

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

260128102GZU-001

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-001

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLPD26727X

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 SLPD26727X. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S231228020-001.
<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>	23 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:	SLPD26727X
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLPD26727X

Criteria	Result
Total Lumen Output	415.4 lm
Total Power	10.9 W
Luminaire Efficacy	38.3 lm/W
S/MH(C0/180)	0.67
S/MH(C90/270)	0.73
Correlated Color Temperature (CCT)	2647 K
Color Rendering Index (CRI)	90
R9	60
Chromaticity Coordinate (x)	0.4633
Chromaticity Coordinate (y)	0.4100
Chromaticity Coordinate (u')	0.2650
Chromaticity Coordinate (v')	0.5276

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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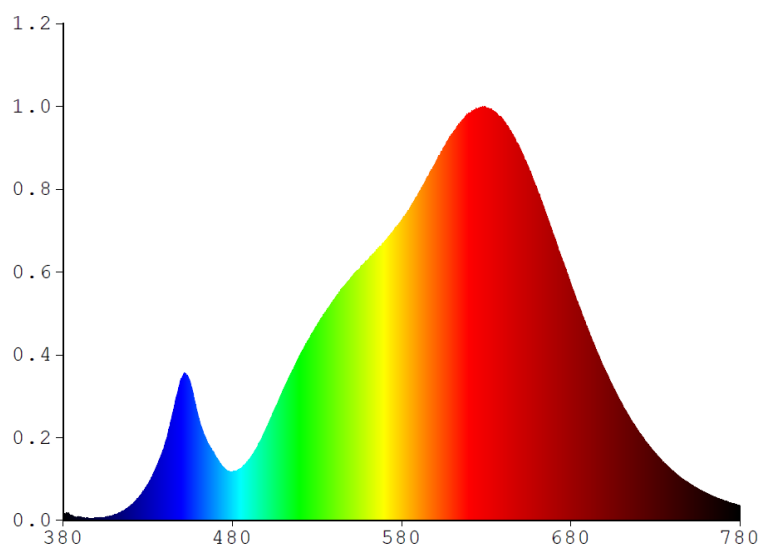
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLPD26727X

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.1504	480	0.9556	580	5.9133	680	4.6731	780	0.2931
385	0.0947	485	1.0299	585	6.1563	685	4.2195		
390	0.0621	490	1.2011	590	6.4448	690	3.7778		
395	0.0415	495	1.4656	595	6.7462	695	3.3665		
400	0.0564	500	1.8113	600	7.0317	700	2.9804		
405	0.0716	505	2.1889	605	7.3526	705	2.6346		
410	0.1017	510	2.5669	610	7.6269	710	2.3173		
415	0.1817	515	2.9150	615	7.8465	715	2.0244		
420	0.2993	520	3.2551	620	8.0323	720	1.7656		
425	0.4715	525	3.5624	625	8.1057	725	1.5309		
430	0.7101	530	3.8342	630	8.1300	730	1.3241		
435	1.0477	535	4.1098	635	8.0578	735	1.1486		
440	1.4818	540	4.3533	640	7.9019	740	0.9846		
445	2.1435	545	4.5794	645	7.6401	745	0.8459		
450	2.7994	550	4.7751	650	7.3382	750	0.7334		
455	2.7224	555	4.9526	655	6.9557	755	0.6293		
460	2.0258	560	5.1169	660	6.5470	760	0.5419		
465	1.5591	565	5.3124	665	6.0855	765	0.4635		
470	1.2680	570	5.4978	670	5.6085	770	0.4016		
475	1.0437	575	5.6955	675	5.0571	775	0.3429		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26727X

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

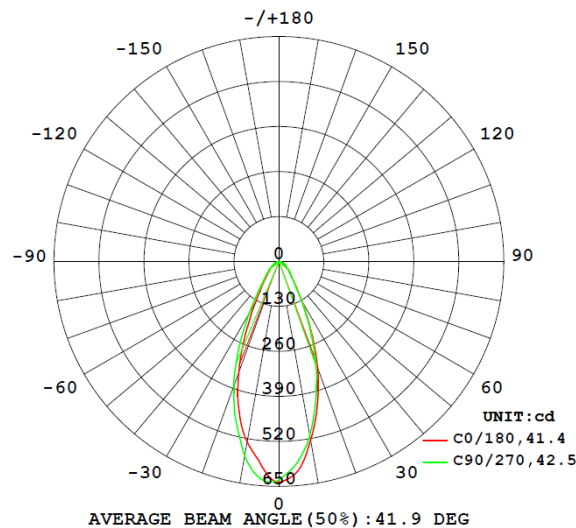
Photometric Measurements at 25°C – Distribution Method

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')
SLPD26727X								
S2312280 20-001	base-up	2647	90	60	0.4633	0.4100	0.2650	0.5276

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	Lumen Efficacy
						Flux (Lumens)	(Lumens Per Watt)
SLPD26727X							
S2312280 20-001	base-up	120.0	91.3	10.9	0.99	415.4	38.3

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26727X

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	150.5	150.5	149.4	149.1	149.0
5	143.9	143.7	141.2	140.4	138.5
10	124.0	124.3	126.0	126.2	120.8
15	101.7	103.0	104.0	103.5	97.5
20	77.0	79.1	76.2	73.9	73.3
25	51.9	54.8	51.4	49.3	49.3
30	31.8	34.4	32.1	30.7	30.3
35	19.8	21.5	19.7	19.0	18.7
40	13.7	15.3	13.5	13.2	13.1
45	10.0	12.2	9.9	9.9	10.3
50	7.9	7.7	6.7	6.7	7.4
55	6.1	3.9	6.0	5.9	5.9
60	4.8	1.7	4.8	4.6	4.5
65	3.6	1.1	3.6	3.4	3.3
70	2.3	0.7	2.3	2.2	2.0
75	1.2	0.3	1.1	1.0	0.9
80	0.4	0.0	0.2	0.2	0.2
85	0.0	0.0	0.0	0.0	0.0
90	0.0	0.0	0.0	0.0	0.0
95	0.0	0.0	0.0	0.0	0.0
100	0.0	0.0	0.0	0.0	0.0
105	0.0	0.0	0.0	0.0	0.0
110	0.0	0.0	0.0	0.0	0.0
115	0.0	0.0	0.0	0.0	0.0
120	0.0	0.0	0.0	0.0	0.0
125	0.0	0.0	0.0	0.0	0.0
130	0.0	0.0	0.1	0.1	0.1
135	0.1	0.1	0.1	0.1	0.1
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	0.1	0.1
160	0.1	0.1	0.1	0.1	0.1
165	0.1	0.1	0.1	0.1	0.1
170	0.1	0.1	0.1	0.1	0.1
175	0.1	0.1	0.1	0.1	0.1
180	0.1	0.1	0.1	0.1	0.1

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26727X

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLPD26727X		
0-30	283.9	68.4
0-40	341.0	82.1
0-60	396.1	95.4
0-90	414.2	99.7
60-90	18.1	4.3
0-180	415.4	100.0

Beam Angle

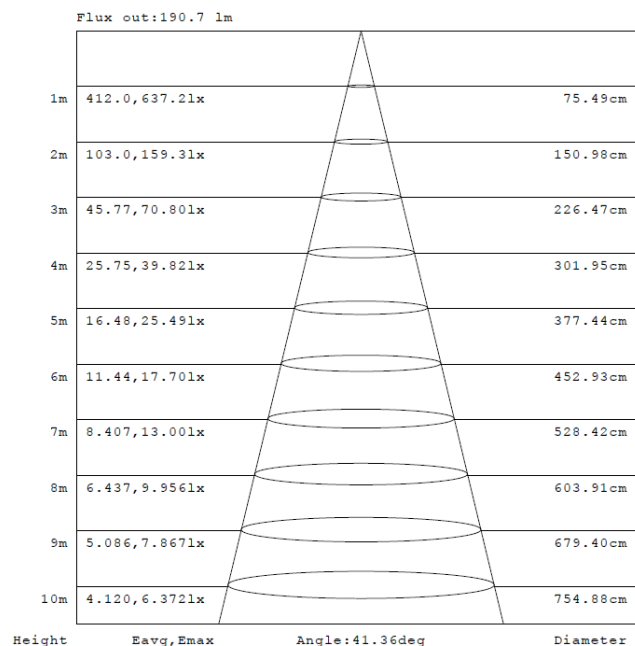
Total Beam Angle(°)
41.9

Illumination Plots

Model No.: SLPD26727X

Mount Height: 2.5 m

Illuminance - Cone of Light



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TEST REPORT

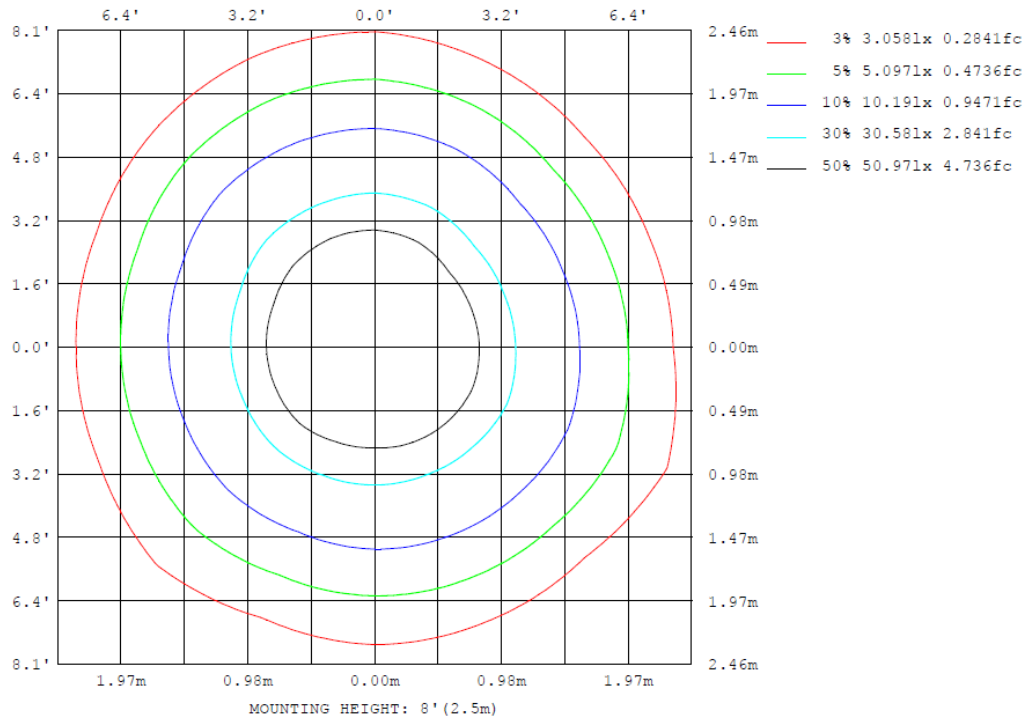
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26727X

Model No.: SLPD26727X

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD26727X

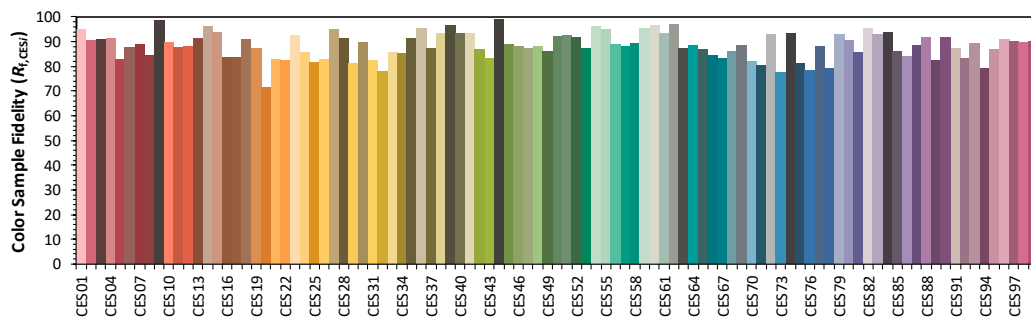
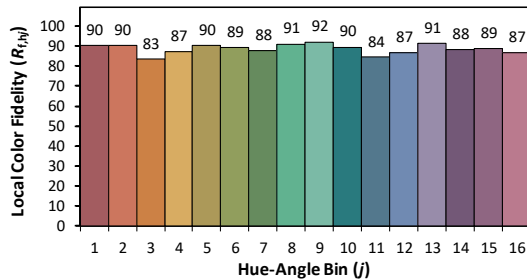
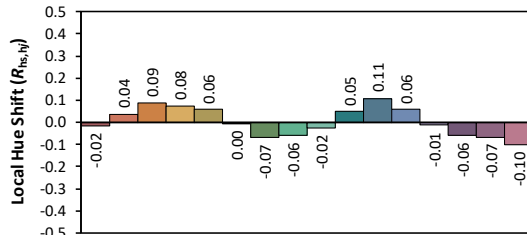
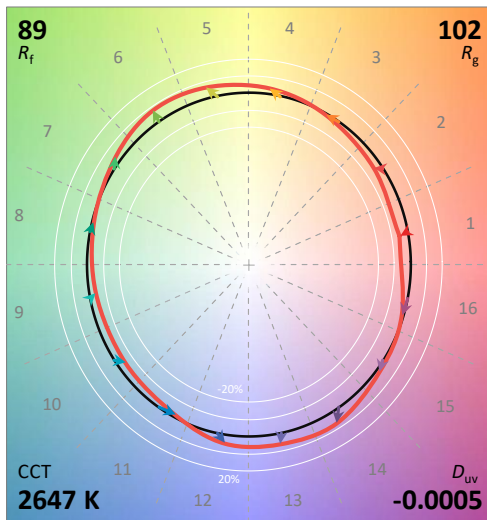
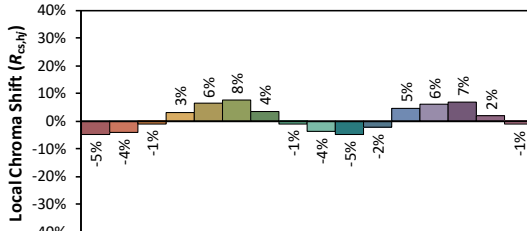
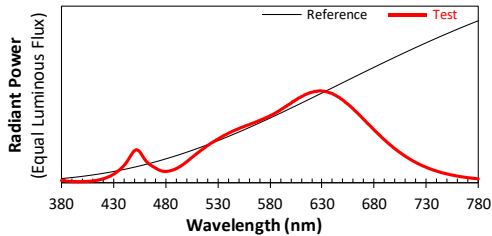
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort and Company

Date: 2024/1/23

Model: SLPD26727X



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

x 0.4633
 y 0.4100
 u' 0.2650
 v' 0.5276

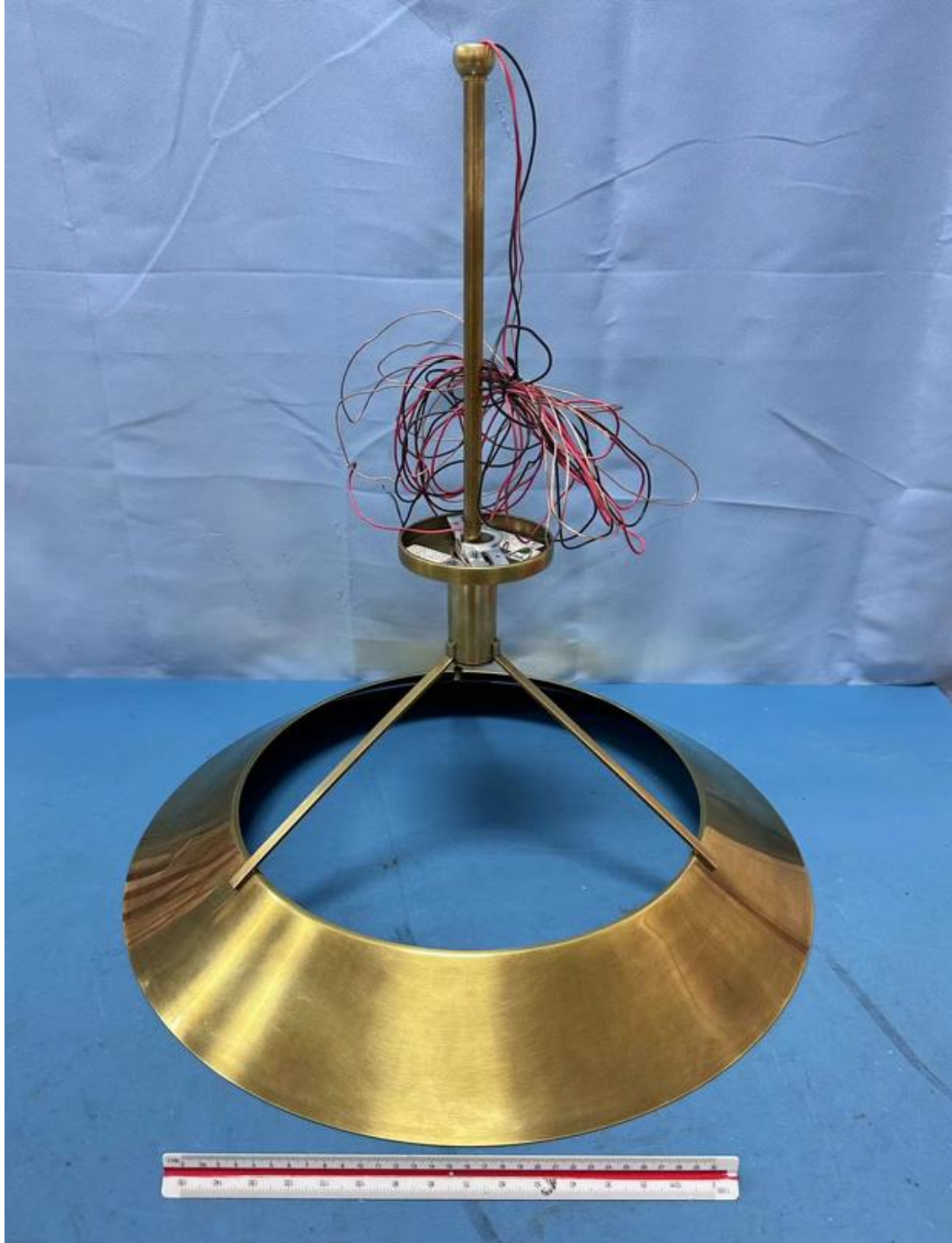
CIE 13.3-1995
(CRI)
 R_a 90
 R_g 60

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 SLPD26727X

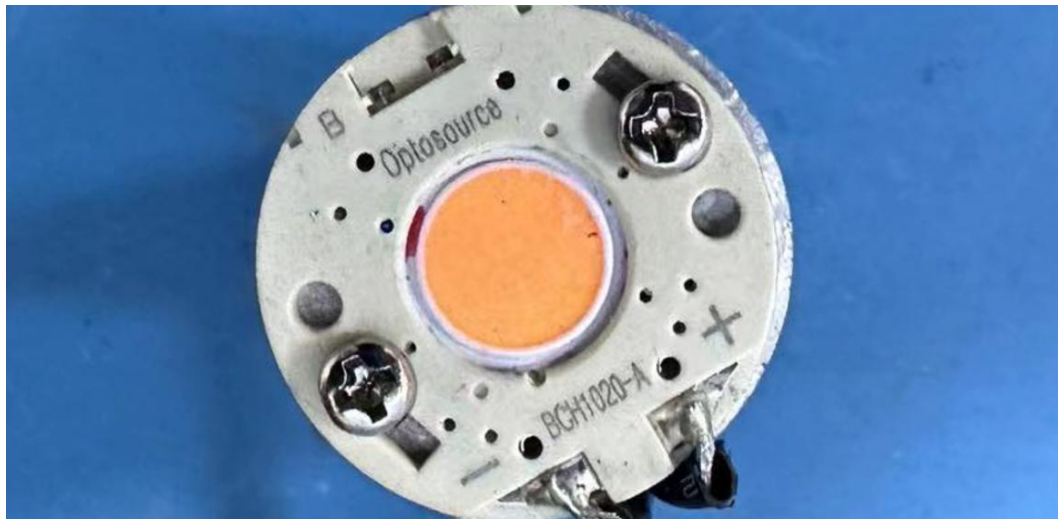
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TEST REPORT

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 *****