



INTEGRATING SPHERE TEST REPORT

October 21, 2014

IES LM79-08 Section 9.1

Technical Report

TÜV SÜD America

Ji1409766-02-SPH

Sample Tested: Betty in Resin Shade

Manufacturer: Alva Light, Inc.



Sample Description: LED Luminaire

Test Orientation: Intended (Horizontal)

Date of Test: October 08, 2014

Tested by

Reviewed by

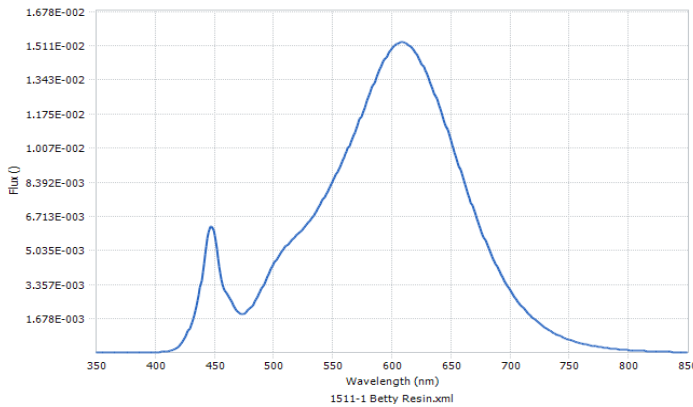
Tim Gentry

Byrd Evans

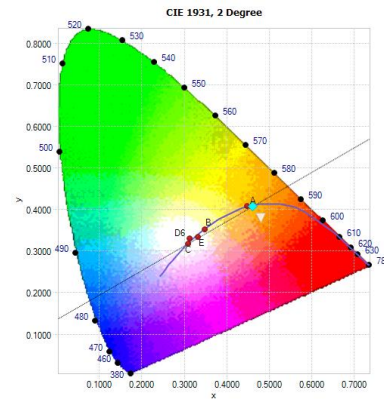
TÜV SÜD Project
Handler

TÜV SÜD Project Handler

Test Results: (TÜV SÜD Reference# 1511-1)



Spectral Response



Chromaticity Diagram

Tristimulus Values: x / y = 0.4602 / 0.4080

Photometric Test Results

Luminous Flux (Lumens)	702.8
Efficacy (Lumens/Watt)	73.52
Color Temperature (CCT K)	2673
Color Rendering Index (CRI)	83.2
R₉ Value	14.7
Radiant Flux (W/nm)	2.25
Chroma u' / Chroma v'	0.2639 / 0.5264
Duv	-0.00099

Electrical Test Results

Input Power (Watts)	9.56
Input Voltage (Volts)	120.04
Input Current (Amps)	0.0798
Power Factor	0.999
Input Frequency (Hz)	60.0
Stabilization Time	45 minutes
Ambient Temperature	25.0°C
Harmonic Distortion A-THD	5.46%

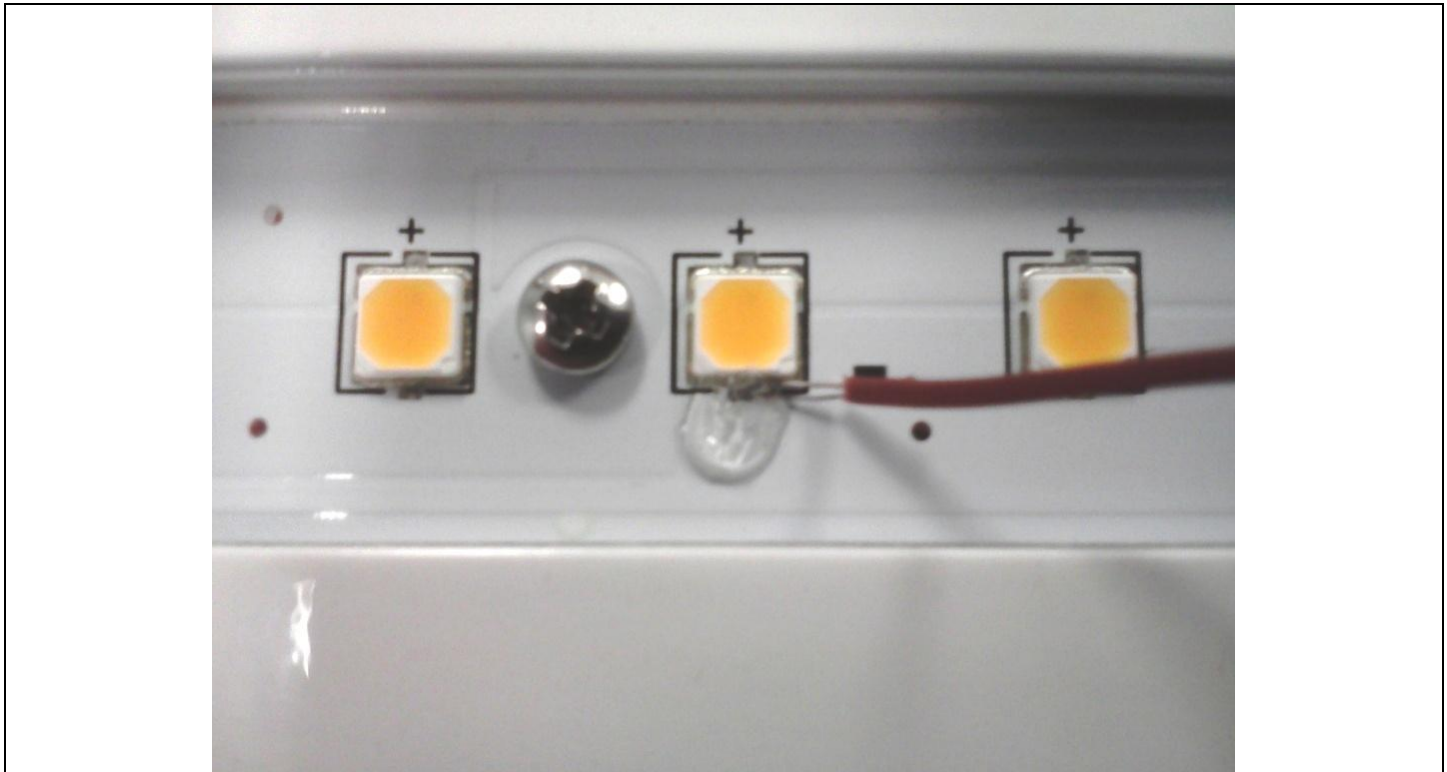
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ISTMT Temperature Measurement

ISTMT temperature measurement at thermal stabilization (8 hours continuous operation).

Thermocouple locations (shown below) are in accordance with manufacturers recommended / stated guidelines for TMP - Temperature Measurement Point.



"LED" Thermocouple location at TMP

Test Results for: **Alva Light, Inc. Betty in Resin Shade**

LED TMP Temperature (120V)	36.4°C
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All temperatures are normalized to 25°C ambient.

Test Equipment

Description	Manufacturer / Model#	TÜV SÜD Ref#	Calibration Due Date
Thermometer	Fluke 52-II	ATLE0118	1/15/2015