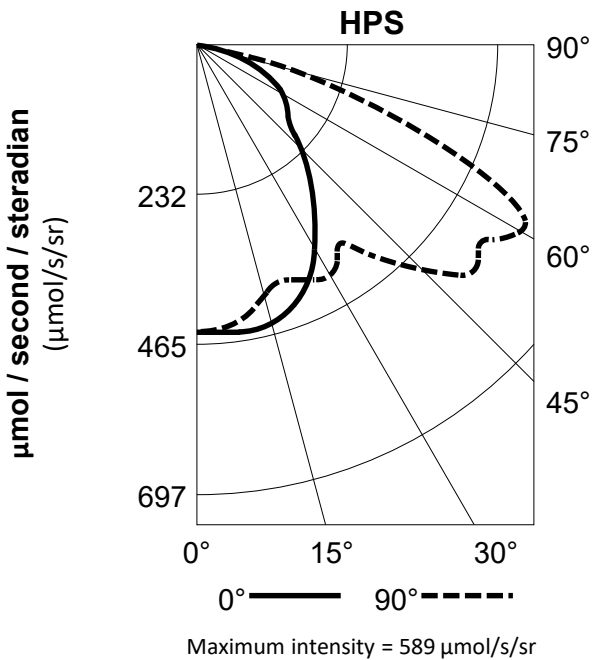
¹ All 50-60Hz.

² Total harmonic distortion.

SPECTRAL QUANTUM DISTRIBUTIONS

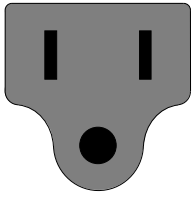


PHOTOSYNTHETIC PHOTON INTENSITY DISTRIBUTION (PPID)

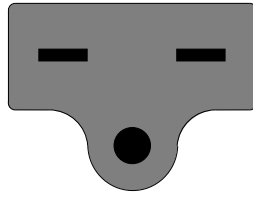


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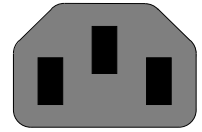
AC PLUGS



**NEMA 5-15P
(120V)**



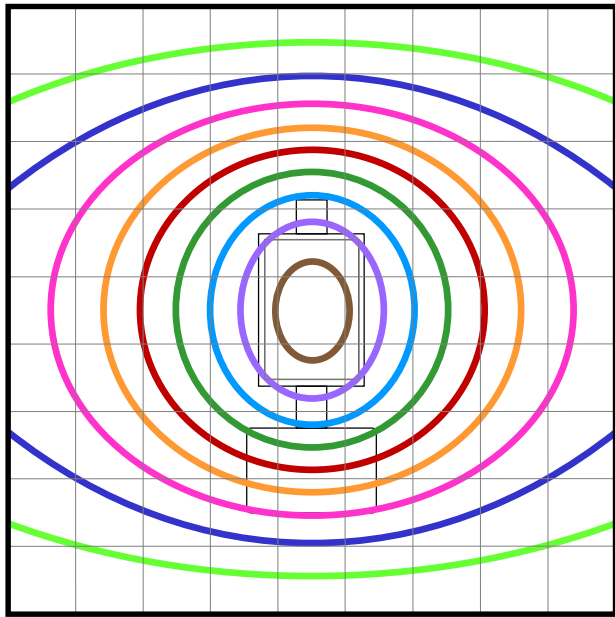
**NEMA 6-15P
(208-240V)**



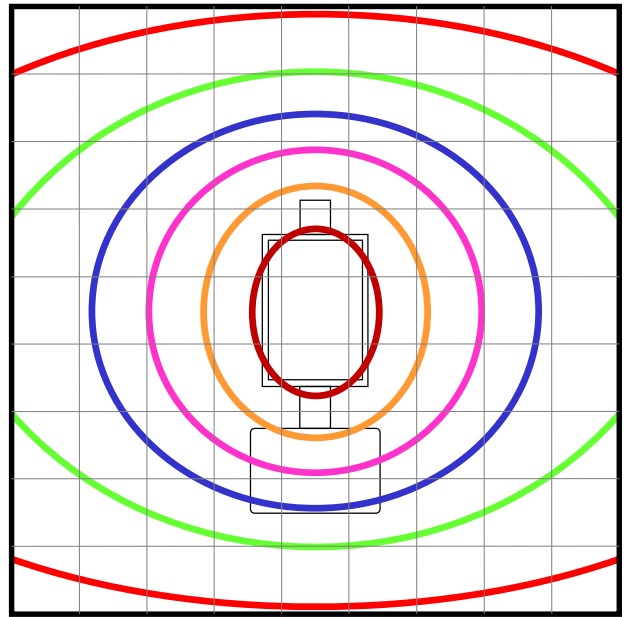
**IEC320 C13
(up to 250V)**

PHOTOSYNTHETIC PHOTON FLUX DENSITY (PPFD)

HPS



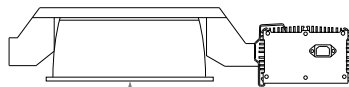
MH



4'

4'

4'



2'

PPFD Legend

- 1,100
- 1,000
- 900
- 800
- 700
- 600
- 500
- 400
- 300
- 200
- 100

PPFD Statistics

	HPS	MH
Maximum	1,201	817
Minimum	231	179
Average	545	397
Max to Min	5.2	4.6
Avg to Min	2.4	2.2



Joules = watts/second