

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

250623168GZU-028

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None

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Report No.: 250623168GZU-028

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLTB66927XXXALB

Remark: "XXX" represents the color of the appearance.

RENDERED TO

Visual Comfort & Co.

Contact Name: Javan Rivero

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TEST: Electrical and Photometric as required to the IES LM-79 test standard.

AUTHORIZATION: The testing performed was authorized by signed quote number: QGZ250619128.

STANDARDS USED: The following American National Standards or Illuminating Engineering Society of North America Test Guides were used in part or totally to test each specimen:

IES LM-79-24 Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products

ANSI C78.377-2017 (R2022) Specifications of the Chromaticity of Solid State Lighting Products

DESCRIPTION OF SAMPLE: The client submitted one sample of model SLTB66927XXXALB. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S250623168-029.

MANUFACTURER /FACTORY & ADDRESS: Guangzhou Xiongyi Precision Metalworking Co., Ltd
Hantang Industrial Zone, Langbian Village, Shiji Town, Panyu District, Guangzhou City, Guangdong Province, China 511450

DATES OF TESTS: 23 July 2025

ISSUED BY: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

TEST LOCATION: Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China

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TEST REPORT

SUMMARY

Model Number:	SLTB66927XXXALB
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLTB66927XXXALB

Criteria	Result
Total Lumen Output	123.4 lm
Total Power	7.5 W
Luminaire Efficacy	16.5 lm/W
S/MH(C0/180)	2.47
S/MH(C90/270)	2.45
Correlated Color Temperature (CCT)	2626 K
Color Rendering Index (CRI)	91
R9	50
Chromaticity Coordinate (x)	0.4686
Chromaticity Coordinate (y)	0.4162
Chromaticity Coordinate (u')	0.2656
Chromaticity Coordinate (v')	0.5308

Remark:

N/A

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TEST REPORT

EQUIPMENT LIST

Equipment Used	Model Number	Control Number
Goniophotometer System	Go-R5000	SA063-16
KONICA MINOLTA - Illuminance meter	CX-2B_WL	SA063-16-01
Standard Lamp	D215S	SA063-16-06
Digital Power Meter	PLM3000	SA063-16-09
AC power source for Goniophotometer	PCR-1000WH	SA063-16-10
Temperature Meter	S500-TH	SA047-182

GENERAL REMARK

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When determining for test conclusion, measurement uncertainty of tests has been considered.

Throughout this report a ☐ comma ☒ point is used as the decimal separator.

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TEST REPORT

TEST METHOD

Seasoning in Sample Orientation – LED Products

No seasoning was performed in accordance with IES LM-79

Light Distribution and Output Measurements

Light Distribution and total light output (luminous flux) were measured using a Go-R5000 Type-C Rotating Mirror Goniophotometer. Temperature 25°C and relative humidity of 60% was measured at a position in the testing laboratory.

The lamp rotates only around the fixed vertical axle in the prescribed burning position. The lamp and mirror permit the measurement of luminous intensity at the direction of any horizontal or vertical angle without tilting the lamp. The lamp was allowed to stabilize before measurements were made.

Chromaticity Measurements

Chromaticity was measured using a 2 meters integrating sphere spectral lamp measurement system, 4 π geometry, with an interior coating reflectance no less than 95 %. Temperature was measured at a position inside the sphere shielded from direct light. Relative humidity of 65% was measured at a position in the testing laboratory.

Spectral radiant flux measurements were made using spectroradiometer attached to the detector port of the integrating sphere. Each lamp was allowed to stabilise before measurements were made. The calibration of the integrating sphere spectroradiometer system is by the reference/standard lamps which are traceable to National Institute of Metrology P.R. CHINA. Lamp efficacy (lumens per watt) for each lamp model was then computed based on the luminous flux result. Electrical measurements including voltage, power and power factor were measured using YOKOGAWA - Digital Power Meter., model WT310E.

Correction factor (self-absorption) has been considered when doing measurement.

Standard lamp used for Goniophotometer method:

Model: D215S

Current: 4.809A DC

Standard lamp used for integrating sphere:

Model: D204

Current: 3.958A DC

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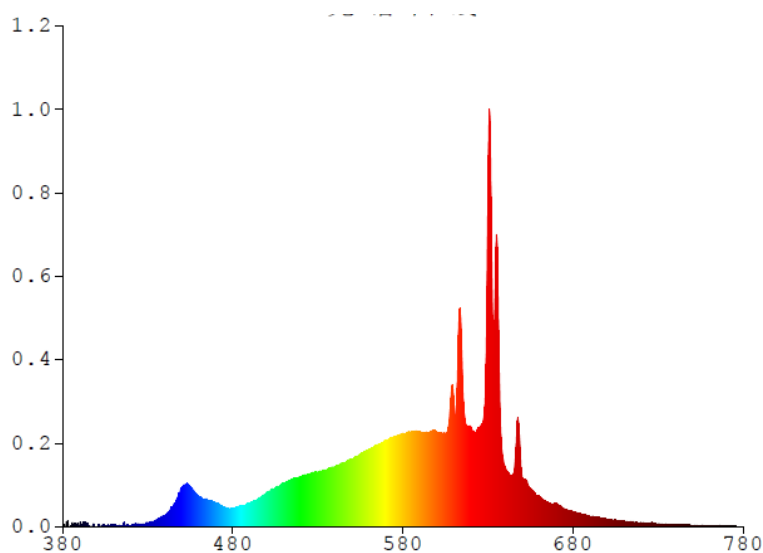
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLTB66927XXXALB

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.0074	480	0.0942	580	0.4800	680	0.0764	780	0.0000
385	0.0011	485	0.1051	585	0.4901	685	0.0662		
390	0.0038	490	0.1191	590	0.4888	690	0.0544		
395	0.0073	495	0.1433	595	0.4814	695	0.0481		
400	0.0000	500	0.1761	600	0.4860	700	0.0379		
405	0.0000	505	0.1968	605	0.4826	705	0.0335		
410	0.0055	510	0.2214	610	0.6364	710	0.0282		
415	0.0072	515	0.2420	615	0.7798	715	0.0245		
420	0.0007	520	0.2609	620	0.5151	720	0.0215		
425	0.0116	525	0.2705	625	0.5137	725	0.0173		
430	0.0200	530	0.2769	630	1.6771	730	0.0138		
435	0.0338	535	0.2927	635	1.5026	735	0.0122		
440	0.0554	540	0.3080	640	0.3096	740	0.0112		
445	0.1053	545	0.3270	645	0.2707	745	0.0107		
450	0.2012	550	0.3503	650	0.2682	750	0.0038		
455	0.2037	555	0.3669	655	0.1966	755	0.0049		
460	0.1564	560	0.3998	660	0.1578	760	0.0041		
465	0.1383	565	0.4238	665	0.1271	765	0.0026		
470	0.1203	570	0.4443	670	0.1223	770	0.0039		
475	0.1020	575	0.4651	675	0.0855	775	0.0022		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTB66927XXXALB

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

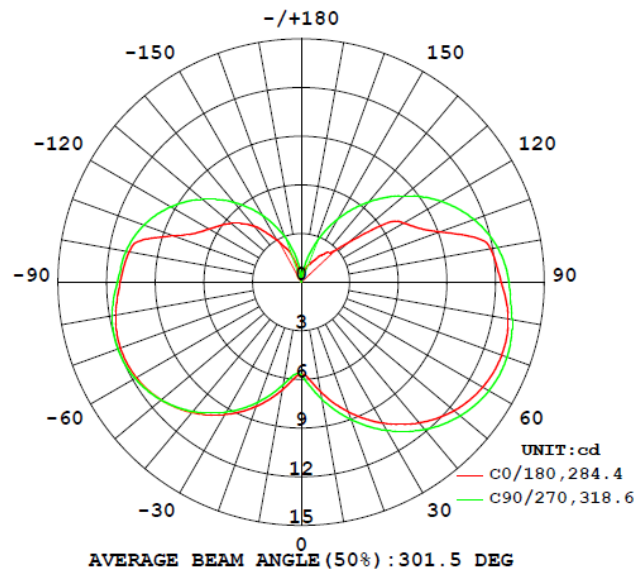
Photometric Measurements at 25°C – Distribution Method

Intertek Sample No.	Base Orientation	Correlated Color Temperature (K)	CRI	R9	CIE 31'	CIE 31'	CIE 76'	CIE 76'
					Chromaticit y	Chromaticit y	Chromaticit y	Chromaticit y
					Coordinate (x)	Coordinate (y)	Coordinate (u')	Coordinate (v')
SLTB66927XXXALB								
S2506231 68-029	base-up	2626	91	50	0.4686	0.4162	0.2656	0.5308

Photometric and Electrical Measurements at 25°C – Distribution Method

Intertek Sample No.	Base Orientation	Input Voltage (Vac)	Input Current (mA)	Input Power (Watts)	Input Power Factor	Absolute Luminous	Lumen
						Flux (Lumens)	Efficacy (Lumens Per Watt)
SLTB66927XXXALB							
S2506231 68-029	base-up	120.2	125.7	7.5	0.497	123.4	16.5

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTB66927XXXALB

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	5.7	5.7	5.7	5.7	5.7
5	6.0	6.3	6.4	6.5	6.5
10	6.8	7.2	7.3	7.4	7.3
15	7.7	8.0	8.2	8.2	8.2
20	8.5	8.9	9.0	9.1	9.0
25	9.3	9.7	9.9	9.9	9.8
30	10.0	10.4	10.6	10.7	10.6
35	10.7	11.1	11.3	11.4	11.2
40	11.3	11.7	11.9	12.1	11.9
45	11.9	12.3	12.5	12.6	12.4
50	12.3	12.7	12.9	13.1	12.8
55	12.7	13.0	13.3	13.4	13.1
60	12.9	13.3	13.5	13.7	13.4
65	13.1	13.4	13.6	13.8	13.5
70	13.2	13.4	13.7	13.9	13.5
75	13.1	13.3	13.6	13.8	13.4
80	13.0	13.1	13.4	13.6	13.2
85	12.7	12.8	13.1	13.3	13.0
90	12.3	12.6	12.9	13.1	12.8
95	12.1	12.4	12.7	12.9	12.6
100	11.9	12.1	12.4	12.6	12.3
105	10.9	11.7	11.9	12.2	11.9
110	9.1	11.2	11.4	11.6	11.3
115	8.0	10.6	10.7	11.0	10.7
120	7.3	9.9	10.0	10.2	10.0
125	6.3	9.0	9.1	9.4	9.2
130	3.8	7.6	8.2	8.5	8.3
135	2.6	6.4	7.2	7.6	7.4
140	2.4	5.4	6.2	6.6	6.5
145	2.0	4.6	5.2	5.6	5.5
150	1.5	3.7	4.3	4.6	4.5
155	1.2	2.8	3.3	3.5	3.5
160	1.1	1.9	2.3	2.5	2.5
165	0.9	1.1	1.3	1.3	1.6
170	0.4	0.4	0.4	0.6	0.7
175	0.1	0.0	0.0	0.0	0.0
180	0.0	0.0	0.0	0.0	0.0

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTB66927XXXALB

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLTB66927XXXALB		
0-30	7.0	5.7
0-40	13.5	11.0
0-60	33.2	26.9
0-90	71.8	58.2
60-90	38.6	31.3
0-180	123.4	100.0

Beam Angle

Total Beam Angle(°)

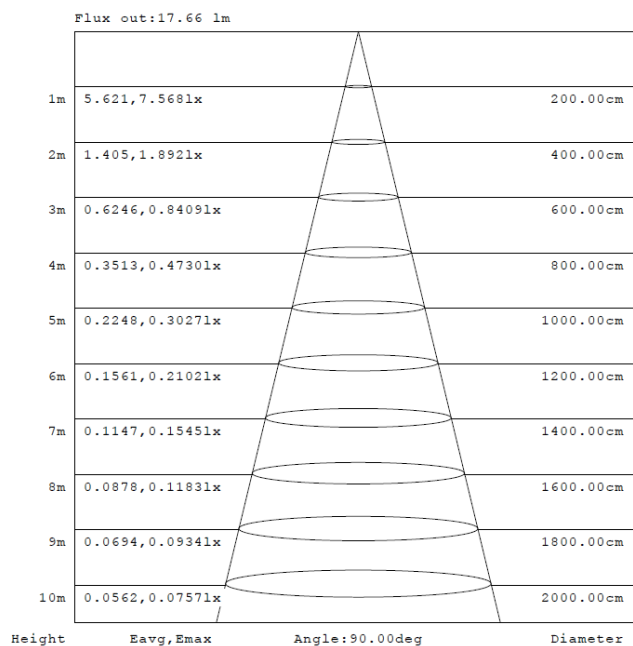
301.5

Illumination Plots

Model No.: SLTB66927XXXALB

Mount Height: 2.5 m

Illuminance - Cone of Light



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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TEST REPORT

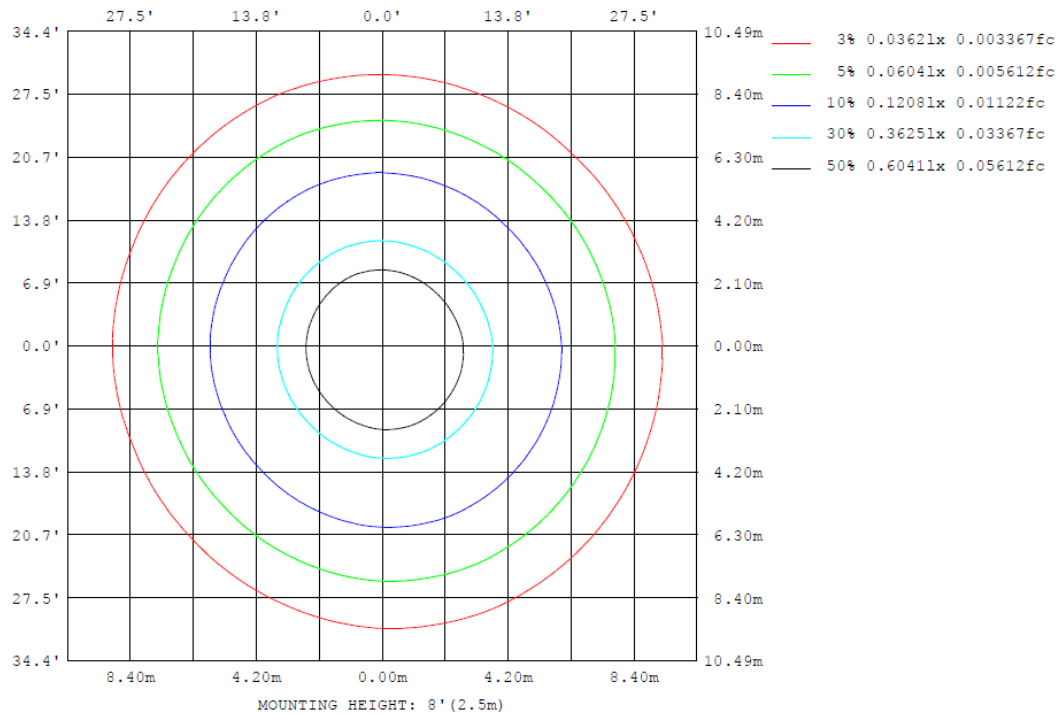
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTB66927XXXALB

Model No.: SLTB66927XXXALB

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTB66927XXXALB

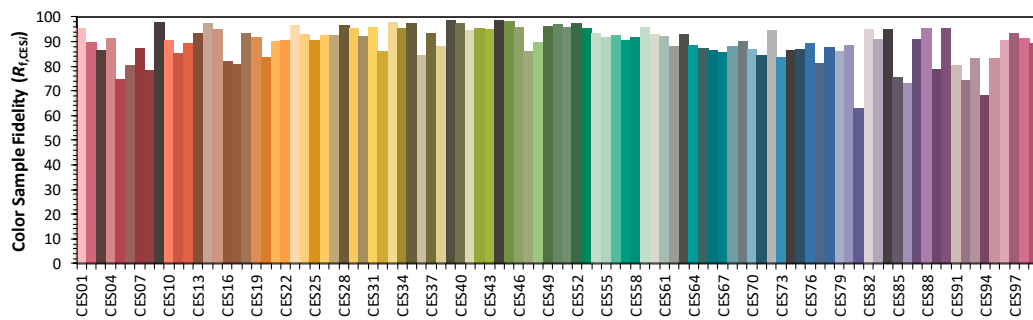
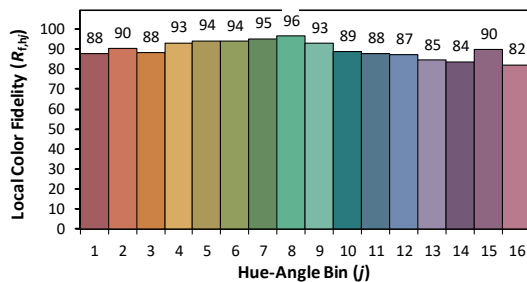
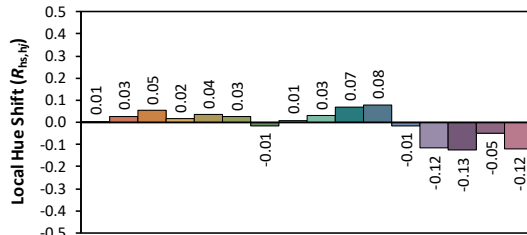
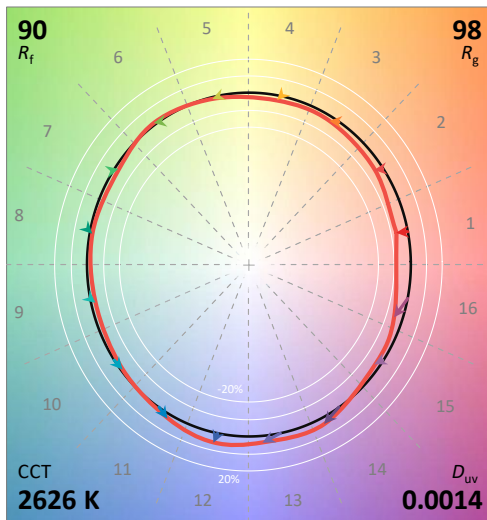
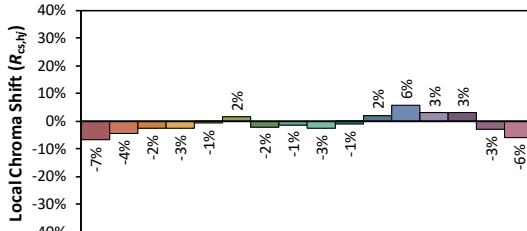
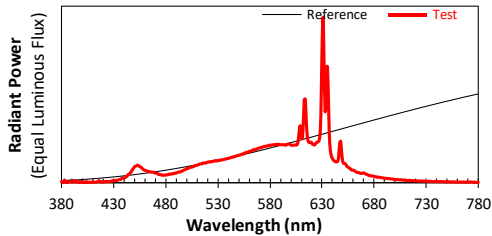
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/7/23

Model: SLTB66927XXXALB



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

x 0.4686
 y 0.4162
 u' 0.2656
 v' 0.5308

CIE 13.3-1995
(CRI)
 R_a 91
 R_g 50

Colors are for visual orientation purposes only. Created with the ANSI/IES TM-30-18 Calculator Version 2.00.

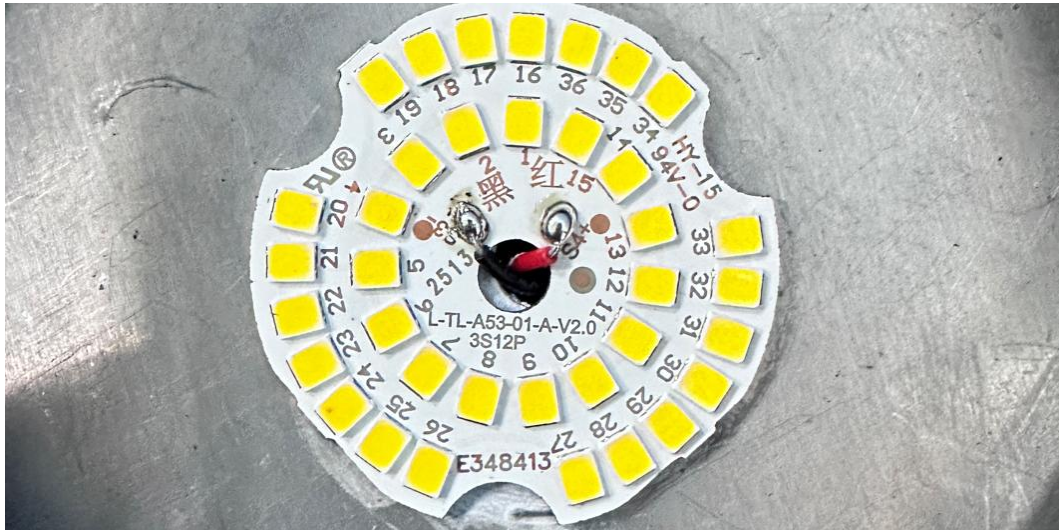
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLTB66927XXXALB

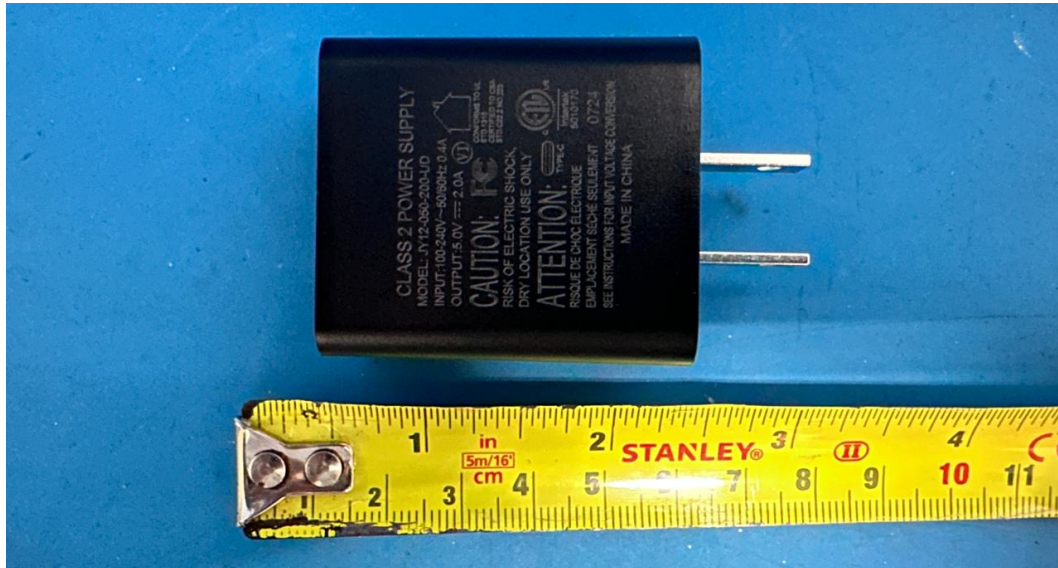


View of LED

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TEST REPORT

PRODUCT PICTURE (not to scale)



View of LED driver JY12-050-200-UD

In Charge Of Tests:

Done Ye

Done Ye
Engineer

Report Reviewed By

Shelley Ying

Shelley Ying
Reviewer

Attachment: None

***** End of Report *****