

# ZELION® HL300 Grow White



Dimmable and Spectra Tunable LED Horticulture Fixture



The ZELION HL300 Grow White is a 100 to 600 watt dimmable and spectra tunable LED horticulture light fixture designed for horticulture applications in collaboration with growers needing special lighting requirements.

The Grow White has a combination of the Grow and Sunlight fixtures' spectrum. This spectrum is used in climate chambers where a higher photosynthetic activity is required or by growers requiring supplemental light where color recognition and rapid, healthy growth are key factors.

## 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

## 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.



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## Technical Information

<b>Product Abbreviation</b>	ZELION® HL300 Grow White
<b>Product Number</b>	61101
<b>Power Input</b>	120/277 V <sub>AC</sub> / 50-60 Hz
<b>Power Usage</b>	100-600W (adjustable via controller)
<b>Light Output</b>	1.8 - 2.0 μmol/s per Watt
<b>Light Coverage</b>	Up to 130 ft <sup>2</sup> (12m <sup>2</sup> ) (depending on intensity)
<b>Dimming Range</b>	10-100%
<b>Light Intensity Depreciation</b>	L <sub>85</sub> B <sub>10</sub> 50,000 hours
<b>Operating Temperature</b>	0-104°F (0-40°C)
<b>Degree of Protection</b>	IP54
<b>Dimensions</b>	22 x 9 x 6 in. (l x w x h)
<b>Net Weight</b>	27 lbs.
<b>Warranty*</b>	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.

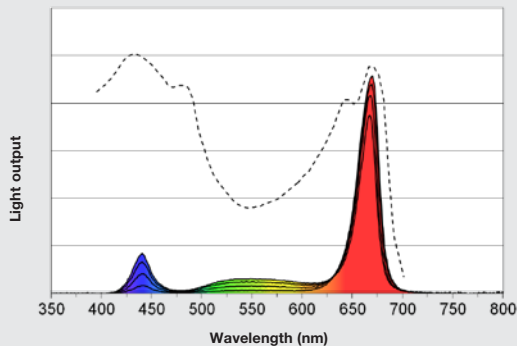
- ZELION HL300 Grow White is equipped with a patented active cooling system that maintains low LED junction temperature ensuring long LED life and uniform spectra over the life of the fixture.
- ZELION HL300 Grow White is designed with a patent pending optical system providing a uniform light distribution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



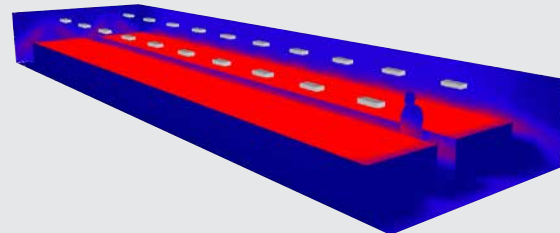
## Accessories

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



This spectrum is used in climate chambers where a higher photosynthetic activity is required or by growers requiring supplementary lighting where color recognition and rapid, healthy growth are key factors.

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