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1. General

1.1 Product Information

Product description.....:	Outdoor, led street light
Rated Inputs... ..:	100-277V/AC, 50/60Hz
Rated Power	100W
Declared CCT.....:	5000K
LED Manufacturer.....:	PHILIPS
LED Model.....:	SMD2835
Forward current of the LED chip.....:	70.4mA Driver
Driver Model.....:	XLG-100-H-A
Date of Test Samples.....:	March 14, 2022
Quantity of Test Samples.....:	1 unit

1.2 Standards or methods

Standard	Method
ANSI/UL 1598: 2008	In-Situ Temperature Measurement Test is conducted according to the ANSI/UL 1598-2008, Sections 19.7, 19.10-16. 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 UL15898-2008 for normal temperature testing. Thermocouples were placed on the LED package and LED driver in the locations indicated by LM-80 report and driver. The temperature was recorded after the lamp was operating for a minimum of 7.5 hours .

1.3 Equipment list

ID	Instrument	Model name	Calibration Date	Calibration Due Date
UN-S-213	Power Meter	PF9800	2021-07-14	2022-07-14
UN-S-211	Temperature Tester	JK-8AU	2021-07-14	2022-07-14
UN-S-211	K thermocouple	JK-8AU-001	2021-07-14	2022-07-14

2. Test Result

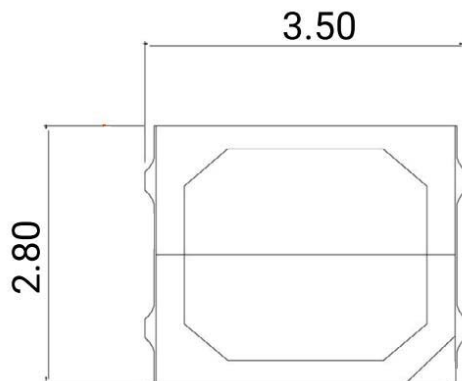
2.1 Electrical data

Criteria Item	Result
Input voltage	220V
Input current	0.45A
Total power	100W
Power factor	0.982
Current on each LED module	70.4mA

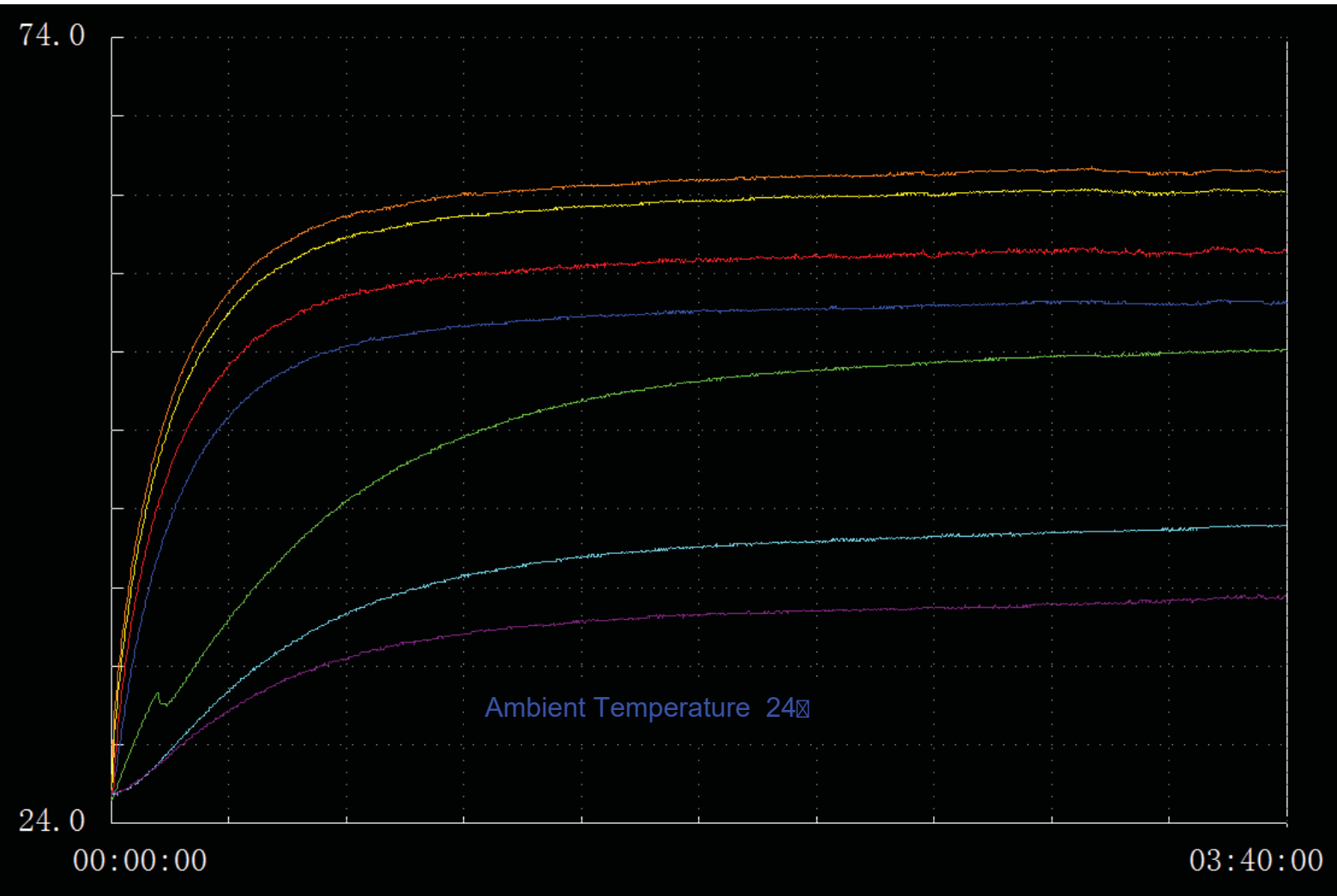
2.2 Temperature data

Criteria Item	Result(°C)	Limit(°C)
Ambient temperature	24	—
Measured maximum Temperature @TEM _{LED}	65.6	105
Measured Temperature @TEM _{LED} (Normalized to 25°C)	66.6	105
LED Driver T _c	53.8	90
LED Driver T _c (Normalized to 25°C)	54.8	90

2.3 TMP in LM-80 Report

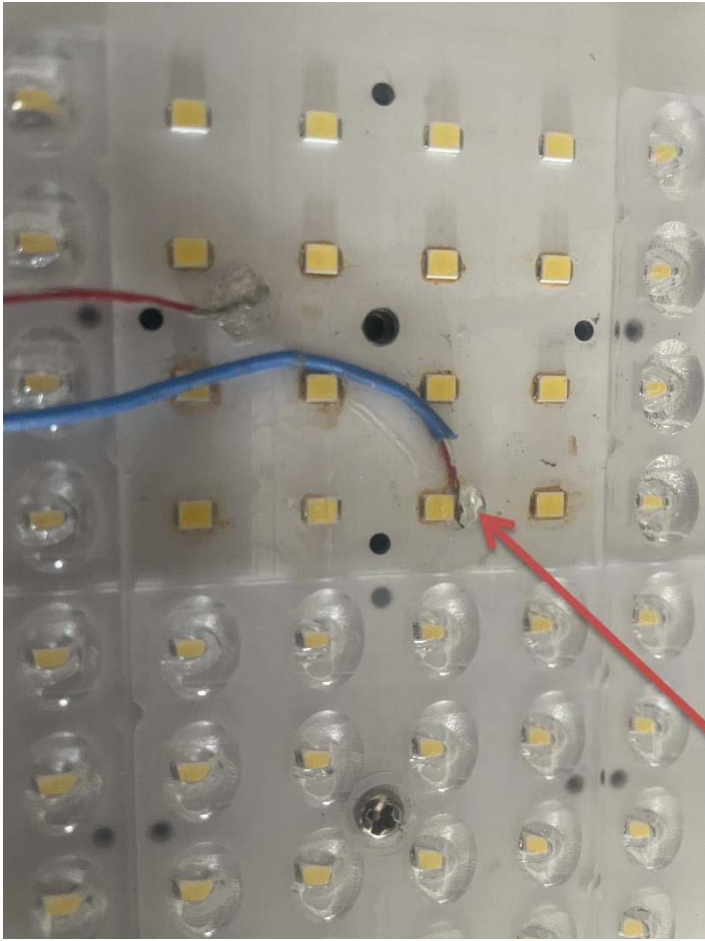


3. Temperature rise graph



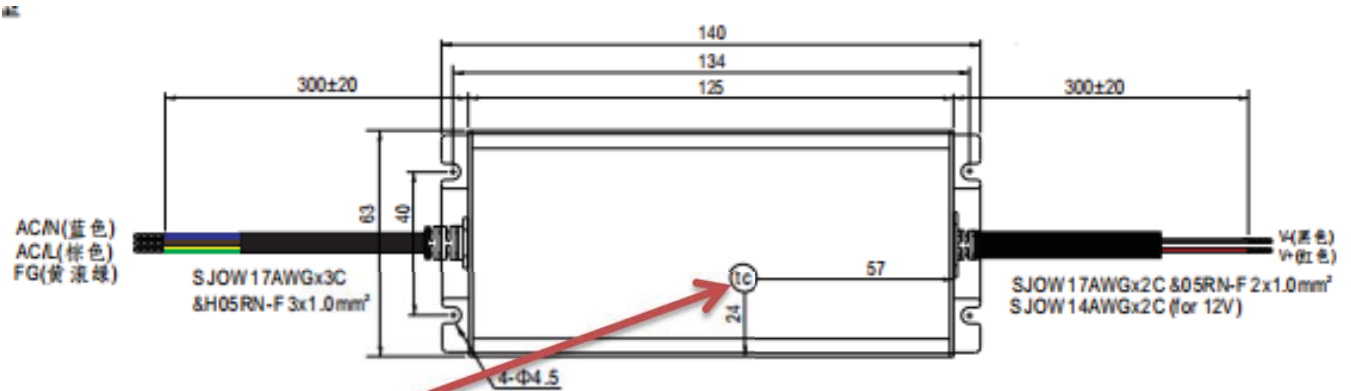
CH 1	LED Ts	65.6	CH 5	Driver Tc	53.8
CH 2	PCB Ts	64.3	CH 6	Driver Ta	42.6
CH 3	Heatsink Internal	57.2	CH 7	Driver Heatsink	38
CH 4	Heatsink External	60.3		Ambient Temperature	24

4. Thermocouple contact photo



TEM_{LED}

5. Thermocouple contact on the Driver photo



TC



6. Photo of sample

