



NVLAP LAB CODE 201045-0



Shenzhen Anbotek Compliance Laboratory Limited

ISTMT
(IN SITU TEMPERATURE MEASUREMENT TEST
AND TEST REPORT)

Report Number: R011506619L

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-100WA

Product Description: AC100-277V 50/60Hz 100W 5700K

Prepared By: Shenzhen Anbotek Compliance Laboratory Limited, 1/F.,
Building 1, SEC Industrial Park, No.0409 Qianhai Road,
Nanshan District, Shenzhen, Guangdong, China
Tel: +86 755 2606 6495
Fax: +86 755 26014772
Web: www.anbotek.com

Tested By: Rain chen

Reviewed By: 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℃	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℃~50℃, 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)

Product Type	Architectural Flood and Spot Luminaires
Applicant	Shenzhen sunper opto co., ltd
Applicant Address	Blok C, Sanmin Industrial Park, Shiyao Street, Bao'an District, Shenzhen 518108, Guangdong, China
Manufacturer	Shenzhen sunper opto co., ltd
Manufacturer Address	Blok C, Sanmin Industrial Park, Shiyao Street, Bao'an District, Shenzhen 518108, Guangdong, China
Brand name	sunper
Product Model Number	SP-FL-100WA
Rating	AC100-277V 50/60Hz 100W 5700K
LED Type	LED package
LED Manufacture	Cree®
LED Model Number	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

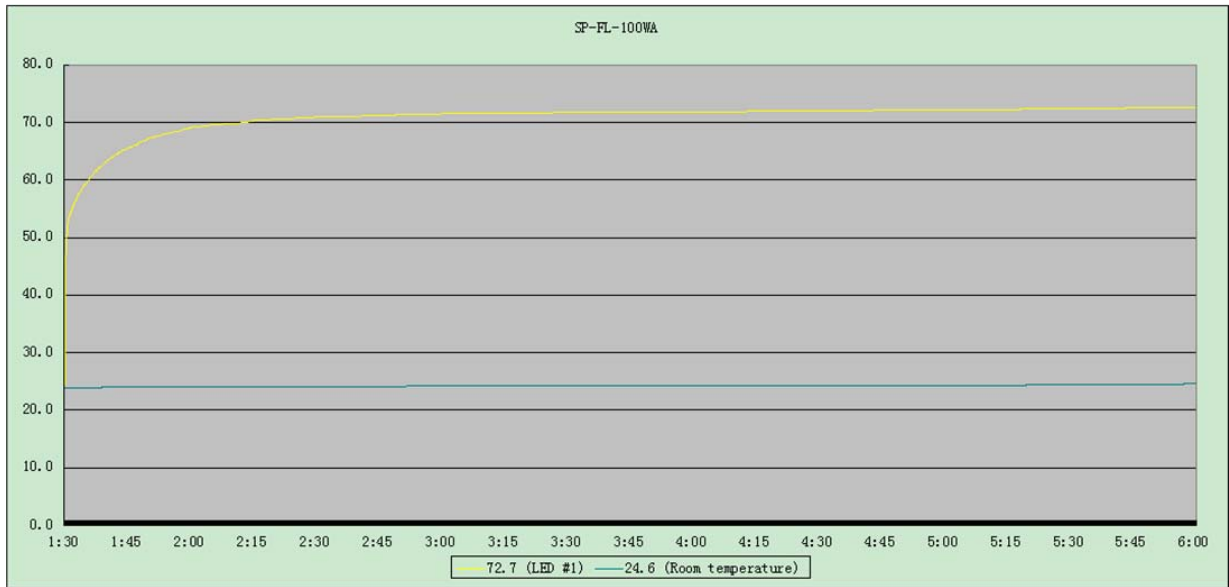
Temperature(°C) 25°C±5°CHumidity(%) 53%Supply voltage: 120V/60Hz Type of thermocouples: K

Test Product Model.	SP-FL-100WA	
Test LED Model.	XTEAWT-00-0000-00000LBE7	
Number of Driver/Product	1	
Test Duration	>4.0Hours	
Test Location	Location Description	Test Result
Ts₁	Temperature for LED #1	73.1°C

3- Drive Current Measurement Data

Test Location	Location Description	Test Result
I_{F1}(mA)	Forward current of LED #1	89.3mA

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

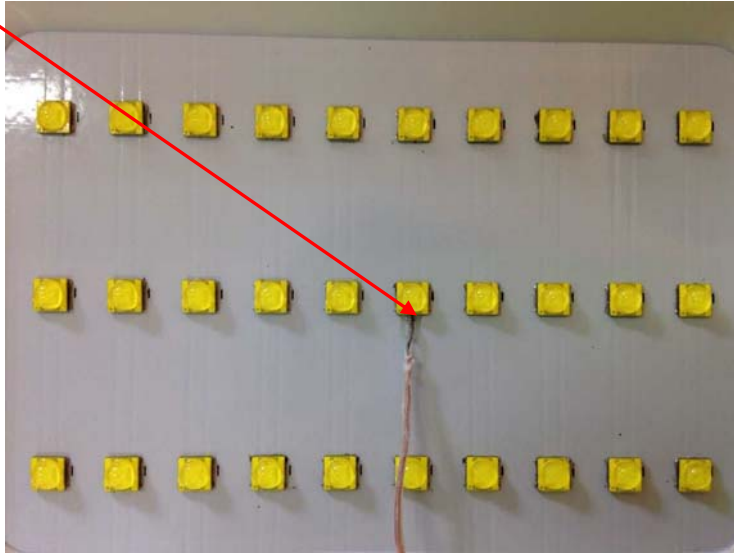


Attachment A – EUT PHOTO

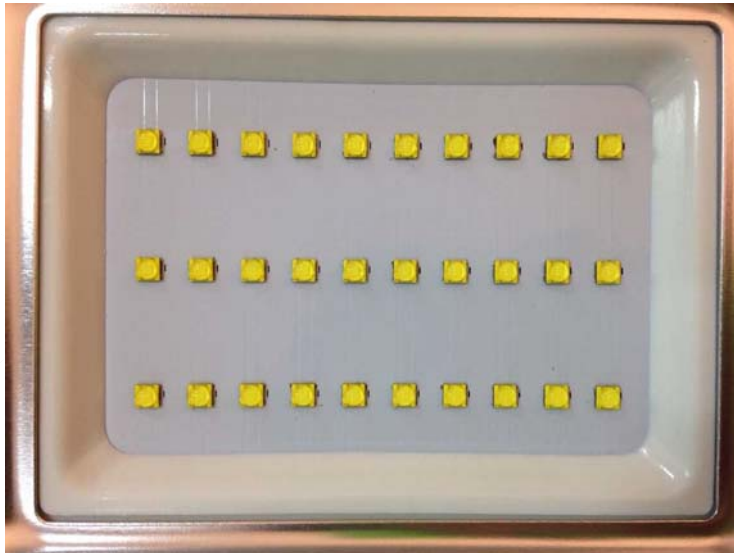
Temperature Measurement Point

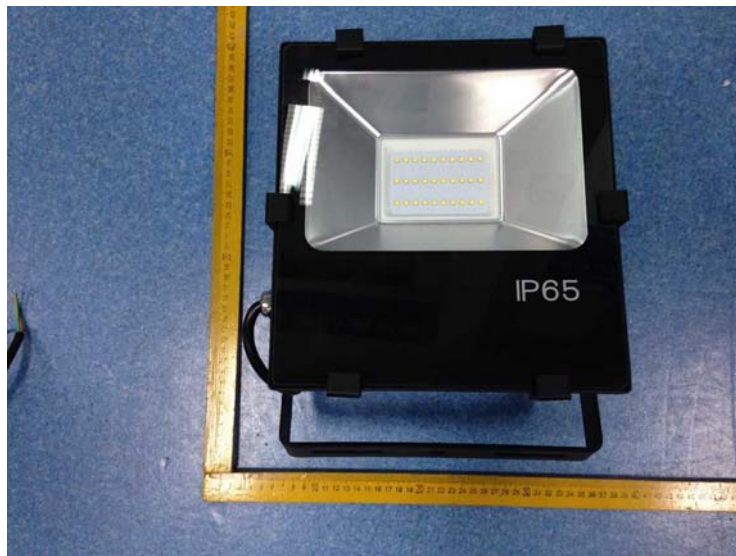
Temperature Measurement Point on $TMP_{LED\#1}$

$TMP_{LED\#1}$



EUT PHOTO





photo

END OF REPORT