

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251027069GZU-001

ISSUE DATE

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REVISION DATE

None

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DOCUMENT CONTROL NUMBER

Report format for LM-79_G

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Report No.: 251027069GZU-001

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLTS67827XX

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

RENDERED TO

Visual Comfort & Co.

Contact Name: Javan Rivero

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<u>TEST:</u>	Electrical and Photometric as required to the IES LM-79 test standard.
<u>AUTHORIZATION:</u>	The testing performed was authorized by signed quote number: QGZ251023107.
<u>STANDARDS USED:</u>	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
<u>DESCRIPTION OF SAMPLE:</u>	The client submitted one sample of model SLTS67827XX. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251027069-001.
<u>MANUFACTURER /FACTORY & ADDRESS:</u>	Guangzhou Xiongyi Precision Metalworking Co., Ltd Hantang Industrial Zone, Langbian Village, Shiji Town, Panyu District, Guangzhou City, Guangdong Province, China 511450
<u>DATES OF TESTS:</u>	10 November 2025
<u>ISSUED BY:</u>	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
<u>TEST LOCATION:</u>	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:	SLTS67827XX
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLTS67827XX

Criteria	Result
Total Lumen Output	613.8 lm
Total Power	5.8 W
Luminaire Efficacy	106.1 lm/W
S/MH(C0/180)	0.53
S/MH(C90/270)	1.70
Correlated Color Temperature (CCT)	2737 K
Color Rendering Index (CRI)	93
R9	72
Chromaticity Coordinate (x)	0.4552
Chromaticity Coordinate (y)	0.4070
Chromaticity Coordinate (u')	0.2611
Chromaticity Coordinate (v')	0.5253

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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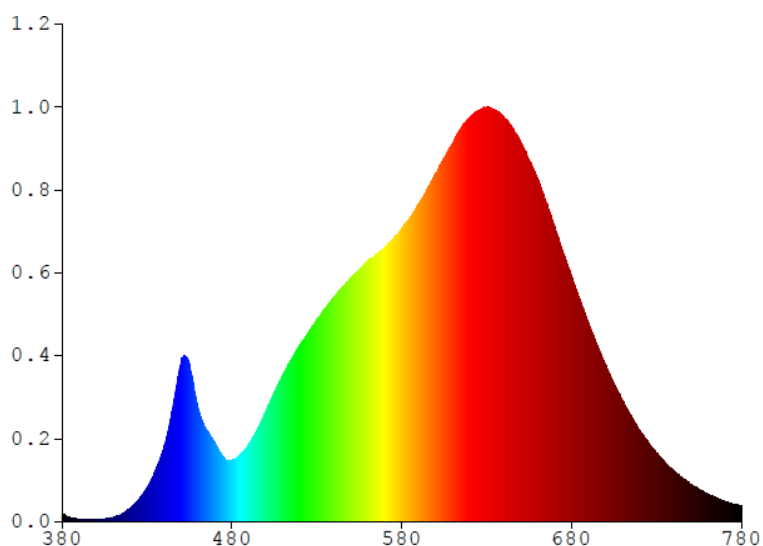
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLTS67827XX

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	5.2904	480	37.4690	580	180.530	680	151.4300	780	10.1570
385	1.8879	485	41.3900	585	187.510	685	136.4600		
390	1.6226	490	47.4980	590	195.740	690	122.6200		
395	1.4746	495	56.8430	595	205.160	695	109.0400		
400	1.3003	500	67.9670	600	214.560	700	96.9380		
405	1.6287	505	79.3870	605	224.020	705	85.1720		
410	2.5824	510	90.5250	610	232.880	710	74.4350		
415	4.7462	515	99.4960	615	242.530	715	65.2900		
420	8.0876	520	108.8700	620	249.090	720	56.6650		
425	13.3990	525	115.8700	625	253.550	725	49.0500		
430	20.8130	530	124.4800	630	255.430	730	42.2850		
435	31.5930	535	131.2600	635	253.610	735	36.5370		
440	45.8720	540	138.1300	640	249.740	740	31.4210		
445	68.8640	545	144.5500	645	242.930	745	27.0420		
450	97.3560	550	149.9200	650	234.350	750	23.2980		
455	96.7000	555	155.1300	655	222.960	755	19.9710		
460	70.2670	560	160.5700	660	211.160	760	17.2130		
465	56.6490	565	164.3300	665	196.850	765	14.8350		
470	48.3610	570	168.8000	670	182.290	770	12.6400		
475	39.6360	575	174.3700	675	163.370	775	10.9550		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTS67827XX

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

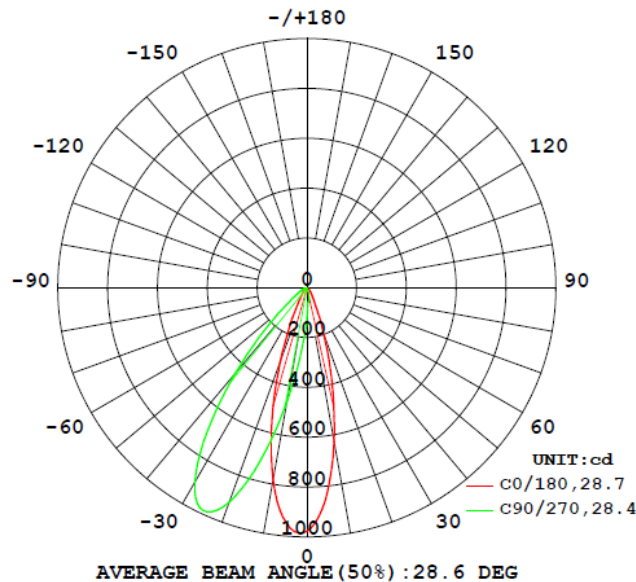
Photometric Measurements at 25°C – Distribution Method

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')
SLTS67827XX								
S2510270 69-001	base-up	2737	93	72	0.4552	0.4070	0.2611	0.5253

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 Flux (Lumens)	Lumen Efficacy (Lumens Per Watt)
SLTS67827XX							
S2510270 69-001	base-up	120.2	117.2	5.8	0.411	613.8	106.1

Intensity (Candlepower) Summary at 25°C - Candelas



***** End of Page *****

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTS67827XX

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	976.3	404.4	305.0	148.1	118.2
5	853.8	210.0	148.6	74.1	62.2
10	627.3	101.6	74.2	44.0	38.5
15	386.6	56.7	44.1	28.3	25.4
20	199.2	36.4	28.9	19.9	17.6
25	96.4	25.6	20.7	14.6	12.2
30	54.9	19.1	16.0	9.4	7.7
35	34.6	14.1	10.2	5.9	5.0
40	24.1	8.5	6.2	3.7	3.2
45	18.4	5.2	3.8	2.2	2.0
50	13.8	3.1	2.3	1.4	1.3
55	8.4	1.9	1.5	0.6	0.2
60	5.1	1.3	0.8	0.1	0.1
65	3.1	0.1	0.1	0.0	0.0
70	1.8	0.0	0.1	0.0	0.0
75	1.2	0.0	0.0	0.0	0.0
80	0.1	0.0	0.0	0.0	0.0
85	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0
95	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.0	0.0	0.0
135	0.0	0.0	0.0	0.0	0.0
140	0.0	0.0	0.0	0.0	0.0
145	0.0	0.0	0.0	0.0	0.0
150	0.0	0.0	0.0	0.0	0.0
155	0.0	0.0	0.0	0.0	0.0
160	0.0	0.0	0.0	0.0	0.0
165	0.0	0.0	0.0	0.0	0.0
170	0.0	0.0	0.0	0.0	0.0
175	0.0	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 SLTS67827XX

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLTS67827XX		
0-30	346.8	56.5
0-40	505.7	82.4
0-60	595.2	97.0
0-90	612.8	99.9
60-90	17.6	2.9
0-180	613.8	100.0

Beam Angle

Total Beam Angle(°)

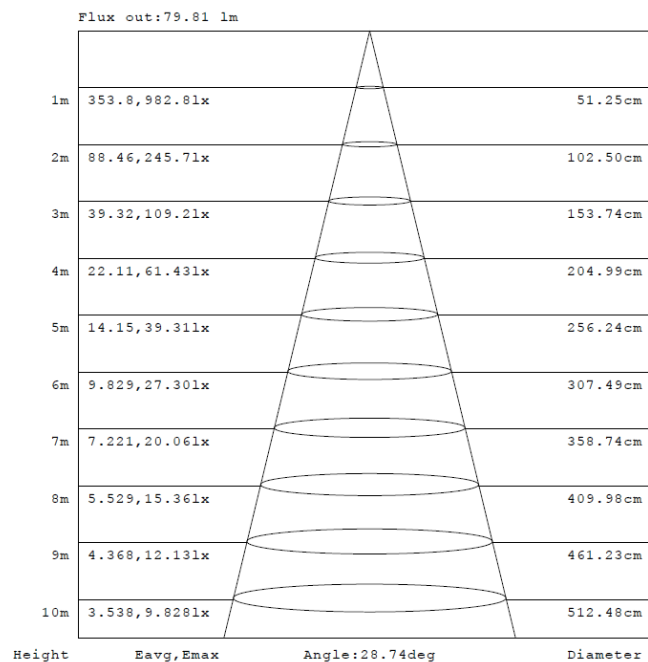
28.6

Illumination Plots

Model No.: SLTS67827XX

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.

***** End of Page *****

TEST REPORT

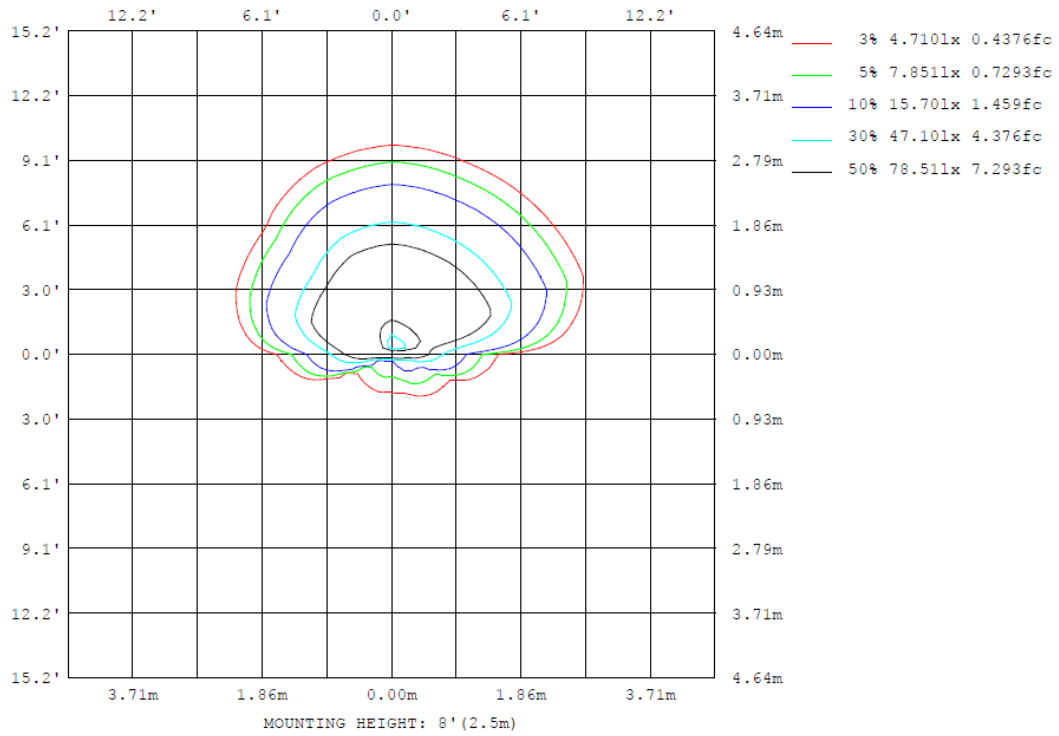
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTS67827XX

Model No.: SLTS67827XX

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLTS67827XX

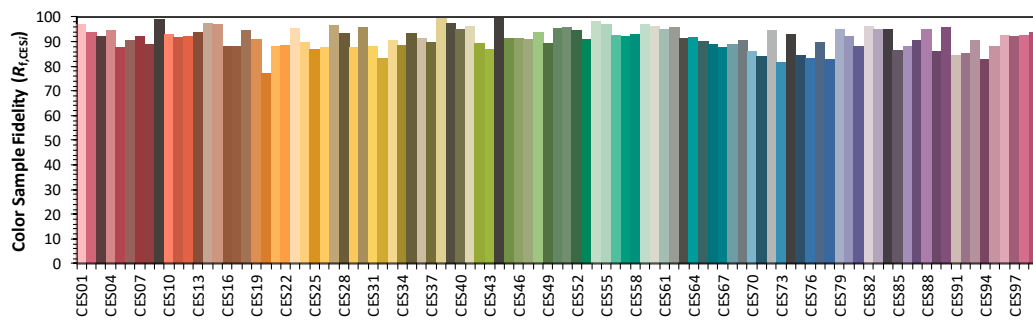
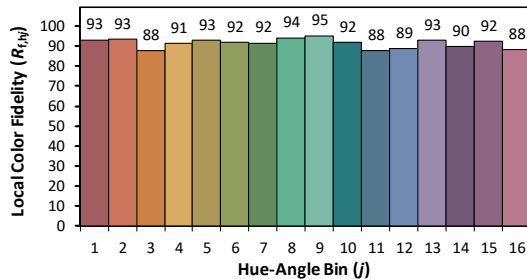
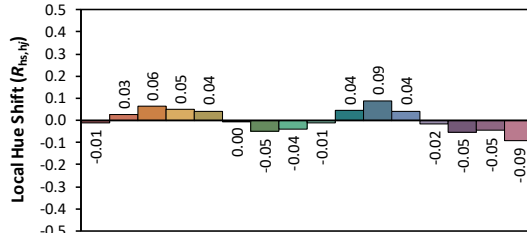
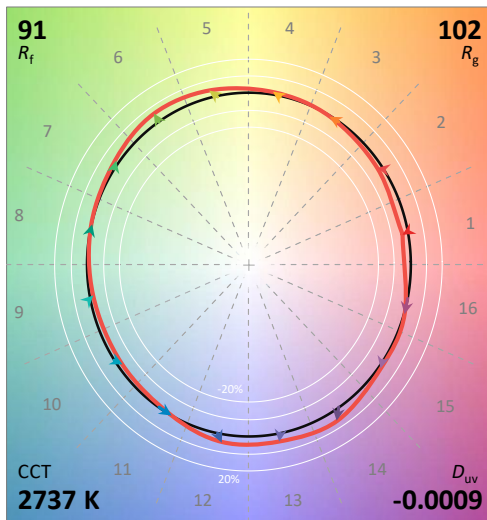
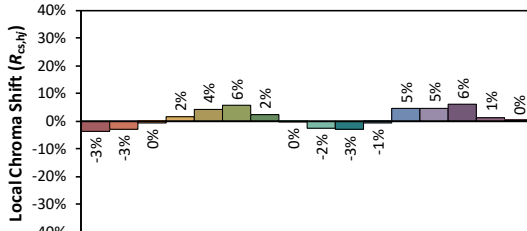
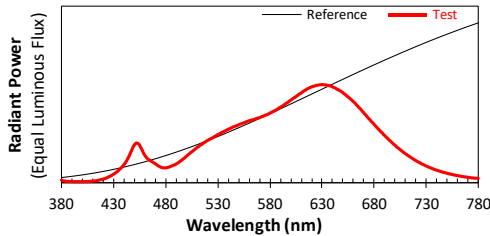
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/11/10

Model: SLTS67827XX



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

x 0.4552
 y 0.4070
 u' 0.2611
 v' 0.5253

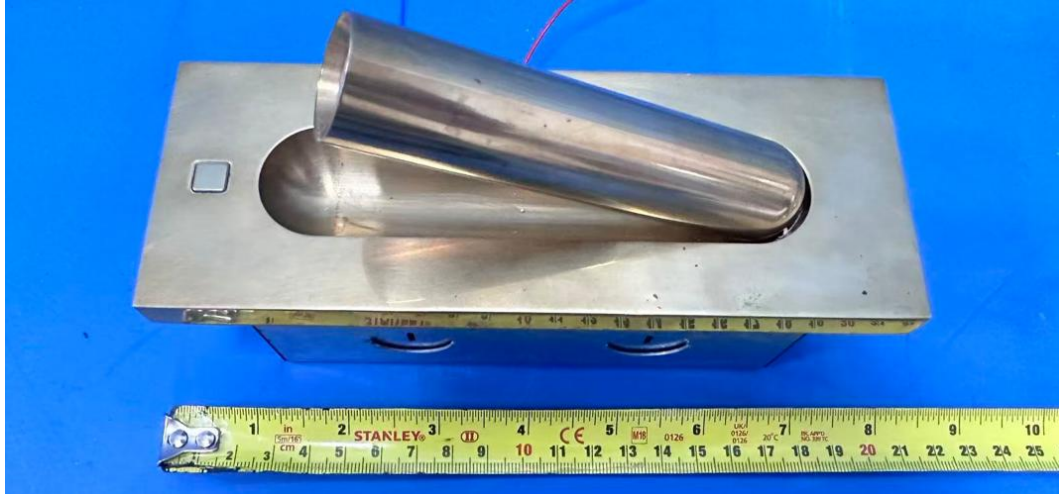
CIE 13.3-1995
(CRI)
 R_a 93
 R_g 72

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

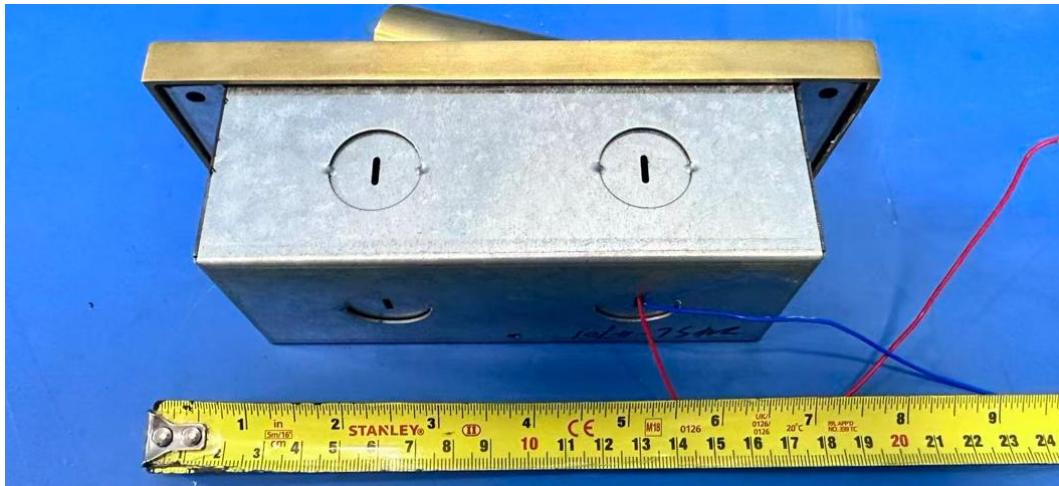
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLTS67827XX

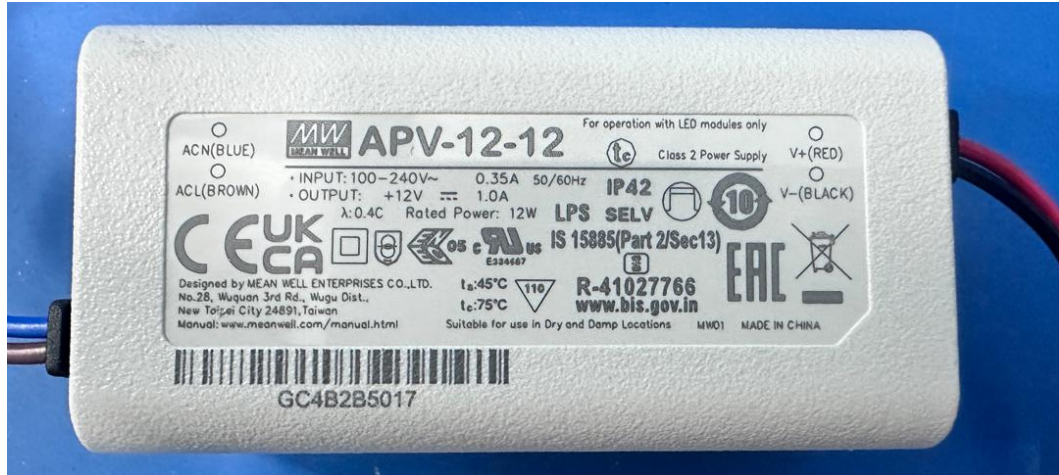


External view of SLTS67827XX

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TEST REPORT

PRODUCT PICTURE (not to scale)



View of LED driver APV-12-12



View of LED

In Charge Of Tests:

Done Ye

Done Ye
Engineer

Report Reviewed By

Shelley Ying

Shelley Ying
Reviewer

Attachment: None

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