

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-065

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REVISION DATE

None

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Report format for LM-79_G

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Report No.: 251110010GZU-065

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLPC82127XXX

Remark: "XXX" 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: QGZ251106008.
<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 SLPC82127XXX. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-045.
<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>	19 January 2026
<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:	SLPC82127XXX
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLPC82127XXX

Criteria	Result
Total Lumen Output	880.7 lm
Total Power	12.0 W
Luminaire Efficacy	73.2 lm/W
S/MH(C0/180)	1.22
S/MH(C90/270)	1.38
Correlated Color Temperature (CCT)	2600 K
Color Rendering Index (CRI)	93
R9	64
Chromaticity Coordinate (x)	0.4679
Chromaticity Coordinate (y)	0.4116
Chromaticity Coordinate (u')	0.2672
Chromaticity Coordinate (v')	0.5289

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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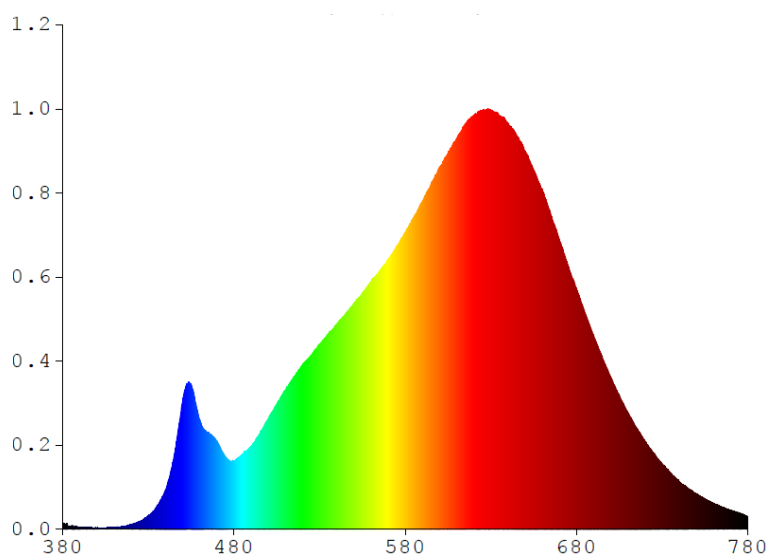
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLPC82127XXX

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	1.4502	480	14.1510	580	61.3650	680	49.7050	780	2.5673
385	0.6099	485	15.5000	585	64.4480	685	44.6430		
390	0.3145	490	17.1450	590	67.7320	690	40.1510		
395	0.3282	495	19.6820	595	71.2070	695	35.6090		
400	0.2915	500	22.7180	600	74.8060	700	31.4590		
405	0.3176	505	25.8300	605	77.6650	705	27.7010		
410	0.4066	510	28.7100	610	80.7420	710	24.1050		
415	0.6245	515	31.4680	615	83.7740	715	20.9590		
420	0.9687	520	33.9280	620	85.5500	720	18.1970		
425	1.5443	525	35.9330	625	86.4940	725	15.6710		
430	2.7774	530	38.2300	630	86.4940	730	13.5160		
435	4.6809	535	40.3150	635	85.5350	735	11.6430		
440	8.0057	540	42.2900	640	83.9750	740	9.8694		
445	14.8700	545	44.3960	645	81.4570	745	8.5009		
450	26.1760	550	46.6480	650	78.1290	750	7.3288		
455	29.8320	555	48.8090	655	74.3200	755	6.2954		
460	22.6090	560	51.0510	660	70.1780	760	5.3149		
465	19.9330	565	53.3600	665	65.0680	765	4.6158		
470	18.3190	570	55.6560	670	59.8660	770	3.9471		
475	15.0040	575	58.5410	675	53.4450	775	3.3835		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC82127XXX

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

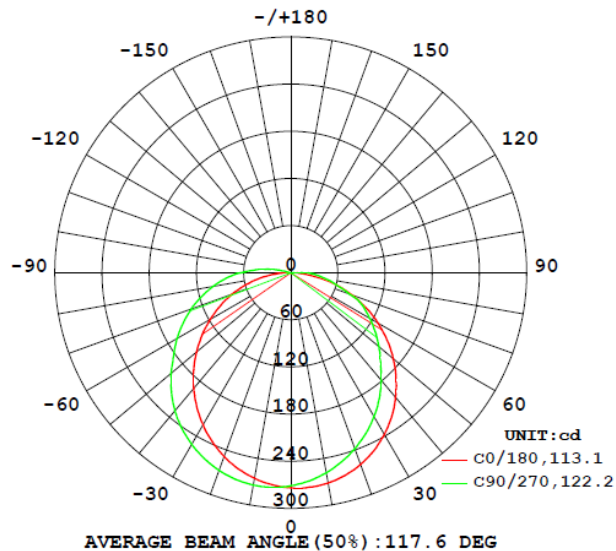
Photometric Measurements at 25°C – Distribution Method

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')
SLPC82127XXX								
S2511100 10-045	base-up	2600	93	64	0.4679	0.4116	0.2672	0.5289

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)
SLPC82127XXX							
S2511100 10-045	base-up	120.1	101.2	12.0	0.99	880.7	73.2

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC82127XXX

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	273.8	273.7	273.6	272.3	271.1
5	274.0	273.0	271.4	268.3	265.9
10	271.7	269.8	266.8	262.0	258.6
15	266.9	264.1	259.9	253.5	249.2
20	259.5	256.0	250.7	243.2	238.2
25	249.7	245.5	239.4	231.3	225.7
30	237.7	232.9	226.4	217.7	211.6
35	223.5	218.3	211.8	202.4	195.9
40	207.3	202.0	195.5	185.5	178.9
45	189.4	184.3	177.8	167.5	161.3
50	170.0	165.3	158.7	151.4	146.3
55	149.5	145.1	139.7	135.9	131.1
60	128.0	123.9	123.4	120.5	116.1
65	105.8	102.3	107.2	105.3	101.4
70	82.8	83.9	91.7	89.0	79.0
75	59.4	67.1	76.5	70.4	59.9
80	35.0	52.1	61.0	54.6	45.4
85	15.7	35.8	42.4	36.7	31.9
90	2.9	15.2	21.9	18.8	17.9
95	0.1	0.7	5.4	7.1	6.3
100	0.1	0.2	0.6	0.3	0.2
105	0.1	0.2	0.4	0.3	0.2
110	0.1	0.2	0.3	0.2	0.2
115	0.2	0.2	0.3	0.2	0.2
120	0.2	0.2	0.3	0.3	0.3
125	0.2	0.2	0.3	0.3	0.3
130	0.3	0.3	0.3	0.3	0.3
135	0.3	0.3	0.3	0.4	0.4
140	0.4	0.4	0.4	0.4	0.4
145	0.4	0.4	0.4	0.4	0.4
150	0.5	0.4	0.4	0.5	0.4
155	0.5	0.5	0.5	0.5	0.5
160	0.5	0.5	0.5	0.5	0.5
165	0.5	0.5	0.5	0.5	0.5
170	0.5	0.5	0.5	0.5	0.5
175	0.5	0.5	0.5	0.5	0.5
180	0.5	0.5	0.5	0.4	0.4

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC82127XXX

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLPC82127XXX		
0-30	211.4	24.0
0-40	347.2	39.4
0-60	623.0	70.7
0-90	862.0	97.9
60-90	239.0	27.2
0-180	880.7	100.0

Beam Angle

Total Beam Angle(°)

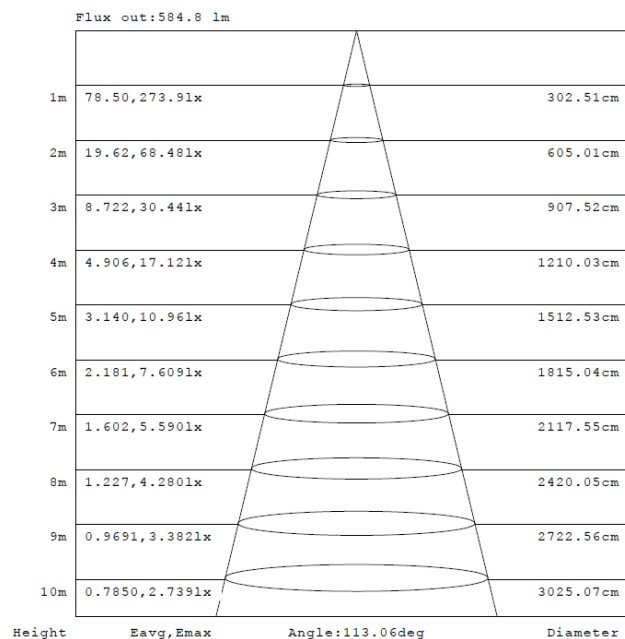
117.6

Illumination Plots

Model No.: SLPC82127XXX

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

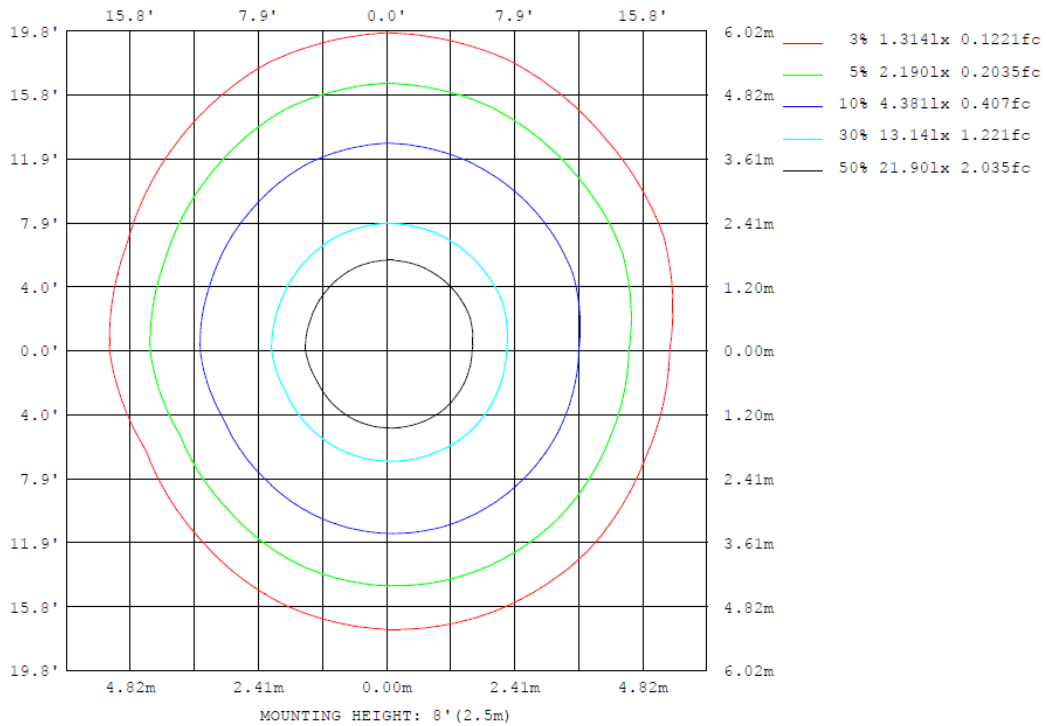
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC82127XXX

Model No.: SLPC82127XXX

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC82127XXX

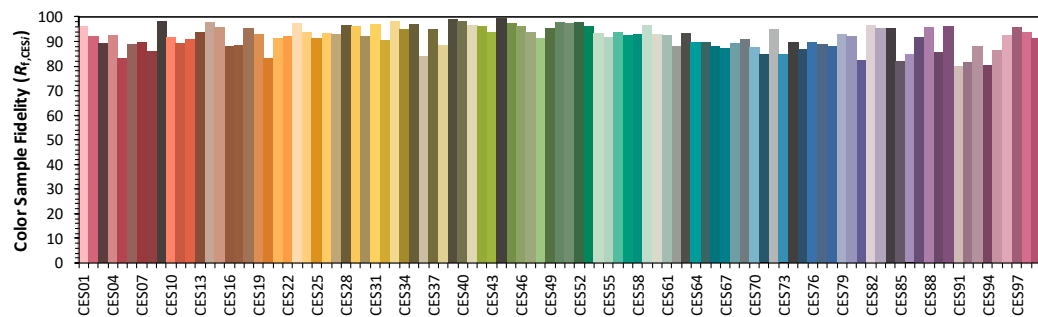
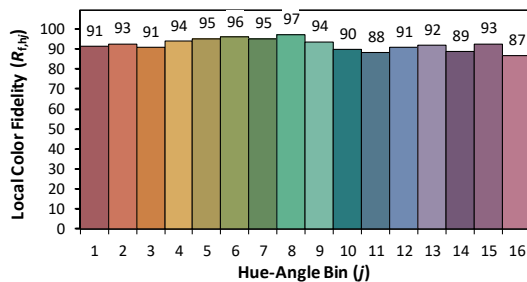
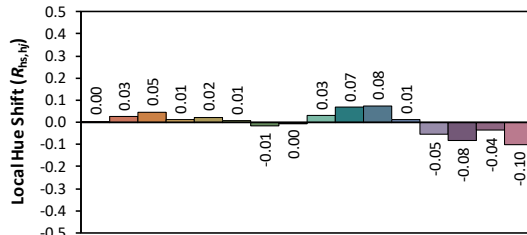
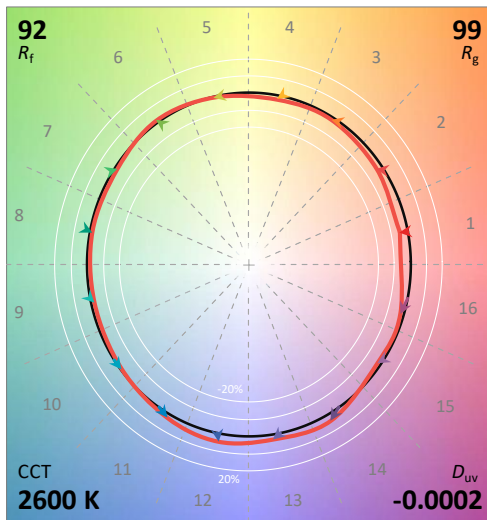
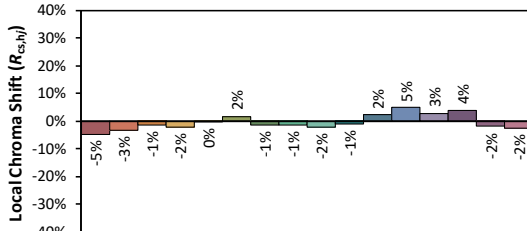
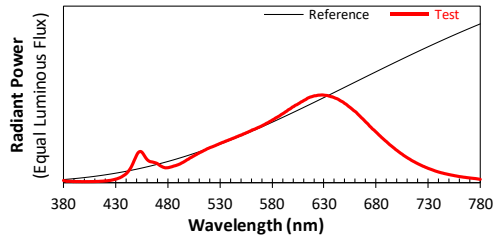
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2026/1/19

Model: SLPC82127XXX



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

x 0.4679
 y 0.4116
 u' 0.2672
 v' 0.5289

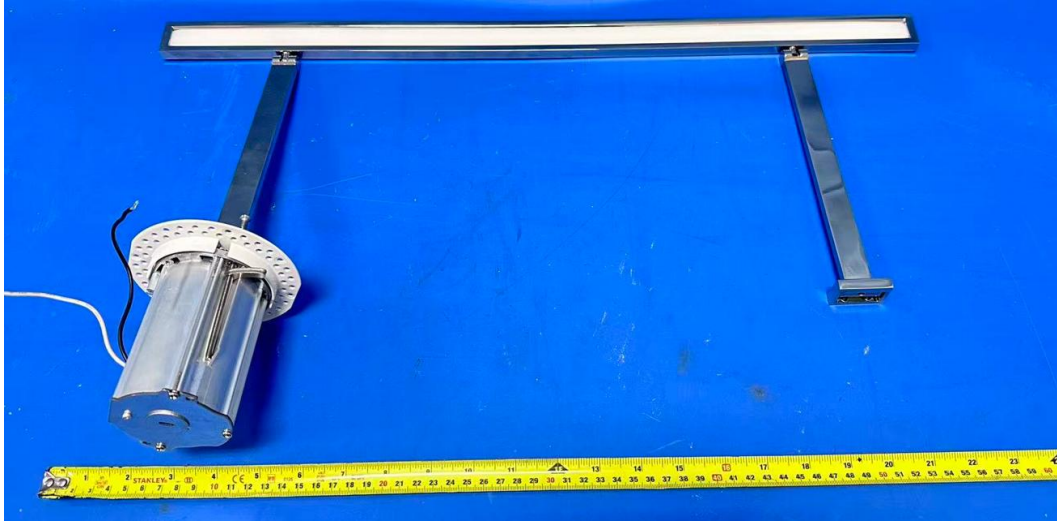
CIE 13.3-1995
(CRI)
 R_a 93
 R_g 64

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

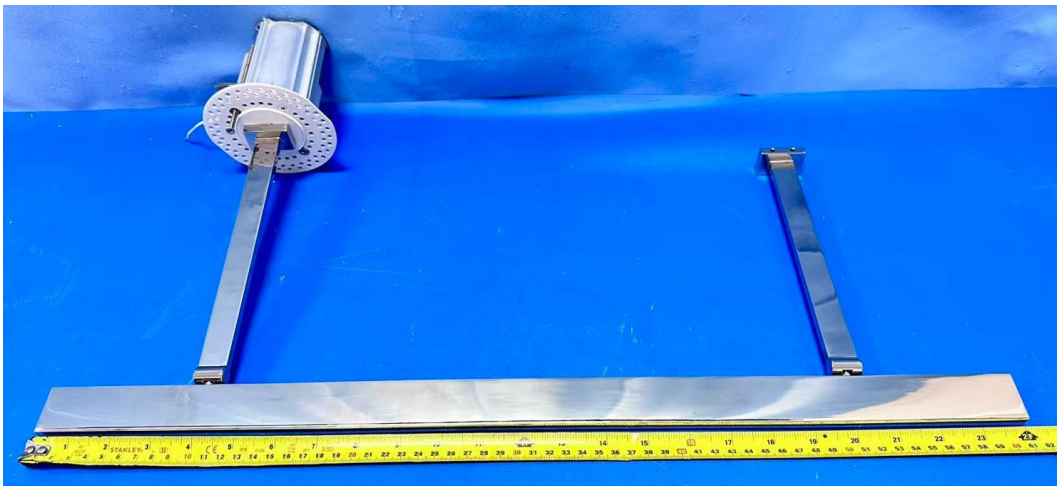
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLPC82127XXX



External view of SLPC82127XXX

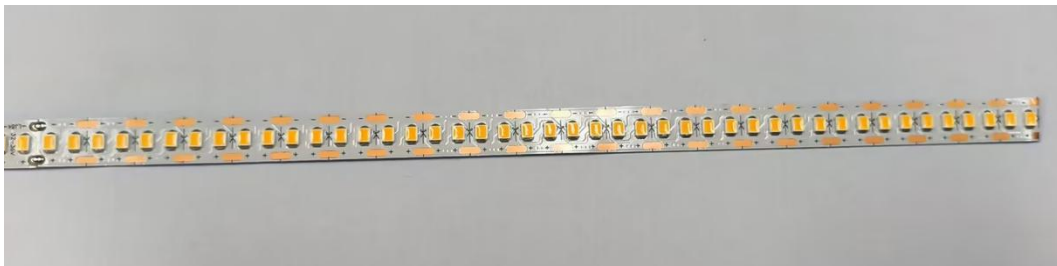
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TEST REPORT

PRODUCT PICTURE (not to scale)



View of LED driver PTB15W-0300-38-VCC1(AB0257)



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 *****