

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-053

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None

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Report No.: 251110010GZU-053

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLWS84927XXXCA

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: QGZ251106008.

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 SLWS84927XXXCA. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-043.

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: 07 January 2026

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:	SLWS84927XXXCA
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLWS84927XXXCA

Criteria	Result
Total Lumen Output	454.5 lm
Total Power	7.4 W
Luminaire Efficacy	61.5 lm/W
S/MH(C0/180)	2.89
S/MH(C90/270)	3.06
Correlated Color Temperature (CCT)	2502 K
Color Rendering Index (CRI)	93
R9	73
Chromaticity Coordinate (x)	0.4756
Chromaticity Coordinate (y)	0.4117
Chromaticity Coordinate (u')	0.2722
Chromaticity Coordinate (v')	0.5301

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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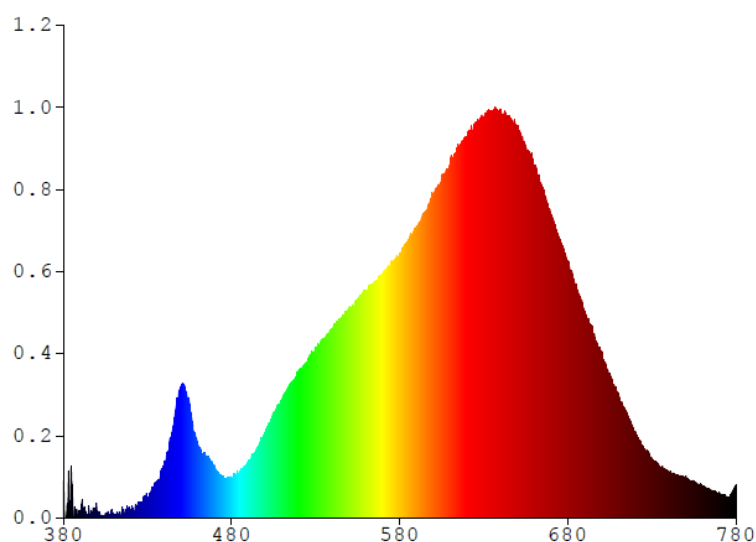
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLWS84927XXXCA

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.1998	480	0.1967	580	1.3122	680	1.2670	780	0.1642
385	0.1660	485	0.2267	585	1.3751	685	1.1530		
390	0.0335	490	0.2786	590	1.4413	690	1.0233		
395	0.0571	495	0.3452	595	1.5112	695	0.8977		
400	0.0022	500	0.4257	600	1.6067	700	0.8246		
405	0.0242	505	0.5189	605	1.6904	705	0.7164		
410	0.0000	510	0.5904	610	1.7596	710	0.6156		
415	0.0538	515	0.6660	615	1.8359	715	0.5229		
420	0.0431	520	0.7353	620	1.8922	720	0.4278		
425	0.0677	525	0.7699	625	1.9581	725	0.3489		
430	0.0897	530	0.8311	630	1.9863	730	0.2935		
435	0.1769	535	0.8862	635	2.0198	735	0.2499		
440	0.2669	540	0.9340	640	2.0258	740	0.2306		
445	0.4431	545	0.9807	645	1.9910	745	0.2096		
450	0.6378	550	1.0410	650	1.9337	750	0.2023		
455	0.5557	555	1.0860	655	1.8370	755	0.1852		
460	0.3605	560	1.1279	660	1.7298	760	0.1399		
465	0.3058	565	1.1735	665	1.6410	765	0.1411		
470	0.2436	570	1.2154	670	1.4990	770	0.1242		
475	0.2094	575	1.2702	675	1.3587	775	0.0969		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLWS84927XXXCA

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

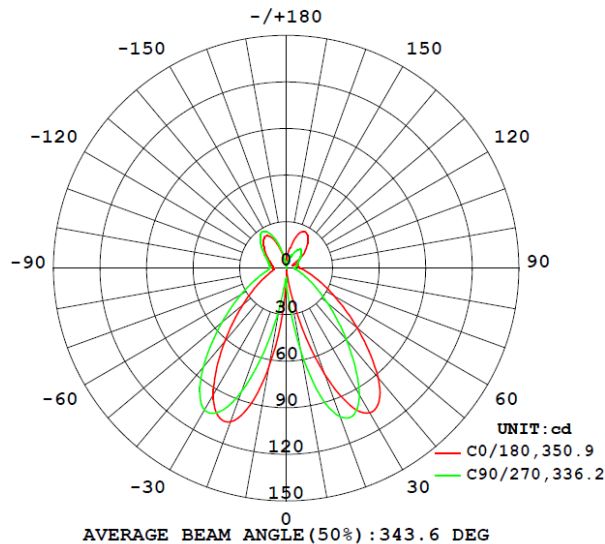
Photometric Measurements at 25°C – Distribution Method

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')
SLWS84927XXXCA								
S2511100 10-043	base-up	2502	93	73	0.4756	0.4117	0.2722	0.5301

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)
SLWS84927XXXCA							
S2511100 10-043	base-up	120.2	62.5	7.4	0.98	454.5	61.5

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLWS84927XXXCA

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	6.0	4.6	3.8	5.5	7.7
5	1.3	3.0	8.6	15.5	21.7
10	11.9	18.8	31.7	41.6	53.7
15	39.6	53.2	63.7	70.5	85.4
20	72.6	94.8	96.6	86.9	101.9
25	97.4	129.9	122.7	91.4	103.9
30	107.6	152.3	138.0	85.7	94.4
35	104.5	157.3	140.3	72.5	77.6
40	92.0	145.6	124.5	57.9	60.7
45	75.4	125.4	105.8	45.1	46.0
50	59.7	100.6	83.9	34.8	34.7
55	46.3	77.7	65.0	27.2	25.8
60	35.8	60.4	50.1	20.9	19.2
65	27.6	46.8	37.8	15.8	14.5
70	21.5	35.4	28.4	12.3	11.2
75	16.9	27.1	21.3	9.8	8.8
80	13.6	20.2	16.4	8.0	7.0
85	11.0	15.5	13.2	6.9	5.6
90	9.3	12.9	11.8	6.8	5.6
95	8.2	12.5	12.1	7.2	5.8
100	7.9	12.4	12.6	7.9	6.5
105	8.1	13.0	13.7	8.8	7.3
110	8.4	14.2	15.4	10.0	8.0
115	5.0	15.7	17.5	11.4	8.6
120	5.2	17.8	20.2	12.8	9.5
125	9.7	19.9	23.2	14.2	10.8
130	15.2	22.5	26.5	15.9	12.4
135	18.4	25.3	29.5	17.5	14.0
140	21.6	27.1	31.8	18.2	15.3
145	24.4	25.9	31.1	18.7	15.0
150	26.3	19.6	26.7	16.0	13.1
155	26.3	9.0	20.4	14.1	7.8
160	23.6	8.8	11.6	8.3	8.0
165	18.4	9.9	7.0	3.0	3.9
170	13.3	10.9	6.2	0.7	0.3
175	6.6	2.8	0.2	0.2	0.2
180	0.2	0.2	0.2	0.2	1.2

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLWS84927XXXCA

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLWS84927XXXCA		
0-30	76.4	16.7
0-40	149.8	33.0
0-60	268.7	59.1
0-90	339.2	74.6
60-90	70.5	15.5
0-180	454.5	100.0

Beam Angle

Total Beam Angle(°)

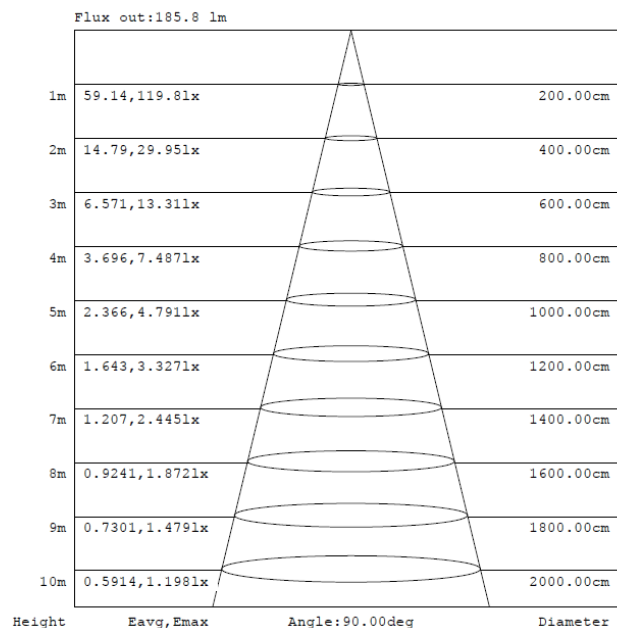
343.6

Illumination Plots

Model No.: SLWS84927XXXCA

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

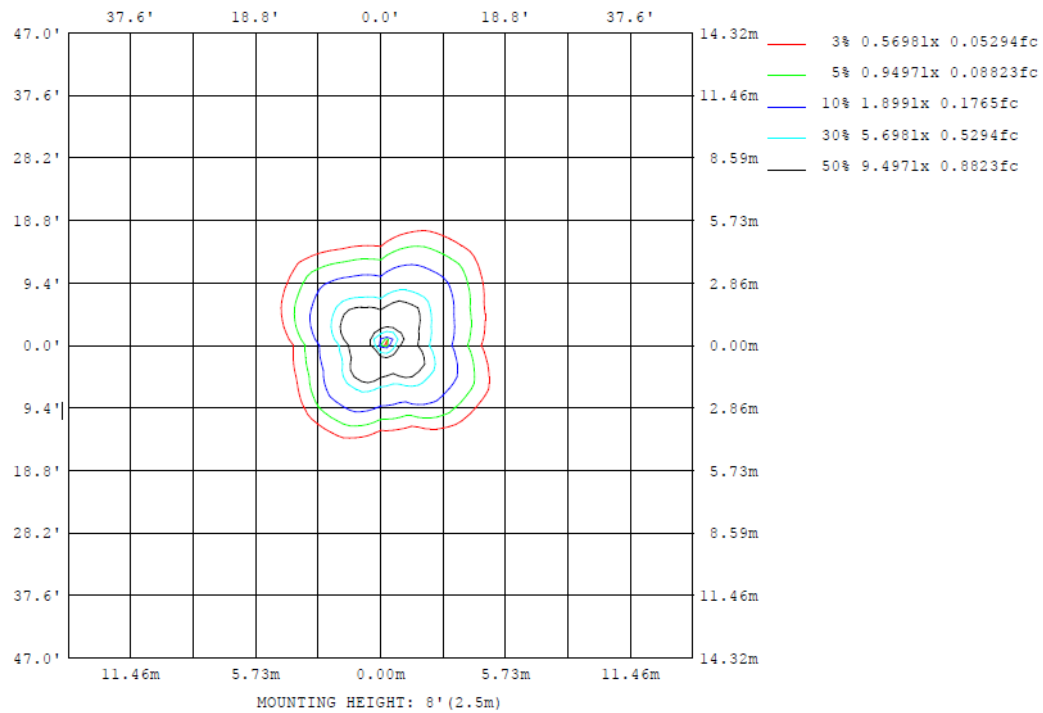
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLWS84927XXXCA

Model No.: SLWS84927XXXCA

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLWS84927XXXCA

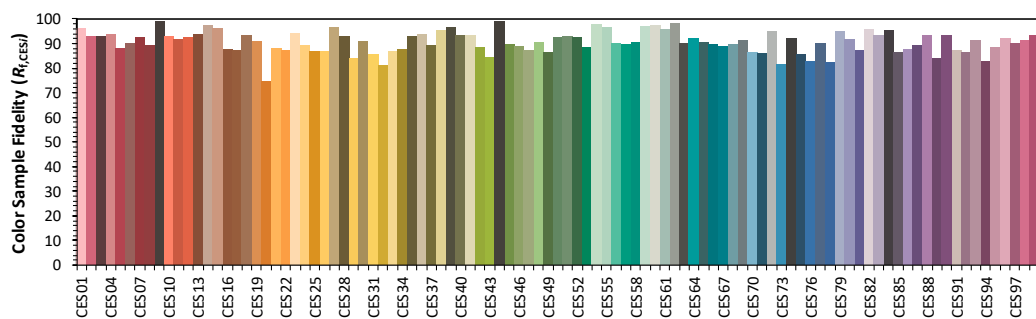
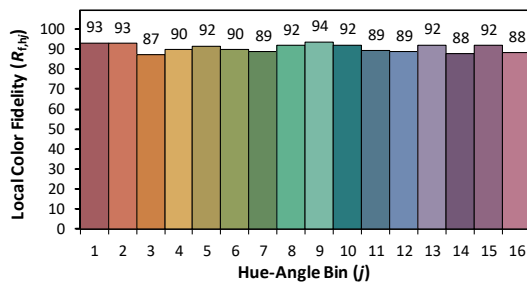
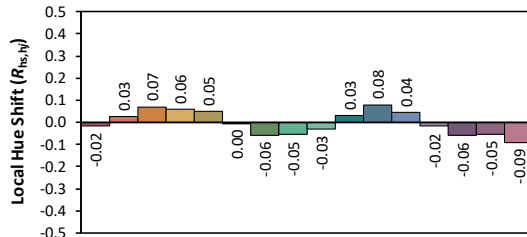
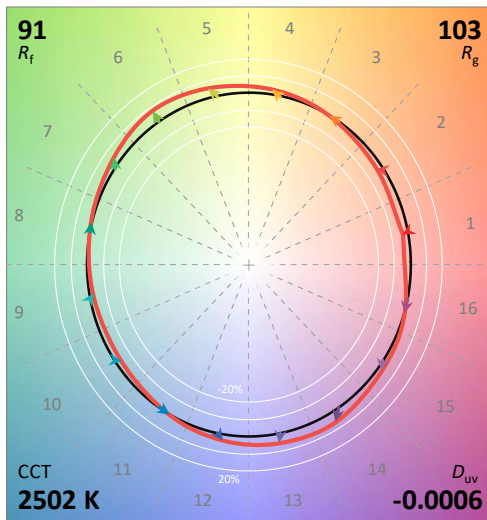
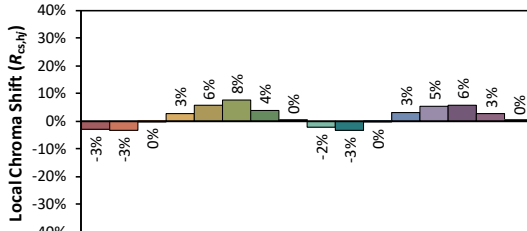
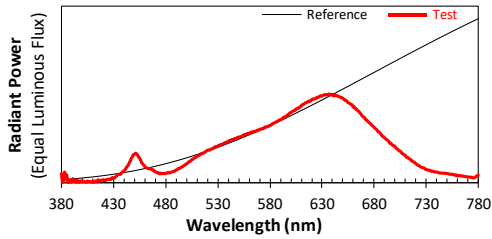
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2026/1/7

Model: SLWS84927XXXCA



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

x 0.4756
 y 0.4117
 u' 0.2722
 v' 0.5301

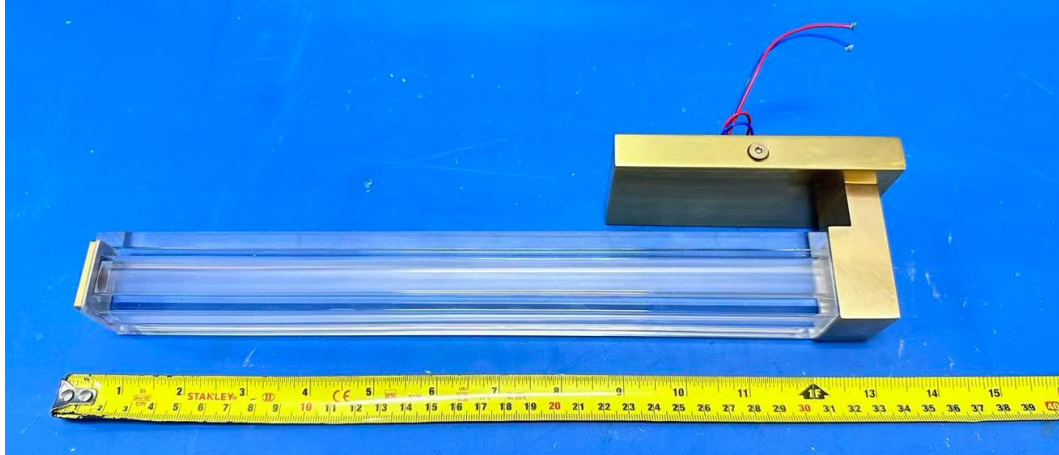
CIE 13.3-1995
(CRI)
 R_a 93
 R_g 73

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 SLWS84927XXXCA



External view of SLWS84927XXXCA

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

TEST REPORT

PRODUCT PICTURE (not to scale)



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



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 *****