

### INTEGRATING SPHERE TEST REPORT **IES LM79-08** Section 9.1

**TÜV SÜD America** 

**Technical Report** Ji1409766-04-SPH

October 21, 2014

#### Sample Tested: Bob 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

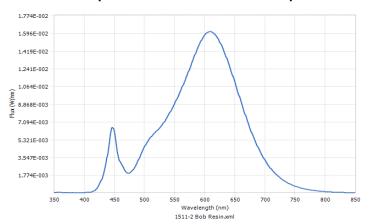
**Tim Gentry** 

**TÜV SÜD Proiect** Handler

**Byrd Evans** 

TÜV SÜD Project Handler

Test Results: (TÜV SÜD Reference# 1511-2)



**Spectral Response** 

## CIE 1931, 2 Degree 0.7000 0.5000 0.3000 0.1000 0.2000 0.3000 0.4000 0.5000 0.6000 0.7000

#### **Chromaticity Diagram**

Tristimulus Values: x/y = 0.4598/0.4076

#### **Photometric Test Results**

Luminous Flux (Lumens)	743.8
Efficacy (Lumens/Watt)	77.54
Color Temperature (CCT K)	2675
<b>Color Rendering Index (CRI)</b>	83.5
R <sub>9</sub> Value	16.0
Radiant Flux (W/nm)	2.39
Chroma u' / Chroma v'	0.2638 / 0.5262

**Electrical Test Results** 

Input Power (Watts) 9.59 Input Voltage (Volts) 120.01 Input Current (Amps) 0.0800 Power Factor 0.999

Input Frequency (Hz) 60.0

Stabilization Time 45 minutes

**Ambient Temperature** 25.1°C 4.90% **Harmonic Distortion A-THD** 

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TÜV SÜD America, Inc.

5945 Cabot Parkway, Suite 100, Alpharetta, GA 30005 USA

Telephone: 678-341-5900 www.tuvamerica.com

Lab Code: 500065-0

TÜV SÜD America is accredited under the NVLAP EEL program.





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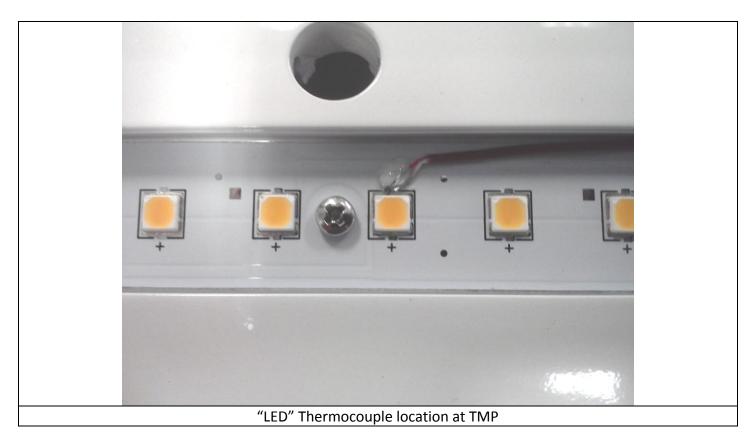
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#### **ISTMT Temperature Measurement**

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.



Alva Light, Inc. Bob in Resin Shade

LED TMP Temperature (120V) 36.9°C

All temperatures are normalized to 25°C ambient.

#### **Test Equipment**

**Test Results for:** 

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



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