

# SG HO GREENHOUSE LED GROW LIGHT



**1000W LED**



**1200W HPS**  
REPLACEMENT

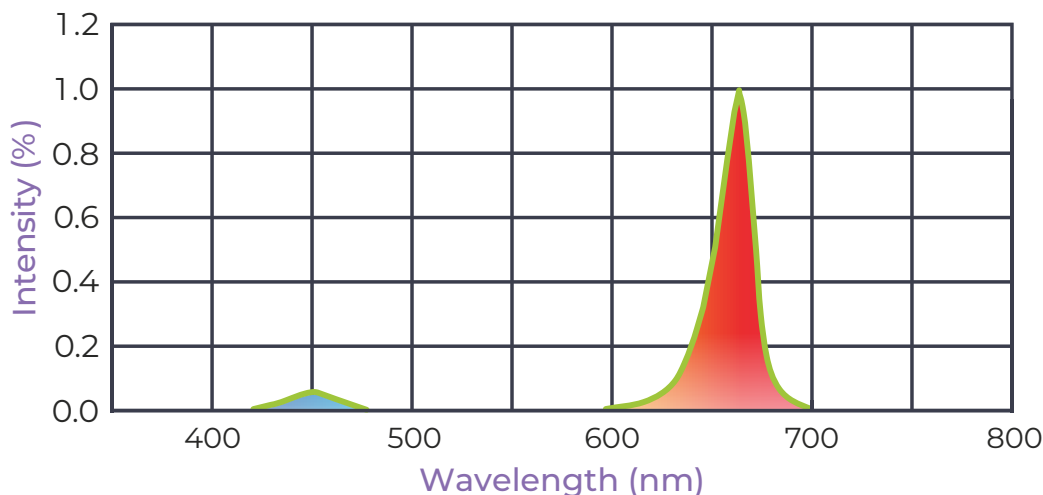
- 1:1 HPS Direct Replacement**  
Directly replaces 1200W HPS fixtures with a 1:1 footprint, allowing growers to seamlessly upgrade existing HPS installations to LED with 25% energy savings.
- Red Boost Spectrum**  
Dedicated heavy red and light blue wavelengths efficiently boost healthy vegetative and flowering stages by speeding up chlorophyll absorption rates to create faster growth cycles.
- 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**  
Designed 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 Red Boost 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%	3%	0%	97%	0%	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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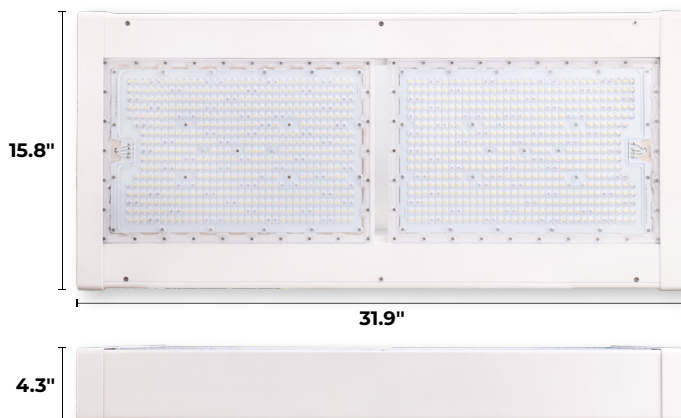


## Product Installation



The 1000W SG HO Greenhouse LED Grow Light installs easily into standard ceiling applications using included hanging hooks.

## Product Dimensions



SPECIFICATIONS*	1000W SG HO GREENHOUSE LED GROW LIGHT
Model number	AG/SG1000/HO/RB/277V
Power	1000 watts
Input voltage	120-277V 50-60Hz
Amperage	120V (8.33A) / 208V (4.81A) / 240V (4.17A) / 277V (3.61A)
Rated power factor	>0.95
PBAR output (280-800 nm)	3450 $\mu\text{mol/s}$
PBAR efficacy (280-800 nm)	3.45 $\mu\text{mol/J}$
Spectrum	Red Boost Spectrum
CRI	NA
Dimensions (l x w x h)	31.9"x15.8"x4.3" (810x401x109mm)
Weight	44.53 lbs (20.2 kg)
Dimmable	0-10V
Daisy chainable power	Yes (MTO)
Daisy chainable dimming	Yes
Smart controller compatible	Yes
IP rating	IP66
Max ambient temp.	113°F / 45°C
Heat load	3412 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, RJ12 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-SG1000-HO-RB-DS-042224