



8165 E Kaiser Blvd. Anaheim, CA 92808

p. 714.282.2270

f. 714.676.5558

**Test Report:** L01120101

**Model Number:** CATALOG NUMBER

**Report Prepared For:** COMPANY NAME  
1234 Main St. Springfield, CA 94208

**Test:** In-situ Temperature Measurement Test per ANSI/UL standards.

**Standards Used:** Appropriate part or all test guidelines were used for test performed:  
*ANSI/UL 1598-2004 Luminaires: In-situ Temperature Measurement Test (ISTMT)*

**Description of Sample:** Client submitted three samples of LED garage luminaire. Fixture catalog number is CATALOG NUMBER. Received in working and undamaged condition. No modifications were necessary.

**Sample Arrival Date:** 7/5/12

**Date of Tests:** 7/6/12 - 7/9/12

**Seasoning of Sample SSL:** No seasoning was performed in accordance with ANSI/UL 1598-2004.

**Thermocouple placement:**

1. Thermocouple is attached to the side of a LED with soldermask scraped off to allow direct attachment to copper substrate. The LED is chosen to be the closest one to the center of the board.
2. LED has an optic lens. The lens was drilled through to place the thermocouple and filled with epoxy to seal the hole.
3. Thermocouple attached to driver at manufacturer's test point (as indicated on label).

**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-S1	01/04/13
Xitron Power Analysis System	2503AH	MT-EL01	01/09/13
Fluke Digital Thermometer	52k/J	MT-TP02-GC	01/04/13

\*All Results in accordance to ANSI/UL 1595-2004.

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**ISTMT Test Summary**

<b>Manufacturer:</b>	COMPANY NAME
<b>Model Number:</b>	CATALOG NUMBER
<b>Input Voltage (VAC):</b>	120.00
<b>Input Current (Amp):</b>	0.71
<b>Input Power (W):</b>	85.54
<b>Input Power Factor:</b>	1.00
<b>Thermocouple #1 (Fig 1) °C:</b>	67.80
<b>Thermocouple #2 (Fig 2) °C:</b>	58.50
<b>Ambient Temperature (°C):</b>	24.7
<b>Stabilization Time (Hours):</b>	3:35
<b>Total Operating Time (Hours):</b>	4:05

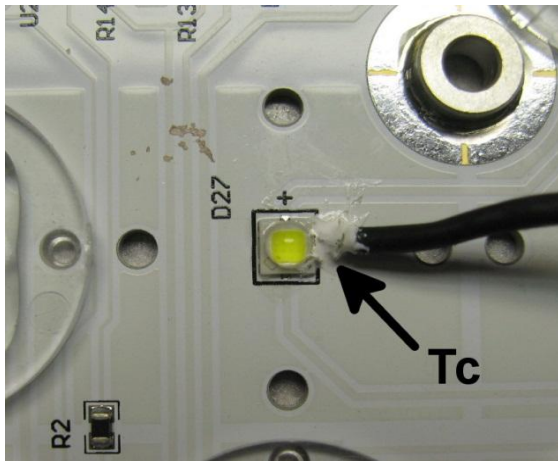


Fig 1: LED Thermocouple #1

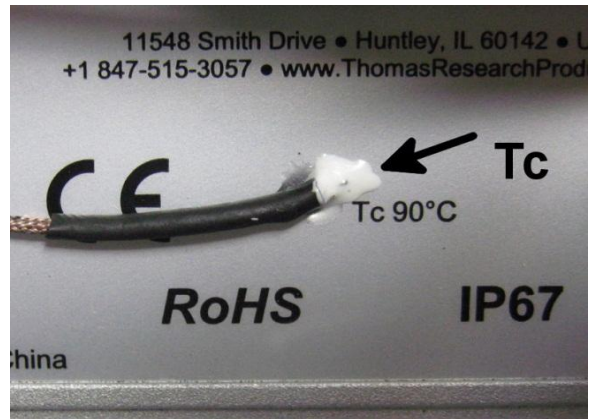


Fig 2: Driver/PS Thermocouple #2

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### Test Methods

#### Temperature Measurements - ISTMT

A Fluke 52K/J Digital Thermometer is used to measure the ambient, LED, and power supply/driver temperature. Ambient temperature is set to 25°C +/- 5°C per ANSI/UL 1598-2004 19.5.1

Ambient temperature is set to 25°C and is measured from the horizontal plane passing through the midpoint of the luminaire's vertical axis at a horizontal distance from the luminaire equal to at least 3 times the luminaire diameter. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 3 hours and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

Test Report Released by:

A handwritten signature in cursive script that reads "Joseph Shin".

Joseph Shin  
Engineering Manager

Test Report Reviewed by:

A handwritten signature in cursive script that reads "Steve Kang".

Steve Kang  
Quality Assurance