

HORTICULTURE LED PRODUCTS

Plant-safe green LEDs are designed to emit light at a wavelength that plants are less sensitive to, making them ideal for use during the dark cycle. This means that growers can perform essential tasks—like checking on plants, watering, or making adjustments—without interrupting the plants' natural growth processes or triggering any stress responses.



Since plants primarily respond to blue and red light, they “see” very little of the green spectrum, allowing for visibility for humans while minimizing any potential impact on the plants. This capability helps maintain the integrity of the dark cycle, promoting healthier growth and development.

HORTICULTURE VAPOR TIGHT



PART NUMBER	ZL-HVT-40W-GREEN	PRODUCT FEATURES	
 		WATTAGES	40W
		COLOR TEMPS	Green
<p>APPLICATIONS</p> <ul style="list-style-type: none"> • Fluorescent replacements • Metal halide replacements • Vertical farms • Grow tents • Supplemental growth lighting 		WAVELENGTH	520nm
		INPUT VOLTAGE	120-277V
<p>The ZLEDLighting Horticulture Vapor Tight with Magnilumen Plus Green LED chips is designed for mid-level to commercial horticulture applications. Benefits include high-efficiency, a photon flux of 22.24 umol/s, long life, instant turn on and a simple 4FT design that can be used to maintain light and will not disrupt plants during their dark cycle.</p>		PHOTOSYNTHETIC PHOTON FLUX	22.24 umol/s
		DIMENSION	48" x 6.77" x 4.25"
		RATED LIFE	50,000 hours
		WARRANTY	5 years
		RATED	ETL, IP65



HORTICULTURE GREEN MAGNILUMEN PLUS BARS RETROFIT KIT

PART NUMBER	ZL-HMP-40W-GREEN	PRODUCT FEATURES	
 <div style="text-align: right; margin-top: 10px;">  </div>		WATTAGES	40W
		COLOR TEMPS	Green
		WAVELENGTH	520nm
		INPUT VOLTAGE	120-277V
		LUMENS PER WATT	150 lm/w with diffuser
		DIMENSION	42.91"
		RATED LIFE	50,000 hours
		WARRANTY	5 years
		RATED	IP65
<p>APPLICATIONS</p> <ul style="list-style-type: none"> • Fluorescent replacements • Metal halide replacements • Vertical farms • Grow tents • Supplemental growth lighting 		<p>Green Magnilumen Plus 4 foot bars can retrofit into any existing fixtures to utilize during dark cycles. This helps increase workers safety during maintenance and allows better monitoring of the facility.</p>	

OPTIONAL EMERGENCY BACKUP DRIVER FOR MAGNILUMEN PLUS KIT

PART NUMBER	BL-EMRG-LED-15-1H	PRODUCT FEATURES	
 <div style="text-align: right; margin-top: 10px;">  </div>		BATTERY CHARGING TIME	24 hours
		EMERGENCY OPERATING TIME	1.5 hours
		KIT INCLUDES	1 2ft. Bar, EM driver, battery pack, harnesses, screws, and test button.
<p>We offer an Emergency Backup Driver with a 15W output and 100-277V voltage input for protection during emergencies.</p>			
<p style="text-align: center;">Can be added to either Vapor Tight Fixture or Magnilumen Retro Fit Kit</p>			

Report of Spectroradiometric & Electric Analysis for Light Source

Model No.:

Sample SN:

Manufacturer:

Tested By:

Description:

Test Report No.:

Date:

Reviewed By:

Test Condition

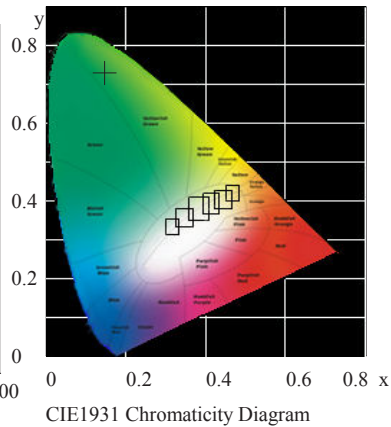
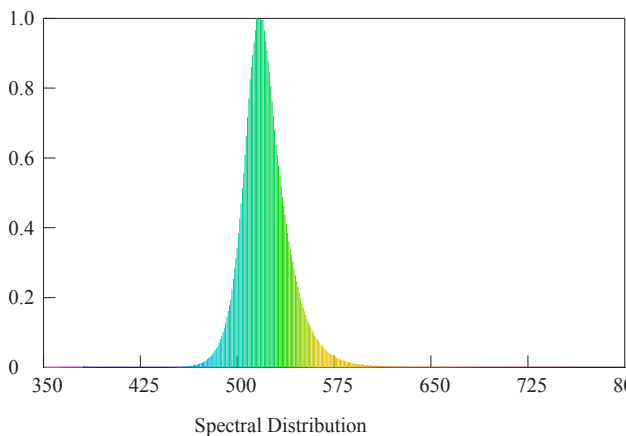
Temperature: 25°C

RH: 58%

Spectrum Range: 350-800 nm

Scan Step: 5 nm

Spectroradiometric Parameters



Chromaticity Coordinates: $x=0.1458$ $y=0.7295$ $u'=0.0509$ $v'=0.5728$

Correlated Color Temperature: 8206 K

Dominant Wavelength: 522.0 nm(E)

Colour Fidelity Index: $Rf=0$

Gamut Index: $Rg=0$

Luminous Flux: 2283.87 lm

Purity: 0.7882

Chromaticity Difference: +0.16469Duv

Peak Wavelength: 515.0 nm

Color Ratio: $Kr=1.1\%$ $Kg=69.9\%$ $Kb=29.0\%$

Bandwidth: 26.7nm

Radiant Flux: 5.067 W

Photosynthetically Active Radiation(PAR): 5.06W

Photosynthetic Photon Flux(PPF):22.24 μ mol/s

Rendering Index: $Ra=-28.3$

$R1=-37$ $R2=-12$ $R3=-30$ $R4=-68$ $R5=-11$ $R6=-21$ $R7=-13$ $R8=-35$

$R9=-360$ $R10=-115$ $R11=-97$ $R12=-37$ $R13=-42$ $R14=36$ $R15=-33$ $Re=-58$

Electric Parameters

Voltage: 120.07 V

Current: 0.155 A

Power Factor: 0.981

Power: 18.22 W

Luminous Efficacy: 125.3 lm/W

SENSING Instruments Co.,Ltd