



Report No:	L012312702	Issue Date: 1/30/2023
Report Prepared For:	Horticulture Lighting Group 3505 Maynardville Hwy, Maynardville TN 37807	
Model Number:	HLG Bar Lamp	
Test:	Photosynthetically active radiation (PAR) & Electrical measurement	ent
IESNA LM79: 2019 Approved Me ANSI NEMA ANSLG C78.377: 20	priate part or all test guidelines were used for test performed: ethods for Electrical and Photometric Measurements of Solid-State Lighting Products 217 Specification of the Chromaticity of Solid State Lighting Products Emission Limits-Related Quality Requirements for Lighting Equipment	
Description of Sample:	Client submitted the sample. Received in working and undamage modifications were necessary.	ed condition. No
Special Test Condition:	Fixture is tested with no special conditions.	

Date of Tests: 1/25/23

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	





NVLAP LAB CODE 200927-0

General Information	
Manufacturer:	Horticulture Lighting Group
Model Number:	HLG Bar Lamp
Driver Model Number:	INVENTRONICS EUM-680S840MG

Photometric, PPF & Electrical Test Results		
Total PPF (µmol/s):	1982.72	* 380 - 780nm range
Total PPF (µmol/s):	1955.73	* 400 - 700nm range
Total Radiant Flux(W):	416.72	* 380 - 780nm range
Total Lumens (Im):	110228.90	* 380 - 780nm range
PPF Efficacy (µmol/Joule):	2.80	* 380 - 780nm range
PPF Efficacy (µmol/Joule):	2.76	* 400 - 700nm range
Luminous Efficacy (Im/W):	155.41	
Input Voltage (VAC/60Hz):	277.01	
Input Current (Amp):	2.6490	
Input Power (W):	709.30	
Input Power Factor:	0.9666	
Current ATHD (%):	10.7%	
Current ATHD (%):	10.7%	

Test Condition		
Ambient Temperature (°C):	25.0	
Stabilization Time (Hours):	0:35	
Total Operating Time (Hours):	0:55	

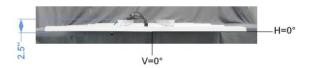


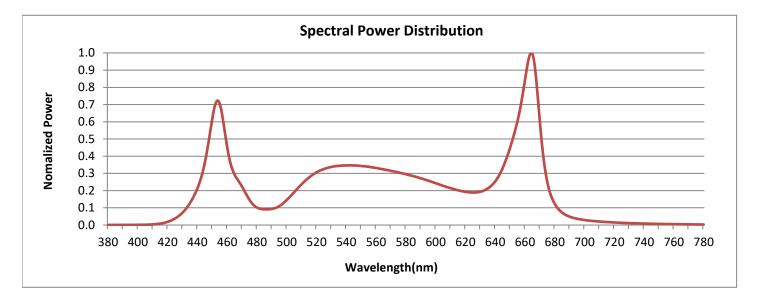


FIG. 1 LUMINAIRE



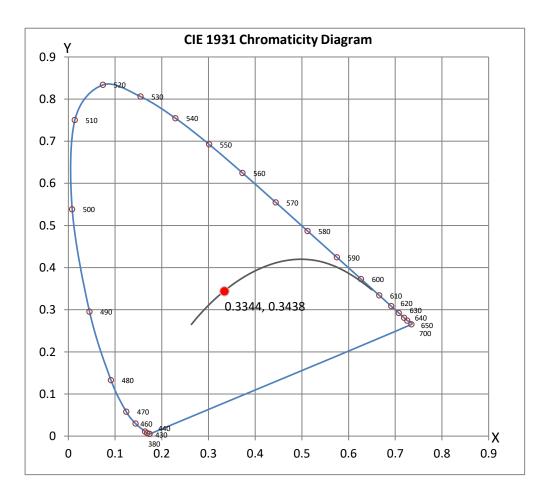


Colorimetry Test Results



CRI & CCT

х	0.3344	
у	0.3438	
u'	0.2072	
v'	0.4792	
CRI	86.30	
ССТ	5418	
Duv	0.00055	
R Values		
R1	92.61	
R2	88.18	
R3	78.75	
R4	89.83	
R5	89.42	
R6	77.57	
R7	87.93	
R8	86.43	
R9	74.56	
R10	69.66	
R11	86.99	
R12	52.93	
R13	91.13	
R14	87.63	
R15	97.20	







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 30mins 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.

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Test Report Reviewed by:

Starefing

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