

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

260128102GZU-002

ISSUE DATE

10 February 2026

REVISION DATE

None

NUMBER OF PAGES

13

DOCUMENT CONTROL NUMBER

Report format for LM-79_G

© 2024 INTERTEK



Report No.: 260128102GZU-002

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLPD26827X

Remark: "X" 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: 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 SLPD26827X. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S231228020-002.
<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>	22 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

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

TEST REPORT

SUMMARY

Model Number:	SLPD26827X
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLPD26827X

Criteria	Result
Total Lumen Output	382.0 lm
Total Power	11.0 W
Luminaire Efficacy	34.8 lm/W
S/MH(C0/180)	0.35
S/MH(C90/270)	0.40
Correlated Color Temperature (CCT)	2626 K
Color Rendering Index (CRI)	90
R9	62
Chromaticity Coordinate (x)	0.4637
Chromaticity Coordinate (y)	0.4079
Chromaticity Coordinate (u')	0.2662
Chromaticity Coordinate (v')	0.5269

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 *****

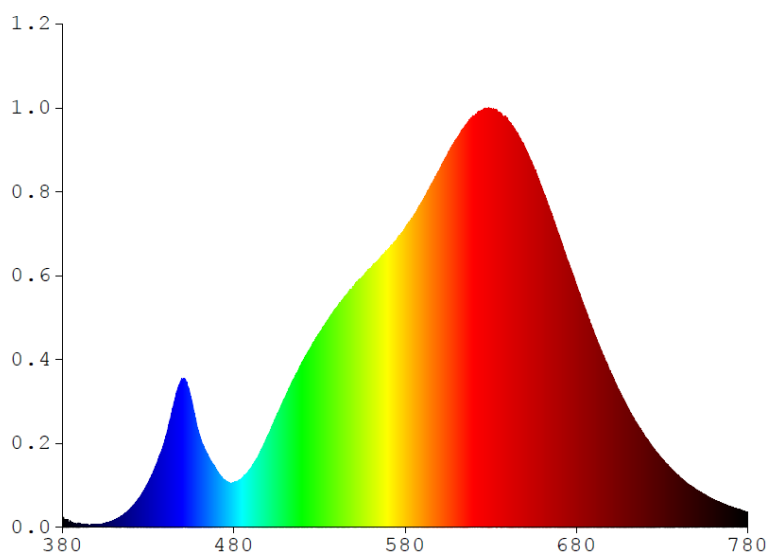
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLPD26827X

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.1624	480	0.9966	580	6.6969	680	5.4254	780	0.3284
385	0.1138	485	1.1033	585	6.9710	685	4.8980		
390	0.0772	490	1.3241	590	7.3013	690	4.4027		
395	0.0553	495	1.6507	595	7.6522	695	3.9068		
400	0.0679	500	2.0537	600	7.9912	700	3.4584		
405	0.0928	505	2.4917	605	8.3660	705	3.0576		
410	0.1542	510	2.9112	610	8.7000	710	2.6774		
415	0.2601	515	3.3141	615	8.9919	715	2.3462		
420	0.4272	520	3.6939	620	9.2075	720	2.0305		
425	0.6611	525	4.0282	625	9.3163	725	1.7638		
430	0.9954	530	4.3422	630	9.3635	730	1.5304		
435	1.4173	535	4.6438	635	9.2944	735	1.3268		
440	1.9728	540	4.9207	640	9.1207	740	1.1409		
445	2.7573	545	5.1788	645	8.8537	745	0.9704		
450	3.3109	550	5.3914	650	8.5054	750	0.8418		
455	2.8856	555	5.6085	655	8.0691	755	0.7277		
460	2.0552	560	5.8030	660	7.5849	760	0.6267		
465	1.6034	565	5.9934	665	7.0676	765	0.5357		
470	1.2782	570	6.2221	670	6.5337	770	0.4615		
475	1.0440	575	6.4304	675	5.8645	775	0.3994		



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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26827X

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

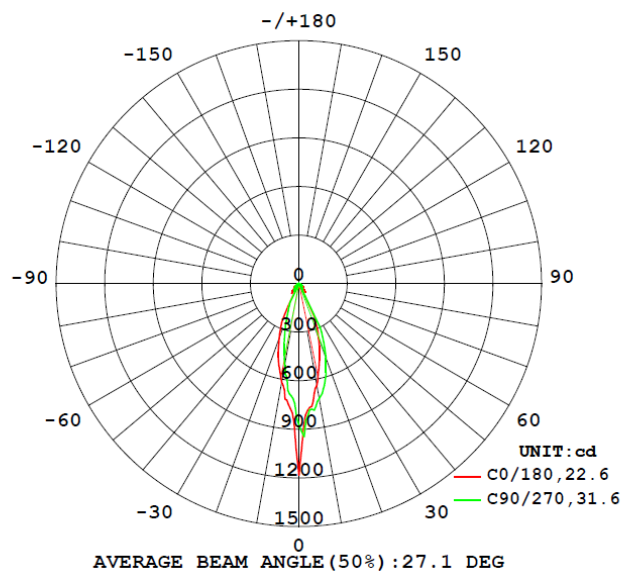
Photometric Measurements at 25°C – Distribution Method

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')
SLPD26827X								
S2312280 20-002	base-up	2626	90	62	0.4637	0.4079	0.2662	0.5269

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)
SLPD26827X							
S2312280 20-002	base-up	120.1	92.3	11.0	0.99	382.0	34.8

Intensity (Candlepower) Summary at 25°C - Candelas



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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26827X

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	278.9	278.4	217.9	215.5	206.2
5	181.4	181.0	182.4	182.9	184.8
10	151.5	154.3	160.6	165.5	170.3
15	115.6	120.6	125.8	133.2	147.2
20	84.2	91.6	96.9	102.4	115.7
25	54.3	60.8	65.2	68.0	77.9
30	0.5	0.4	0.3	0.3	5.2
35	10.4	11.7	15.5	15.3	3.4
40	13.1	14.0	14.7	12.5	7.7
45	10.2	10.7	11.0	8.7	5.2
50	8.5	8.9	9.3	7.3	4.2
55	8.9	9.1	9.6	7.7	4.5
60	4.5	4.8	4.8	3.3	3.8
65	3.1	3.2	3.2	2.1	1.5
70	2.0	2.1	2.1	1.3	0.9
75	1.1	1.1	1.1	0.7	0.4
80	0.4	0.4	0.4	0.3	0.2
85	0.1	0.2	0.1	0.2	0.1
90	0.1	0.2	0.1	0.2	0.1
95	0.1	0.2	0.2	0.2	0.1
100	0.2	0.2	0.2	0.2	0.2
105	0.2	0.2	0.2	0.2	0.2
110	0.2	0.2	0.2	0.3	0.2
115	0.2	0.2	0.3	0.3	0.3
120	0.1	0.2	0.2	0.3	0.3
125	0.1	0.2	0.3	0.3	0.3
130	0.1	0.2	0.3	0.3	0.3
135	0.1	0.2	0.3	0.3	0.3
140	0.2	0.2	0.3	0.3	0.3
145	0.2	0.3	0.3	0.4	0.4
150	0.2	0.3	0.3	0.4	0.4
155	0.2	0.4	0.4	0.5	0.4
160	0.3	0.4	0.4	0.5	0.5
165	0.3	0.4	0.5	0.5	0.5
170	0.3	0.5	0.5	0.5	0.5
175	0.3	0.4	0.6	0.6	0.6
180	0.0	0.0	0.0	0.2	0.4

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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26827X

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLPD26827X		
0-30	283.1	74.1
0-40	304.2	79.7
0-60	360.2	94.3
0-90	376.5	98.6
60-90	16.3	4.3
0-180	382.0	100.0

Beam Angle

Total Beam Angle(°)

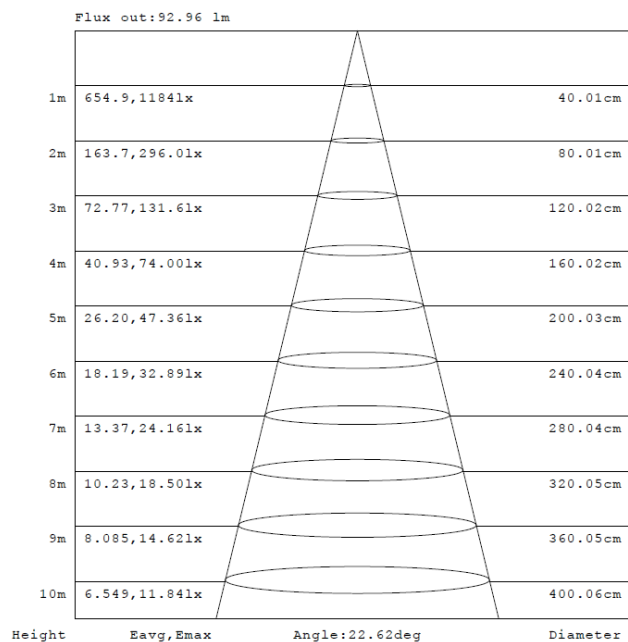
27.1

Illumination Plots

Model No.: SLPD26827X

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.

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

TEST REPORT

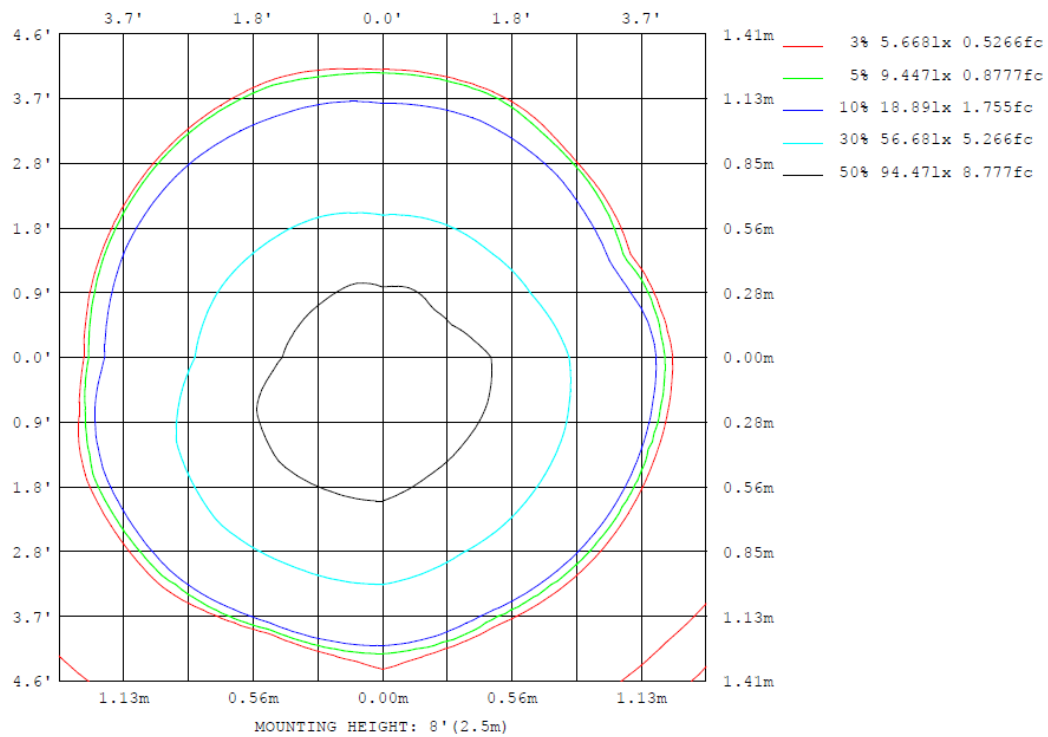
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26827X

Model No.: SLPD26827X

Mount Height: 2.5 m

Isoillumination Plot



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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26827X

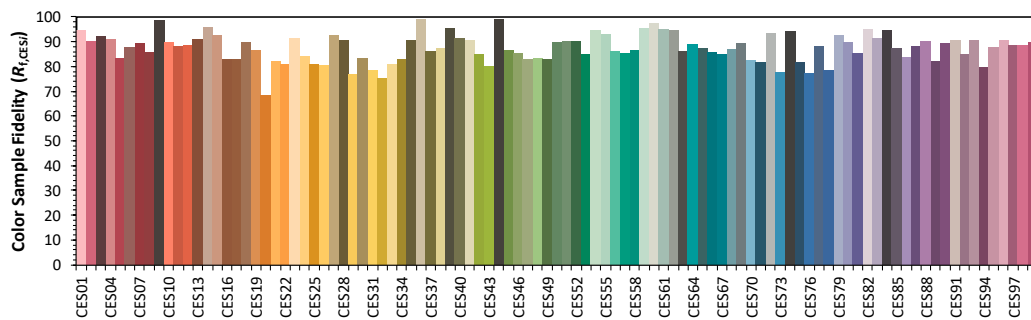
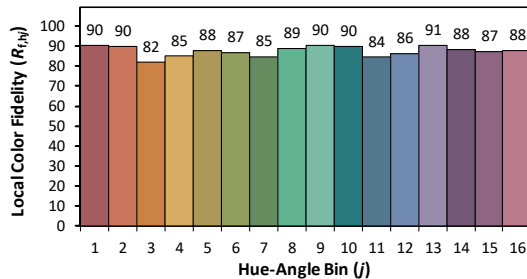
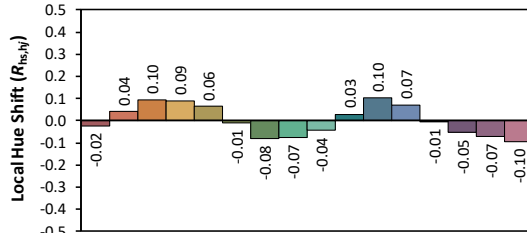
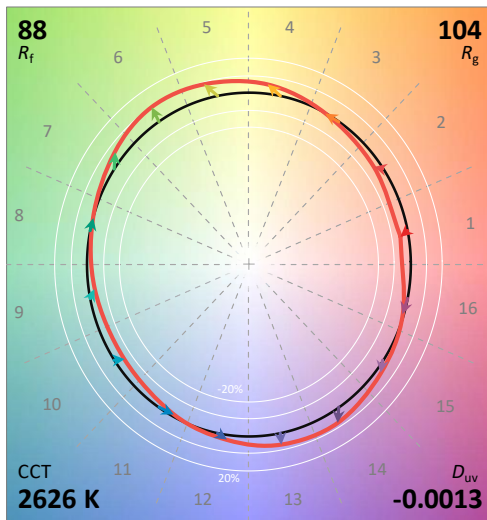
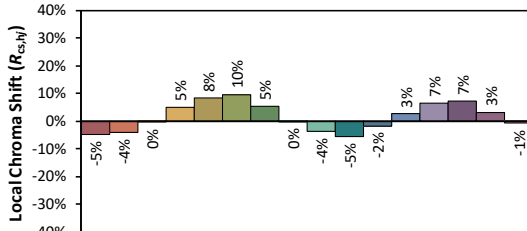
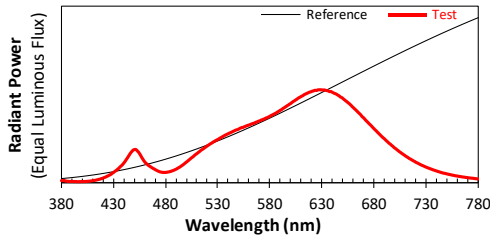
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort and Company

Date: 2024/1/22

Model: SLPD26827X



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

x 0.4637
 y 0.4079
 u' 0.2662
 v' 0.5269

CIE 13.3-1995
(CRI)
 R_a 90
 R_g 62

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 SLPD26827X

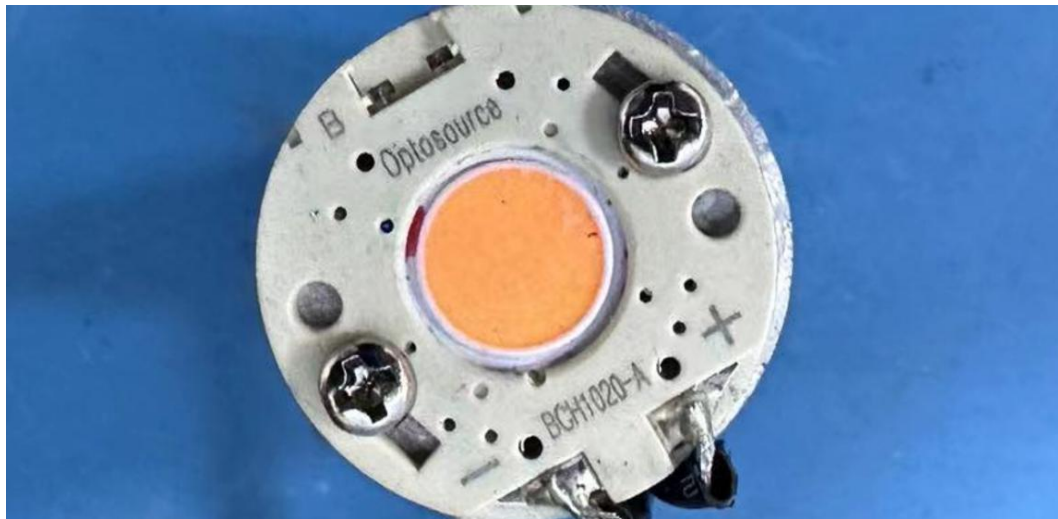
***** End of Page *****

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 *****