

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-005

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None

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Report No.: 251110010GZU-005

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLOWS86627XXCG

Remark: "XX" 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 SLOWS86627XXCG. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-008.

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: 01 December 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:	SLOWS86627XXCG
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLOWS86627XXCG

Criteria	Result
Total Lumen Output	571.6 lm
Total Power	11.0 W
Luminaire Efficacy	51.7 lm/W
S/MH(C0/180)	3.19
S/MH(C90/270)	1.57
Correlated Color Temperature (CCT)	2439 K
Color Rendering Index (CRI)	92
R9	66
Chromaticity Coordinate (x)	0.4831
Chromaticity Coordinate (y)	0.4152
Chromaticity Coordinate (u')	0.2754
Chromaticity Coordinate (v')	0.5326

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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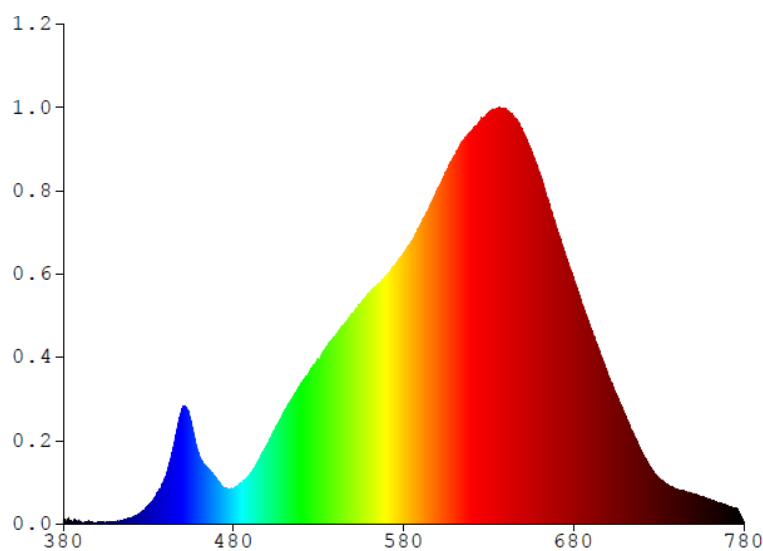
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLOWS86627XXCG

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.2531	480	1.2733	580	9.6991	680	8.8119	780	0.0596
385	0.0639	485	1.4790	585	10.1770	685	7.8771		
390	0.0715	490	1.8161	590	10.7400	690	7.0329		
395	0.0872	495	2.2870	595	11.3290	695	6.2217		
400	0.0458	500	2.8842	600	12.0320	700	5.3775		
405	0.0783	505	3.4820	605	12.6390	705	4.6546		
410	0.0735	510	4.0507	610	13.2170	710	3.9477		
415	0.1234	515	4.5644	615	13.7520	715	3.2697		
420	0.2391	520	5.0883	620	14.1020	720	2.5812		
425	0.4019	525	5.5046	625	14.4450	725	2.0529		
430	0.6704	530	5.9089	630	14.6990	730	1.6555		
435	1.0980	535	6.3808	635	14.8660	735	1.4100		
440	1.6979	540	6.7670	640	14.8880	740	1.2509		
445	2.8358	545	7.1485	645	14.6060	745	1.1740		
450	4.1276	550	7.5361	650	14.0910	750	1.0787		
455	3.6514	555	7.9082	655	13.4250	755	0.9760		
460	2.4402	560	8.2605	660	12.5990	760	0.8886		
465	2.0006	565	8.5922	665	11.6510	765	0.7594		
470	1.6340	570	8.8931	670	10.6050	770	0.6638		
475	1.2990	575	9.2538	675	9.5059	775	0.5586		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS86627XXCG

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

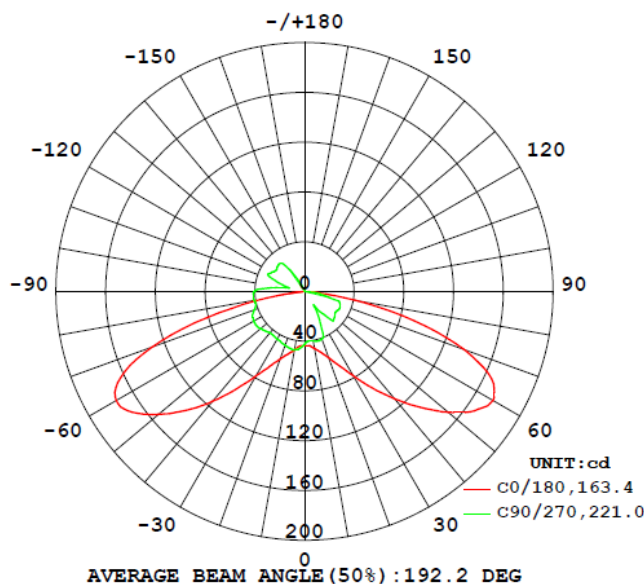
Photometric Measurements at 25°C – Distribution Method

Intertek Sample No.	Base Orientation	Correlated Color Temperatur e (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')
SLOWS86627XXCG								
S2511100 10-008	base-up	2439	92	66	0.4831	0.4152	0.2754	0.5326

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)
SLOWS86627XXCG							
S2511100 10-008	base-up	120.2	93.3	11.0	0.99	571.6	51.7

Intensity (Candlepower) Summary at 25°C - Candelas



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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS86627XXCG

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	43.8	64.0	63.5	49.1	42.3
5	43.6	74.4	68.4	46.4	39.9
10	46.7	88.6	71.8	46.3	40.3
15	50.5	104.9	74.4	48.8	41.3
20	56.8	121.7	80.4	51.0	40.8
25	65.7	137.4	90.4	50.9	32.9
30	78.1	148.7	99.4	36.8	21.9
35	94.5	151.8	98.8	21.9	13.4
40	112.4	150.2	62.8	27.4	24.1
45	131.7	149.0	45.8	41.0	32.9
50	151.0	136.3	96.8	45.9	31.7
55	166.9	77.8	108.0	44.1	30.2
60	175.0	84.2	104.8	43.7	30.5
65	165.9	106.3	106.6	44.9	31.4
70	136.7	106.5	102.2	43.4	30.4
75	91.3	91.2	68.9	35.3	24.3
80	41.0	44.6	21.9	17.9	12.9
85	7.1	33.7	16.9	6.4	4.4
90	0.2	12.2	12.5	4.9	3.3
95	0.2	4.7	8.9	4.2	3.0
100	0.2	3.0	3.5	3.5	2.7
105	0.1	1.3	1.9	1.8	1.7
110	0.1	0.7	1.5	1.1	1.0
115	0.1	0.5	0.8	1.0	0.9
120	0.1	0.3	0.4	0.6	0.6
125	0.1	0.3	0.3	0.4	0.4
130	0.1	0.3	0.3	0.3	0.3
135	0.1	0.2	0.2	0.3	0.2
140	0.1	0.1	0.1	0.1	0.1
145	0.1	0.1	0.1	0.1	0.1
150	0.1	0.1	0.1	0.1	0.1
155	0.1	0.1	0.1	0.2	0.2
160	0.1	0.1	0.2	0.2	0.2
165	0.1	0.1	0.2	0.3	0.3
170	0.1	0.1	0.3	0.4	0.5
175	0.1	0.2	0.5	0.8	0.8
180	0.1	0.3	0.9	1.0	1.1

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS86627XXCG

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLOWS86627XXCG		
0-30	53.9	9.4
0-40	94.4	16.5
0-60	217.4	38.0
0-90	413.7	72.4
60-90	196.3	34.4
0-180	571.6	100.0

Beam Angle

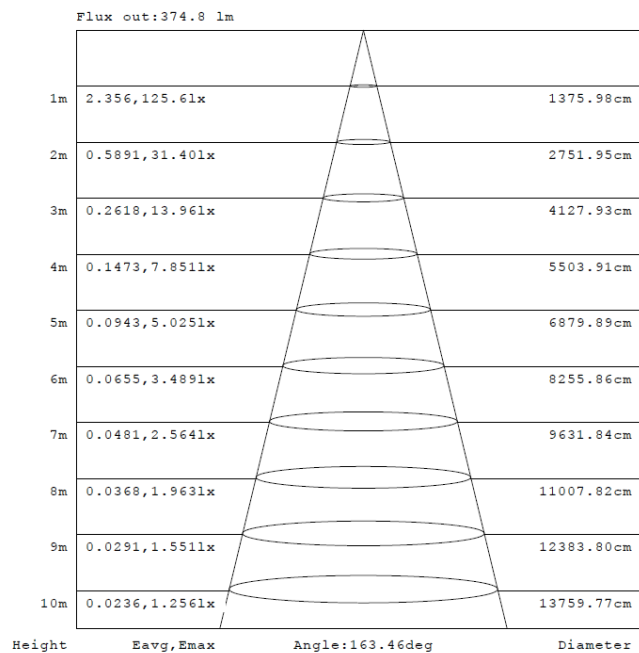
Total Beam Angle(°)
192.2

Illumination Plots

Model No.: SLOWS86627XXCG

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

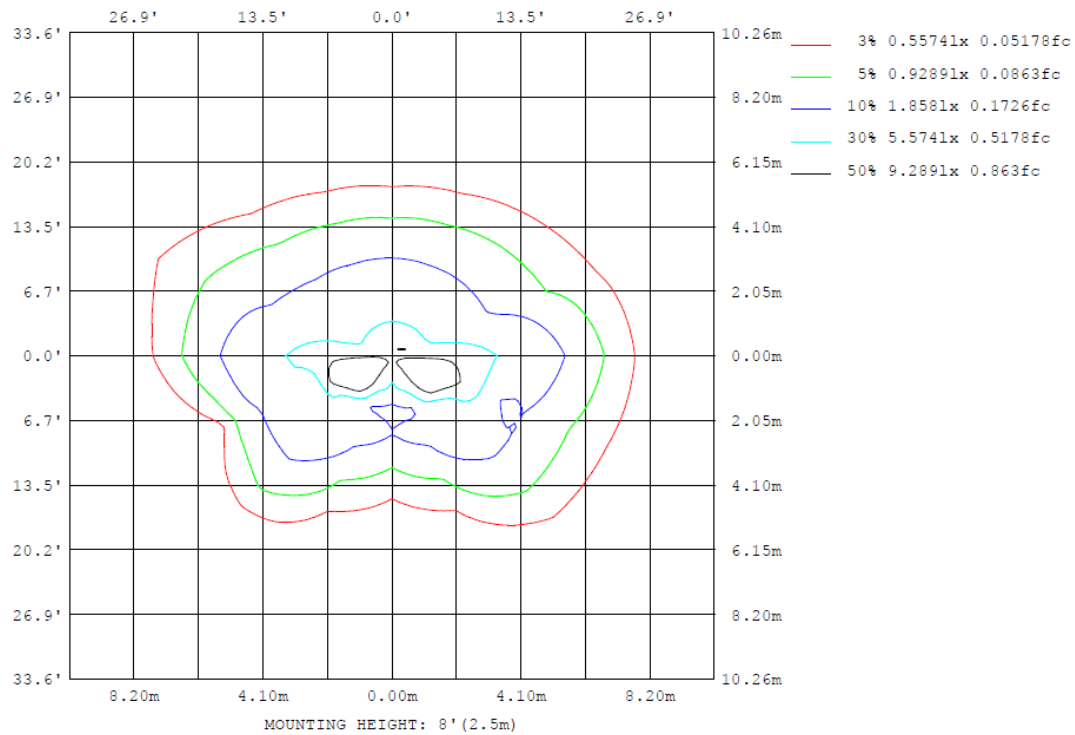
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS86627XXCG

Model No.: SLOWS86627XXCG

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS86627XXCG

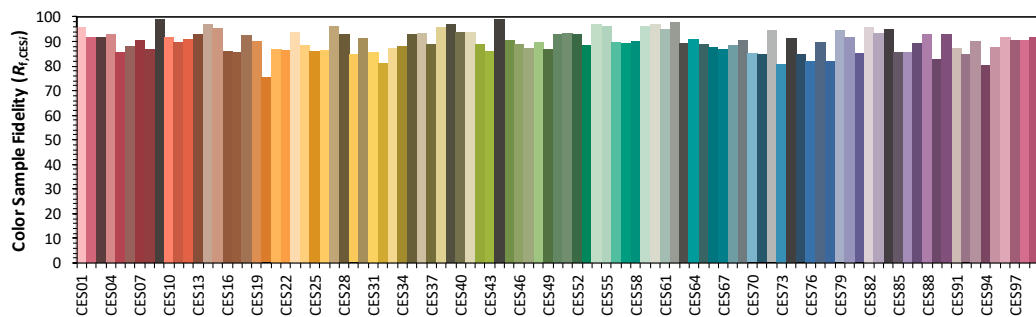
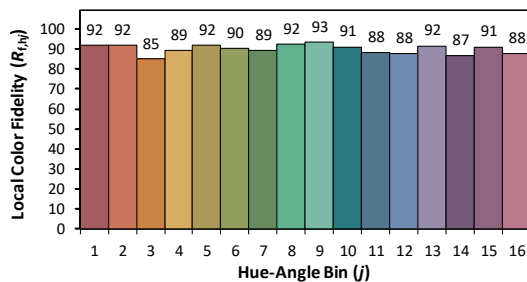
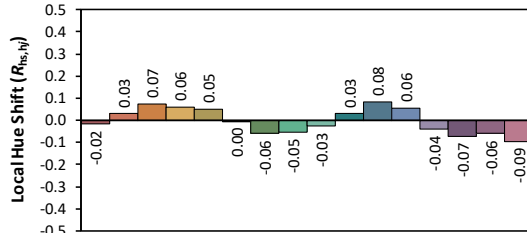
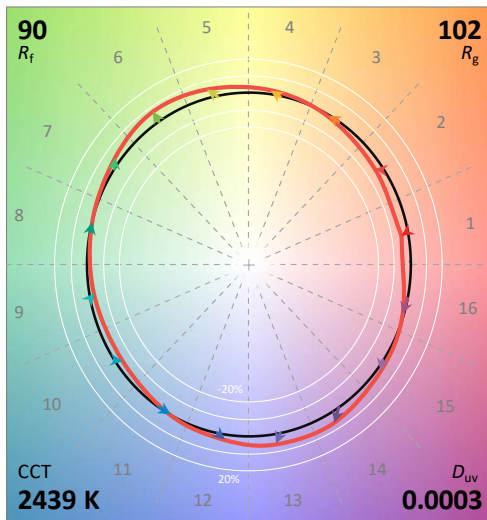
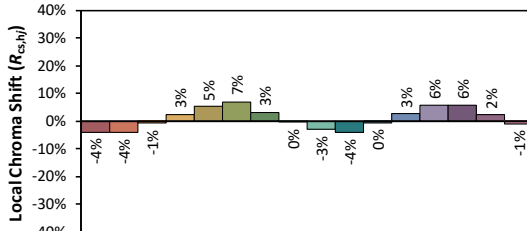
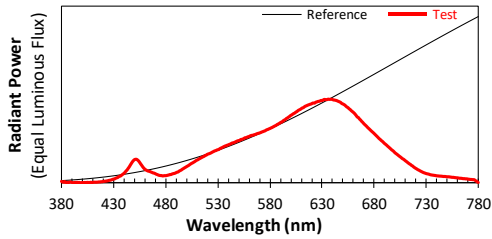
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/12/1

Model: SLOWS86627XXCG



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

x 0.4831
 y 0.4152
 u' 0.2754
 v' 0.5326

CIE 13.3-1995
(CRI)
 R_a 92
 R_g 66

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

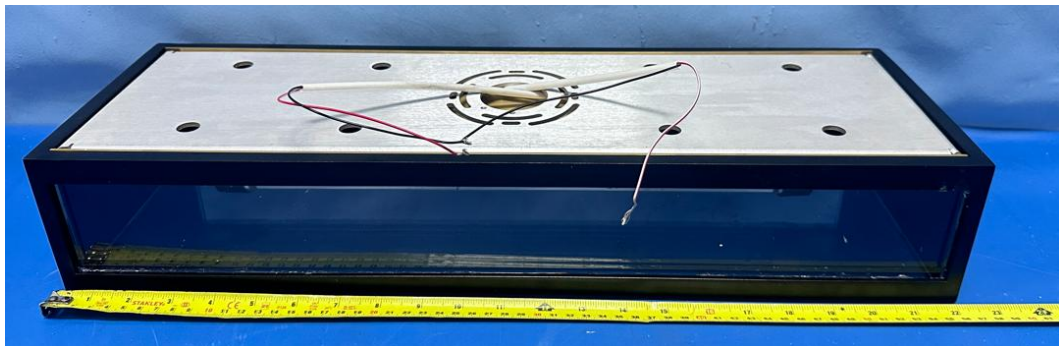
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLOWS86627XXCG



External view of SLOWS86627XXCG



View of LED driver PTB15W-0300-38-VCC1(AB0257)

***** 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 *****