



Report No:	L071802101	Issue Date: 7/17/2018
Report Prepared For:	Horticulture Lighting Group	
	752 North State St, #208, Westerville, OH 43082	
Model Number:	11 LED Strip LH351B	
Test:	Photosynthetically active radiation (PAR) & Electrical measure	rement
	riate part or all test guidelines were used for test performed:	
••	ed Methods for Electrical and Photometric Measurements of Sc	
ANSI NEMA ANSLG C78.37	77: 2008 Specification of the Chromaticity of Solid State Lighting	g Products
ANSI C82.77:2002: Harmor	ic Emission Limits-Related Quality Requirements for Lighting E	quipment
Description of Sample:	Client submitted the sample. Received in working and undan modifications were necessary.	naged condition. No

Testing Condition:	Fixture is tested with 280mA constant current.

Seasoning of Sample:	No seasonin	g was p	performed in accordance with IESNA LM-79.
Date of Tests:	7/12/18	-	7/17/18
Sample Arrival Date:	7/12/18		

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	1/9/19
BK PRECISION	1747	PS-DC04	1/10/19
Fluke Digital Thermometer	52K/J	MT-TP05	1/10/19
LLI 2M Sphere	2MR97	CD-SN03-S2	
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

\*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

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NVLAP LAB CODE 200927-0

Test Summary		
Manufacturer:	Horticulture Lighting Group	
Model Number:	11 LED Strip LH351B	
Driver Model Number:	N/A	
Total PPF (μmol/s)	17.80	* Measured range: 380nm - 780nm
Total Radiant Flux(W):	3.26	* Measured range: 380nm - 780nm
Total Lumens:	226.83	* Measured range: 380nm - 780nm
Luminous Efficacy (Im/W):	38.21	
PPF Efficacy (µmol/s/W):	3.00	
Input Voltage (VDC):	21.20	
Input Current (Amp):	0.28	
Input Power (W):	5.94	
Input Power Factor:	1.00	
Current ATHD @ 120V(%):	N/A	
Current ATHD @ 277V(%):	N/A	
Ambient Temperature (°C):	25.0	
Stabilization Time (Hours):	0:30	
Total Operating Time (Hours):	0:50	

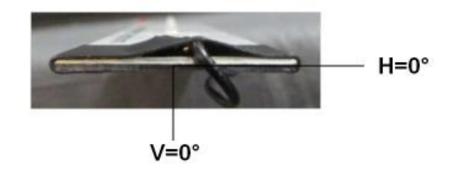


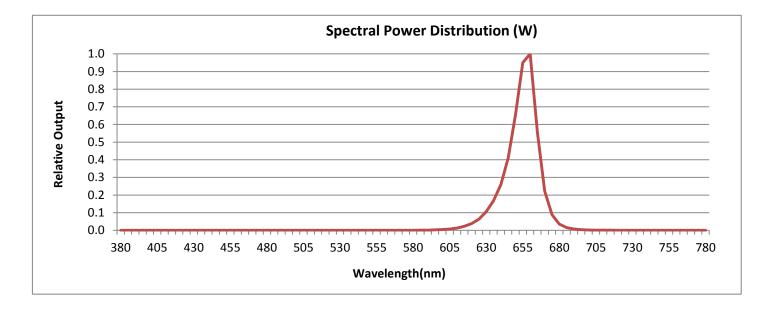


FIG. 1 LUMINAIRE

\*All Results in accordance to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.

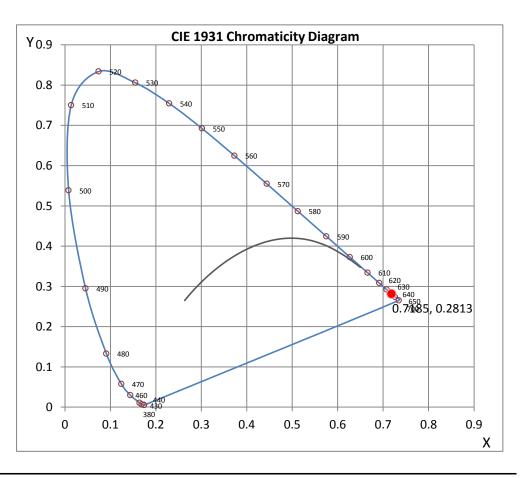






**CRI & CCT** 

х	0.7185	
У	0.2813	
u'	0.5819	
v'	0.5126	
CRI	13.70	
ССТ	1000	
Duv	0.24565	
R Values		
R1	5.05	
R2	76.83	
R3	31.09	
R4	-26.33	
R5	0.72	
R6	77.65	
R7	12.51	
R8	-67.66	
R9	-228.16	
R10	74.35	
R11	-16.33	
R12	84.08	
R13	29.65	
R14	57.03	



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## **Test Methods**

## **Spectral Measurements - Integrating Sphere**

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure total photosynthetic photon flux (PPF), 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:

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government.

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IME

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