

SG HO GREENHOUSE LED GROW LIGHT



800W LED



1000W HPS
REPLACEMENT

1:1 HPS Direct Replacement

Directly replaces 1000W HPS fixtures with a 1:1 footprint, allowing growers to seamlessly upgrade existing HPS installations to LED with 25% energy savings.

Greenhouse Spectrum

Professional grade full-spectrum light formulated to promote healthy full-cycle growth, root development, tight internodal spacing and flower production.

IP66 Rated

IP66 rated components protect the fixture from dust and water exposure commonly encountered in most CEA applications.

MAX OUTPUT High PBAR Output & Efficacy

Ideal for use in commercial greenhouses, CEA environments and hydroponic applications where boosting DLI is critical for target growth requirements.

DIM 0-10V 0-10V Dimmable

Easy to use 0-10V dimming compatible with standard horticulture lighting control systems. Group control systems available upon request.

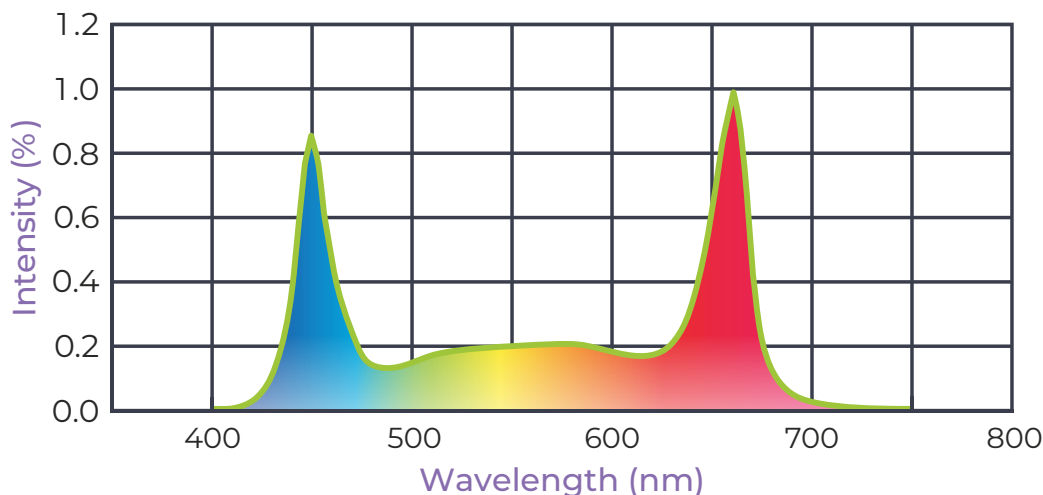
SafeShield Optic & Extra-Long Lifetime

SafeShield proprietary optics create a thermal buffer to protect LED diodes from overheating, guaranteeing a 50,000-hour lifetime.

Active Grow Greenhouse Spectrum Formula

PBAR Range (280-800 nm) Plant Biologically Active Radiation

UV 280-400 nm	Blue 400-500 nm	Green 500-600 nm	Red 600-700 nm	Far-Red 700-750 nm	Infrared 750-800 nm
0%	31%	25%	43%	1%	0%



Blue 400-500 nm

Improves overall plant health and quality including taste, aroma, color and nutrition. Helps promote plant compactness and root development.

Green 500-600 nm

Increases overall plant photosynthetic efficiency and penetrates the canopy to encourage growth of lower leaves. Makes detecting issues like pests and disease on plants easier to see.

Red 600-700 nm

Promotes plant photosynthesis and increased biomass. Essential for leaf expansion and stem growth. Helps regulate plant flowering, photoperiod and germination.

Far-Red 700-750 nm

Promotes expansion and stretching of leaves and stems. Penetrates the canopy to encourage growth of lower leaves. When used with 660-680 nm wavelengths, plant photosynthesis rates increase via the Emerson effect.

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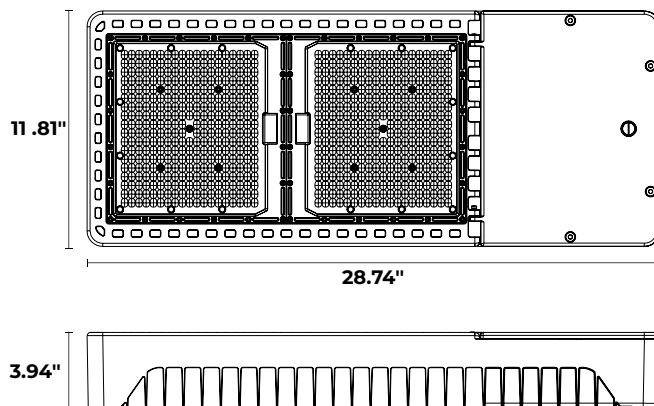


Product Installation



The 800W SG HO Greenhouse LED Grow Light installs easily into standard ceiling applications using included hanging hooks.

Product Dimensions



SPECIFICATIONS*		800W SG HO GREENHOUSE LED GROW LIGHT
Model number		AG/SG800/HO/GS/277V
Power		800 watts
Input voltage		120-277V 50-60Hz
Amperage		120V (6.86A) / 240V (3.43A) / 277V (2.97A)
Rated power factor		>0.95
PBAR output (280-800 nm)		2182 $\mu\text{mol/s}$
PBAR efficacy		2.73 $\mu\text{mol/J}$
Spectrum		Greenhouse Spectrum
CRI		60 (typical)
Dimensions (l x w x h)		28.74"x11.8"x3.94" (730x300x100mm)
Weight		37.84 lbs (17.16 kg)
Dimmable		0-10V
Daisy chainable power		Yes (MTO)
Daisy chainable dimming		Yes
Smart controller compatible		Yes
IP rating		IP66
Heat load		2730 BTU/hr
THD		<20%
Lifetime		50,000 hours
Warranty		5 years
Certifications		ETL (pending), DLC (pending)
Included accessories		240V NEMA power cord, 120V plug adapter, 2 hanging hooks, safety wire with clip, waterproof port covers, RJ45 data cable
Optional accessories		120/277V NEMA power cord, power daisy chain cable, dimming daisy chain cable, 0-10V dimming cable, smart controller

* Specification data is preliminary and may be subject to change.

AG-SG800-HO-GS-DS-042224