

ZELION® HL300 Grow Light



Dimmable and Spectra Tunable LED Horticulture Fixture



Key Features & Benefits

- Emits light in the photosynthetically active region (400–700 nm) of the visible light spectrum
- Designed to withstand crop production environments
- Optimized fixture design makes it easy to install and provides the smallest shadow footprint compared to similar class LED fixtures
- Environmentally friendly alternative to HPS and MH technologies with up to 50% energy savings
- Dimmable and spectra tunable to meet the crop life cycle needs using PC based (Windows XP or Windows 7) interface software and controllers used to manage greenhouse processes
- UL certified for horticultural lighting and RoHS compliant
- Proven OSRAM LED technology for superior performance and life
- Optimum photon delivery per watt compared to similar class LED fixtures
- Superior alternative to traditional HPS and MH lighting systems
- Warranty: 2 years (See User Manual for policy details)
- 9 ft RS485 communication cable included
- 9 ft power cord (female/stripped end) included
- 2 hanger supports included

The ZELION HL300 Grow Light is a 100 to 600 watt dimmable and spectra tunable LED horticulture light fixture. The Grow Light is designed to meet the plant spectra needs for optimum photosynthesis and energy efficiency resulting in faster growth and increased crop yield.



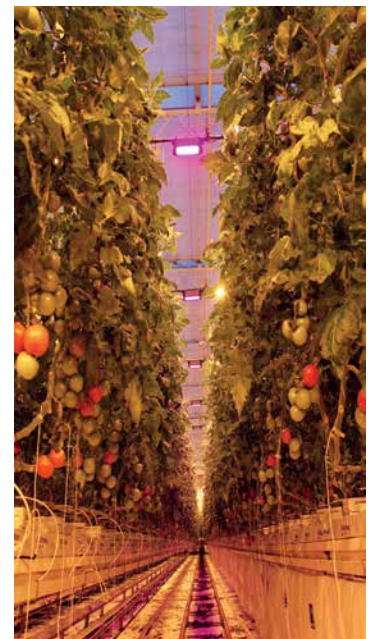
Application Information

Applications

- Commercial greenhouses
- Garden centers
- Research facilities
- Universities

Disposal

Consult federal, state, local and provincial hazardous waste disposal rules and regulations to ensure proper disposal.



Technical Information

Product Abbreviation	ZELION HL300 Grow Light
Product Number	61100
Power Input	120/277 V _{AC} / 50-60 Hz
Power Usage	100-600 W (adjustable via controller)
Light Output	2.2 - 2.4 μmol/s per Watt
Light Coverage	Up to 130 ft ² (12m ²) (depending on intensity)
Dimming Range	10–100%
Light Intensity Depreciation	L ₈₅ B ₁₀ 50,000 hours
Operating Temperature	0-104°F (0-40°C)
Degree of Protection	IP54
Dimensions	22 x 9 x 6 in. (l x w x h)
Net Weight	27 lbs.
Warranty*	2 years (See User Manual for policy details)

*5 year warranty available. Contact your OSRAM representative for more details.

When evaluating LED solutions, it is important to check on two parameters: the temperature of the LEDs when the fixture is running and the light distribution on your plant canopy.

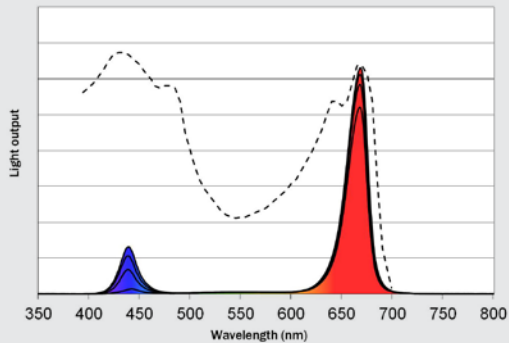
- ZELION HL300 Grow Light is equipped with a patented active cooling system that maintains low LED junction temperature ensuring long LED life and uniform spectra over the life of the fixture.
- ZELION HL300 Grow Light is designed with a patent pending optical system providing a uniform light distribution unparalleled by any other LED horticulture fixtures.



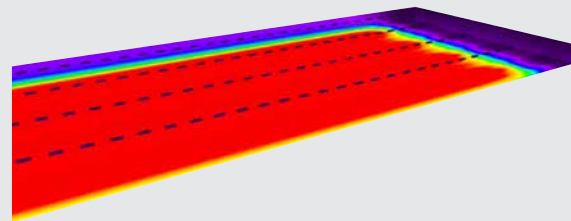
Accessories

Product Abbreviation	Product Description	Product Number	Quantity
ZELION HL300 40X40X300 HANGER	Long hanger	54230	12
ZELION HL300 40X40X100 HANGER	Short hanger	54331	12
ZELION HL300 POWER CORD-3M	Power Cord (9.8 ft., stripped end)	54332	5
ZELION HL300 POWER CORD-5M	Power Cord (16.4 ft., stripped end)	54333	5
ZELION HL100/HL300 LED CTRLR	Light Controller for up to 49 fixtures	54334	1
ZELION HL100/HL300 EXP MODULE	LED expansion module for use with LLC controller	54335	1
ZELION HL100/HL300 LLC CTRLR	LLC LED light controller with capabilities to control large scale greenhouse lighting control applications	54336	1

Spectral Distribution



Spectral distribution of ZELION HL300 Grow Light together with a general action spectrum of plant absorption on a photon level. Spectral distribution for ZELION HL300 Grow Light shown for 2, 6, 10, 14% blue.



Actual example: 4 rows of 56 ZELION HL300 Grow Light fixtures in a 65' x 260' greenhouse. Typical lighting distribution model offered by OSRAM during design phase.

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