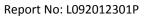




Report No:	L092012301P	Issue Date: 9/29/2020
Report Prepared For:	Horticulture Lighting Group 752 North State St, #208, Westerville, OH 43082	
Model Number:	HLG 350R	
Test:	Photosynthetically active radiation (PAR) & Electrical measuremen	ıt
IESNA LM79: 2008 Approved Metho ANSI NEMA ANSLG C78.377: 2008	ate part or all test guidelines were used for test performed: ods for Electrical and Photometric Measurements of Solid-State Lighting Products Specification of the Chromaticity of Solid State Lighting Products sion Limits-Related Quality Requirements for Lighting Equipment Client submitted the sample. Received in working and undamaged modifications were necessary. Fixture is tested with no special conditions.	l condition. No
Sample Arrival Date:	9/24/20	
Date of Tests:	9/28/20 - 9/29/20	
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	1/9/21
BK PRECISION	1747	PS-DC04	1/10/21
Fluke Digital Thermometer	52K/J	MT-TP05	1/10/21
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







General Information		
Manufacturer:	Horticulture Lighting Group	
Model Number:	HLG 350R	
Driver Model Number:	INVENTRONICS EUD-320S320DT	

Photometric, PPF & Electrical Test Results		
Total PPF (µmol/s):	911.36	* 380 - 780nm range
Total PPF (µmol/s):	889.94	* 400 - 700nm range
Total Radiant Flux(W):	189.74	* 380 - 780nm range
Total Lumens (Im):	55825.85	* 380 - 780nm range
PPF Efficacy (µmol/Joule):	2.75	* 380 - 780nm range
PPF Efficacy (µmol/Joule):	2.69	* 400 - 700nm range
Luminous Efficacy (Im/W):	168.51	
Input Voltage (VAC/60Hz):	220.02	
Input Current (Amp):	1.5240	
Input Power (W):	331.30	
Input Power Factor:	0.9882	
Current ATHD (%):	4.5%	

Test Condition	
Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:30

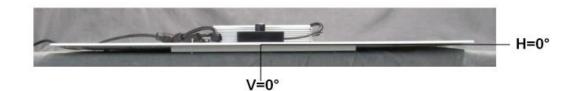


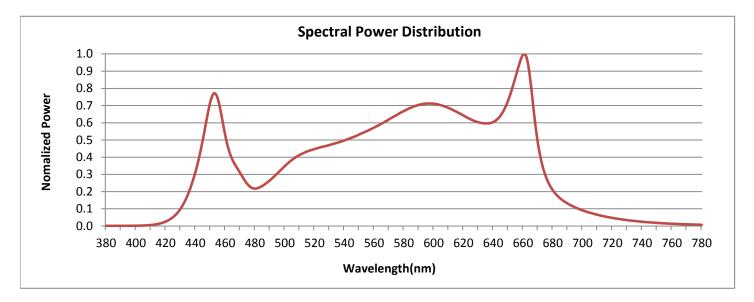


FIG. 1 LUMINAIRE



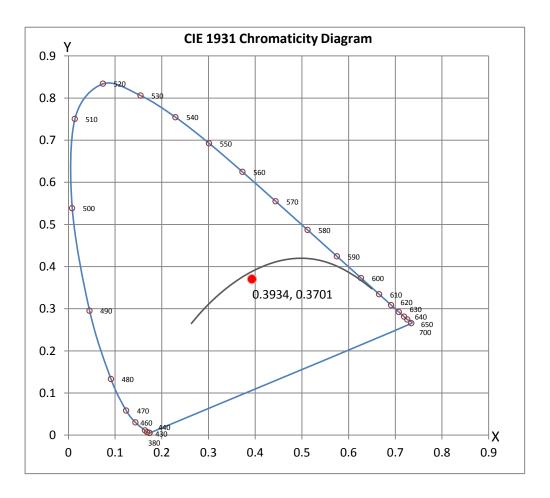


## **Colorimetry Test Results**



## **CRI & CCT**

х	0.3934	
у	0.3701	
u'	0.2365	
V'	0.5006	
CRI	92.60	
ССТ	3604	
Duv	-0.00662	
R Values		
R1	92.65	
R2	96.25	
R3	96.58	
R4	91.37	
R5	93.12	
R6	93.08	
R7	92.06	
R8	85.60	
R9	69.01	
R10	91.25	
R11	91.62	
R12	77.67	
R13	93.94	
R14	98.14	
R15	92.14	







## **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:

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.

Report Prepared by : Keyur Patel

Test Report Reviewed by:

Starefing

Steve Kang Quality Assurance