



Report No: L042210201P Issue Date: 4/8/2022

Report Prepared For: Horticulture Lighting Group

3505 Maynardville Hwy Maynardville, TN 37807

Model Number: HLG 250 VEG PRO HV

Test: Photosynthetically active radiation (PAR) & Electrical measurement

Standards Used: Appropriate part or all test guidelines were used for test performed: *IESNA LM79*: 2019 Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products

ANSI NEMA ANSLG C78.377: 2017 Specification of the Chromaticity of Solid State Lighting Products

ANSI C82.77-10:2014: Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

Description of Sample: Client submitted the sample. Received in working and undamaged condition. No

modifications were necessary.

Special Test Condition: Fixture is tested with no special conditions.

Date of Tests: 4/8/22

Seasoning of Sample: No seasoning was performed in accordance with IESNA LM-79.

Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	
Yokogawa Digital Power Meter	WT210	MT-EL06-S4	4/7/23
HP Power Supply	6032A	PS-DC05-S2	
Fluke Digital Thermometer	52K/J	MT-TP05	3/17/23
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	
LLI 2M Sphere	2MR97	CD-SN03-S2	
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use





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Manufacturer:Horticulture Lighting GroupModel Number:HLG 250 VEG PRO HV

Driver Model Number: INVENTRONICS EUM-240S350DT

Photometric, PPF & Electrical Test Results		
Total PPF (µmol/s):	604.59	* 380 - 780nm range
Total PPF (µmol/s):	595.45	* 400 - 700nm range
Total Radiant Flux(W):	130.27	* 380 - 780nm range
Total Lumens (Im):	39152.14	* 380 - 780nm range
PPF Efficacy (µmol/Joule):	2.72	* 380 - 780nm range
PPF Efficacy (µmol/Joule):	2.68	* 400 - 700nm range
Luminous Efficacy (lm/W):	176.39	
Input Voltage (VAC/60Hz):	240.03	
Input Current (Amp):	0.9519	
Input Power (W):	221.96	
Input Power Factor:	0.9714	
Current ATHD (%):	6.2%	

Test Condition

Ambient Temperature (°C): 25.0
Stabilization Time (Hours): 0:50
Total Operating Time (Hours): 1:10

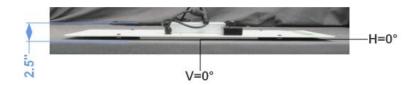


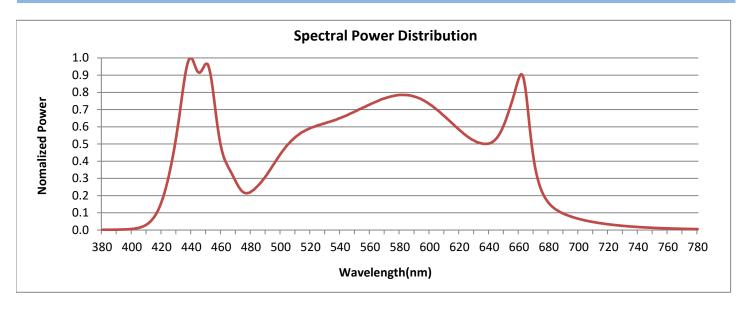


FIG. 1 LUMINAIRE





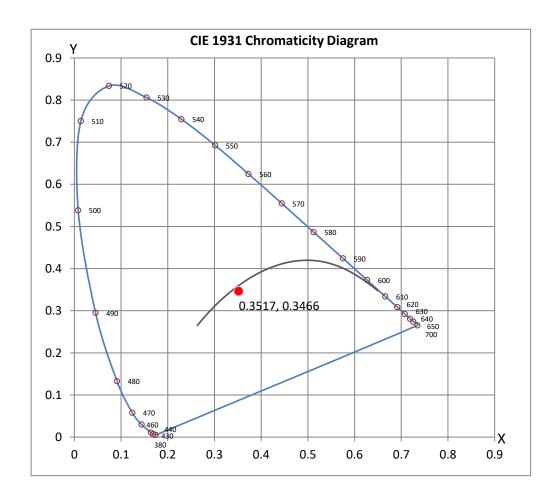
Colorimetry Test Results



CRI & CCT

х	0.3517
у	0.3466
'u	0.2179
v'	0.4832
CRI	84.30
ССТ	4728
Duv	-0.00516

R Values	
R1	83.98
R2	86.39
R3	87.36
R4	84.94
R5	84.82
R6	80.91
R7	87.47
R8	78.48
R9	41.05
R10	68.40
R11	85.59
R12	68.91
R13	83.78
R14	92.53
R15	82.63







Test Methods

Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each

sample.
Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30m and longer as necessary for the sample to achieve stabilization.
Electrical measurements are measured using the listed equipment.
Disclaimers:
The results related only to the samples as received and tested. This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government.
Report Prepared by : Kunjan Modi

Test Report Reviewed by:

Steve Kang **Quality Assurance**