

In Situ Temperature Measurement Test Report

For

ASmart LIGHT CO., LTD

(Brand Name: ASmart)

506 N GARFIELD AVE SUITE#210 ALHAMBRA CA 91801

Architectural Flood and Spot Luminaires

Model name(s): AST-SP17-500BA1A1-acdWaf

Remark: "a" can be can be 2 letters represent lamp colors; "BH = Black、WH=White、BR=Bronze or Customized";

"c" can be "10SP", "20SP" or blank for Surge protector type provided or not;

"d" can be "AM" or "FM" and "FM2" for mounting bracket types;

"f" can be any digits to represent CCT,40=4000K, 50=5000K,57=5700k.

Representative (Tested) Model:

AST-SP17-500BA1A1-acdWA40(Setting at 30°)

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

Test & Report By:



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Date: 2026-02-12

Review By:



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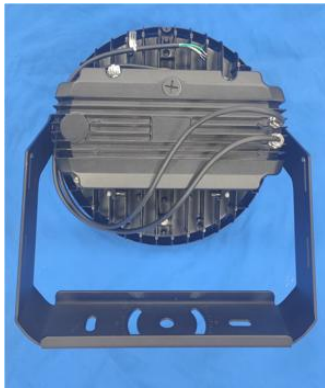
Report Format Number BL-FM-SA-012

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1 General

1.1 Product Information

Brand Name	AS MART
Model Number	AST-SP17-500BA1A1-acdWaf
Luminaire Type	Architectural Flood and Spot Luminaires
Nominal Power	500W(Power adjustable)
Rated Initial Lamp Lumen	--
Declared CCT	4000K,5000K,5700K
LED Manufacturer	Lumileds Holding B.V.
LED Model	L128-4070RC35001W1 L128-5770RC35001W1
LED Driver Manufacturer	SHENZHEN SOSEN ELECTRONICS CO.,LTD
LED Driver Model	SS-500NP-360BH
Sample Receipt Date	2026-02-06
Sample Number	UTU2601056E-A1
Photo	
	

1.2 Standards or methods

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

No.	Name
ANSI/UL 1598:2021	Luminaires

1.3 Equipment list

Equipment ID	Equipment Name	Calibration Date
BL-009B	Power Meter	2025-08-15
BL003	Hybrid Recorder	2025-08-15

2 Test conducted and method

2.1 Ambient Condition

Test was conducted in an ambient temperature of $25 \pm 5^{\circ}\text{C}$. 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.

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

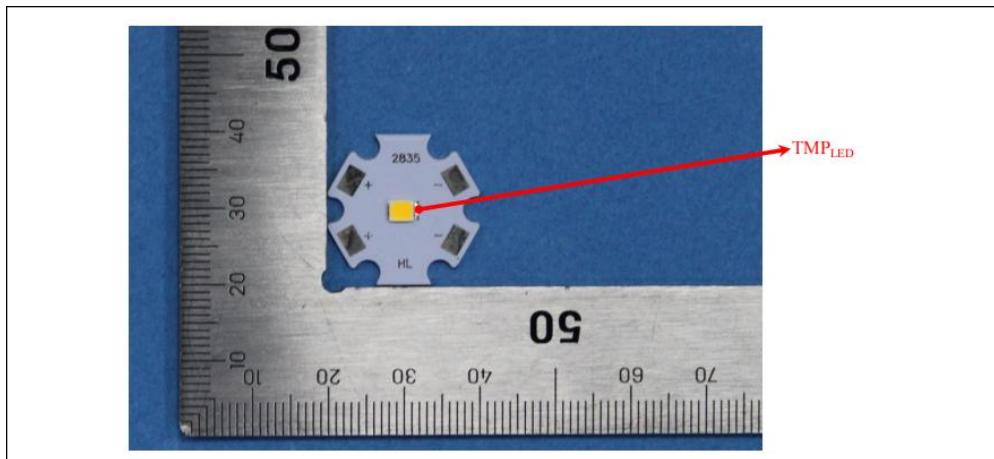
Test date	2026-02-08	Test Ambient	25.1 °C
Sample No.		LED Package Model	
UTU2601056E-A1		L128-4070RC35001W1	
LED driver of Each Lamp	Output voltage V	Measured LED working current (Max.) mA	
1	262.9	90.5	

3.1 Test Data:

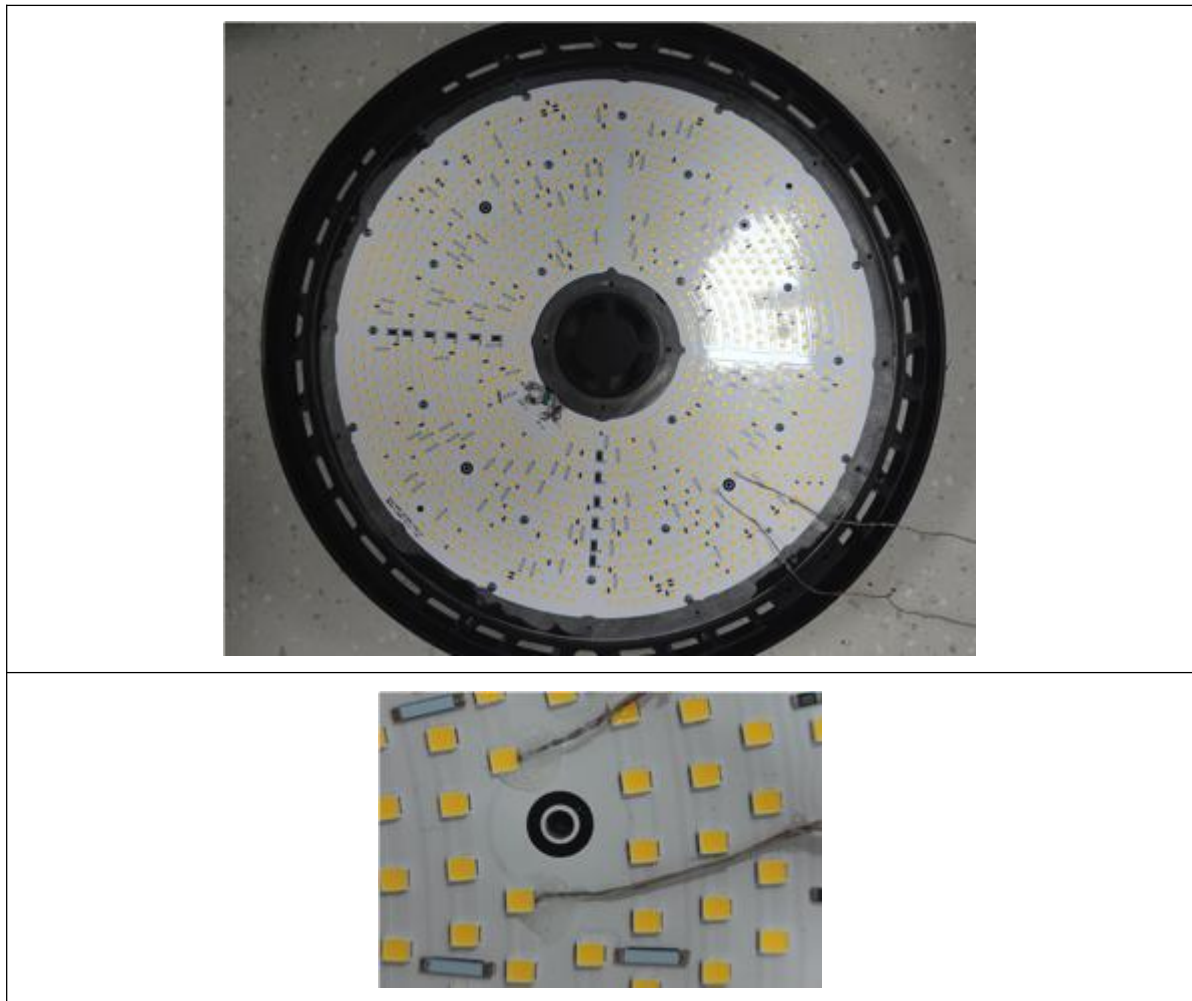
Input Vol.	120.0V	Input Current	4.314 A	Input Wattage	517.15W	Temperature stabilization time:	500 min	
No.	Temperature (°C)		No.	Temperature (°C)		No.	Temperature (°C)	
	Measured	Corrected at 25°C		Measured	Corrected at 25°C		Measured	Corrected at 25°C
1	76.7	76.6	2	76.3	76.2	--	--	--
The highest in-situ measured temperature LED is 76.6 °C								

3.2 Test Photo:

Ts Position:



Thermocouple Location on Temperature Measurement Point (TMP):



Results

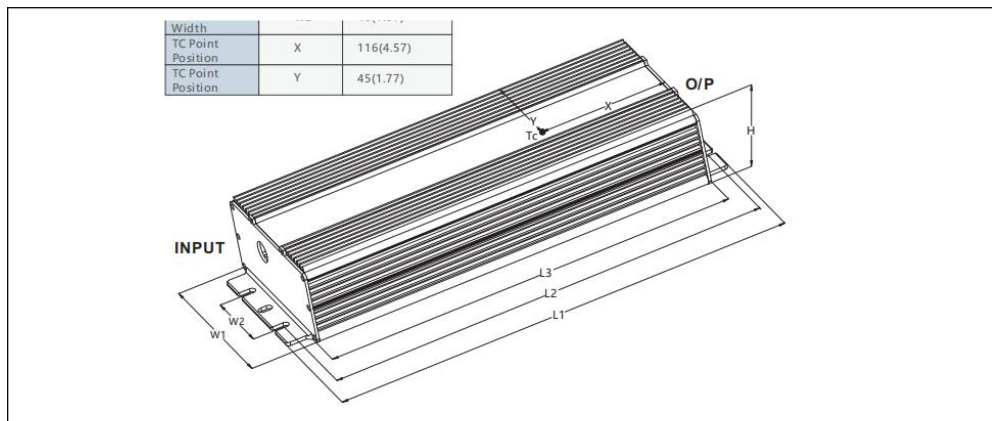
Time (t) at which to estimate lumen maintenance (hours):	36,000
Lumen maintenance at time (t) (%):	93.98%
Reported L90 (hours):	>54000

3.3 Test Data of LED Driver:

Input Vol.	120.0V	Input Current	4.314A	Input Wattage	517.15W	Temperature stabilization time:	500 min
No	Measured TC Temperature (°C)			Temperature Limited of Life $\geq$ 50000 hours			
	Measured		Corrected at 25°C				
1	59.6		59.5	83			

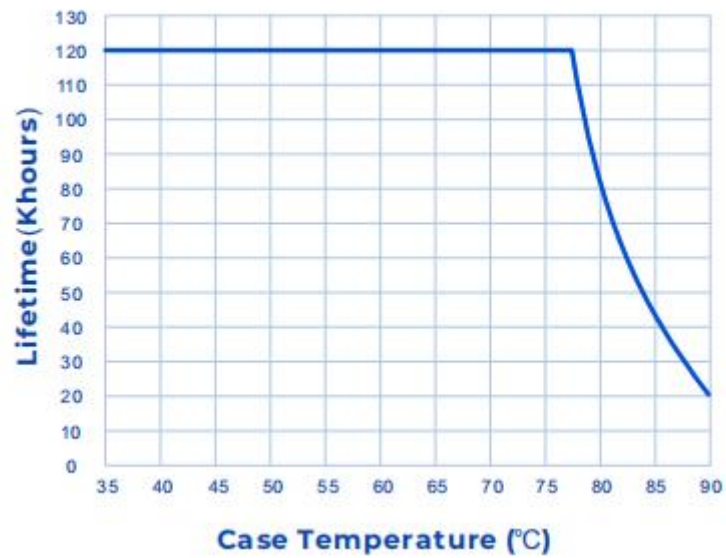
3.4 Test Photo of LED Driver:

Ts Position:



Thermocouple Location on Temperature Measurement Point (TMP):





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