



In Situ Temperature Measurement Test Report

For

AOK LED Light Company Limited

(Brand Name: AOK)

Building 1, St George's Science and Technology Industrial Park, Shajin Street, Shenzhen, Guangdong Province, China Zip 518104

Outdoor Pole/Arm-Mounted Area and

Roadway Luminaires

Model name(s): AOK-75WiT-HV

Representative (Tested) Model: AOK-75WiT-HV (3000K)

Model Different: All construction and rating are the same, except CCT

Test & Report By:

Johnson Sun

Engineer: Johnson Sun Date: Feb.01,2016

Review By:

Tommy Liang

Manager: Tommy Liang

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

 Laboratory: Standard-Tech Co. Ltd Testing Center

 NVLAP CODE: 201011-0

 Report Format Number STD/QR4918-C1/0

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1 General

1.1 Product Information

Brand Name	АОК					
Model Number	AOK-75WiT-HV					
Luminaire Type	Outdoor Pole/Arm-Mounted Areaand Roadway					
	Luminaires					
Rated Voltage / Frequency	200~ 480Vac, 50/60Hz					
Nominal Power	75W					
Rated Initial Lamp Lumen						
Declared CCT	3000K,3500K,4000K,4500K,5000K,5700K					
LED Manufacturer	Philips Lumileds					
LED Model	LUXEON 3030 2D					
Sample Receipt Date	2015-12-14					
Sample Number	GZN151161-G1(3000K)					
	Photo					

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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		2016-01-30	Test Ambient 25.1 °C				
Samp	le No.		LED Package Model				
GZN15	1161-G1		LUXEON 3030 2D				
LED driver of Each La	mp	Output voltage	ge V Measured LED working current (Max.) mA				
1		40.3			65.4		

3.1 Test Data :

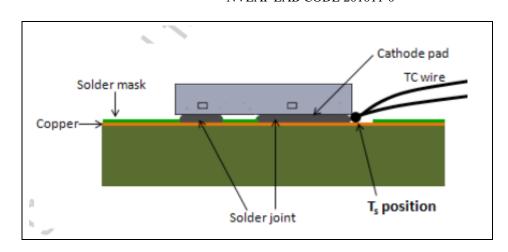
Input	Vol.	277.1\	/ Input Curi	rent	0.2	2739A	Input Wa	attage	74.58V	.58W		erature	500 min	
	_					-				sta		stabilization time:		
No.	1	Temperat	ure (°C)	°C) No.		Temperate		ture (°C)	No.	o. Temperature (°C)		ture (°C)	
		d	Corrected				d	Corr	ected				Corrected	
	меа	sured	at 25°C			Me	asured	at 2	25°C		IVIE	asured	at 25°C	
1	58.4		58.3	3		57.8		57.7		5 57.5 5		57.4		
2	57.2		57.1	4		57.6		57.5		6	56.9		56.8	
The highest in-situ measured temperature LED is 58.3°C														

3.2 Test Photo:

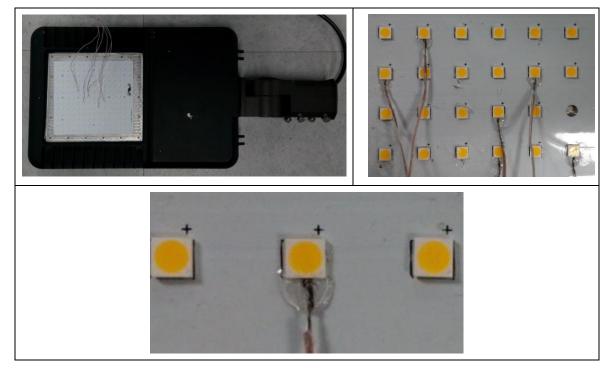
Ts Position:







Thermocouple Location on Temperature Measurement Point (TMP):



Results

Time (t) at which to estimate lumen maintenance (hours):	33,000		
Lumen maintenance at time (t) (%):	85.74%		
Reported L70 (hours):	>54000		

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

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