



In Situ Temperature Measurement Test Report

For

LIGHT EFFICIENT DESIGN

(Brand Name: N/A)

188 S. Northwest Highway Cary, IL 60013

LED Lamp

Model name(s): LED-8034M50

Representative (Tested) Model: LED-8034M50

Model Different: N/A

Test & Report By: Review By:

Date:May.31,2016

Jack Luo Tommy Liang

Engineer: Jack Luo Manager: Tommy Liang

Note: This report does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

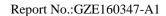
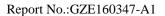






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1 General

1.1 Product Information

Brand Name	N/A
Model Number	LED-8034M50
Luminaire Type	LED Lamp
Nominal Power	150W
Rated Initial Lamp Lumen	
Declared CCT	5000K
LED Manufacturer	Guangzhou Hongli Opto-Electronic Co., Ltd.
LED Model	HL-A-2835DW-S1-08-HR3
Sample Receipt Date	Apr.01,2016
Sample Number	GZE160347-A1

Photo









1.2 Standards or methods

The following standards are partly or totally used or referenced for test:

No.	Name
ANSI/UL 1598:2008	Luminaires

1.3 Equipment list

Equipment ID	Equipment Name	Last Calibration Date	Next Calibration Date		
PF210	Power Meter	2015-07-01	2016-06-30		
ST-R-181A	Temperature Tester	2015-07-01	2016-06-30		

2 Test conducted and method

2.1 Ambient Condition

Test was conducted in an ambient temperature of 25 ± 5 °C. Ambient temperature variations above or below 25 °C was subtracted from or added to temperatures recorded at points on the luminaire. The ambient temperature was measured by a thermocouple which was immersed in 15ml of mineral oil in a glass container.

2.2 Temperature Stabilization

Temperatures were measured after they have stabilized when the test has been running for a minimum of 7.5 hours, or the test has been running for a minimum of 3 hours and three successive reading taken at 15 minutes intervals are with 1° C of another and are not rising.

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2.3 Thermocouples

Type J thermocouple was used for temperature measurement. The thermocouple was 0.05mm2(30AWG), and complied with the requirements specified in ASTM MNL 12 and limits of error specified in NIST ITS 90 and ISA MC96.1.

2.4 Thermocouples contact

Thermocouples were in contact with the TMP LED location described in LM-80 test report. In order to gain the maximum temperature, if appropriate, more than one thermocouple were contact in these locations. For details information, please refer to clause 3.3 for the photo of thermocouple contact.





3 Test Results

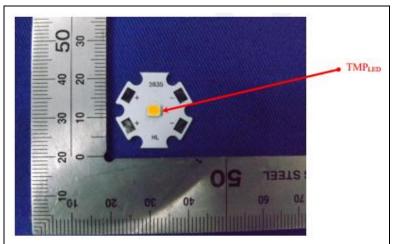
Test date	,	2016-04-24	Т	est Ambient	25.1 °C	
Samp	le No.		LED Package Model			
GZE160)347-A1		HL-A-2835DW-S1-08-HR3			
LED driver of Each La	mp	Output voltage	e V	Measured LED working current (Max.) n		
1		45.9		75.1		

3.1 Test Data:

Input	: Vol.	120.0V	Input Curr	ent	1.3	308A	Input Wa	attage	tage 156.1W ·		Temperature abilization time:	500 min
No.	7	Temperat	ure (°C)	No.		Temperature (°C))	No.	Tempera	ture (°C)	
	Moo	sured	Corrected		Magaurad		Corre	ected		Measured	Corrected	
	IVIE	isureu	at 25°C			Measured		at 2	5°C		ivieasureu	at 25°C
1	77.9		77.6	3		78.8		78.7		5	77.4	77.3
2	77.1		77.1	4		78.5		78.4		6	78.3.	78.2
The highest in-situ measured temperature LED is 78.7°C												

3.2 Test Photo:

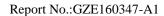
Ts Position:



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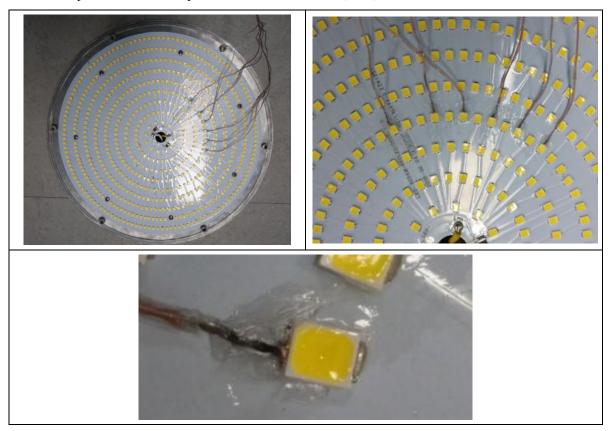
Address: Standard-Tech Building, No.6 Guanhong Road, Guangzhou Science City, Guangzhou 510663, China Tel: 8620-3229 0320 Fax: 8620-32290422







Thermocouple Location on Temperature Measurement Point (TMP):



Results

Time (t) at which to estimate lumen maintenance (hours):	36,000
Lumen maintenance at time (t) (%):	80.69%
Reported L70 (hours):	>54000

***** END OF THE TEST REPORT*****

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