

## CITL Sphere Test Report

Sphere Testing and Evaluation in Accordance with LM79-2008

Report Prepared For

Brendan Drew

Product Manager

MaxLite

**Description of Sample:** 36inch80CRI 5000K Model LB3650.

**The sample(s) was (were) tested in accordance with the following applied standards/regulations:**

IESNA LM79: 2008 Approved for Electrical and Photometric Measurements of Solid-State Lighting Products  
ANSI NEMA C78.377: 2011 Specification of the Chromaticity of Solid State Lighting Products  
ANSI C82.77:2002 Harmonic Emissions Limits – Related Power Quality Requirement for Light Equipment.

**CITL Test Number:** CITL0002183

**Sample Arrival Date:** 09/18/2017

**Date of Tests:** 09/26/2017

**Report Issue Date:** 09/28/2017

**Report Prepared By:**



**Johnathan Taddei**  
Lab Assistant

**Report Reviewed By:**



**Shah Rahman**  
Test Engineer

**Report Approved By:**

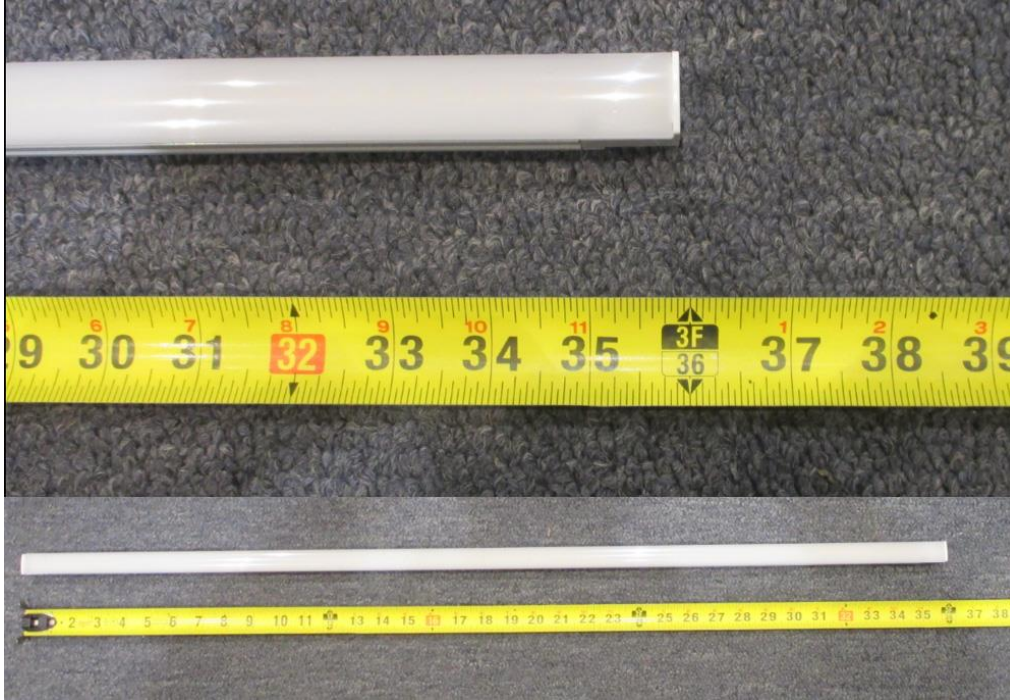


**Jun Xiang**  
Lab Manager

**Sample Number:** 2123

**Manufacturer:** MaxLite

**Notes:** Tested in intended orientation



**Equipment Used:**

Description	Model #	Serial #	Calibration Date	Calibration due date
EVERFINE AC POWER SUPPLY	DSP1005	G119890CJ7341122	-	-
EVERFINE DC POWER SUPPLY	WY305	G115986TA8341112	-	-
INTERGRATING SPHERE	2 METER	CITL 0018	06/08/17	12/08/17
YOKOGAWA POWER ANALYZER	WT310	C2QJ22011V	11/14/16	11/30/17

**Sphere Test Summary:**

Manufacturer:	MaxLite
Fixture Model Number:	LB3650
Lamp Model Number:	SPMWH2228

**Electrical Measurement:**

Input Voltage:	120 VAC
Input Current:	0.1060 A
Input Frequency:	60 HZ
Input Power:	12.18 W
Power Factor:	0.9574
Total Harmonic Distortion:	28.993 THD

**Lumen Measurement:**

Lumens:	983.01 Lm
Efficacy:	80.72 Lm/W
Color Rendering Index (CRI):	R <sub>a</sub> : 85.5    R <sub>9</sub> : 18
Correlated Color Temperature (K):	5211 K
Chromaticity Coordinate x:	0.3396
Chromaticity Coordinate y:	0.3498
Ambient Temperature (°C):	25°C
Stabilization Time (Hours):	60 Mins
Total Operating Time (Hours):	90 Mins
u/u':	0.2084
v':	0.4830
Duv:	0.00136

**Test Methods:**

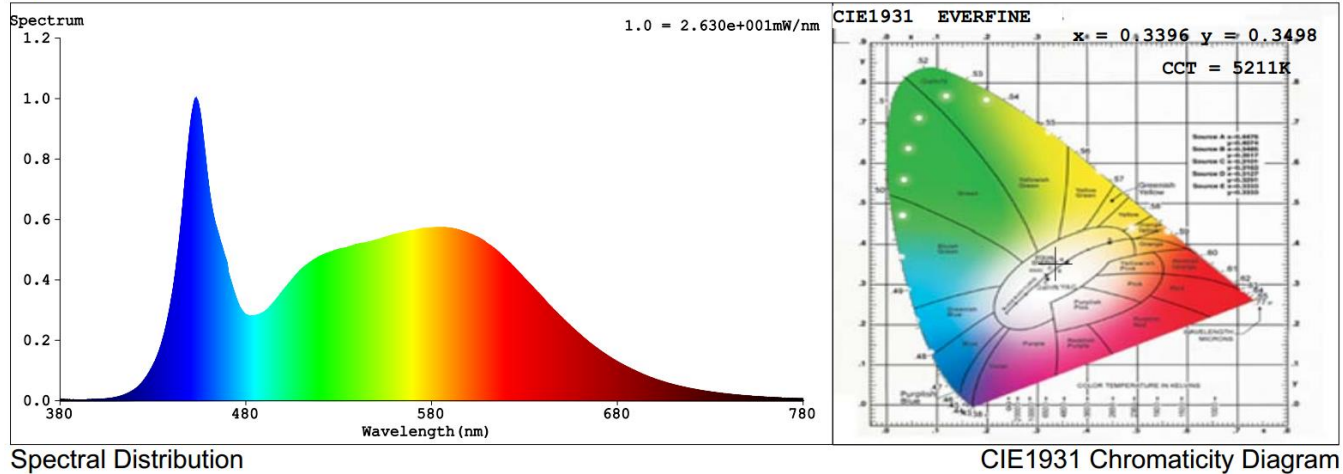
**Spectral Measurements – Integrating Sphere**

A sensing Spectrometer HSSA-2000, 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. Test Geometry Configuration 4 π.

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.

**Spectrum**



Spectral Distribution

CIE1931 Chromaticity Diagram

\*\*\*\*END OF REPORT\*\*\*\*