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Report No: L051802801



Report No: L051802801 **Issue Date:** 5/11/2018

Report Prepared For: Crecer Lighting Inc
15867 High Knoll Dr, Unit 80, Chino Hills, CA, 91709

Model Number: PanthrX

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.

Testing Condition: Fixture is tested with no special conditions.

Sample Arrival Date: 5/7/18

Date of Tests: 5/8/18 - 5/11/18

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	1/9/19
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.

Test Summary

Manufacturer:	Crecer Lighting Inc	
Model Number:	PantrX	
Driver Model Number:	MEAN WELL HLG-320H-48A (2 DRIVERS)	
Total PPF (μmol/s)	1302.60	* Measured range: 380nm - 780nm
Total Radiant Flux(W):	244.38	* Measured range: 380nm - 780nm
Total Lumens:	73394.87	* Measured range: 380nm - 780nm
Efficacy (lm/W):	118.26	
Input Voltage (VAC/60Hz):	120.00	
Input Current (Amp):	5.64	
Input Power (W):	620.60	
Input Power Factor:	1.00	
Current ATHD @ 120V(%):	5%	
Current ATHD @ 277V(%):	N/A	
Ambient Temperature (°C):	25.0	
Stabilization Time (Hours):	1:00	
Total Operating Time (Hours):	2:25	

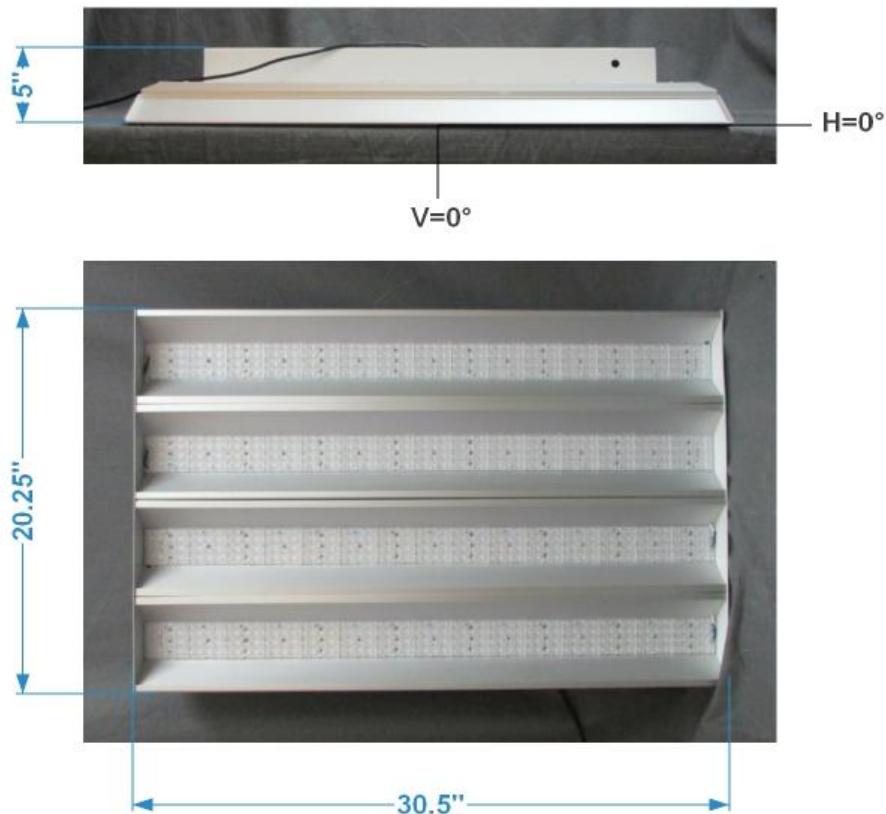
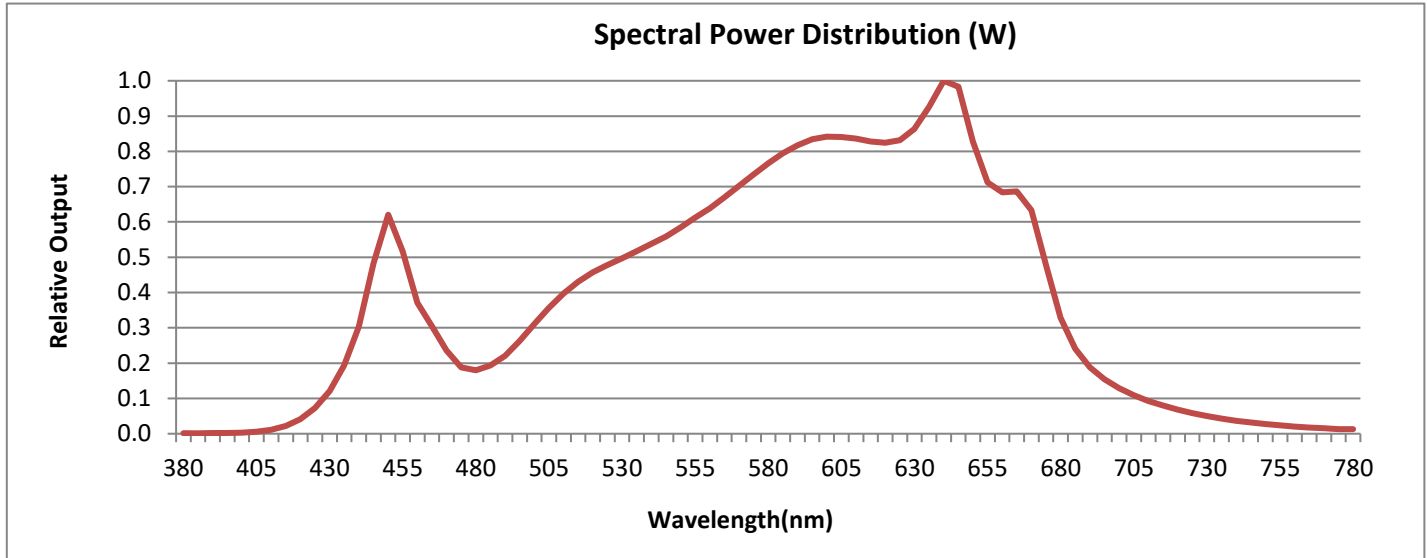


FIG. 1 LUMINAIRE

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

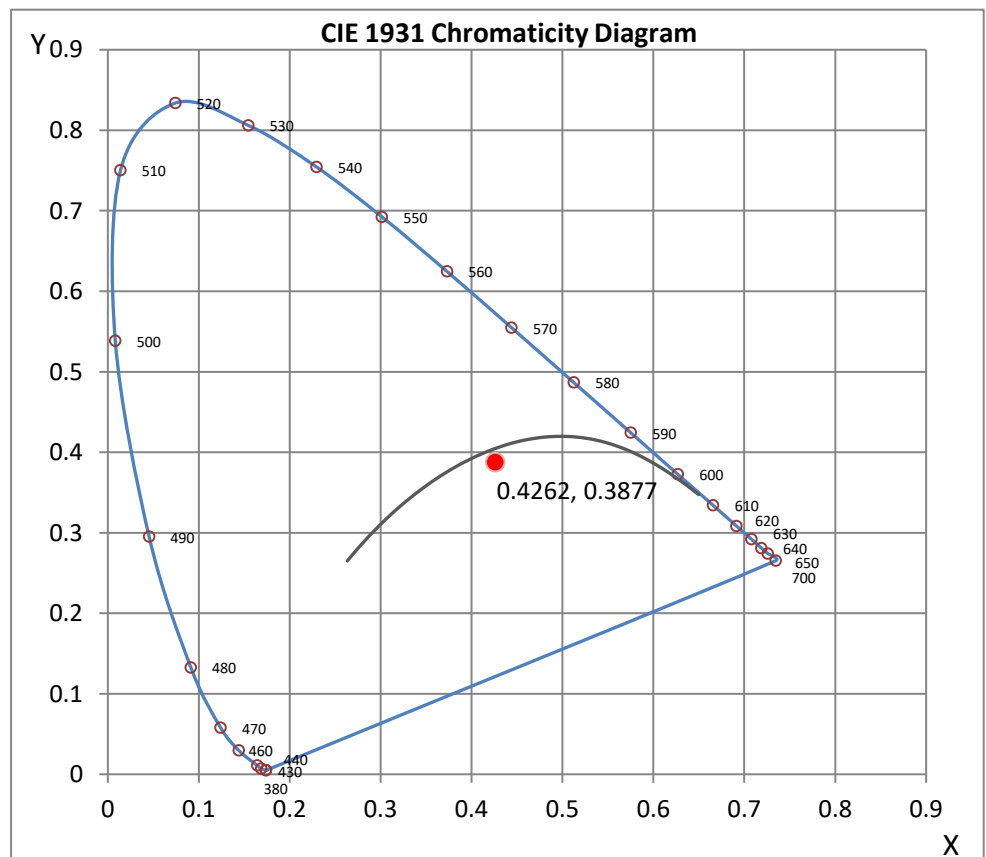


CRI & CCT

x	0.4262
y	0.3877
u'	0.2507
v'	0.5131
CRI	91.00
CCT	3051
Duv	-0.00518

R Values

R1	91.12
R2	94.73
R3	95.71
R4	89.87
R5	91.01
R6	92.24
R7	90.80
R8	82.84
R9	63.24
R10	87.14
R11	90.10
R12	80.68
R13	91.98
R14	97.11



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

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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Test Report Released by:



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Quality Assurance