

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-051

ISSUE DATE

26 January 2026

REVISION DATE

None

NUMBER OF PAGES

13

DOCUMENT CONTROL NUMBER

Report format for LM-79_G

© 2024 INTERTEK



Report No.: 251110010GZU-051

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLV84627XXXCA

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

RENDERED TO

Visual Comfort & Co.

Contact Name: Javan Rivero

7400 LINDER AVE. SKOKIE, IL, 60077

Email: jrivero@visualcomfort.com

Phone No.: 847-410-4552

<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 SLV84627XXXCA. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-040.
<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>	05 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

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

TEST REPORT

SUMMARY

Model Number:	SLV84627XXXCA
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLV84627XXXCA

Criteria	Result
Total Lumen Output	822.5 lm
Total Power	14.5 W
Luminaire Efficacy	56.5 lm/W
S/MH(C0/180)	4.18
S/MH(C90/270)	1.08
Correlated Color Temperature (CCT)	2614 K
Color Rendering Index (CRI)	93
R9	72
Chromaticity Coordinate (x)	0.4650
Chromaticity Coordinate (y)	0.4086
Chromaticity Coordinate (u')	0.2668
Chromaticity Coordinate (v')	0.5274

Remark:

N/A

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

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

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

When determining for test conclusion, measurement uncertainty of tests has been considered.

Throughout this report a ☐ comma ☒ point is used as the decimal separator.

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

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

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

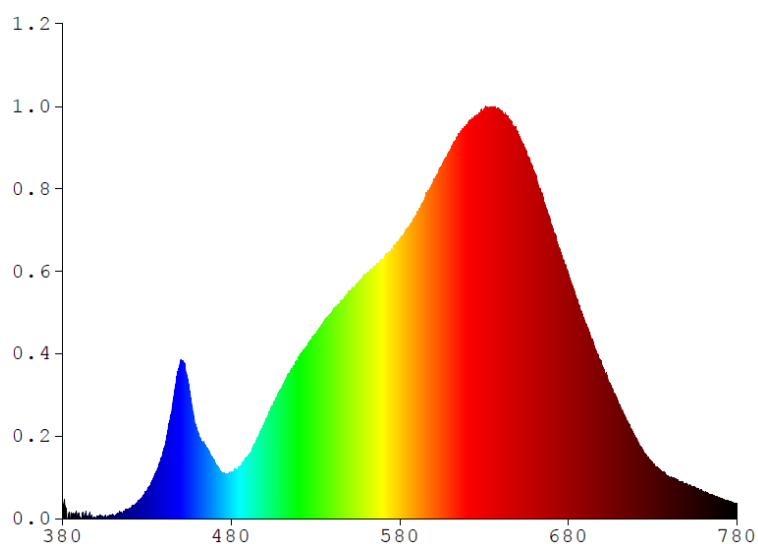
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLV84627XXXCA

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.0021	480	0.7228	580	4.2792	680	3.7506	780	0.2264
385	0.0958	485	0.7970	585	4.4606	685	3.3614		
390	0.0437	490	0.9559	590	4.6558	690	2.9950		
395	0.0258	495	1.2031	595	4.9165	695	2.6709		
400	0.0153	500	1.4775	600	5.1773	700	2.3259		
405	0.0400	505	1.7515	605	5.3947	705	2.0471		
410	0.0180	510	2.0046	610	5.6343	710	1.7508		
415	0.0732	515	2.2547	615	5.8841	715	1.4935		
420	0.1531	520	2.4789	620	6.0210	720	1.2299		
425	0.2770	525	2.6351	625	6.1521	725	1.0007		
430	0.4077	530	2.8273	630	6.2720	730	0.8512		
435	0.6921	535	3.0148	635	6.3040	735	0.7356		
440	1.0701	540	3.1637	640	6.2362	740	0.6384		
445	1.6917	545	3.3281	645	6.1115	745	0.5844		
450	2.4193	550	3.4839	650	5.9060	750	0.5443		
455	2.0051	555	3.5978	655	5.6216	755	0.4833		
460	1.3390	560	3.7259	660	5.2707	760	0.4113		
465	1.1007	565	3.8467	665	4.9329	765	0.3733		
470	0.8877	570	3.9500	670	4.4946	770	0.3162		
475	0.7008	575	4.1210	675	4.0274	775	0.2677		



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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84627XXXCA

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

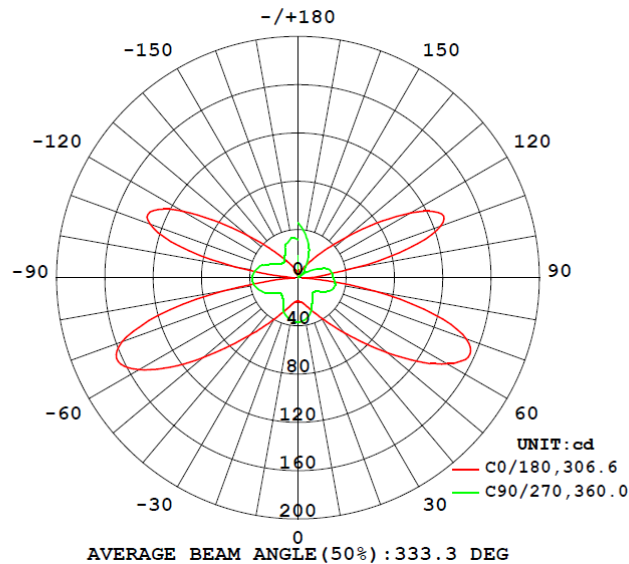
Photometric Measurements at 25°C – Distribution Method

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')
SLV84627XXXCA								
S2511100 10-040	base-up	2614	93	72	0.4650	0.4086	0.2668	0.5274

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)
SLV84627XXXCA							
S2511100 10-040	base-up	120.1	122.8	14.5	0.99	822.5	56.5

Intensity (Candlepower) Summary at 25°C - Candelas



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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84627XXXCA

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	19.6	39.5	60.9	45.6	36.8
5	20.1	51.4	72.8	47.5	36.3
10	21.0	68.3	86.2	48.0	35.1
15	23.5	91.9	99.6	47.1	33.3
20	27.1	120.4	110.9	45.3	30.6
25	31.9	156.0	116.2	40.4	26.6
30	38.3	192.6	115.6	35.7	23.6
35	47.2	223.9	105.9	31.4	20.9
40	59.4	240.5	92.3	26.9	18.5
45	75.6	238.6	74.7	25.1	17.5
50	96.5	215.0	66.7	25.8	18.0
55	120.9	170.1	67.2	28.5	19.5
60	142.8	151.1	75.1	34.0	23.2
65	155.6	152.3	92.5	39.3	27.0
70	148.4	176.4	102.8	41.4	29.6
75	116.2	219.5	103.6	41.6	30.9
80	65.0	229.9	101.0	41.1	31.4
85	14.8	224.6	92.3	39.1	30.6
90	6.5	202.6	78.5	35.8	29.3
95	20.0	170.3	66.5	33.4	28.7
100	47.8	135.1	55.2	31.1	28.1
105	95.1	100.8	46.0	28.7	26.8
110	125.7	70.7	36.8	23.9	23.4
115	128.4	48.7	26.6	17.6	17.7
120	107.6	32.5	18.1	12.3	12.2
125	78.8	21.1	11.7	8.2	8.1
130	52.9	13.6	7.7	6.2	2.7
135	34.8	8.6	5.7	5.0	6.7
140	22.7	5.3	6.6	7.4	8.2
145	15.1	4.2	6.1	9.6	10.5
150	10.2	6.9	7.5	13.6	14.9
155	7.1	5.2	10.2	19.1	20.9
160	5.1	5.9	14.8	25.4	26.6
165	3.8	8.0	21.8	27.7	31.5
170	3.1	11.6	29.5	29.4	36.4
175	3.3	17.2	32.5	30.8	41.3
180	7.1	26.6	35.3	31.4	45.8

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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84627XXXCA

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLV84627XXXCA		
0-30	53.3	6.5
0-40	90.4	11.0
0-60	194.5	23.7
0-90	439.0	53.4
60-90	244.5	29.7
0-180	822.5	100.0

Beam Angle

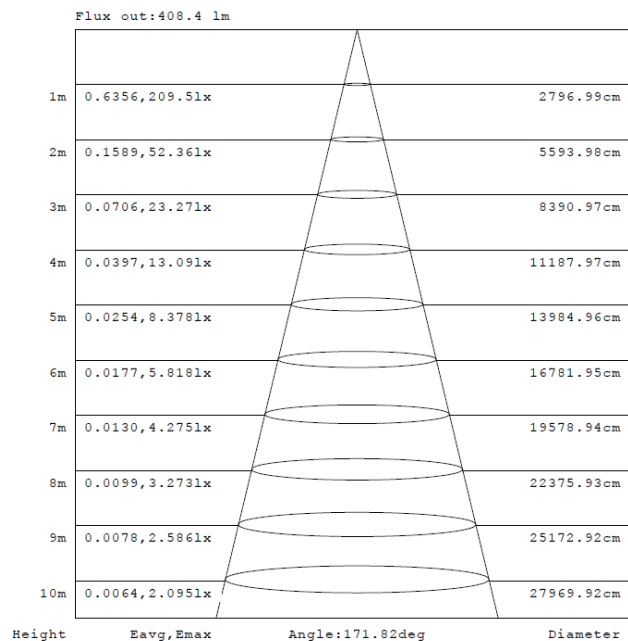
Total Beam Angle(°)
333.3

Illumination Plots

Model No.: SLV84627XXXCA

Mount Height: 2.5 m

Illuminance - Cone of Light



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

TEST REPORT

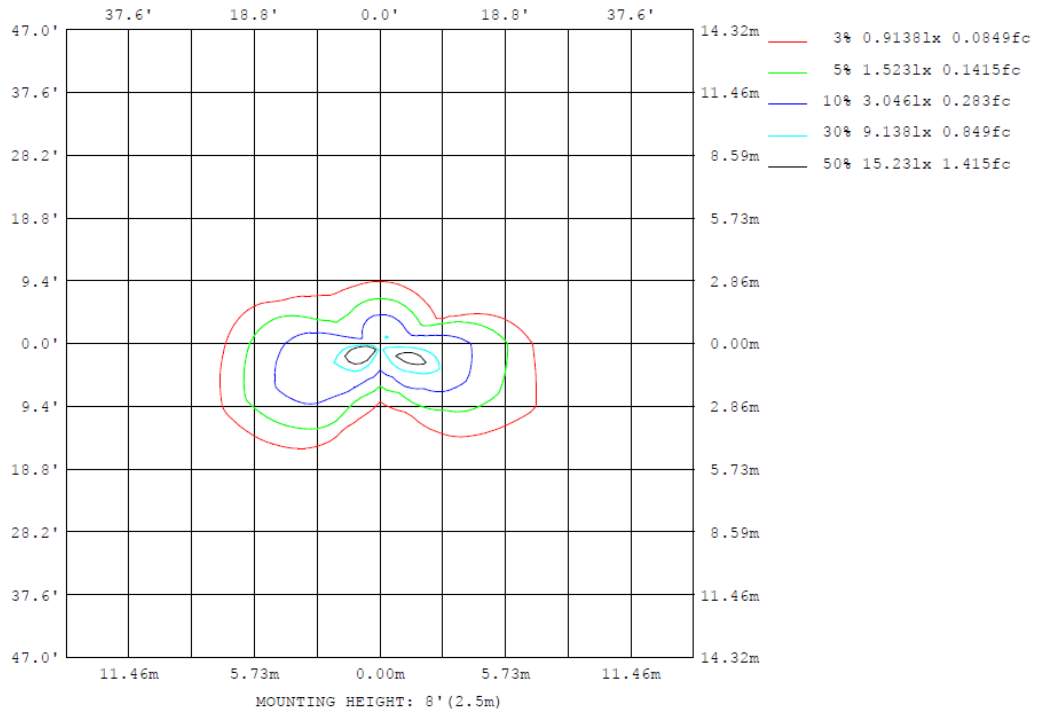
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84627XXXCA

Model No.: SLV84627XXXCA

Mount Height: 2.5 m

Isoillumination Plot



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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84627XXXCA

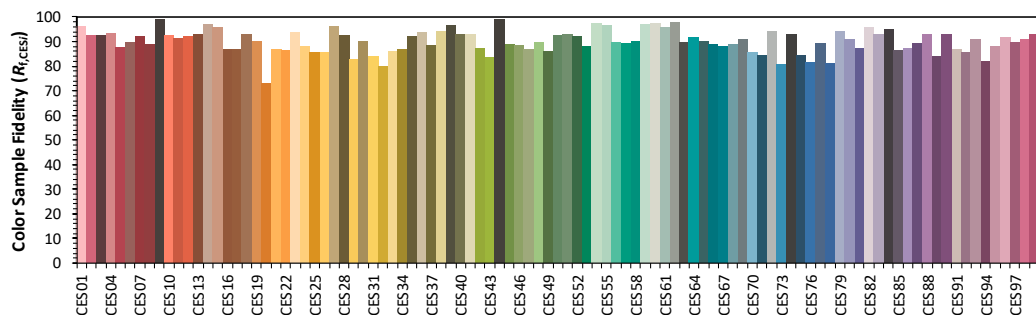
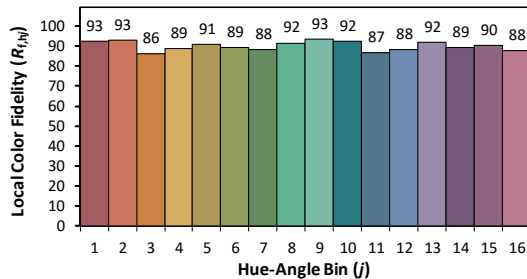
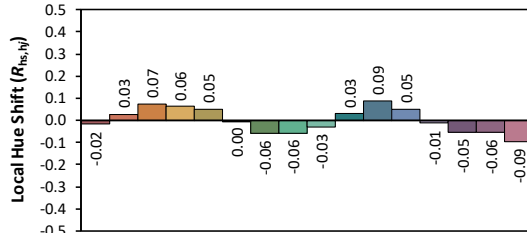
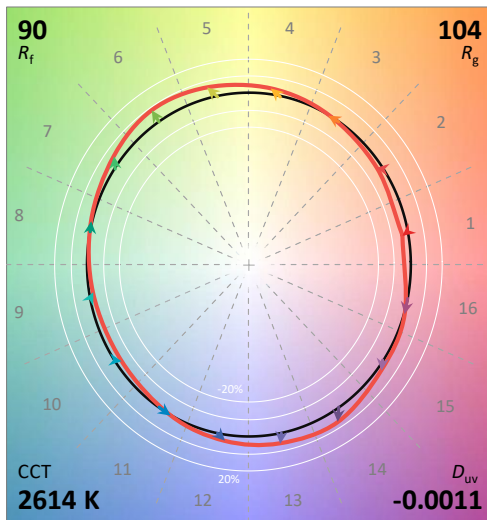
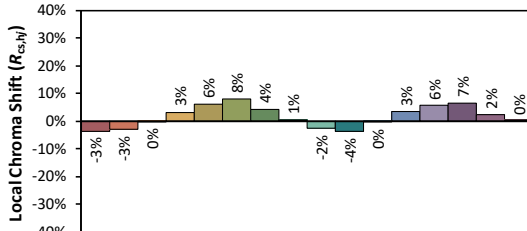
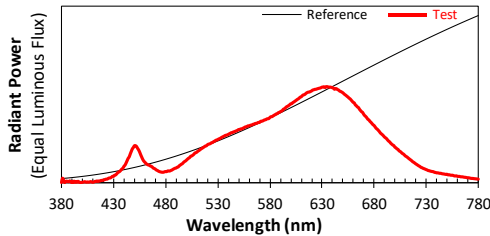
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2026/1/5

Model: SLV84627XXXCA



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

x 0.4650
 y 0.4086
 u' 0.2668
 v' 0.5274

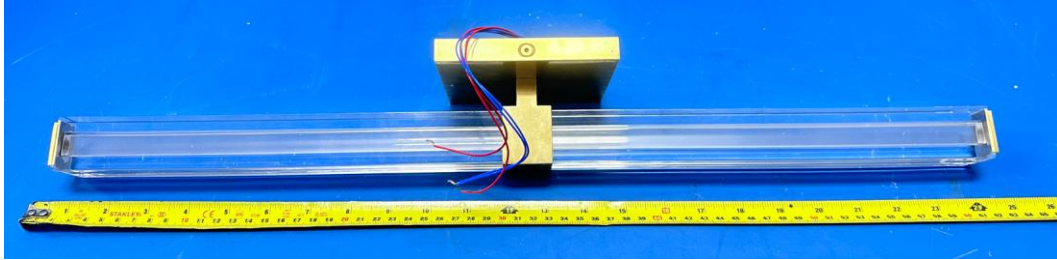
CIE 13.3-1995
(CRI)
 R_a 93
 R_g 72

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

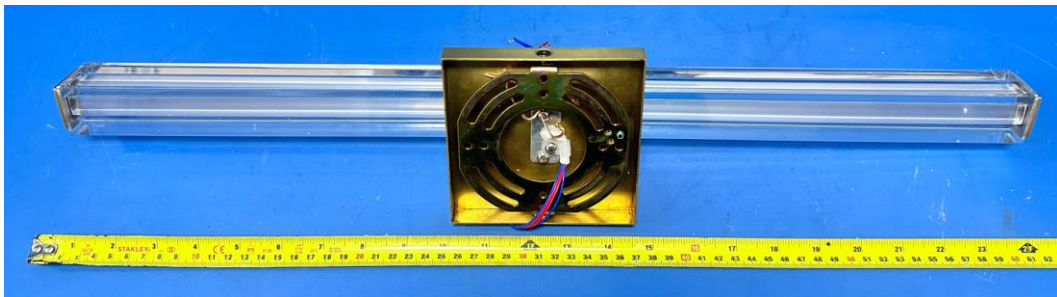
***** End of Page *****

TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLV84627XXXCA



External view of SLV84627XXXCA



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 *****