



Report No: L051910701 Issue Date: 5/8/2019

Report Prepared For: ChilLED Tech LLC

5917 195th st NE #1, Arlington, WA 98223

Model Number: ChilLED LOGIC 660

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 1400mA Constant Current.

Sample Arrival Date: 5/1/19

Date of Tests: 5/6/19 - 5/8/19

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



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TESTING

NVLAP LAB CODE 200927-0

Genera	l Inf	orma	tion

Manufacturer:ChilLED Tech LLCModel Number:ChilLED LOGIC 660

Driver Model Number: N/A

Photometric, PPF & Electrical Test Results		
Total PPF (µmol/s):	174.50	* 400 - 700nm range
Total Radiant Flux(W):	37.28	* 380 - 780nm range
Total Lumens (Im):	11756.40	* 380 - 780nm range
PPF Efficacy (µmol/Joule):	2.73	
Luminous Efficacy (Im/W):	184.24	
Input Voltage (VDC):	45.40	
Input Current (Amp):	1.4053	
Input Power (W):	63.81	
Input Power Factor:	1.0000	
Current ATHD (%):	N/A	

Test Condition

Ambient Temperature (°C): 25.0
Stabilization Time (Hours): 0:30
Total Operating Time (Hours): 1:00



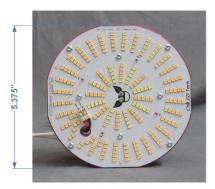
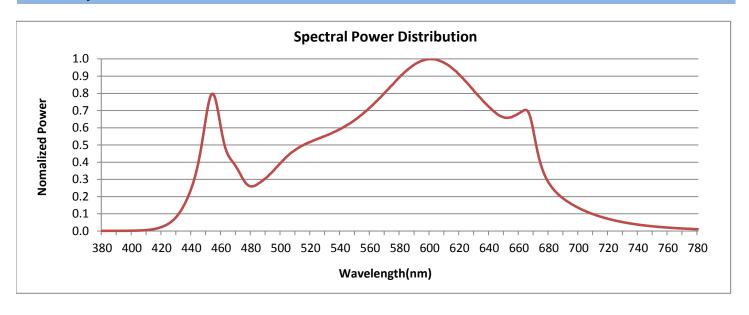


FIG. 1 LUMINAIRE

Colorimetry Test Results

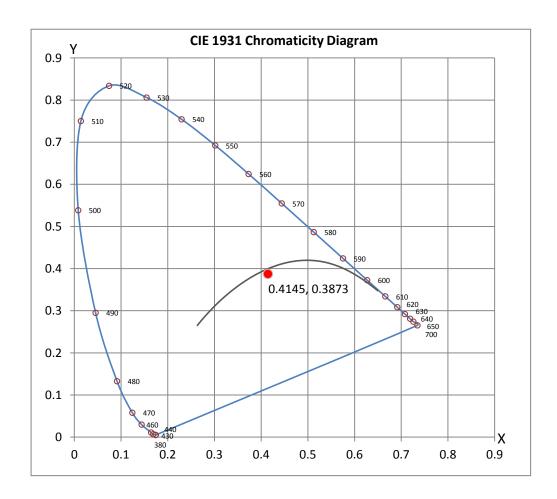


CRI & CCT

х	0.4145
у	0.3873
u'	0.2432
v'	0.5112
CRI	86.30
ССТ	3277
Duv	-0.00338

R Values

R Values	
R1	85.70
R2	94.45
R3	95.28
R4	84.28
R5	86.58
R6	92.64
R7	84.61
R8	67.10
R9	27.27
R10	87.38
R11	84.37
R12	75.15
R13	88.17
R14	98.17
R15	80.34







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.	
fixture. Temperature is r	set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins of for the sample to achieve stabilization.
Electrical measurements	s are measured using the listed equipment.
Disclaimers:	
This report must not be any agency of Federal G	used by the customer to claim product certification, approval or endorsement by NVLAP, NIST of Sovernment.
Report Prepared by:	Dennis Malonzo

Test Report Reviewed by:

Steve Kang **Quality Assurance**