

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

250623168GZU-007

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None

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Report format for LM-79_G

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Report No.: 250623168GZU-007

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLPC76327XXX

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 SLPC76327XXX. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S250623168-004.
<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:	SLPC76327XXX
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLPC76327XXX

Criteria	Result
Total Lumen Output	951.3 lm
Total Power	15.9 W
Luminaire Efficacy	59.7 lm/W
S/MH(C0/180)	1.31
S/MH(C90/270)	1.56
Correlated Color Temperature (CCT)	2623 K
Color Rendering Index (CRI)	92
R9	59
Chromaticity Coordinate (x)	0.4660
Chromaticity Coordinate (y)	0.4116
Chromaticity Coordinate (u')	0.2660
Chromaticity Coordinate (v')	0.5287

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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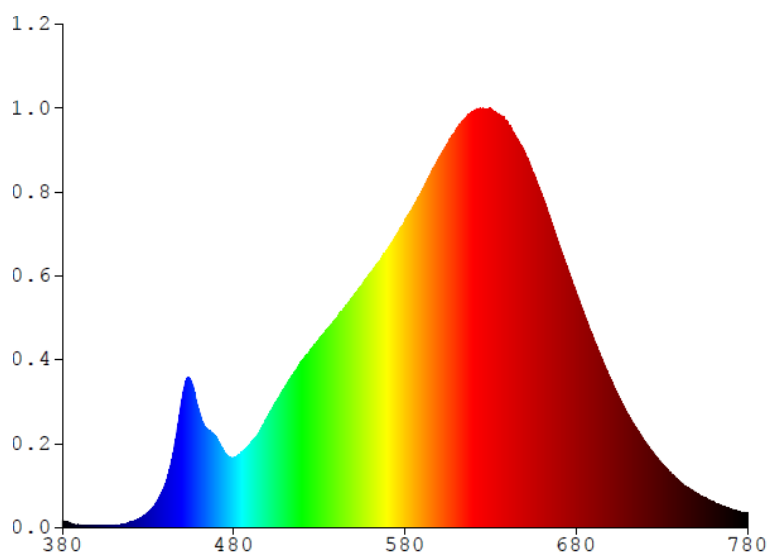
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLPC76327XXX

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.4607	480	4.2288	580	18.6980	680	14.3270	780	0.8943
385	0.2548	485	4.6217	585	19.5650	685	12.9020		
390	0.1743	490	5.1559	590	20.4780	690	11.5620		
395	0.1067	495	5.8077	595	21.5330	695	10.2920		
400	0.1141	500	6.7877	600	22.5050	700	9.0546		
405	0.1345	505	7.6935	605	23.3630	705	7.9417		
410	0.1297	510	8.5589	610	24.2340	710	6.9141		
415	0.1952	515	9.3736	615	24.9040	715	6.0749		
420	0.3338	520	10.1750	620	25.2930	720	5.2434		
425	0.5546	525	10.8490	625	25.4930	725	4.5519		
430	0.9222	530	11.4970	630	25.4590	730	3.9146		
435	1.5562	535	12.0860	635	25.2000	735	3.3401		
440	2.6354	540	12.7200	640	24.6520	740	2.8430		
445	4.6789	545	13.4010	645	23.7360	745	2.4270		
450	7.9210	550	14.0890	650	22.8290	750	2.1183		
455	8.9364	555	14.7670	655	21.6110	755	1.8313		
460	7.0354	560	15.5450	660	20.2520	760	1.5609		
465	5.9513	565	16.1940	665	18.7830	765	1.3331		
470	5.4597	570	16.9580	670	17.2050	770	1.1381		
475	4.5476	575	17.7780	675	15.4780	775	0.9694		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC76327XXX

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

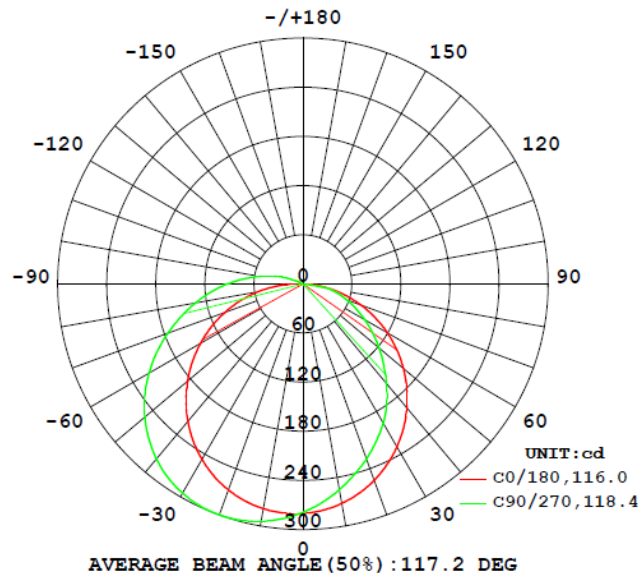
Photometric Measurements at 25°C – Distribution Method

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')
SLPC76327XXX								
S2506231 68-004	base-up	2623	92	59	0.4660	0.4116	0.2660	0.5287

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)
SLPC76327XXX							
S2506231 68-004	base-up	120.1	133.8	15.9	0.991	951.3	59.7

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC76327XXX

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	280.2	279.5	279.2	278.9	278.9
5	277.3	273.0	269.9	268.1	267.9
10	272.1	264.1	258.6	255.5	255.2
15	264.7	253.3	245.8	241.7	241.5
20	255.0	240.8	231.8	227.5	227.4
25	243.4	226.8	217.1	212.1	212.0
30	229.8	211.4	201.2	196.4	196.4
35	214.5	195.2	184.7	179.0	178.7
40	197.8	177.6	166.9	159.3	159.0
45	179.7	159.4	146.9	140.0	140.0
50	160.4	140.5	126.9	121.3	121.6
55	140.1	119.9	107.8	103.5	104.0
60	119.0	98.5	89.4	86.5	87.2
65	97.5	78.1	72.0	70.7	71.6
70	75.6	58.9	56.2	56.1	57.0
75	53.6	41.7	41.6	42.4	43.5
80	31.3	26.2	28.0	25.6	23.8
85	11.9	6.0	2.2	0.2	0.2
90	0.2	0.9	0.7	0.2	0.2
95	0.1	0.1	0.2	0.2	0.2
100	0.1	0.1	0.2	0.2	0.2
105	0.1	0.1	0.2	0.2	0.2
110	0.1	0.1	0.2	0.2	0.2
115	0.1	0.2	0.2	0.2	0.2
120	0.2	0.2	0.2	0.2	0.2
125	0.2	0.2	0.2	0.3	0.3
130	0.3	0.3	0.3	0.3	0.3
135	0.3	0.3	0.3	0.3	0.3
140	0.4	0.4	0.4	0.4	0.4
145	0.4	0.4	0.4	0.4	0.4
150	0.4	0.4	0.5	0.5	0.5
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	0.4
170	0.5	0.4	0.4	0.4	0.4
175	0.4	0.4	0.4	0.4	0.4
180	0.4	0.4	0.4	0.4	0.4

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC76327XXX

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLPC76327XXX		
0-30	219.2	23.0
0-40	362.5	38.1
0-60	659.8	69.4
0-90	917.4	96.4
60-90	257.6	27.0
0-180	951.4	100.0

Beam Angle

Total Beam Angle(°)

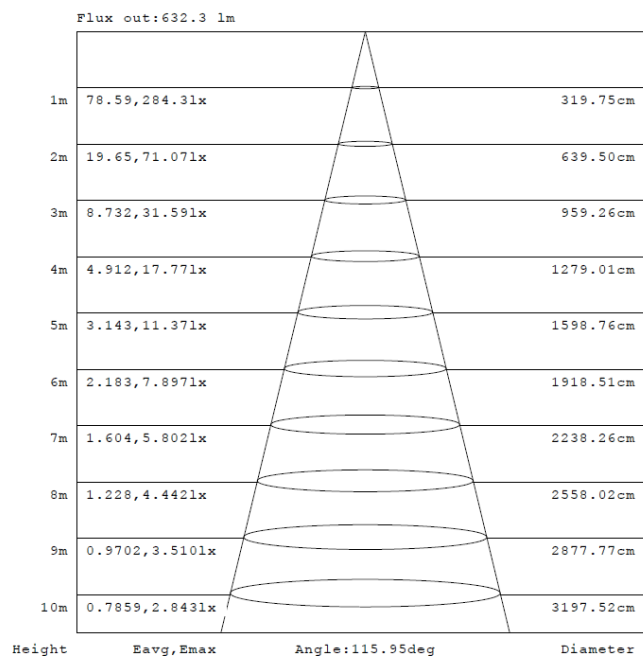
117.2

Illumination Plots

Model No.: SLPC76327XXX

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

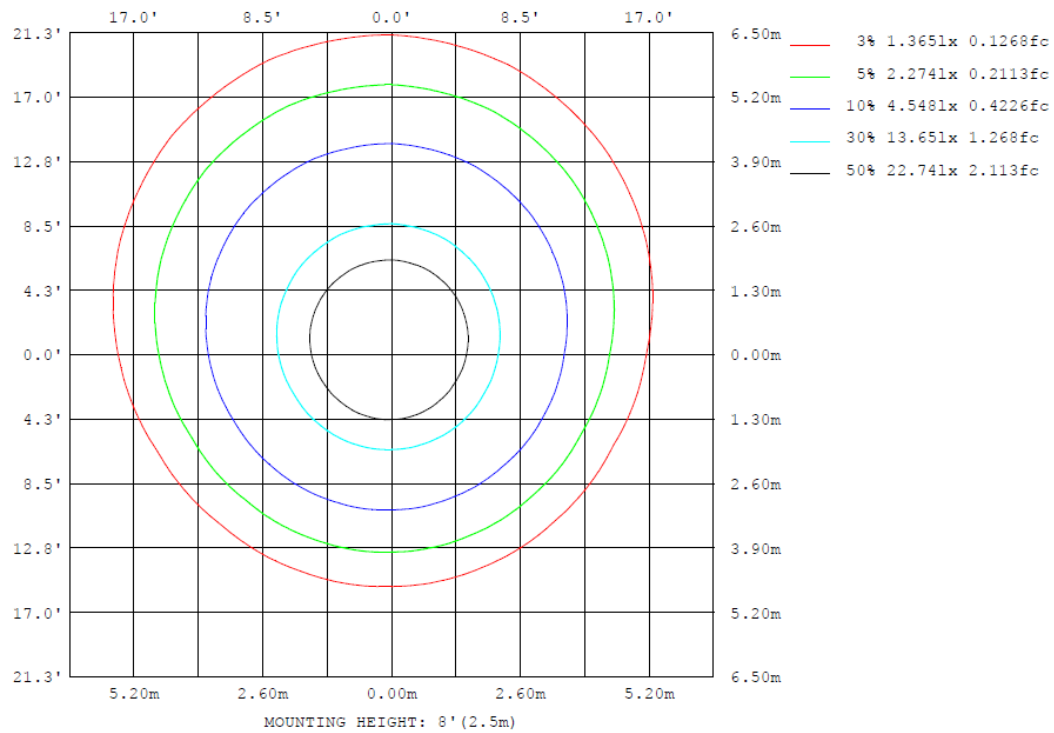
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC76327XXX

Model No.: SLPC76327XXX

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPC76327XXX

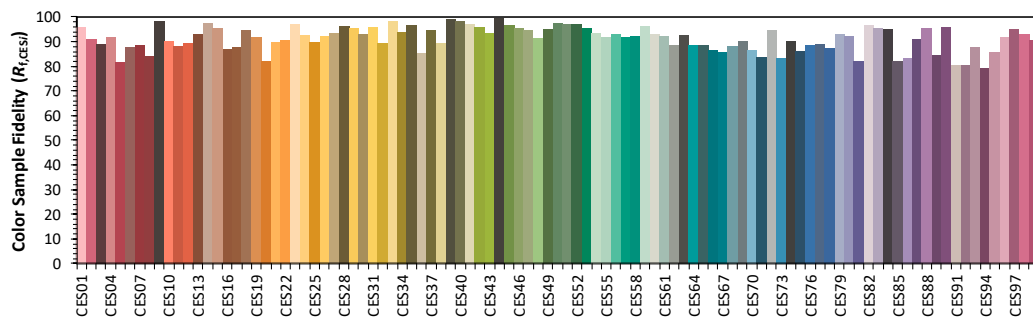
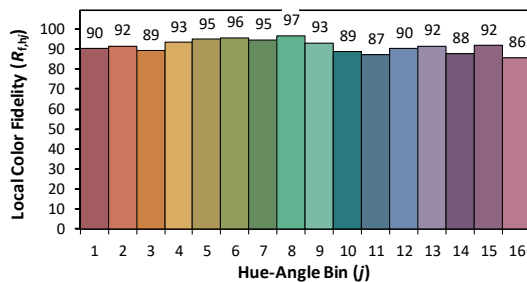
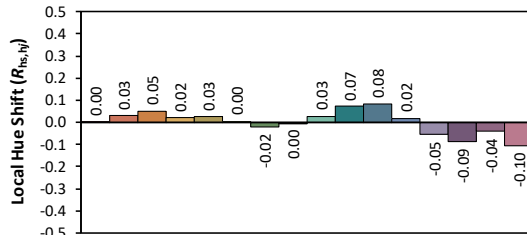
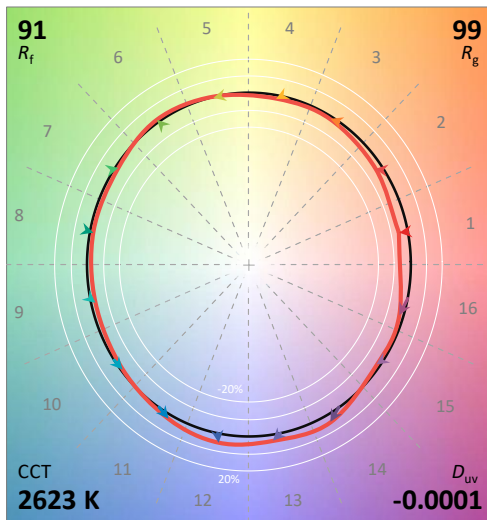
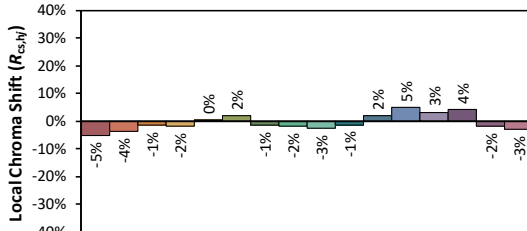
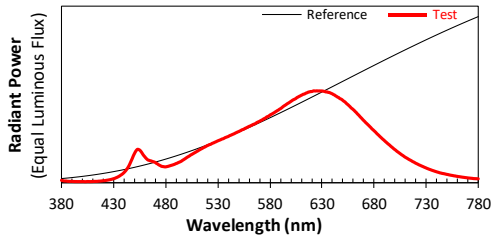
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/7/9

Model: SLPC76327XXX



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

x 0.4660
 y 0.4116
 u' 0.2660
 v' 0.5287

CIE 13.3-1995
(CRI)
 R_a 92
 R_g 59

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

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

TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLPC76327XXX



View of LED driver PTB20W-0400-38-VCC1(AB0258)

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

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 *****