Test report of in situ temperature measurement

REPORT NO: UN2005TM002

Client..... : Shenzhen cae Lighting Co.,Ltd

Address..... : Floor 3, Building 1, Baosanhe Industry. Park, Kukeng, Guanlan, 518110, Shenzhen

Product..... : Squarebeam-elite LED High Bay

Model..... : HB360ME6F-CO

Rating..... : 220-240V/AC, 50/60Hz, 360W, 4000K

Test by: Vince Ren	Check by: Harold Liu	Reviewed by: Nicolas Zhang
Signature: Vince	Signature:	Signature:

Test date: May 12th, 2026 Check date: May 12th, 2026 Reviewed date:May 12th, 2026

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1. General

1.1 Product Information

Product description.....:	Squarebeam-elite LED High Bay
Model Number .....:	HB360ME6F-CO
Rated Inputs... .....:	220-240VAC, 50/60Hz
Rated Power .....:	360W
Declared CCT.....:	4000K
LED Manufacturer.....:	CREE
LED Model.....:	3030
Forward current of the LED chip.....:	150mA Driver
Model.....:	OT 200/220-240/5A6 P7
Date of Test Samples.....:	May 12th, 2026
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 ANS/UL 1598-2008,Sections 19.7,19.10-16.The testing was conducted in a room with ambient temperature of 25℃±5℃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	2019-07-10	2020-07-10
UN-S-211	Temperature Tester	JK-8AU	2019-07-10	2020-07-10
UN-S-211	K thermocouple	JK-8AU-001	2019-07-10	2020-07-10

2. Test Result

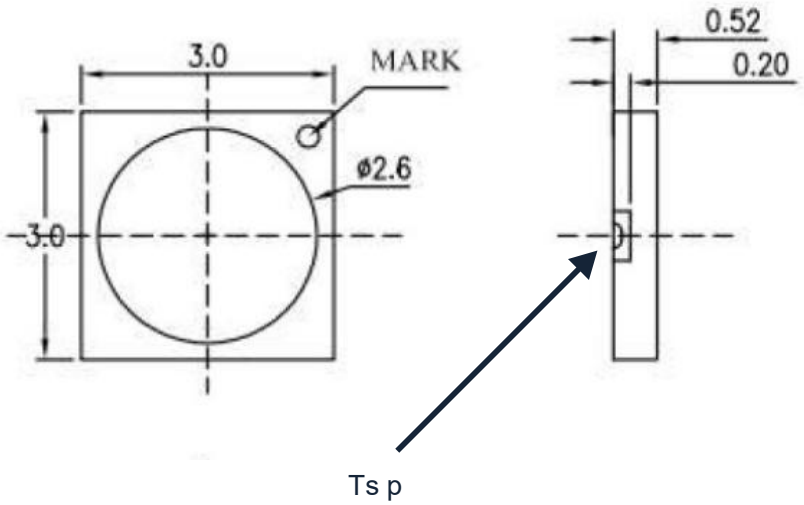
2.1 Electrical data

Criteria Item	Result
Input voltage	230.1V
Input current	1.59A
Total power	360.8W
Power factor	0.981
Current on each LED module	110mA

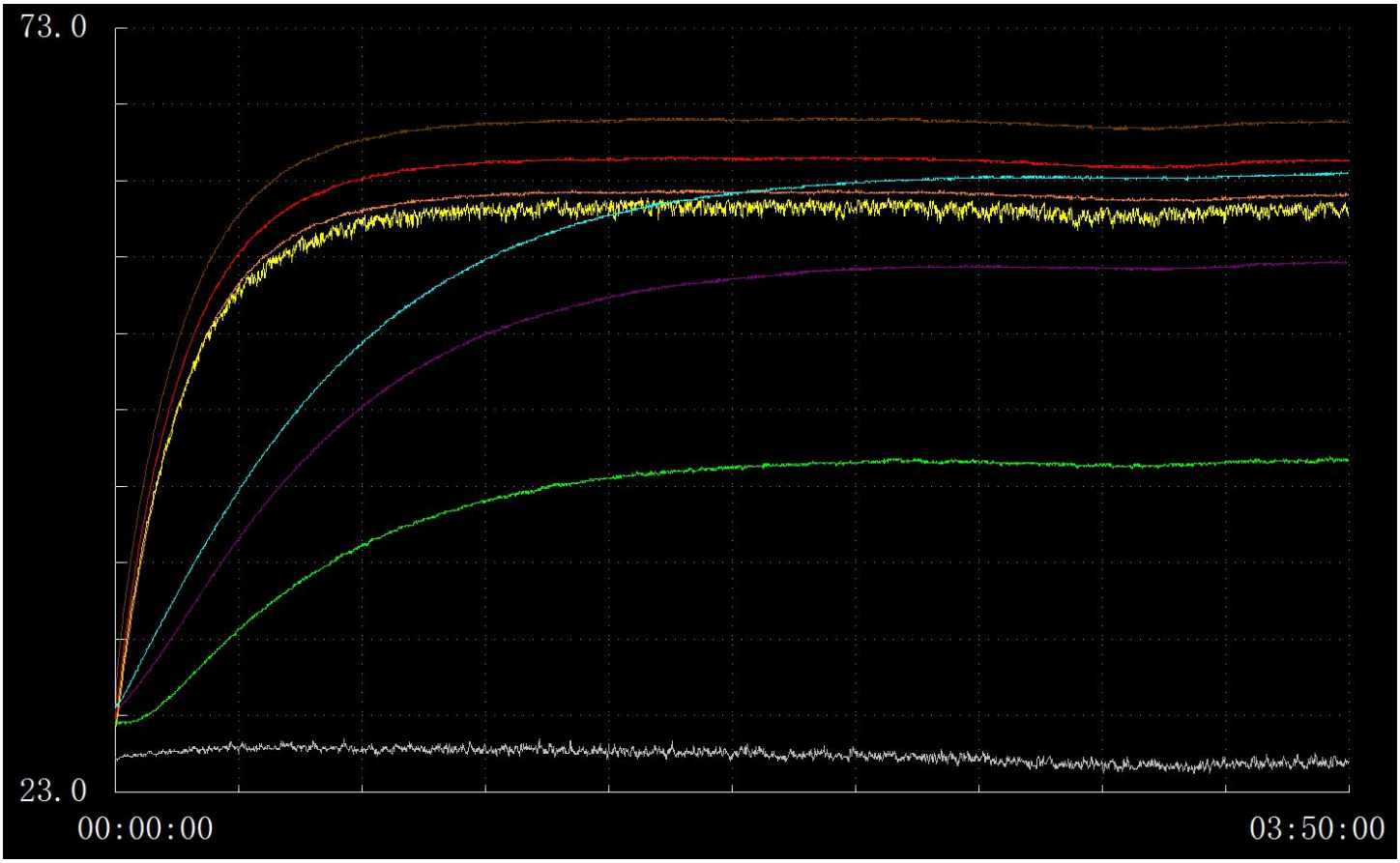
2.2 Temperature data

Criteria Item	Result(℃)	Limit(℃)
Ambient temperature	25.3	—
Measured maximum Temperature @TEM_{LED}	67.1	105
Measured Temperature @TEM_{LED} (Normalized to 25℃)	66.8	105
LED Driver Tc	63.8	90
LED Driver Tc (Normalized to 25℃)	63.5	90

2.3 TMP in LM-80 Report

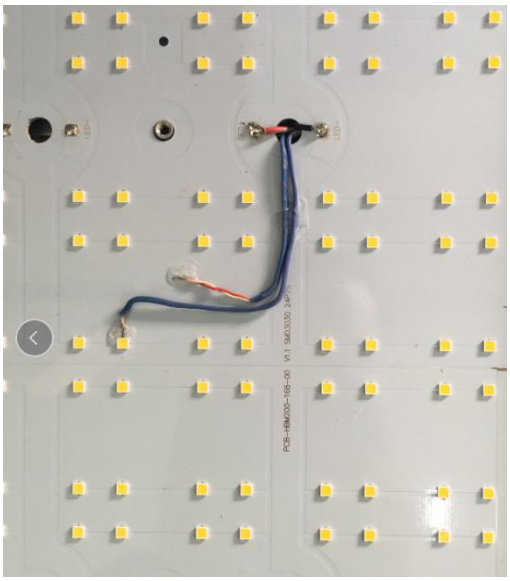


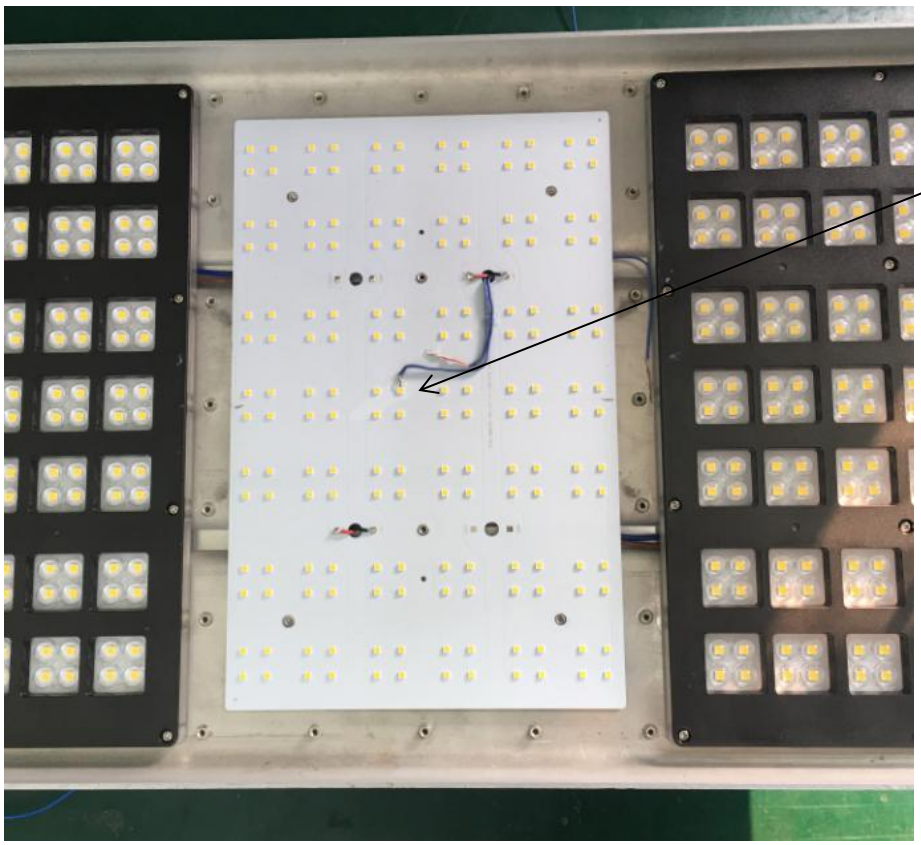
3. Temperature rise graph



CH 1 LED Ts	67. 1˚C	CH 5 Heatsink External	44. 9˚C
CH 2 PCB Ts	64. 5˚C	CH 6 Driver Tc	63. 8˚C
CH 3 Heatsink Internal	62. 3˚C	CH 7 Driver Ta	57. 9˚C
CH 4 Heatsink External	61. 5˚C	CH 8 Ambient Temperature	25. 3˚C

4. Thermocouple contact photo





5. Thermocouple contact on the Driver photo

