

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

250821045GZU-005

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None

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Report format for LM-79_G

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Report No.: 250821045GZU-005

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLWS67927CCXXX

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

RENDERED TO

Visual Comfort & Co.

Contact Name: Javan Rivero

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TEST: Electrical and Photometric as required to the IES LM-79 test standard.

AUTHORIZATION: The testing performed was authorized by signed quote number: QGZ250818132.

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 SLWS67927CCXXX. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S250821045-006.

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: 09 September 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:	SLWS67927CCXXX
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLWS67927CCXXX

Criteria	Result
Total Lumen Output	919.5 lm
Total Power	11.1 W
Luminaire Efficacy	82.9 lm/W
S/MH(C0/180)	1.20
S/MH(C90/270)	1.12
Correlated Color Temperature (CCT)	2734 K
Color Rendering Index (CRI)	93
R9	62
Chromaticity Coordinate (x)	0.4556
Chromaticity Coordinate (y)	0.4073
Chromaticity Coordinate (u')	0.2612
Chromaticity Coordinate (v')	0.5255

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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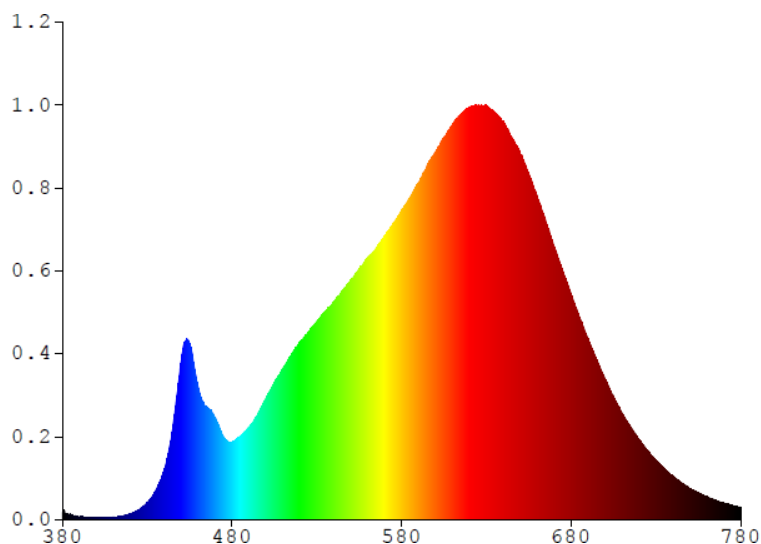
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLWS67927CCXXX

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.6915	480	7.5630	580	30.1740	680	21.9750	780	1.2104
385	0.4257	485	8.1690	585	31.4180	685	19.6920		
390	0.2736	490	9.0260	590	32.8650	690	17.6350		
395	0.2023	495	10.1930	595	34.5090	695	15.6220		
400	0.1763	500	11.8200	600	35.8040	700	13.7290		
405	0.1644	505	13.3820	605	37.1940	705	11.9900		
410	0.2532	510	14.7670	610	38.5030	710	10.3620		
415	0.3625	515	16.0660	615	39.5310	715	9.0749		
420	0.5440	520	17.2470	620	40.1800	720	7.8235		
425	0.9666	525	18.2790	625	40.3580	725	6.7631		
430	1.6456	530	19.2850	630	40.3110	730	5.7682		
435	2.8246	535	20.2700	635	39.7080	735	4.9478		
440	4.8567	540	21.2210	640	38.8270	740	4.2349		
445	8.8968	545	22.3230	645	37.3000	745	3.5943		
450	15.4300	550	23.3140	650	35.6980	750	3.0714		
455	17.0760	555	24.4270	655	33.7530	755	2.6440		
460	12.9320	560	25.5240	660	31.5560	760	2.2505		
465	10.9230	565	26.4560	665	29.1100	765	1.9182		
470	10.0050	570	27.6560	670	26.6030	770	1.6305		
475	8.0388	575	28.8650	675	23.8140	775	1.3919		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLWS67927CCXXX

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

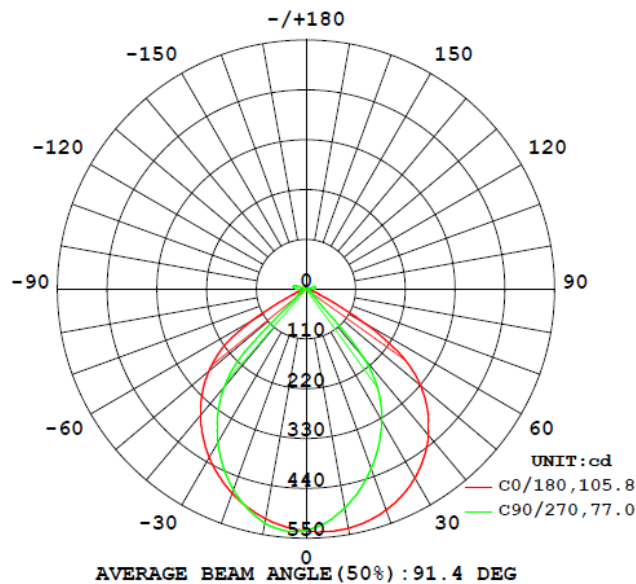
Photometric Measurements at 25°C – Distribution Method

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')
SLWS67927CCXXX								
S2508210 45-006	base-up	2734	93	62	0.4556	0.4073	0.2612	0.5255

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)
SLWS67927CCXXX							
S2508210 45-006	base-up	120.1	93.2	11.1	0.991	919.5	82.9

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLWS67927CCXXX

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	534.1	534.0	533.7	532.4	531.7
5	536.9	532.9	526.7	520.5	516.9
10	535.9	525.5	512.4	497.7	490.7
15	529.6	513.1	489.7	468.0	458.5
20	518.6	494.0	462.0	433.8	421.2
25	502.7	469.2	428.9	394.0	380.2
30	481.4	439.1	390.4	350.6	335.2
35	454.4	402.8	344.2	298.2	281.3
40	421.3	357.6	285.2	221.9	200.0
45	380.5	296.9	161.9	45.1	34.8
50	330.6	175.5	39.9	22.5	20.5
55	260.9	61.9	22.7	16.4	14.7
60	151.3	36.0	17.0	12.0	11.1
65	57.1	15.4	13.4	9.9	9.1
70	27.3	13.0	11.7	7.7	6.9
75	13.2	15.1	11.4	6.9	7.1
80	4.7	19.8	10.4	11.0	10.4
85	0.9	21.6	12.8	11.4	11.3
90	0.1	15.4	11.3	14.3	15.2
95	0.1	6.0	8.0	18.2	19.8
100	0.1	0.1	7.9	20.3	22.3
105	0.1	0.1	4.4	18.3	21.1
110	0.1	0.1	0.1	5.1	10.7
115	0.1	0.1	0.1	0.1	0.1
120	0.2	0.2	0.1	0.1	0.1
125	0.2	0.2	0.2	0.2	0.2
130	0.3	0.3	0.3	0.3	0.3
135	0.4	0.4	0.4	0.4	0.4
140	0.5	0.5	0.5	0.5	0.5
145	0.6	0.6	0.6	0.6	0.6
150	0.7	0.7	0.7	0.7	0.7
155	0.7	0.7	0.7	0.8	0.7
160	0.8	0.8	0.8	0.8	0.8
165	0.8	0.8	0.8	0.8	0.8
170	0.8	0.8	0.8	0.8	0.8
175	0.8	0.8	0.8	0.7	0.7
180	0.7	0.7	0.7	0.7	0.7

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLWS67927CCXXX

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLWS67927CCXXX		
0-30	392.0	42.6
0-40	617.2	67.1
0-60	848.1	92.2
0-90	895.9	97.4
60-90	47.8	5.2
0-180	919.5	100.0

Beam Angle

Total Beam Angle(°)

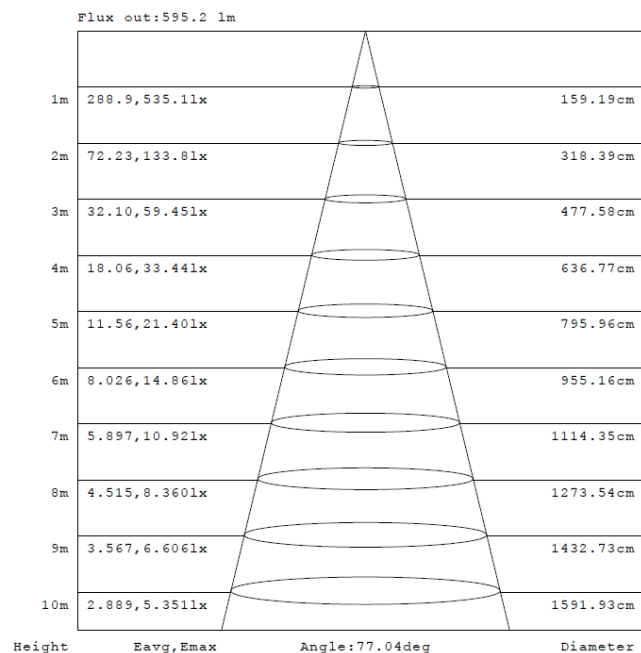
91.4

Illumination Plots

Model No.: SLWS67927CCXXX

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

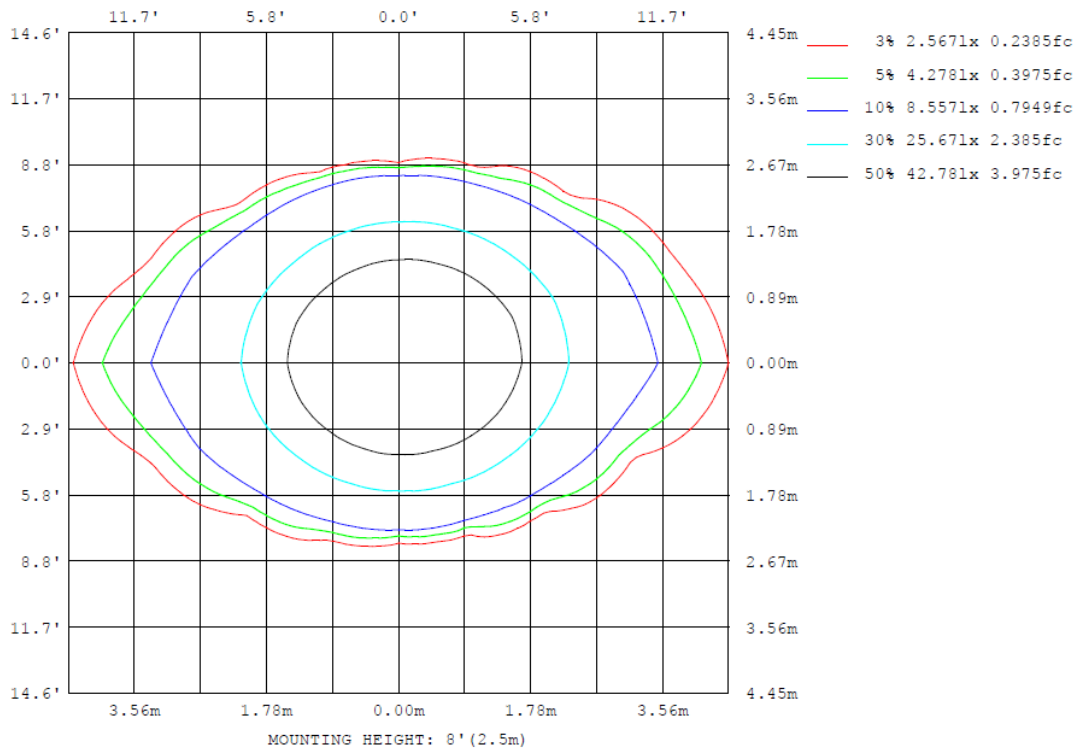
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLWS67927CCXXX

Model No.: SLWS67927CCXXX

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLWS67927CCXXX

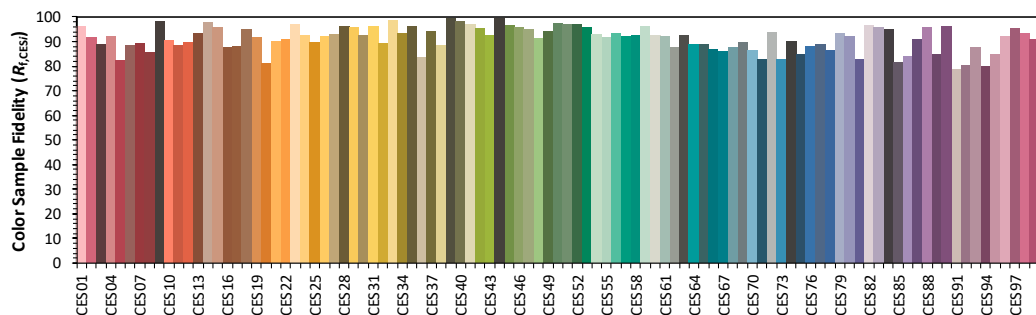
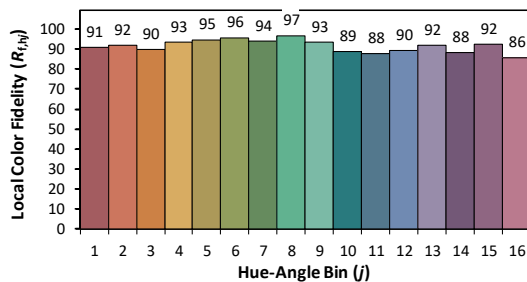
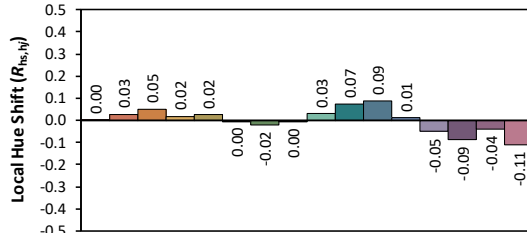
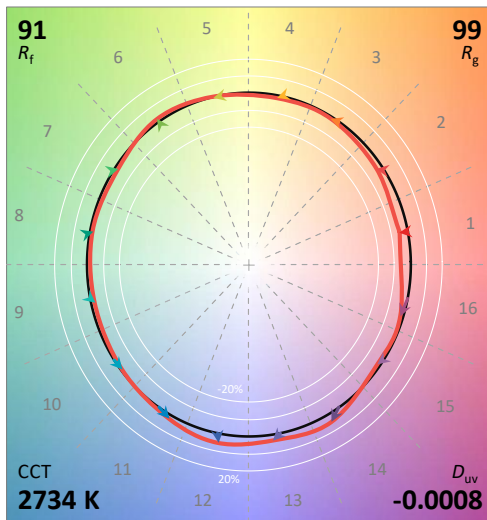
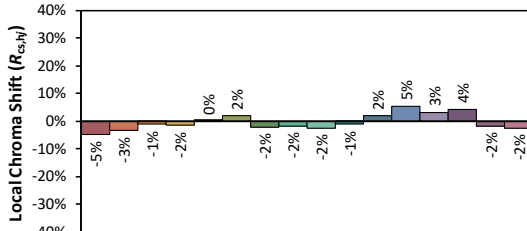
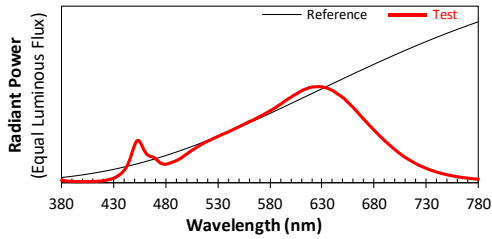
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/9/9

Model: SLWS67927CCXXX



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

x 0.4556
 y 0.4073
 u' 0.2612
 v' 0.5255

CIE 13.3-1995
(CRI)
 R_a 93
 R_g 62

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 SLWS67927CCXXX



View of LED driver PVD11-C030V33-UNV3-HE-P



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 *****