

TEST REPORT

Prepared For

GREEN CREATIVE LTD

Room 3603, Level 36, Tower 1, Enterprise Square Five, 38 Wang Chiu Road, Kowloon Bay, KL, Hong Kong

Model: 15A19DIM/827

Report Type:	Report is prepared for the client above to present the result of measured temperature of samples which is usually used to project the lumen maintenance life of LED lighting products, THD
Reviewed By:	George Chen <i>George Chen</i>
Report Number:	KS2211206-62745E-10-1
Test Date:	2021-12-24
Report Date:	2021-12-29
Approved by:	Blake Zhang / EE Engineer
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1. General Information

Product Description for Equipment under Test (EUT)

One test sample was in good condition and received on 2021-12-16, and used for testing.

Product Type	LED Lamp
Manufacturer	GREEN CREATIVE LTD
Product Model Number	15A19DIM/827
#Rating	AC120V 15W 2700K
LED Type	LED Package
LED Model Number	BXVN-XXE-13H-9EV
LED Manufacturer	Bridgelux Inc.

Family Declaration

GREEN CREATIVE LTD declares that there are some differences between multiple models and tested model. Details as below:

Tested Model	Multiple Models	Variations	Details
15A19DIM/827	15A19DIM/8XX	CCT	Where XX indicate CCT

2. Reference Standard

- ANSI/UL 1993-2012: Standard for Safety of Self-Ballasted Lamps and Lamp Adapters
- ANSI/UL 8750-2015: Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products
- ANSI/UL 153-2014: Standard for Safety of Portable Electric Luminaires
- ANSI/UL 1598-2008: Standard for Safety of Luminaires

3. Test Equipment

Device	Manufacture	Model No	Serial No	Calibration date	Calibration due date
Multimeter	FLUKE	17B	1573 1328	2021-09-23	2022-09-22
Hybrid Recorder	YOKOGAWA	DR240	10#	2021-01-04	2022-01-03
AC POWER SUPPLY	HengPu	HPA 1103	0003394	2021-01-04	2022-01-03
1.5m integrating sphere	SENSING	1.5m	NA	2021-06-30	2022-06-29
Digital power meter	EVERFINE	PF9811	G135717CN1361159	2021-09-23	2022-09-22
High-precision rapid spectral radiometer	EVERFINE	HAAS-2000	N/A	2021-06-30	2022-06-29

Precision frequency power supply	ALL Power	APW-105N	970663	2021-01-04	2022-01-03
Standard Light Source	EVERFINE	D204	N/A	2021-10-15	2022-10-14
thermometer	SENSING	NA	NA	2021-04-27	2022-04-26
Programmable Precision DC Power Supply	EVERFINE	WY5015	11060010	2021-06-30	2022-06-29

Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attested that all calibration has been performed using suitable standards traceable to National Primary Standards and International System of Units (SI).

4. Detailed Test Methods and Test Results

4.1 In situ Temperature Measurement Test

Test Method:

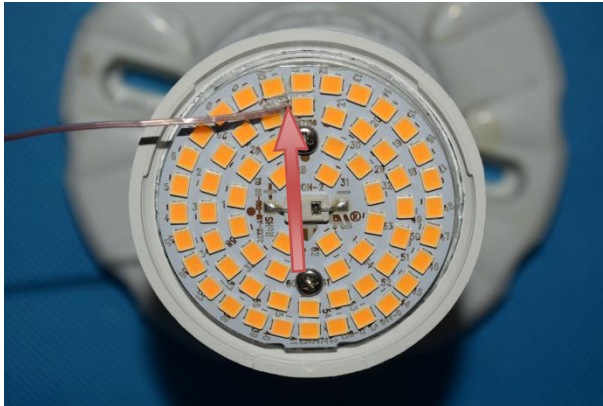
The sample was operated until constant temperatures were obtained. A temperature was considered constant if the sample was operating for at least three hours and upon three successive readings - taken at 15 minute intervals - were within one degree and were not rising. Thermocouples were attached at locations described in the results by means of a cement made of water glass and Fuller's earth, solder, or epoxy.

The LED which has the highest temperature was measured at the location of LED case which is specified by LED source manufacturer and detailed by LM-80 report.

The drive current of LED package/module/ array was calculated as the total output current of the driver measured by multimeter, divided by the number of branches in parallel of LEDs.

TMP Photo:

Temperature measurement point on TMP_{LED}



Temperature Measurement Data

Test Condition

Ambient Temperature: 25°C±5°C

Relative Humidity: 52 %

Supply voltage: 120 V 60 Hz

Type of thermocouples: T

Test Duration: ≥3.5Hours

Test Result

Hottest TMP_{LED}: 103.3°C

Forward Current(I_F): 24mA

4.2 Total Harmonic Distortion

Test Item	Test Voltage (V)	Frequency (Hz)	Test Result
Total Harmonic Distortion:	120.0	60	9.60%

5. EUT Photo



Directions

1. The information marked “superscript #” is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
2. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
3. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.
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*****END OF REPORT*****