

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

250623168GZU-006

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None

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Report No.: 250623168GZU-006

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLPC76127XXX

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: QGZ250619128.
<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 SLPC76127XXX. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S250623168-005.
<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>	09 July 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:	SLPC76127XXX
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLPC76127XXX

Criteria	Result
Total Lumen Output	485.7 lm
Total Power	8.1 W
Luminaire Efficacy	59.8 lm/W
S/MH(C0/180)	1.23
S/MH(C90/270)	1.36
Correlated Color Temperature (CCT)	2615 K
Color Rendering Index (CRI)	93
R9	61
Chromaticity Coordinate (x)	0.4669
Chromaticity Coordinate (y)	0.4119
Chromaticity Coordinate (u')	0.2664
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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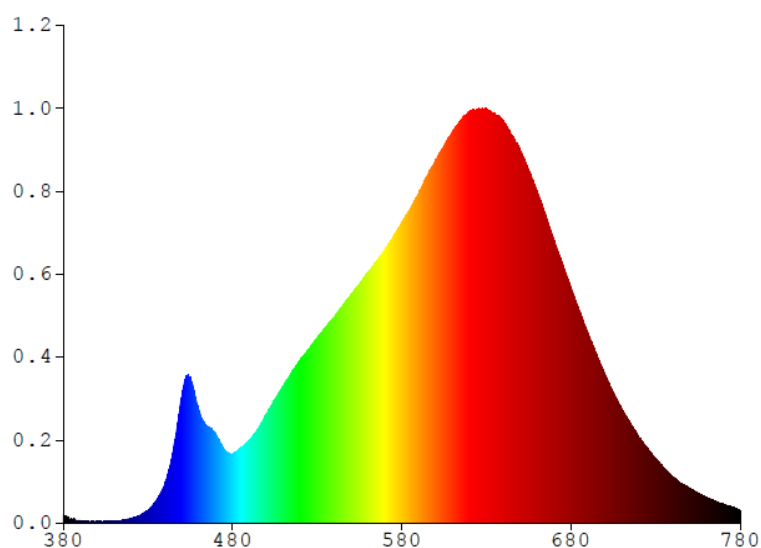
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLPC76127XXX

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.3086	480	2.3011	580	9.9891	680	7.8320	780	0.4038
385	0.1279	485	2.4976	585	10.4420	685	7.0544		
390	0.0936	490	2.7688	590	10.9480	690	6.3216		
395	0.0410	495	3.1240	595	11.5370	695	5.6322		
400	0.0555	500	3.6307	600	12.0830	700	4.9594		
405	0.0479	505	4.1123	605	12.5420	705	4.3486		
410	0.0722	510	4.5499	610	13.0140	710	3.7981		
415	0.1041	515	5.0073	615	13.4010	715	3.3266		
420	0.1511	520	5.4380	620	13.6650	720	2.8688		
425	0.2505	525	5.7881	625	13.7430	725	2.4891		
430	0.4260	530	6.1509	630	13.7700	730	2.1488		
435	0.7514	535	6.5039	635	13.6450	735	1.8278		
440	1.3107	540	6.8491	640	13.3650	740	1.5545		
445	2.4257	545	7.2257	645	12.8780	745	1.3302		
450	4.1979	550	7.5882	650	12.4250	750	1.1670		
455	4.8228	555	7.9292	655	11.7570	755	1.0022		
460	3.7651	560	8.3403	660	11.0240	760	0.8552		
465	3.2387	565	8.6781	665	10.2600	765	0.7350		
470	2.9616	570	9.0860	670	9.4039	770	0.6303		
475	2.4612	575	9.5175	675	8.4537	775	0.5372		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC76127XXX

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

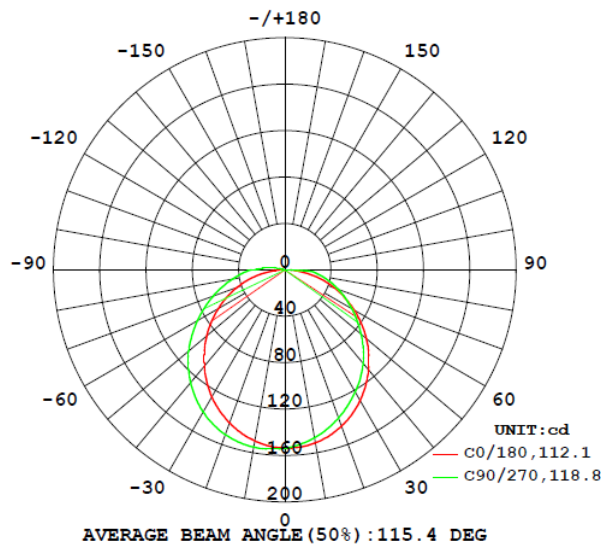
Photometric Measurements at 25°C – Distribution Method

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')
SLPC76127XXX								
S2506231 68-005	base-up	2615	93	61	0.4669	0.4119	0.2664	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	Lumen
						Flux (Lumens)	Efficacy (Lumens Per Watt)
SLPC76127XXX							
S2506231 68-005	base-up	120.0	69.1	8.1	0.979	485.7	59.8

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC76127XXX

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	153.5	153.4	153.4	153.6	153.7
5	153.2	152.2	151.3	151.0	150.9
10	151.4	149.5	147.9	147.2	147.0
15	148.0	145.4	143.2	142.2	141.9
20	143.3	140.1	137.4	136.2	135.8
25	137.3	133.6	130.6	129.3	128.9
30	130.1	126.0	123.0	122.0	121.6
35	121.8	117.5	114.7	114.3	113.9
40	112.6	108.3	106.2	105.6	105.3
45	102.6	98.5	96.9	96.1	95.8
50	92.0	88.3	86.9	86.2	86.0
55	80.8	77.9	76.4	76.3	76.3
60	69.3	67.0	65.8	66.5	66.8
65	57.5	55.9	55.9	57.4	57.8
70	45.8	44.6	46.1	48.4	49.1
75	33.8	33.8	36.9	39.8	40.8
80	21.6	23.9	28.4	31.8	32.8
85	9.9	15.3	20.6	24.2	25.4
90	1.4	7.2	4.2	0.6	0.1
95	0.1	0.7	1.5	0.4	0.1
100	0.1	0.1	0.1	0.1	0.1
105	0.1	0.1	0.1	0.1	0.1
110	0.1	0.1	0.1	0.1	0.1
115	0.1	0.1	0.1	0.1	0.1
120	0.1	0.1	0.1	0.1	0.1
125	0.1	0.1	0.1	0.1	0.2
130	0.1	0.1	0.1	0.1	0.1
135	0.2	0.2	0.2	0.2	0.2
140	0.2	0.2	0.2	0.2	0.2
145	0.2	0.2	0.2	0.2	0.2
150	0.2	0.2	0.3	0.3	0.3
155	0.3	0.3	0.3	0.3	0.3
160	0.3	0.3	0.3	0.3	0.3
165	0.3	0.3	0.3	0.3	0.3
170	0.3	0.3	0.3	0.3	0.3
175	0.3	0.3	0.2	0.2	0.2
180	0.2	0.2	0.2	0.2	0.2

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC76127XXX

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLPC76127XXX		
0-30	119.1	24.5
0-40	195.4	40.2
0-60	350.2	72.1
0-90	477.6	98.3
60-90	127.4	26.2
0-180	485.7	100.0

Beam Angle

Total Beam Angle(°)

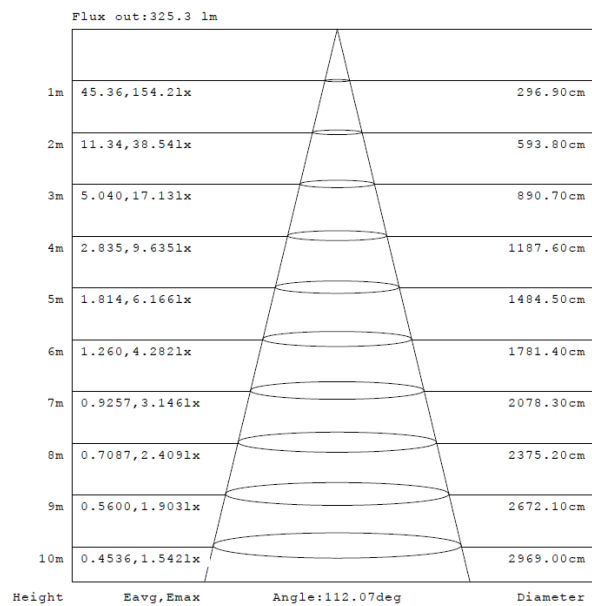
115.4

Illumination Plots

Model No.: SLPC76127XXX

Mount Height: 2.5 m

Illuminance - Cone of Light



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TEST REPORT

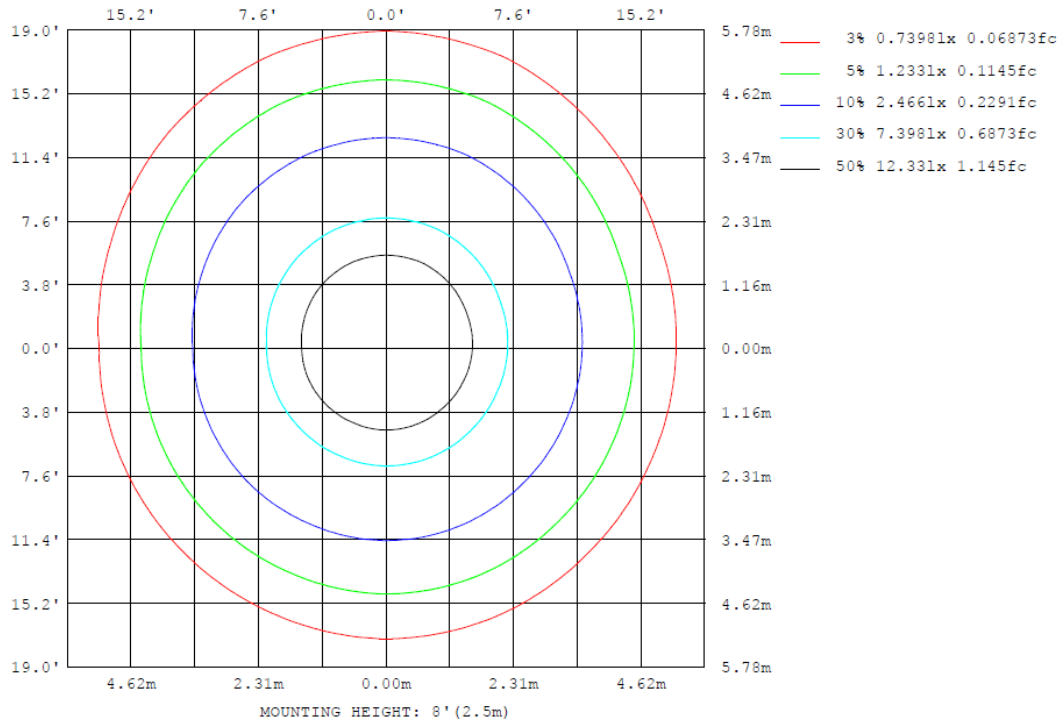
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC76127XXX

Model No.: SLPC76127XXX

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC76127XXX

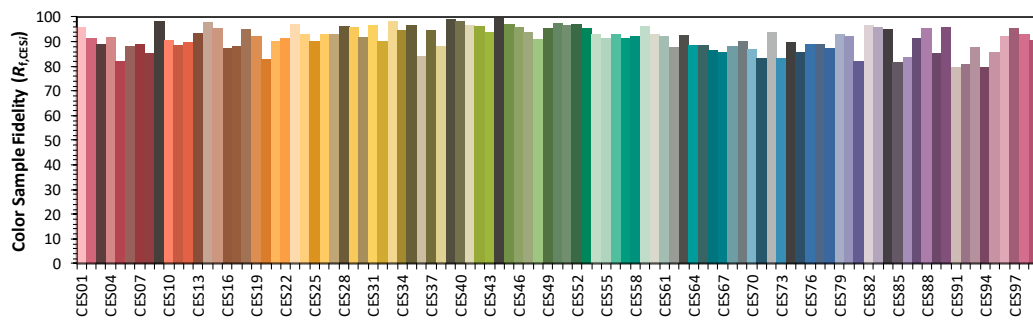
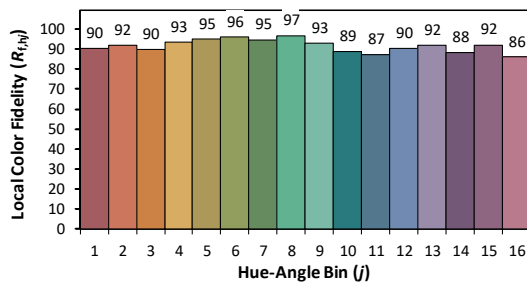
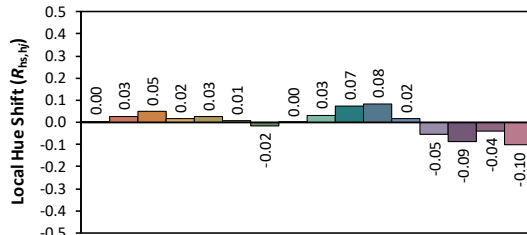
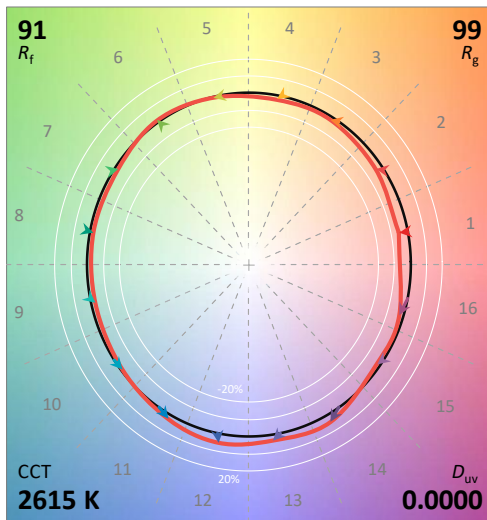
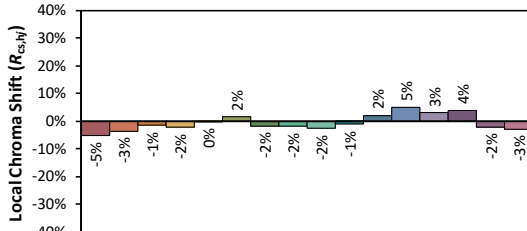
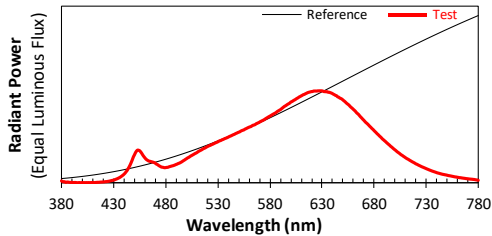
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/7/9

Model: SLPC76127XXX



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

x 0.4669
 y 0.4119
 u' 0.2664
 v' 0.5289

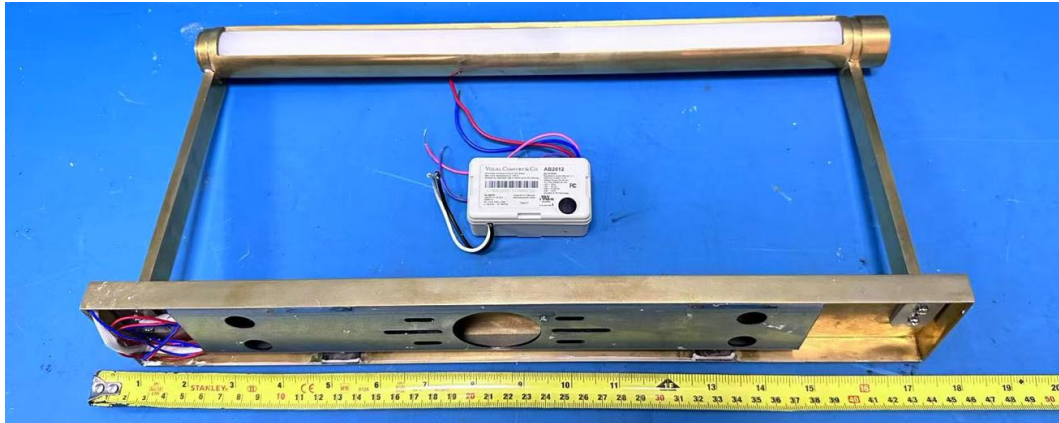
CIE 13.3-1995
(CRI)
 R_a 93
 R_g 61

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 SLPC76127XXX



View of LED driver PTB10W-0200-38-VCC1(AB2612)

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TEST REPORT

PRODUCT PICTURE (not to scale)



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 *****