

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

250623168GZU-027

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None

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Report format for LM-79_G

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Report No.: 250623168GZU-027

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLTB66727XXXALB

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

RENDERED TO

Visual Comfort & Co.

Contact Name: Javan Rivero

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Phone No.: 847-410-4552

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 SLTB66727XXXALB. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S250623168-030.

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: 24 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:	SLTB66727XXXALB
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLTB66727XXXALB

Criteria	Result
Total Lumen Output	86.5 lm
Total Power	7.6 W
Luminaire Efficacy	11.4 lm/W
S/MH(C0/180)	2.62
S/MH(C90/270)	2.35
Correlated Color Temperature (CCT)	2445 K
Color Rendering Index (CRI)	90
R9	47
Chromaticity Coordinate (x)	0.4848
Chromaticity Coordinate (y)	0.4188
Chromaticity Coordinate (u')	0.2749
Chromaticity Coordinate (v')	0.5342

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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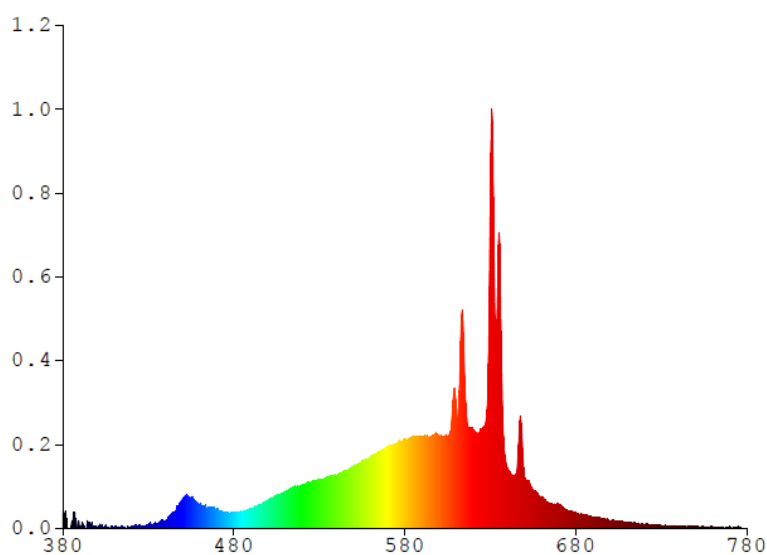
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLTB66727XXXALB

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.0647	480	0.0504	580	0.2764	680	0.0485	780	0.0000
385	0.0146	485	0.0504	585	0.2824	685	0.0413		
390	0.0078	490	0.0616	590	0.2853	690	0.0339		
395	0.0000	495	0.0721	595	0.2828	695	0.0290		
400	0.0016	500	0.0880	600	0.2842	700	0.0237		
405	0.0094	505	0.1004	605	0.2850	705	0.0220		
410	0.0000	510	0.1137	610	0.3786	710	0.0175		
415	0.0000	515	0.1273	615	0.4679	715	0.0151		
420	0.0044	520	0.1344	620	0.3069	720	0.0107		
425	0.0096	525	0.1432	625	0.3091	725	0.0116		
430	0.0077	530	0.1510	630	1.0113	730	0.0086		
435	0.0155	535	0.1585	635	0.9115	735	0.0062		
440	0.0218	540	0.1649	640	0.1869	740	0.0060		
445	0.0490	545	0.1789	645	0.1682	745	0.0043		
450	0.0915	550	0.1907	650	0.1644	750	0.0054		
455	0.0964	555	0.2085	655	0.1189	755	0.0028		
460	0.0716	560	0.2204	660	0.0984	760	0.0021		
465	0.0637	565	0.2381	665	0.0770	765	0.0037		
470	0.0567	570	0.2533	670	0.0751	770	0.0045		
475	0.0492	575	0.2625	675	0.0527	775	0.0051		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTB66727XXXALB

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

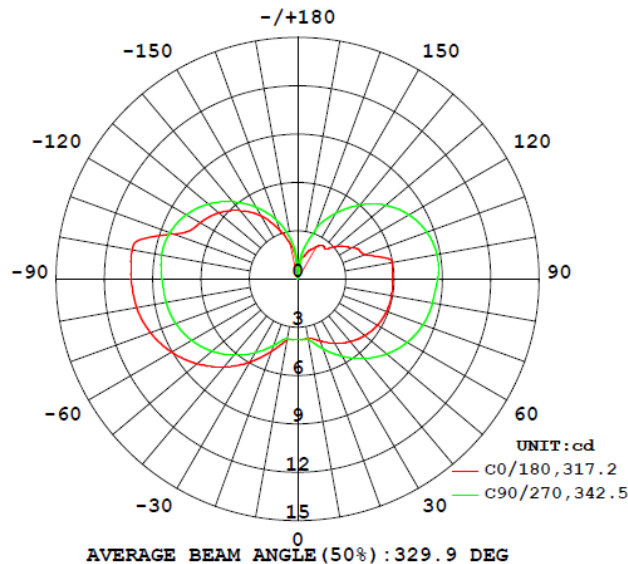
Photometric Measurements at 25°C – Distribution Method

Intertek Sample No.	Base Orientation	Correlated Color Temperature (K)	CRI	R9	CIE 31'	CIE 31'	CIE 76'	CIE 76'
					Chromaticit	Chromaticit	Chromaticit	Chromaticit
					y	y	y	y
					Coordinate	Coordinate	Coordinate	Coordinate
					(x)	(y)	(u')	(v')
SLTB66727XXXALB								
S2506231 68-030	base-up	2445	90	47	0.4848	0.4188	0.2749	0.5342

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 Efficacy
						Flux (Lumens)	(Lumens Per Watt)
SLTB66727XXXALB							
S2506231 68-030	base-up	120.2	126.6	7.6	0.499	86.5	11.4

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTB66727XXXALB

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	3.79	3.79	3.79	3.79	3.79
5	3.78	3.76	3.76	3.76	3.76
10	3.74	3.76	3.77	3.76	3.81
15	3.86	3.93	3.98	4.04	4.17
20	4.10	4.17	4.26	4.41	4.61
25	4.35	4.40	4.55	4.80	5.08
30	4.61	4.63	4.84	5.19	5.55
35	4.85	4.86	5.11	5.57	6.01
40	5.07	5.06	5.36	5.92	6.44
45	5.28	5.25	5.59	6.24	6.86
50	5.46	5.41	5.79	6.53	7.23
55	5.61	5.54	5.97	6.78	7.57
60	5.73	5.64	6.10	7.00	7.86
65	5.82	5.71	6.21	7.17	8.10
70	5.89	5.75	6.28	7.30	8.29
75	5.92	5.75	6.31	7.38	8.43
80	5.92	5.73	6.31	7.42	8.51
85	5.88	5.70	6.30	7.45	8.58
90	5.87	5.76	6.37	7.54	8.69
95	5.92	5.83	6.44	7.62	8.78
100	5.95	5.85	6.46	7.63	8.79
105	5.36	5.81	6.41	7.56	8.71
110	4.46	5.72	6.31	7.43	8.55
115	4.24	5.58	6.14	7.23	8.31
120	3.92	5.39	5.92	6.96	7.99
125	3.57	5.15	5.65	6.63	7.61
130	3.18	4.85	5.33	6.24	7.15
135	2.66	4.38	4.96	5.75	6.62
140	2.58	3.90	4.56	5.21	6.02
145	2.57	3.35	4.13	4.66	5.38
150	2.33	2.81	3.63	4.09	4.74
155	2.06	2.33	3.06	3.51	4.08
160	1.78	1.93	2.46	2.90	3.29
165	1.47	1.60	1.88	2.18	2.41
170	1.28	1.24	1.33	1.54	1.74
175	0.89	0.39	0.39	0.56	0.66
180	0.01	0.22	0.47	0.45	0.51

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTB66727XXXALB

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLTB66727XXXALB		
0-30	3.8	4.4
0-40	7.4	8.6
0-60	19.0	22.0
0-90	44.1	51.0
60-90	25.1	29.0
0-180	86.5	100.0

Beam Angle

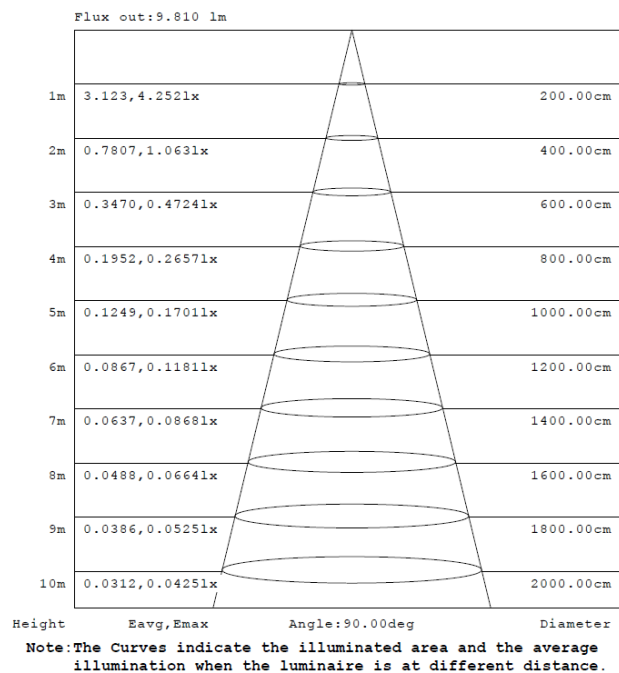
Total Beam Angle(°)
329.9

Illumination Plots

Model No.: SLTB66727XXXALB

Mount Height: 2.5 m

Illuminance - Cone of Light



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TEST REPORT

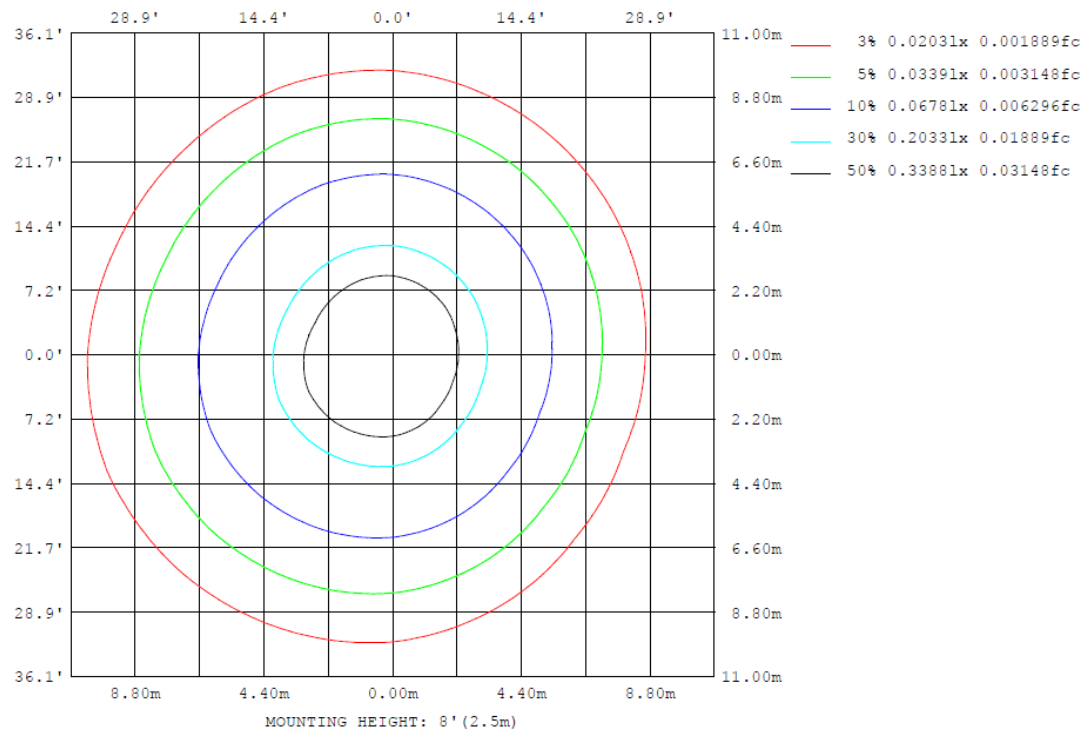
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTB66727XXXALB

Model No.: SLTB66727XXXALB

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTB66727XXXALB

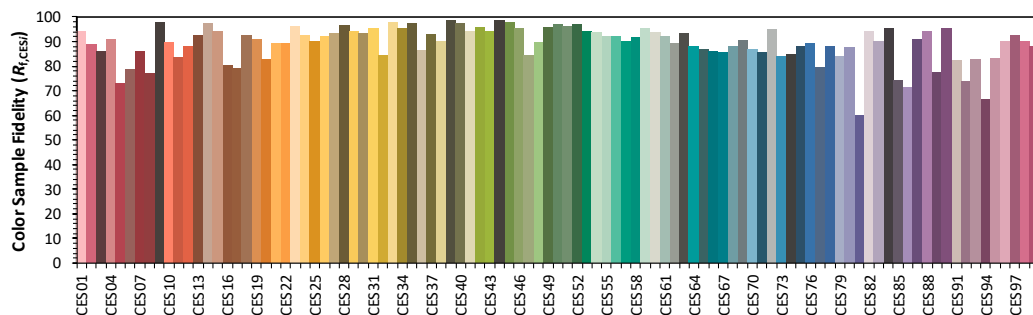
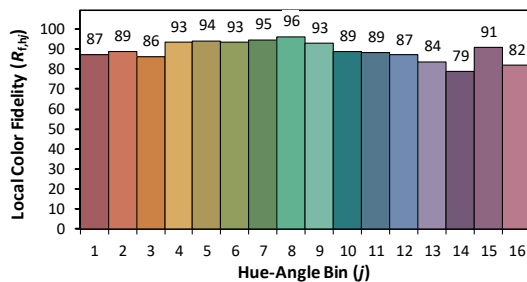
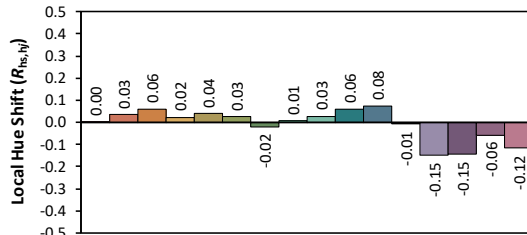
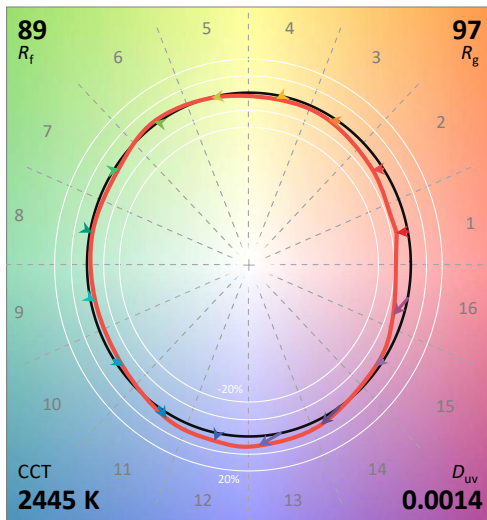
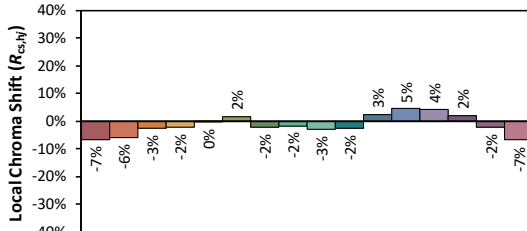
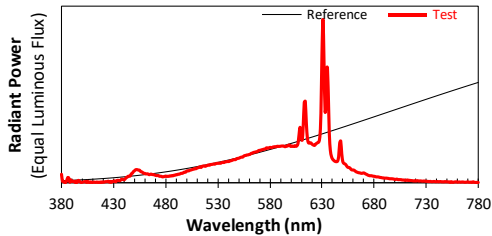
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/7/24

Model: SLTB66727XXXALB



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

x 0.4848
 y 0.4188
 u' 0.2749
 v' 0.5342

CIE 13.3-1995
(CRI)
 R_a 90
 R_g 47

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 SLTB66727XXXALB

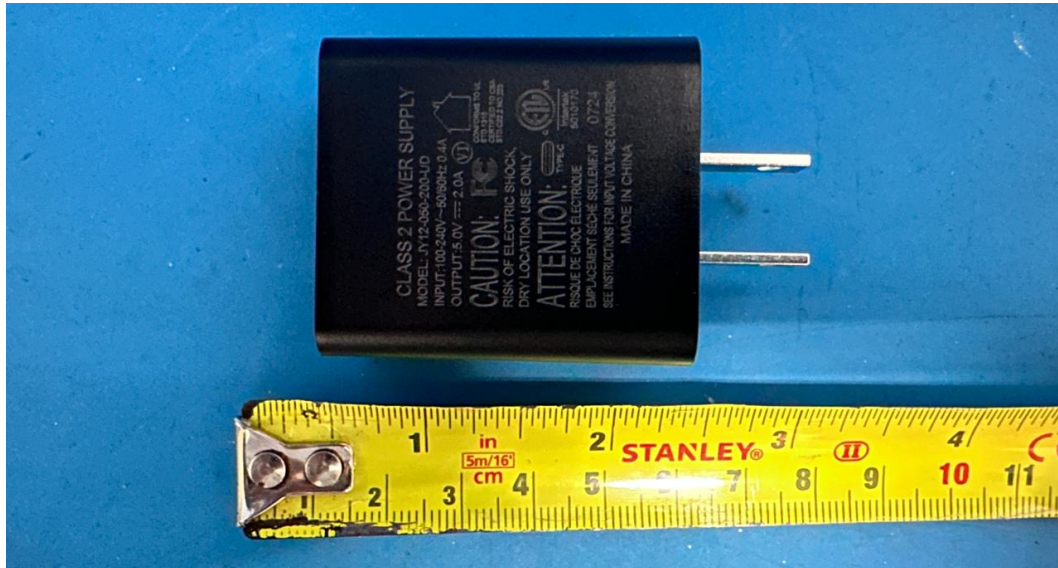


View of LED

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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 *****