

Report No: L101912303

NVLAP LAB CODE 200927-0

Report No: L101912303 Issue Date: 10/24/2019

Report Prepared ChilLED Tech, LLC

For: 5917 195th St NE, Suite 1, Arlington, WA 98223

Model Number: GEN3/1CH -40-150

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 1057mA constant current settings.

Sample Arrival Date: 10/18/19

Date of Tests: 10/18/19 - 10/24/19

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

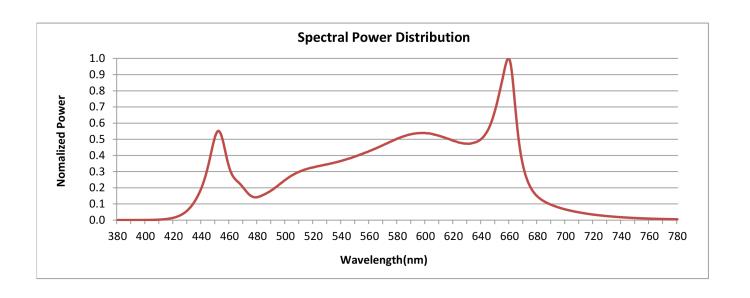
BK PRECISION	1747	PS-DC04	1/10/21
Fluke Digital Thermometer	52K/J	MT-TP05	1/10/21
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	_
LLI 2M Sphere	2MR97	CD-SN03-S2	_
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use
General Information			
Manufacturer:	ChilLE	D Tech, LLC	
Model Number:	GEN3/1CH -40-150		
Driver Model Number:	N/A		
Photometric, PPF & Electrical Test Resu	ılts		
Total PPF (µmol/s):		142.63	* 400 – 700nm range
Total Radiant Flux(W):		30.10	* 380 – 780nm range
Total Lumens (Im):		8773.21	* 380 – 780nm range
PPF Efficacy (µmol/Joule):		3.12	
Luminous Efficacy (Im/W):		192.18	
Input Voltage (VDC):		43.20	
Input Current (Amp):		1.0569	
Input Power (W):		45.65	
Input Power Factor:		1.0000	
Current ATHD (%):		N/A	
Test Condition			
Ambient Temperature (oC):			25.0

Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:30



FIG. 1 LUMINAIRE

Colorimetry Test Results

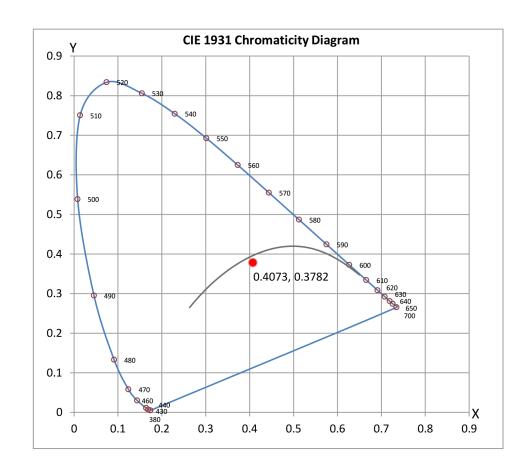


CRI & CCT

х	0.4073
У	0.3782
u'	0.2423
v'	0.5062
CRI	93.70
ССТ	3350
Duv	-0.00600

R Values

R Values		
R1	93.69	
R2	96.43	
R3	96.40	
R4	92.48	
R5	94.18	
R6	93.52	
R7	93.66	
R8	89.64	
R9	79.08	
R10	91.92	
R11	92.82	
R12	79.58	
R13	94.63	
R14	97.78	
R15	93.96	



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 25oC and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25oC 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