



## In-Situ Temperature Measurement Test Report

### Relevant Standards

- IES LM-79-2008
- ANSI C82.77-10-2014
- UL1598-2008

### Prepared For

## AOK Industrial Company Limited

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Test Laboratory: UL Verification Services (Guangzhou) Co., Ltd.

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### Catalog Number

**AOK-300WPLB-NV-L2-00-3080-T501-A**

### Project Number

4791629986

### Report Number

4791629986-3b

### Test Date

2025-01-23

### Issue Date

2025-02-26

### Revision Date

N/A

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Approved By

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The results contained in this report pertain only to the tested sample.

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The laboratory is not responsible for the information which provided by customer, its authenticity can affect the validity of the result in the test report.



### 1.0 Test List

Sample Received Date: 2025-01-16

Test No.	Test Item	Sample ID	Model Number	Test Conducted By
1	In-Situ Temperature Measurement Test	8043568	AOK-300WPLB-NV-L2-00-3080-T501-A	Ray Huang

#### Remark (if any)

[ X ] 1. UL test equipment information is recorded on Meter Use in UL's Aurora database.

## 2.0 Product Description

Luminaire Description: Outdoor Pole/Arm-Mounted Area and Roadway Luminaires

Model Number: AOK-300WPLB-NV-L2-00-3080-T501-A

Electrical Ratings and CCT: 100-277Vac, 50/60 Hz, 300W/240W/200W adjustable, 3000K/4000K/5000K tunable, default power setting is 300W and default CCT setting is 3000K.

Driver Model Number: SS-320NH-V300BHB

LED Package: L128-xx80RC35004W4, Lumileds Holding B.V.

Family Model and Variation: AOK-XXXWPLB-NV-L2-XX-xx80-T#-Y, where "XXX" represents default power setting, can be 300=300W, 240=240W, 200=200W. "XX" represents sensor, can be 00=No sensor, PIR=PIR sensor, MS=Motion sensor, DV= Dimmable, PH=Photocontrol. "xx" represents default CCT setting, can be 30=3000K, 40=4000K, 50=5000K. "T#" represents different lens, can be T301, T501. "Y" represents mounting bracket, can be A, B, D, E, F, G.

### Photos of Luminaire Characteristics



### 3.0 In-Situ Temperature Measurement Test

#### Test Method

1. In-Situ Temperature Measurement Test is conducted according to the UL1598-2008.
2. The testing was conducted in a room with ambient temperature of  $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ . The apparatus construction followed those described in UL1598-2008 for normal temperature testing. Thermocouples were placed on the LED package in the locations indicated by LM-80 report. Thermocouples were placed on the LED driver case in the locations specified by the manufacture if necessary. The temperature was recorded after the lamp was operated by 3.5 hours in stability or by 7.5 hours.
3. The data and photos in LM-80 test report is provided by the customer. The data and photos in driver specification is provided by the customer.

#### In-Situ Temperature Measurement Test Conditions

Temperature (°C)	Voltage (Vac)	Frequency (Hz)	Current (A)	Power (W)	Power Factor	Orientation
21.7	120	60	2.47	295.6	0.9972	Horizontal

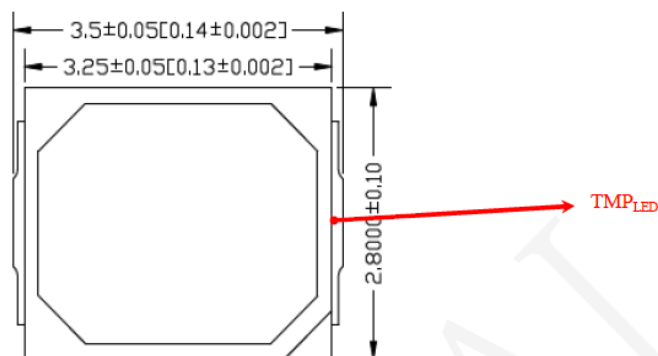
#### Test Results(LED)

Thermocouple Location	Manufacturer Declared Current (mA)	Temperature for Lighting source (°C)		LED Model Number	LM-80 Limit Current (mA)	LM-80 Limit Temp. (°C)
		Test result column 1	Test result (Correct to 25 °C)			
TMP of LEDs	100	79.7	83.0	L128-3080RC35004W4	100	105
Ambient temperature	N/A	21.7	25.0			

#### Test Results(Driver)

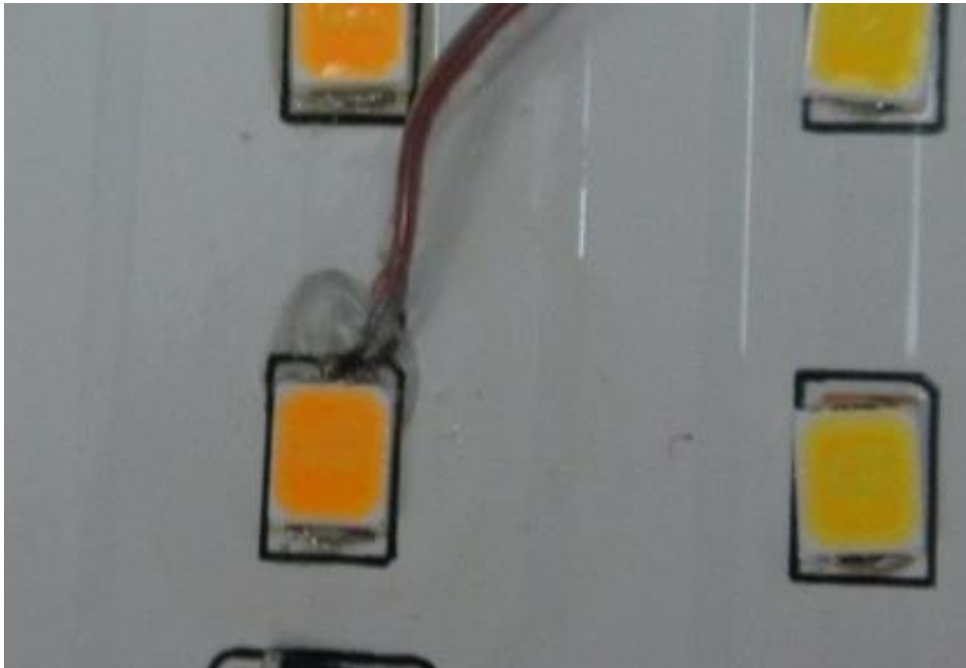
Thermocouple Location	Temperature for Driver (°C)		Driver Model Number	Driver Limit Temp. (°C)
	Test result column 1	Test result (Correct to 25 °C)		
Tc of Driver	64.9	68.2	SS-320NH-V300BHB	85
Ambient temperature	21.7	25.0		

#### TMP point in LM-80 report



### 3.0 In-Situ Temperature Measurement Test (Cont'd)

Test Photos for TMP of LED Packages



### 3.0 In-Situ Temperature Measurement Test (Cont'd)

#### Test Photos for Tc Point of Driver





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