



NVLAP LAB CODE 201045-0



Shenzhen Anbotek Compliance Laboratory Limited

**ISTMT**  
**(IN SITU TEMPERATURE MEASUREMENT TEST**  
**AND TEST REPORT)**

**Report Number:** R011506615L  
**Product Type:** Architectural Flood and Spot Luminaires  
**Test Date:** 2015-06-17 to 2015-07-01  
**Report Date:** 2015-07-02  
**Product Model:** SP-FL-200WA  
**Product Description:** AC100-277V 50/60Hz 200W 5700K  
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**Tested By:** Rain chen

*Rain chen*

**Reviewed By:** Vic zhou

*Vic zhou*



Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or use in part without prior written consent from Shenzhen Anbotek Compliance Laboratory Limited. This report must not be used by the customer to claim product certification, approval, or endorsement By NVLAP, NIST, or any agency of the Federal Government.

## 1 – GENERAL INFORMATION

### 1.1 Reference Standard

- UL 1598-2008:Standard for Safety of Luminaires
- ANSI/UL 153-2005:Portable Electric Luminaires
- ANSI/UL 1993-2009:Standard for Safety of Self-Ballasted Lamps and Lamp Adapters
- ANS/UL 8750-2009:Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products

### 1.2 Test Equipment

Device	Manufacture	Model No	Serial No	Test Range	Calibration date	Calibration due date
AC Power Source	ALL POWER	APW-110N	997079	0-300V, 0-1000VA	2014-07-14	2015-07-13
Temperature recorder	HP-Ali	34970A	US37021808	0~250°C	2015-03-16	2016-03-15
Digital Power Meter	YOKOGAWA	WT210	-	0-600V/0-10A/0-100Hz	2014-07-14	2015-07-13
Temperature & Humidity meter	XINIXI	CTH-608	-	0°C~50°C, 10% to 90%RH	2015-03-16	2016-03-15

Statement of Traceability:Shenzhen Anbotek Compliance Laboratory Limited attests that all calibration has been performed using suitable standards traceable to national primary standards and International System of Unit (SI).

### 1.3 Product Description for Equipment under Test (EUT)

<b>Product Type</b>	Architectural Flood and Spot Luminaires
<b>Applicant</b>	Shenzhen sunper opto co., ltd
<b>Applicant Address</b>	Blok C, Sanmin Industrial Park, Shiyuan Street, Bao'an District, Shenzhen 518108, Guangdong, China
<b>Manufacturer</b>	Shenzhen sunper opto co., ltd
<b>Manufacturer Address</b>	Blok C, Sanmin Industrial Park, Shiyuan Street, Bao'an District, Shenzhen 518108, Guangdong, China
<b>Brand name</b>	sunper
<b>Product Model Number</b>	SP-FL-200WA
<b>Rating</b>	AC100-277V 50/60Hz 200W 5700K
<b>LED Type</b>	LED package
<b>LED Manufacture</b>	Cree®
<b>LED Model Number</b>	XTEAWT-00-0000-00000LBE7

## 2- Temperature Measurement Data

The samples were 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.

### Results

Ambient

Relative

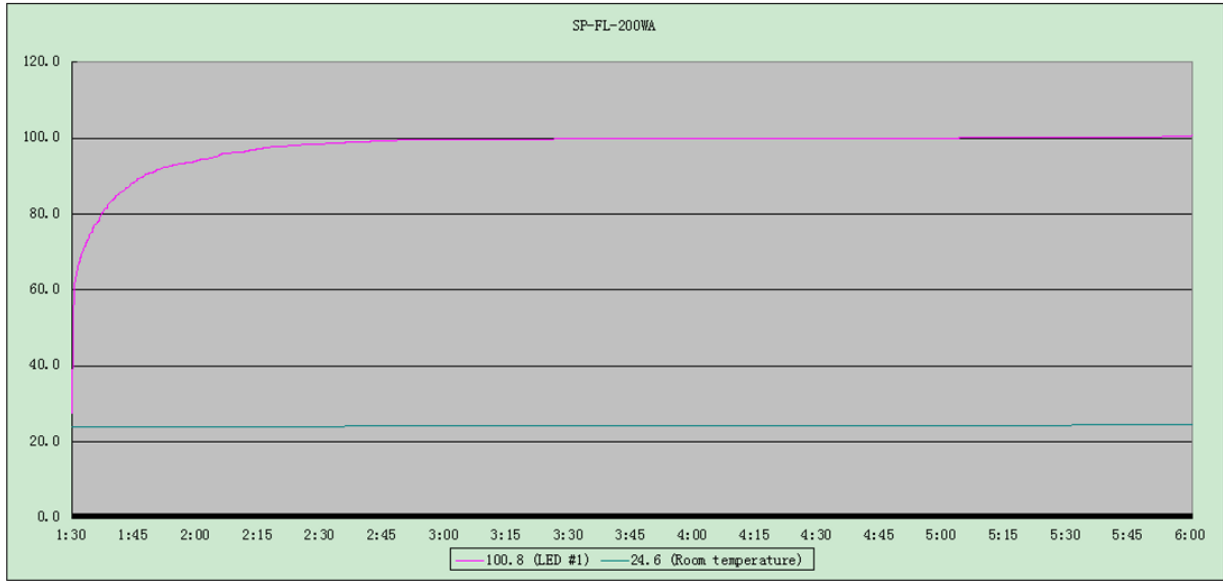
Temperature(°C ) 25°C±5°CHumidity(%) 53%Supply voltage: 120V/60Hz Type of thermocouples: K

<b>Test Product Model.</b>	SP-FL-200WA	
<b>Test LED Model.</b>	XTEAWT-00-0000-00000LBE7	
<b>Number of Driver/Product</b>	1	
<b>Test Duration</b>	>4.0Hours	
<b>Test Location</b>	<b>Location Description</b>	<b>Test Result</b>
<b>Ts<sub>1</sub></b>	Temperature for LED #1	101.2°C

## 3- Drive Current Measurement Data

Test Location	Location Description	Test Result
<b>I<sub>F1</sub>(mA)</b>	Forward current of LED #1	112.8mA

\*The test data was only valid for the test sample(s).



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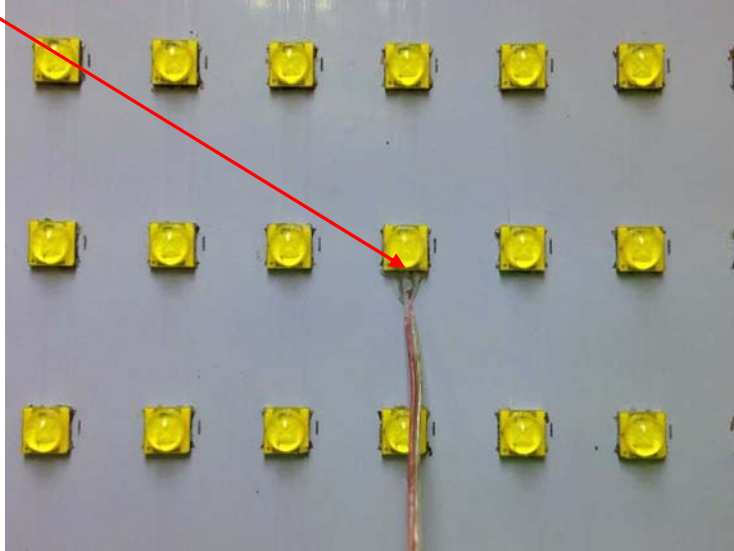
**Attachment A – EUT PHOTO**

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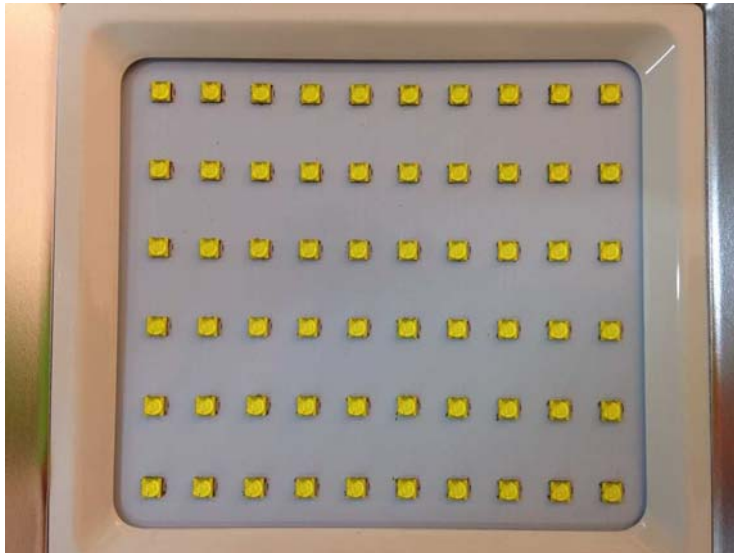
### Temperature Measurement Point

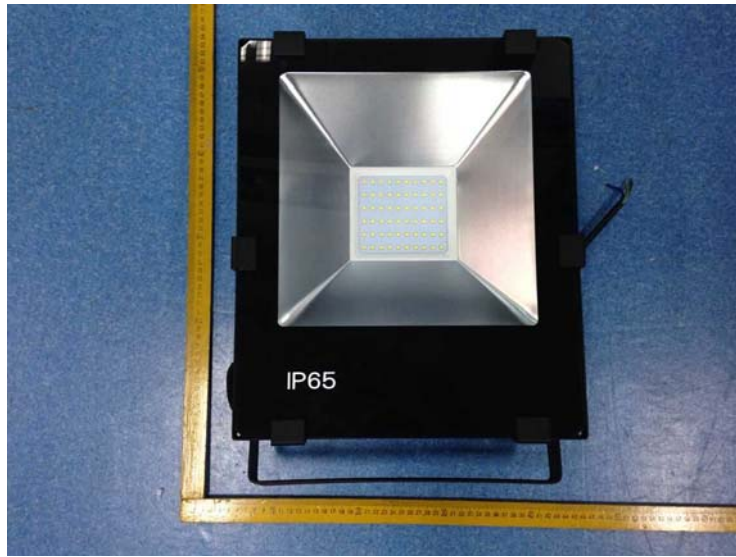
Temperature Measurement Point on  $TMP_{LED\#1}$

$TMP_{LED\#1}$



### EUT PHOTO





photo

\*\*\*END OF REPORT\*\*\*