



8165 E Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

Report No: L061802501T



**Report No:** L061802501T **Issue Date:** 6/11/2018

**Prepared For:** eLuminaire LLC  
180 E Selandia Lane, Carson, CA 90746

**Model Number:** eLPLS1-DP10030K8UH-XX

**Test:** In-Situ Temperature Measurement Test

**Standards Used:** Appropriate part or all test guidelines were used for test performed:  
*ANSI/UL 1598-2008 Sec. 19.7, 19.10-16 Luminaires: In-situ Temperature Measurement Test (ISTMT)*  
*IES LM-84-14 ANNEX A: Recommendations for measurement of In-Situ conditions LED case temperature, Ts*

**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:** 5/23/18

**Date of Tests:** 6/5/18 - 6/5/18

**Seasoning of Sample:** No seasoning was performed in accordance with ANSI/UL 1598-2008.

#### Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Xitron Power Meter	2801	MT-EL02-1	1/12/19
Fluke Digital Thermometer	52K/J	MT-TP02-GB	1/19/19

## ISTMT Test Summary

<b>Manufacturer:</b>	eLuminaire LLC
<b>Model Number:</b>	eLPLS1-DP10030K8UH-XX
<b>Driver Model Number:</b>	MOONS' MT100A105AQ_CP/C
<b>LED Chip/Module Model Number:</b>	CREE XLAMP MH FAMILY LEDS
<b>Input Voltage (VAC/60Hz):</b>	277.00
<b>Input Current (Amp):</b>	0.30
<b>Input Power (W):</b>	82.39
<b>Input Power Factor:</b>	1.00
<b>Thermocouple #1 (Fig 1) °C:</b>	73.3
<b>Thermocouple #2 (Fig 2) °C:</b>	46.1
<b>Ambient Temperature (°C)*:</b>	25.0
<b>Stabilization Time (Hours):</b>	3:00
<b>Total Operating Time (Hours):</b>	3:45

(\*Temperature normalized to 25°C)

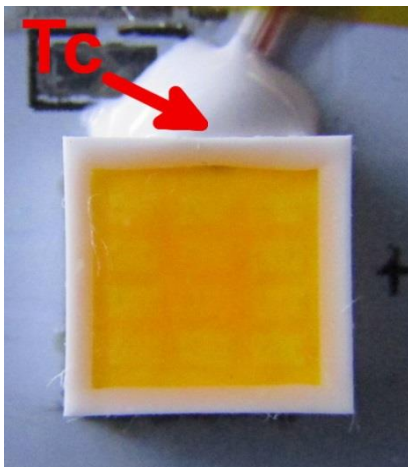


FIG.1 THERMOCOUPLE #1



FIG.2 THERMOCOUPLE #2

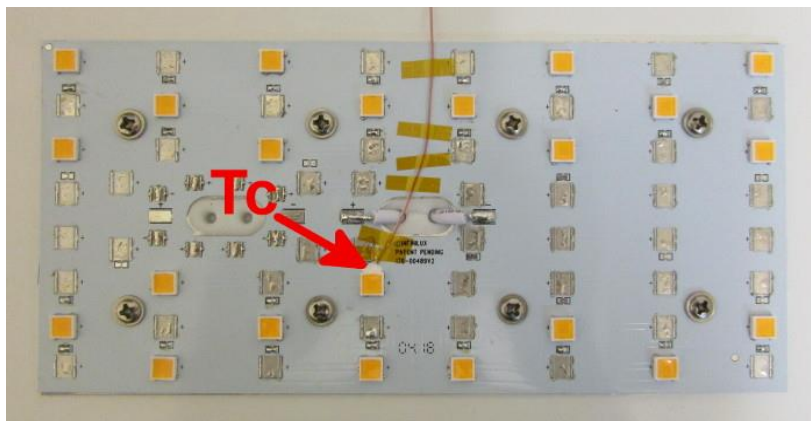


FIG.3 Tc POSITION



FIG.4 LUMINAIRE



8165 E Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

Report No: L061802501T



## Test Methods

### Temperature Measurements - ISTMT

Ambient temperature is set to 25°C +/- 5°C per ANSI/UL 1598-2008 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.

### Reported temperature:

Per ANSI/UL 1598-2008 19.5.1, ambient temperature variations above or below 25°C are respectively subtracted from or added to temperatures recorded at points on the luminaire.

### 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.

Report Prepared by : Dennis Malonzo

Test Report Released by:

Jeff Ahn  
Engineering Manager

Test Report Reviewed by:

Steve Kang  
Quality Assurance