

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

250821045GZU-003

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REVISION DATE

None

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Report No.: 250821045GZU-003

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLFM56627CCXXX

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 SLFM56627CCXXX. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S250821045-005.

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:	SLFM56627CCXXX
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLFM56627CCXXX

Criteria	Result
Total Lumen Output	2899.1 lm
Total Power	33.5 W
Luminaire Efficacy	86.5 lm/W
S/MH(C0/180)	1.19
S/MH(C90/270)	1.33
Correlated Color Temperature (CCT)	2723 K
Color Rendering Index (CRI)	94
R9	64
Chromaticity Coordinate (x)	0.4570
Chromaticity Coordinate (y)	0.4083
Chromaticity Coordinate (u')	0.2617
Chromaticity Coordinate (v')	0.5260

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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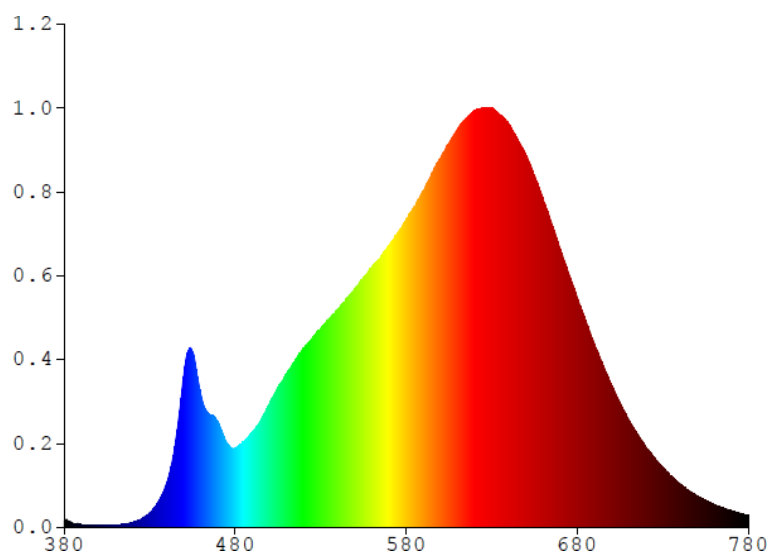
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLFM56627CCXXX

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	1.9205	480	22.6450	580	88.4120	680	65.9350	780	3.4160
385	1.1602	485	24.6720	585	92.3040	685	59.1620		
390	0.7699	490	27.2240	590	96.5120	690	52.7060		
395	0.5593	495	30.7830	595	101.770	695	46.8190		
400	0.5872	500	35.4660	600	105.840	700	40.9110		
405	0.5108	505	40.2160	605	110.050	705	35.7810		
410	0.6318	510	44.1040	610	114.180	710	30.9740		
415	0.8897	515	47.8470	615	117.450	715	27.0110		
420	1.4106	520	51.4150	620	119.620	720	23.2490		
425	2.4167	525	54.2840	625	119.890	725	20.2440		
430	4.1869	530	57.0620	630	120.110	730	17.3010		
435	7.2960	535	59.8780	635	118.280	735	14.6960		
440	12.7990	540	62.4400	640	115.830	740	12.5280		
445	24.1200	545	65.6050	645	111.500	745	10.7110		
450	43.9670	550	68.6390	650	106.970	750	9.1293		
455	50.2710	555	71.6890	655	100.960	755	7.7705		
460	37.9390	560	74.7950	660	94.4170	760	6.6060		
465	32.4930	565	77.3740	665	87.1170	765	5.5990		
470	30.1680	570	80.9430	670	79.8150	770	4.7802		
475	24.2770	575	84.5230	675	71.5390	775	4.0596		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLFM56627CCXXX

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

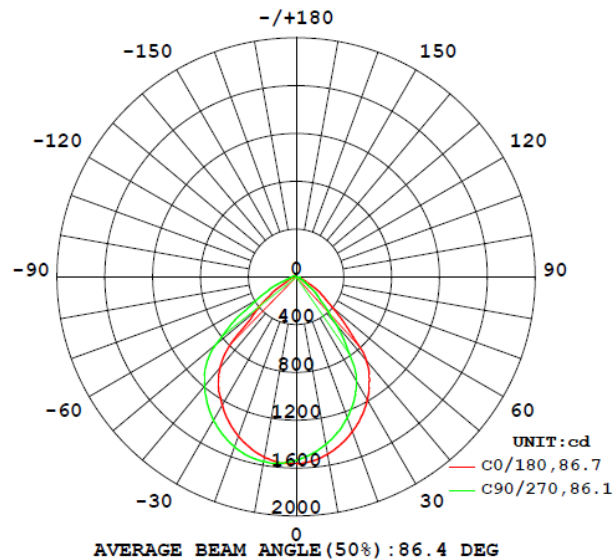
Photometric Measurements at 25°C – Distribution Method

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')
SLFM56627CCXXX								
S2508210 45-005	base-up	2723	94	64	0.4570	0.4083	0.2617	0.5260

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)
SLFM56627CCXXX							
S2508210 45-005	base-up	120.0	281.0	33.5	0.993	2899.1	86.5

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLFM56627CCXXX

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	1564.2	1544.3	1533.7	1532.6	1534.1
5	1545.9	1500.6	1485.1	1483.2	1486.9
10	1506.2	1442.7	1421.4	1418.5	1423.1
15	1449.4	1370.8	1343.2	1338.5	1345.8
20	1376.6	1282.5	1252.1	1244.8	1253.0
25	1290.9	1182.4	1143.9	1135.8	1144.7
30	1191.0	1060.7	1012.5	1000.0	1009.8
35	1070.9	885.0	790.5	751.9	765.1
40	914.3	593.9	529.6	519.7	525.6
45	620.4	405.0	363.6	307.6	320.9
50	393.1	263.4	192.6	169.2	221.4
55	264.5	176.6	97.7	84.0	113.9
60	164.9	83.7	62.2	58.0	70.6
65	83.2	57.5	42.3	42.1	44.7
70	56.4	37.0	33.3	30.5	30.3
75	36.4	28.5	28.0	27.1	29.6
80	28.8	26.7	31.2	31.8	29.1
85	28.7	24.7	30.0	35.7	30.0
90	25.5	26.5	26.4	25.8	31.0
95	25.5	26.3	21.7	23.5	29.2
100	24.3	21.1	17.6	20.4	23.7
105	21.8	9.8	4.1	4.4	8.1
110	9.8	0.6	0.6	0.5	0.4
115	0.5	0.6	0.6	0.6	0.5
120	0.5	0.7	0.8	0.8	0.7
125	0.7	0.9	1.0	1.0	1.0
130	0.9	1.2	1.2	1.2	1.2
135	1.1	1.4	1.5	1.5	1.5
140	1.4	1.7	1.8	1.8	1.8
145	1.7	1.9	2.0	2.0	2.0
150	1.9	2.1	2.2	2.2	2.2
155	2.1	2.2	2.3	2.3	2.3
160	2.2	2.3	2.3	2.3	2.3
165	2.3	2.2	2.2	2.2	2.2
170	2.2	2.2	2.2	2.2	2.2
175	2.2	2.1	2.1	2.1	2.1
180	2.1	1.8	1.7	1.7	1.7

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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLFM56627CCXXX

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLFM56627CCXXX		
0-30	1153.6	39.8
0-40	1807.2	62.3
0-60	2631.9	90.8
0-90	2835.2	97.8
60-90	203.3	7.0
0-180	2899.1	100.0

Beam Angle

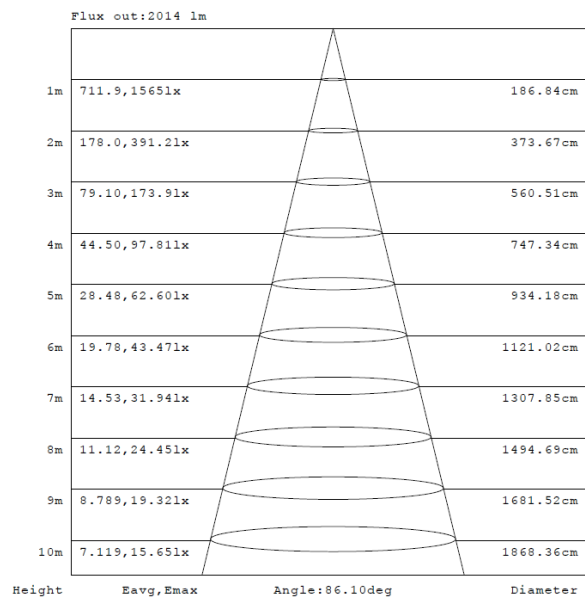
Total Beam Angle(°)
86.4

Illumination Plots

Model No.: SLFM56627CCXXX

Mount Height: 2.5 m

Illuminance - Cone of Light



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TEST REPORT

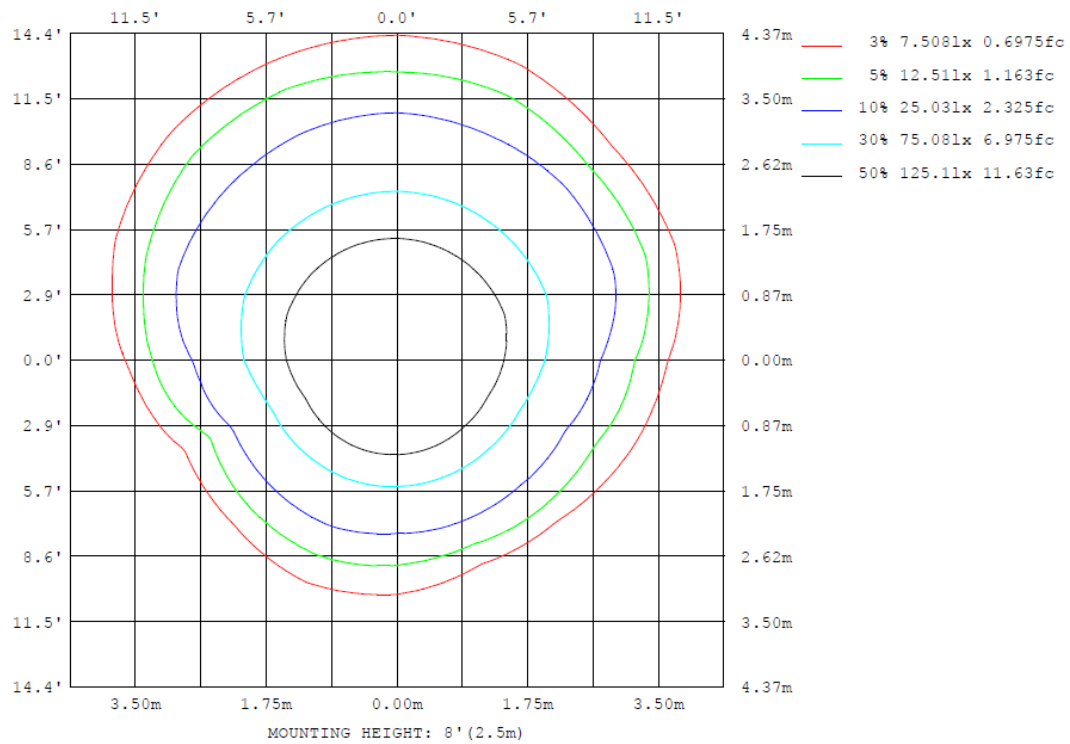
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLFM56627CCXXX

Model No.: SLFM56627CCXXX

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLFM56627CCXXX

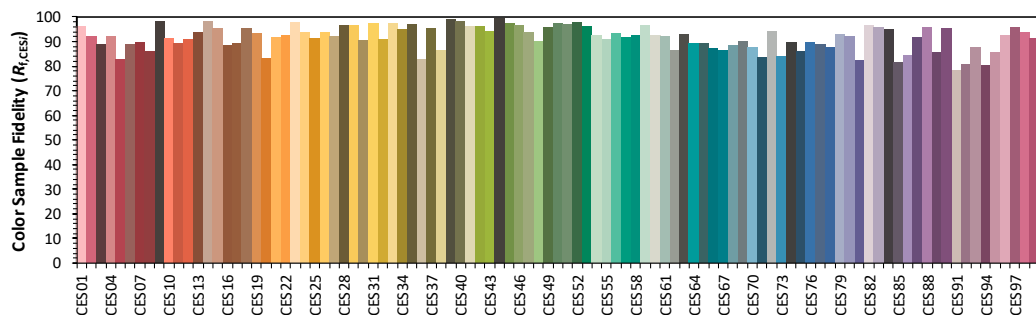
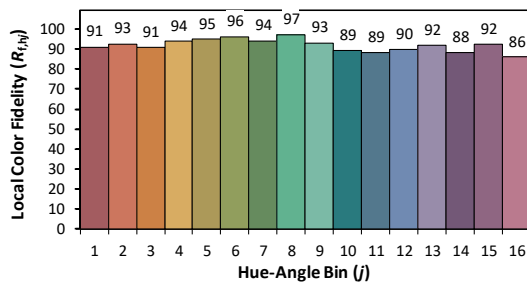
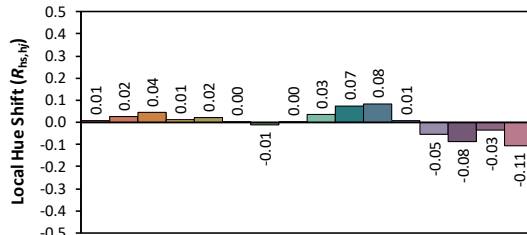
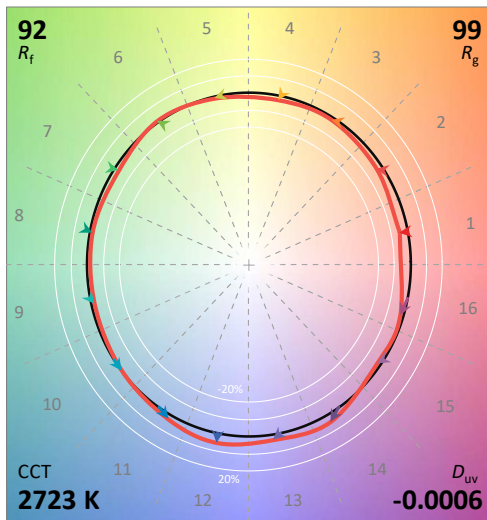
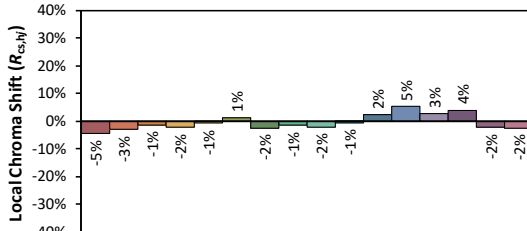
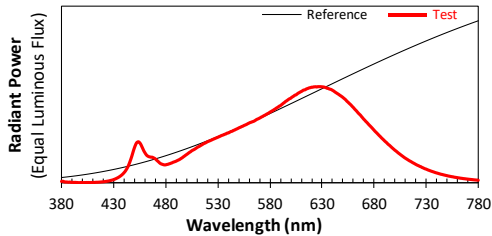
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/9/9

Model: SLFM56627CCXXX



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

x 0.4570
 y 0.4083
 u' 0.2617
 v' 0.5260

CIE 13.3-1995
(CRI)
 R_a 94
 R_g 64

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 SLFM56627CCXXX

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

TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLFM56627CCXXX

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

TEST REPORT

PRODUCT PICTURE (not to scale)



View of LED driver PVD36-C090V40-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 *****