

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

260128102GZU-003

ISSUE DATE

10 February 2026

REVISION DATE

None

NUMBER OF PAGES

13

DOCUMENT CONTROL NUMBER

Report format for LM-79_G

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Report No.: 260128102GZU-003

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLPD26927X

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

RENDERED TO

Visual Comfort & Co.

Contact Name: Javan Rivero

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<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: QGZ231225049.
<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 SLPD26927X. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S231228020-003.
<u>MANUFACTURER /FACTORY & ADDRESS:</u>	Shao Guan Weng Yuan Pearly Gates Furniture Manufacturing Co., Ltd. GuanYing Industrial Park, GuanDu Economic Development Experimental Zone, Weng Yuan County, Guang Dong Province, PRC. 512625.
<u>DATES OF TESTS:</u>	24 January 2024
<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

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TEST REPORT

SUMMARY

Model Number:	SLPD26927X
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLPD26927X

Criteria	Result
Total Lumen Output	356.1 lm
Total Power	11.8 W
Luminaire Efficacy	30.1 lm/W
S/MH(C0/180)	0.07
S/MH(C90/270)	0.07
Correlated Color Temperature (CCT)	2588 K
Color Rendering Index (CRI)	90
R9	59
Chromaticity Coordinate (x)	0.4672
Chromaticity Coordinate (y)	0.4089
Chromaticity Coordinate (u')	0.2680
Chromaticity Coordinate (v')	0.5278

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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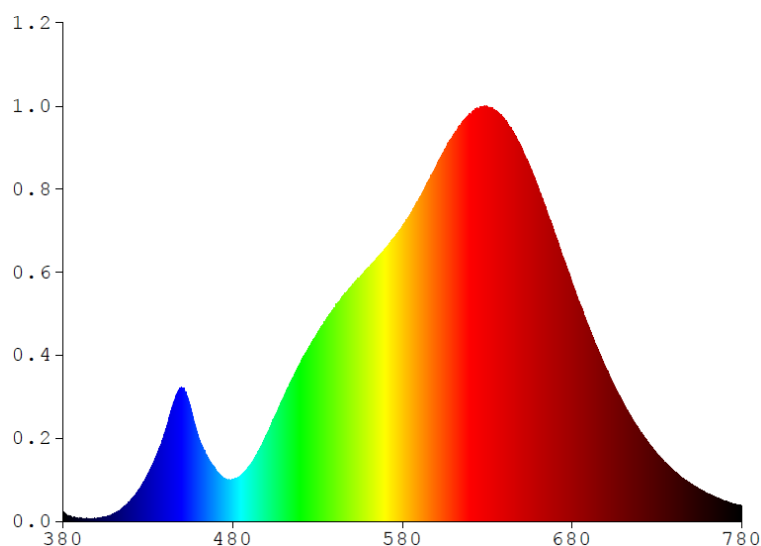
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLPD26927X

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.1462	480	0.7890	580	5.5490	680	4.4894	780	0.2960
385	0.0744	485	0.8707	585	5.7912	685	4.0601		
390	0.0775	490	1.0549	590	6.0782	690	3.6438		
395	0.0599	495	1.3150	595	6.3834	695	3.2411		
400	0.0615	500	1.6314	600	6.6734	700	2.8787		
405	0.0844	505	1.9862	605	6.9915	705	2.5431		
410	0.1485	510	2.3378	610	7.2618	710	2.2421		
415	0.2572	515	2.6764	615	7.4900	715	1.9571		
420	0.4049	520	2.9794	620	7.6632	720	1.7048		
425	0.6157	525	3.2796	625	7.7601	725	1.4799		
430	0.8923	530	3.5317	630	7.7789	730	1.2835		
435	1.2334	535	3.7892	635	7.7219	735	1.1097		
440	1.6729	540	4.0175	640	7.5758	740	0.9499		
445	2.2201	545	4.2393	645	7.3400	745	0.8158		
450	2.5163	550	4.4171	650	7.0464	750	0.7068		
455	2.1586	555	4.5888	655	6.6756	755	0.6098		
460	1.5707	560	4.7628	660	6.2904	760	0.5215		
465	1.2230	565	4.9443	665	5.8446	765	0.4521		
470	0.9821	570	5.1349	670	5.4012	770	0.3901		
475	0.8128	575	5.3253	675	4.8586	775	0.3356		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26927X

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

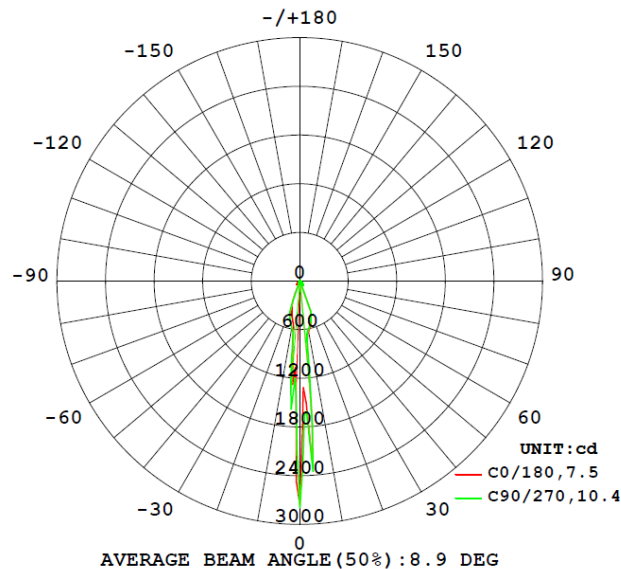
Photometric Measurements at 25°C – Distribution Method

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')
SLPD26927X								
S2312280 20-003	base-up	2588	90	59	0.4672	0.4089	0.2680	0.5278

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)
SLPD26927X							
S2312280 20-003	base-up	120.0	99.4	11.8	0.99	356.1	30.1

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26927X

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	650.1	651.0	658.0	658.6	658.3
5	427.1	471.2	517.7	484.6	421.7
10	148.5	151.5	153.9	151.3	144.7
15	125.8	130.8	134.2	129.7	122.8
20	93.6	95.1	98.7	97.8	93.7
25	0.2	0.1	0.2	0.1	0.1
30	0.0	0.1	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0
40	15.4	14.3	13.2	16.9	16.5
45	11.6	9.5	8.4	12.6	12.4
50	9.2	6.8	5.9	9.9	9.7
55	7.3	5.0	4.4	7.9	7.8
60	5.6	3.8	3.2	6.1	6.0
65	4.2	2.7	2.4	4.5	4.5
70	2.9	1.9	1.7	3.0	3.0
75	1.8	1.2	1.2	1.9	1.8
80	1.1	1.0	0.9	1.2	1.3
85	0.8	0.9	0.8	0.9	1.0
90	0.8	0.8	0.9	0.9	0.9
95	0.8	0.9	0.9	0.9	0.9
100	0.8	0.9	1.0	1.0	1.1
105	1.1	1.1	1.3	1.5	1.4
110	1.1	1.3	1.3	1.3	1.5
115	1.6	1.8	1.9	1.8	1.7
120	0.1	2.3	2.3	2.4	2.4
125	0.1	2.9	3.0	3.1	3.1
130	0.1	2.9	2.9	2.6	2.4
135	0.1	1.9	2.0	1.6	1.7
140	0.1	1.2	1.4	1.2	1.0
145	0.1	0.6	0.8	0.5	0.4
150	0.1	0.5	0.5	0.4	0.4
155	0.2	0.4	0.4	0.4	0.5
160	0.2	0.4	0.4	0.5	0.5
165	0.2	0.4	0.4	0.6	0.5
170	0.2	0.4	0.4	0.6	0.6
175	0.3	0.4	0.6	0.8	0.9
180	0.0	0.0	0.0	0.0	0.0

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26927X

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLPD26927X		
0-30	238.7	67.0
0-40	247.0	69.4
0-60	303.9	85.3
0-90	328.4	92.2
60-90	24.5	6.9
0-180	356.1	100.0

Beam Angle

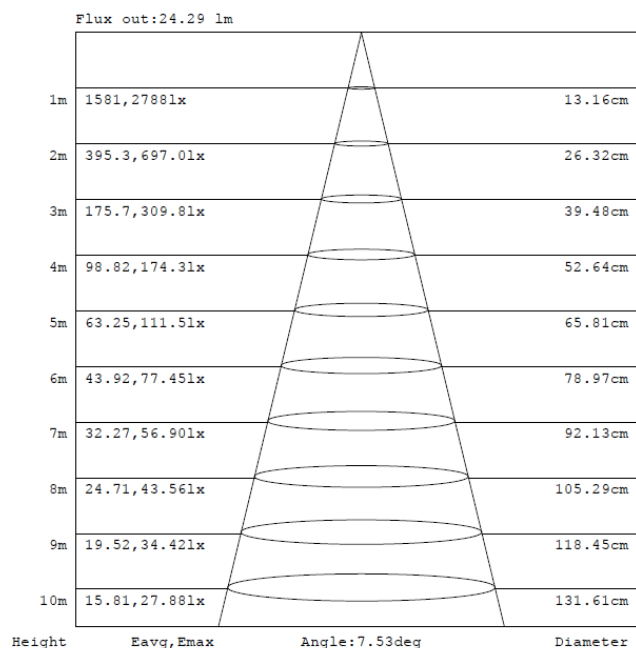
Total Beam Angle(°)
8.9

Illumination Plots

Model No.: SLPD26927X

Mount Height: 2.5 m

Illuminance - Cone of Light



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TEST REPORT

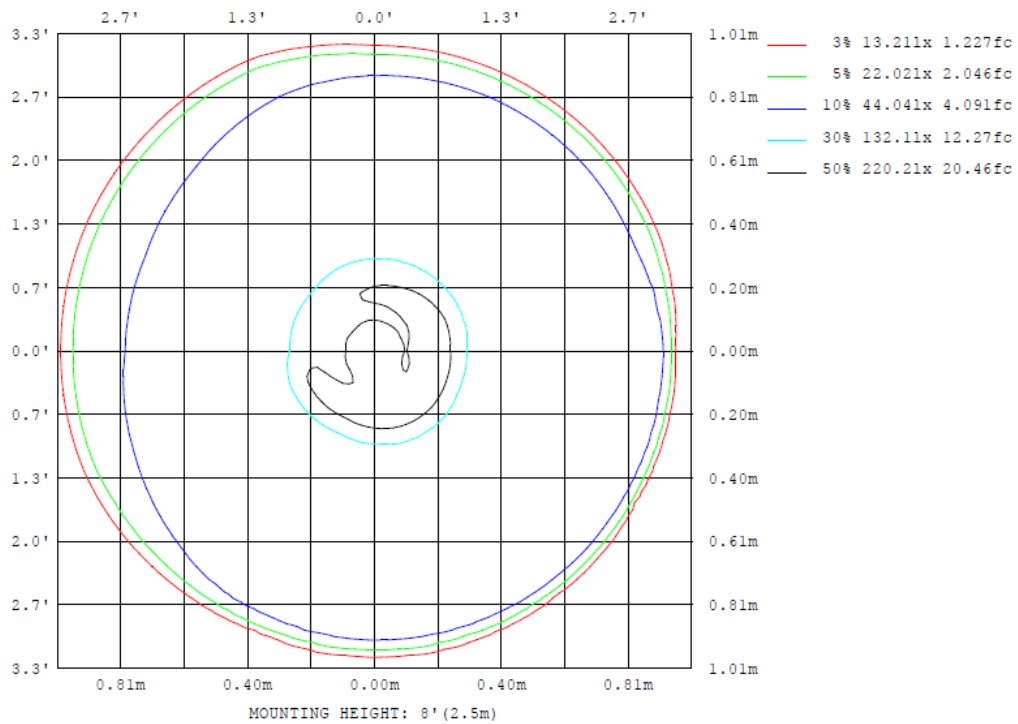
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26927X

Model No.: SLPD26927X

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26927X

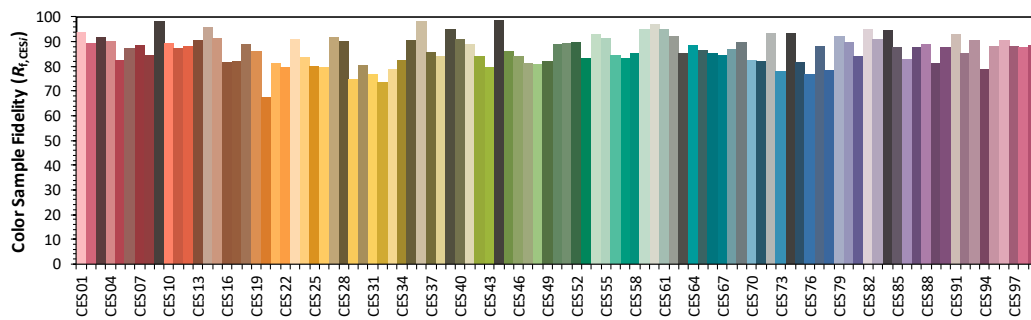
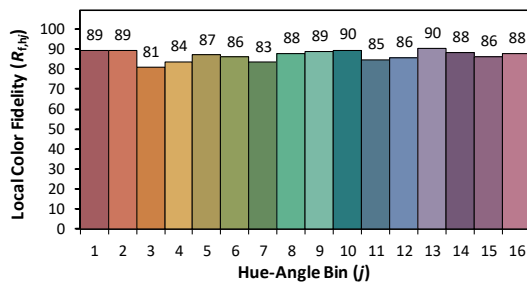
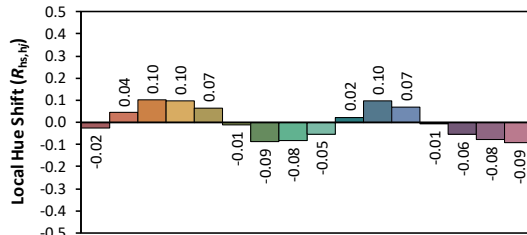
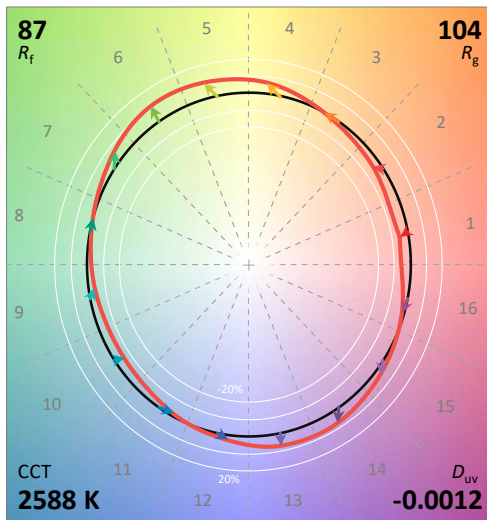
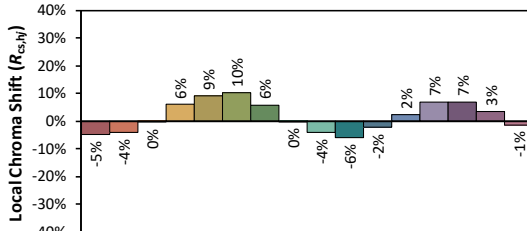
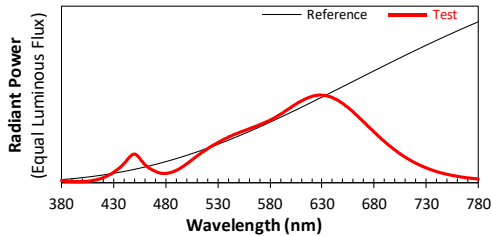
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort and Company

Date: 2024/1/24

Model: SLPD26927X



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

x 0.4672
 y 0.4089
 u' 0.2680
 v' 0.5278

CIE 13.3-1995
(CRI)
 R_a 90
 R_g 59

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 SLPD26927X

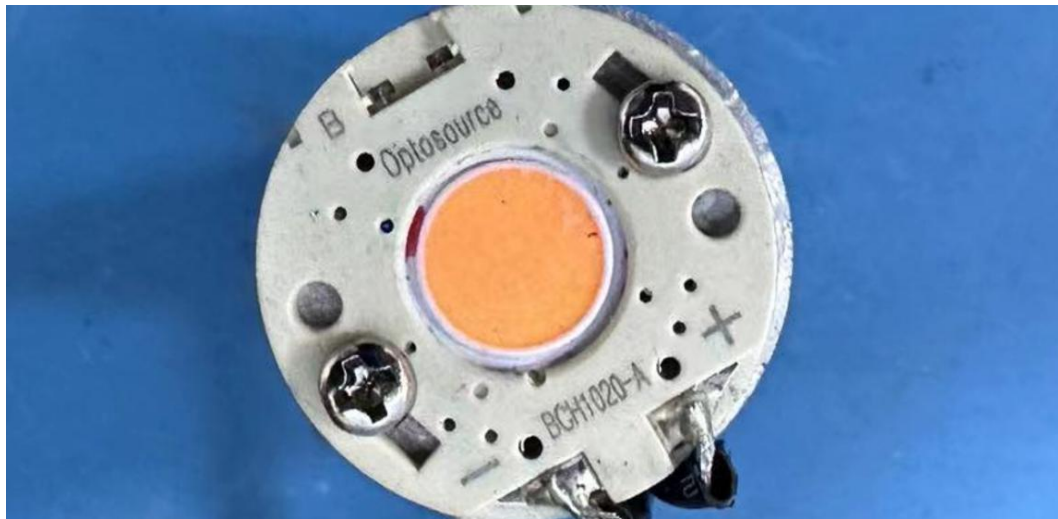
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TEST REPORT

PRODUCT PICTURE (not to scale)



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 *****