

Tel: 86574-8783 6802 Fax: 86574-8783 5902

In Situ Temperature Measurement Test Report

For

Antec Lighting Inc

(Brand Name:

ALK.

Uniy C, 3979 E Guasti Road, Ontario, CA 91761

Model name(s): AOK-82WiE-NV-LV2-XX-XX70-T302-P

Type of Outdoor Pole/A

Luminaire:

Outdoor Pole/Arm-Mounted Area and Roadway Luminaires

Report Date:

2019-03-20

Ningbo TengLi Testing Co., Ltd

Prepared By:

2nd floor, Block B, Ningbo Testing and Certification Base,

No. 66 Qingyi Road, Ningbo National Hi-Tech Zone,

Ningbo, Zhejiang

Test & Report By:

Review By:

Xeon Ren

Engineer: Xeon Ren

Manager: Johnson Sun

Johnson Sun

Note: 1. The results contained in this report pertain only to the tested samples

2. This report does not imply product certification, approval, or endorsement by A2LA, or any agency of the Federal Government.



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1 General					
1.1 Product Information:					
Model Number	AOK-82WiE-NV-LV2-XX-XX70-T302-P				
	The first "XX" can be "00" =no photocontrol or "				
	PH"=photocontrol prov	ided.			
Remark	The second "XX" could	be 27/30/35/40/45/50/57			
Remark	refers to CCT.				
	This is multiple listed re	eport, the Project Number			
	of the original report is .	JAE190121-L1.			
Representative (Tested) Model	AOK-82WiE-NV-LV2-0	00-2770-T302-P			
Model Difference	All construction and rating are the same, except				
Woder Difference	CCT and optical function				
SKU (if available)	N/A				
Type of Luminaire	Outdoor Pole/Arm-Mounted Area and Roadway				
(for integral lamps, list base type and lamp type)	Luminaires				
LED Manufacturer	Lumileds				
LED Model	LUXEON V Family				
Dimming	Dimmable				
Sample Number	JAE190121-L1				
Date of Receipt	Feb.23, 2019				
Luminaire Aperture (for downlights)		in.			
Luminaire Length		mm			
Luminaires Width		mm			
Number of Units (modular products)	N/A	s			

1.2 Rated Values:	
Rated Voltage / Frequency	100-277Vac, 50/60Hz
Nominal Power	82W
Rated Initial Lamp Lumen	
Declared CCT	2700K,3000K,3500K,4000K,4500K,5000K,
	5700K

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1.3 Standards or methods

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

No.	Name
ANSI/UL 1598:2008	Luminaires

1.4 Equipment list

Equipment ID	Equipment Name	Equipment Name Last Calibration Date		
ST-R-704	Power Meter	2019-01-06	2020-01-05	
ST-R-607	Temperature Tester	2019-01-06	2020-01-05	



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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 $1 \, \text{C}$ of another and are not rising.

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.



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3 Test Results

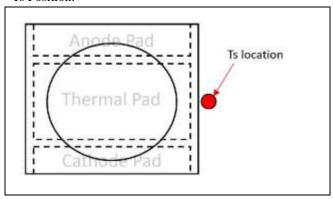
Test date	2019-03-01		Т	est Ambient	25.1 ℃	
Sample No.			LED Package Model			
JAE190121-L1			LUXEON V Family			
LED driver of Each La	mp	Output voltage	e V	Measured LED w	orking current (Max.) mA	
1		71.5			523.8	

3.1 Test Data:

Input	Vol.	120.0V	Input Curr	ent	0.6	6929A	Input W	attage	82.18V	V st	Temperature abilization time:	500 min
No.	Т	emperat	ure (°C)	No.	No. Temperatu		ture (°C	re (°C) No.		Tempera	ture (°C)	
	Maa	ourod	Corrected			Magazza		Corre	ected		Magaurad	Corrected
	iviea	sured	at 25°C			Measured		at 2	:5°C		Measured	at 25°C
1	54.0		53.9	3		54.9		54.8		5	54.5	54.5
2	55.2		55.1	4		55.4		55.3		6	53.7	53.6
The h	The highest in-situ measured temperature LED is 55.3°C											

3.2 Test Photo:

Ts Position:





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Thermocouple Location on Temperature Measurement Point (TMP):



Time (t) at which to estimate lumen maintenance (hours):	36,000
Lumen maintenance at time (t) (%):	97.85%
Reported L90 (hours):	>54000

Time (t) at which to estimate lumen maintenance (hours):	50,000
Lumen maintenance at time (t) (%):	97.82%
Reported L70 (hours):	>54000



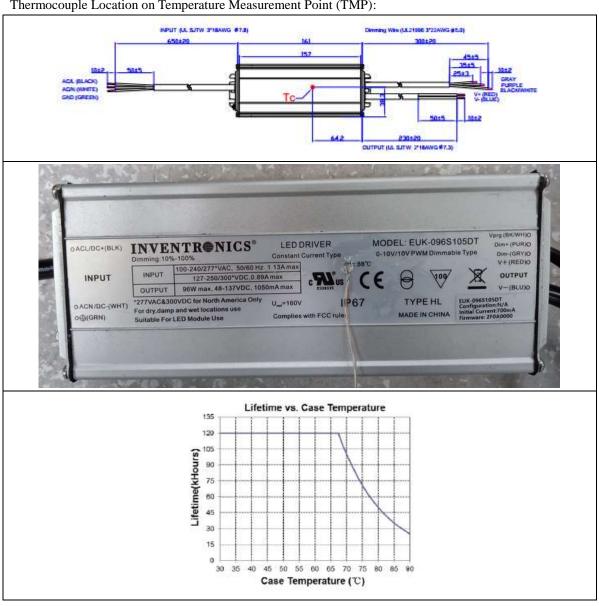
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3.3 Test Data of LED Driver:

Input	Vol.	120.0V	Input Cu	urrent 0.6929		Input Wattage		82.18W	Temperature stabilization time:	500 min
No	Measured TC Temperature (°C)				Temperature Limited of Life ≥ 50000 hours					
INO		Measured Corrected at 25°C		25°C						
1		53.5		53.4					80	

3.4 Test Photo:

Thermocouple Location on Temperature Measurement Point (TMP):





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4. Product Photo





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