



Report No: L072011801P Issue Date: 7/28/2020

Report Prepared For: Horticulture Lighting Group

752 North State St, #208, Westerville, OH 43082

Model Number: HLG 600 Bspec

Test: Photosynthetically active radiation (PAR) & Electrical measurement

Standards Used: Appropriate part or all test guidelines were used for test performed:

IESNA LM79: 2008 Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products

ANSI NEMA ANSLG C78.377: 2008 Specification of the Chromaticity of Solid State Lighting Products ANSI C82.77:2002: 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.

Sample Arrival Date: 7/22/20

Date of Tests: 7/23/20 - 7/28/20

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





Genera	l Inf	ormat	ion
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Manufacturer: Horticulture Lighting Group

Model Number: HLG 600 Bspec

Driver Model Number: INVENTRONICS EUD-600S280DT

Photometric, PPF & Electrical Test R	esults	
Total PPF (µmol/s):	1445.54	* 380 - 780nm range
Total PPF (µmol/s):	1405.29	* 400 - 700nm range
Total Radiant Flux(W):	308.17	* 380 - 780nm range
Total Lumens (Im):	94356.80	* 380 - 780nm range
PPF Efficacy (µmol/Joule):	2.40	* 380 - 780nm range
PPF Efficacy (µmol/Joule):	2.34	* 400 - 700nm range
Luminous Efficacy (Im/W):	156.97	
Input Voltage (VAC/60Hz):	220.03	
Input Current (Amp):	2.7379	
Input Power (W):	601.10	
Input Power Factor:	0.9978	
Current ATHD (%):	4.2%	

Test Condition

Ambient Temperature (°C): 25.0 Stabilization Time (Hours): 0:45 Total Operating Time (Hours): 2:05

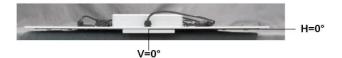


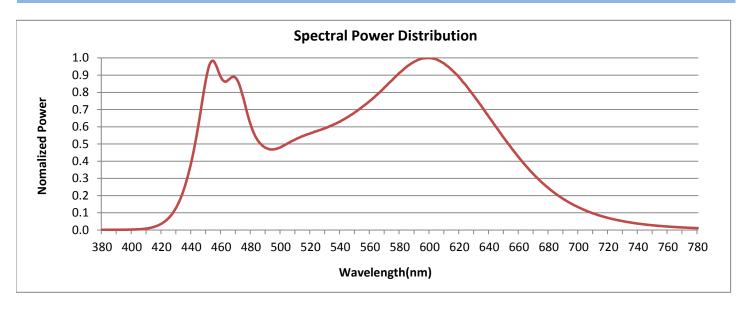


FIG. 1 LUMINAIRE





Colorimetry Test Results

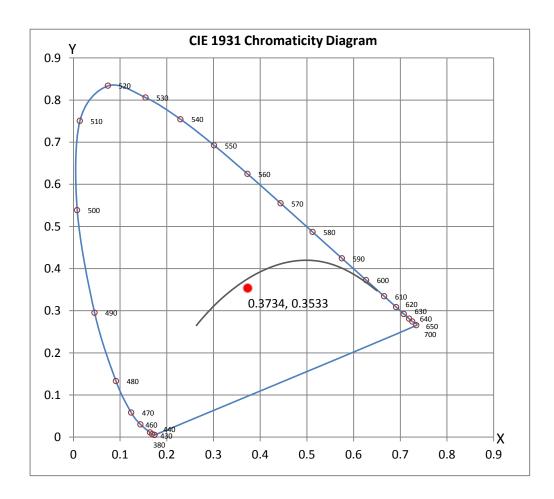


CRI & CCT

х	0.3734
у	0.3533
u'	0.2300
v'	0.4897
CRI	86.70
ССТ	4022
Duv	-0.00930

R Values

K values	
R1	90.82
R2	96.84
R3	89.08
R4	84.07
R5	90.97
R6	91.14
R7	81.26
R8	69.31
R9	35.59
R10	96.25
R11	84.12
R12	75.98
R13	94.79
R14	95.20
R15	87.14







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

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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Test Report Reviewed by:

Steve Kang **Quality Assurance**