

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251027067GZU-010

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REVISION DATE

None

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Report format for LM-79_G

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Report No.: 251027067GZU-010

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLV82927XXCG

Remark: "XXX" 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: QGZ251023107.
<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 SLV82927XXCG. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251027067-023.
<u>MANUFACTURER /FACTORY & ADDRESS:</u>	Guangzhou Xiongyi Precision Metalworking Co., Ltd Hantang Industrial Zone, Langbian Village, Shiji Town, Panyu District, Guangzhou City, Guangdong Province, China 511450
<u>DATES OF TESTS:</u>	05 February 2026
<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:	SLV82927XXXCG
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLV82927XXXCG

Criteria	Result
Total Lumen Output	604.9 lm
Total Power	26.3 W
Luminaire Efficacy	23.0 lm/W
S/MH(C0/180)	1.42
S/MH(C90/270)	0.31
Correlated Color Temperature (CCT)	2325 K
Color Rendering Index (CRI)	91
R9	43
Chromaticity Coordinate (x)	0.4915
Chromaticity Coordinate (y)	0.4124
Chromaticity Coordinate (u')	0.2822
Chromaticity Coordinate (v')	0.5328

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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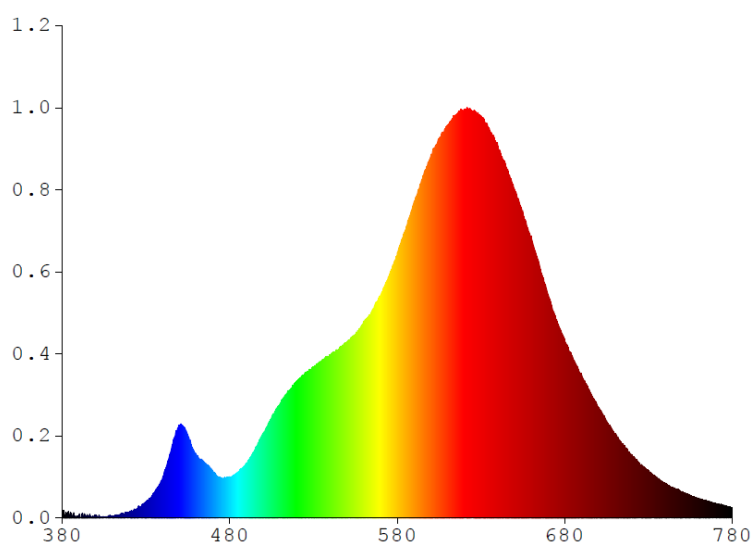
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLV82927XXXCG

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.2465	480	0.9542	580	6.1027	680	4.1111	780	0.2387
385	0.1275	485	1.0630	585	6.6680	685	3.6852		
390	0.0351	490	1.2609	590	7.2949	690	3.3344		
395	0.0777	495	1.5764	595	7.8468	695	2.9057		
400	0.0219	500	1.9568	600	8.3595	700	2.5711		
405	0.0200	505	2.3106	605	8.7880	705	2.2468		
410	0.0420	510	2.6376	610	9.0950	710	1.9501		
415	0.0934	515	2.9463	615	9.3251	715	1.6959		
420	0.1382	520	3.1716	620	9.4529	720	1.4652		
425	0.2057	525	3.3640	625	9.4154	725	1.2418		
430	0.3536	530	3.5020	630	9.3264	730	1.0963		
435	0.5804	535	3.6422	635	9.0157	735	0.9404		
440	0.9291	540	3.7691	640	8.6299	740	0.8028		
445	1.5473	545	3.8959	645	8.1280	745	0.6859		
450	2.1590	550	4.0765	650	7.6100	750	0.6030		
455	1.9078	555	4.2422	655	7.0873	755	0.5252		
460	1.4639	560	4.5512	660	6.5148	760	0.4588		
465	1.2844	565	4.7916	665	5.8420	765	0.3799		
470	1.0735	570	5.1476	670	5.1806	770	0.3330		
475	0.9311	575	5.5913	675	4.4819	775	0.2929		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV82927XXXCG

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

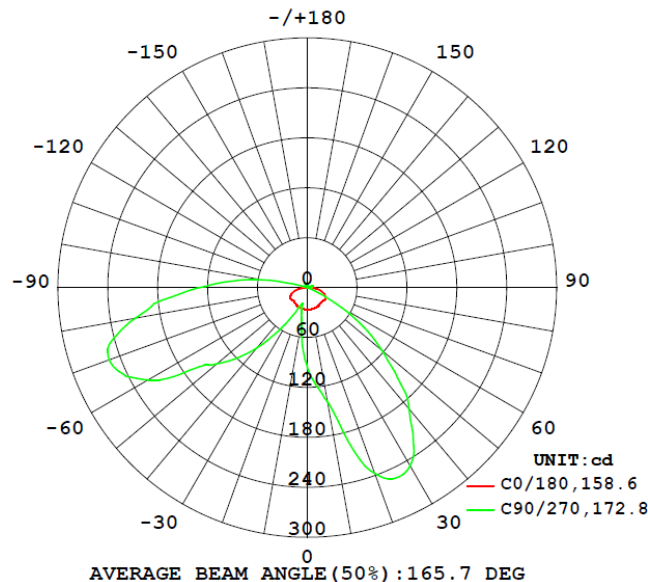
Photometric Measurements at 25°C – Distribution Method

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')
SLV82927XXXCG								
S2510270 67-023	base-up	2325	91	43	0.4915	0.4124	0.2822	0.5328

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)
SLV82927XXXCG							
S2510270 67-023	base-up	120.1	220.0	26.3	0.99	604.9	23.0

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV82927XXXCG

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	26.7	23.3	59.1	86.1	96.0
5	26.7	28.5	75.5	105.4	116.7
10	26.7	34.3	89.9	124.1	138.9
15	26.6	41.1	104.7	159.8	192.4
20	26.4	48.7	129.4	213.4	237.3
25	26.4	57.2	165.4	232.3	252.3
30	26.0	66.2	179.6	232.4	247.2
35	25.3	75.1	177.7	214.4	222.5
40	24.7	79.3	162.9	183.1	190.3
45	24.5	89.4	134.1	151.0	153.7
50	24.8	90.3	102.8	113.5	117.1
55	25.6	76.2	73.8	80.6	83.4
60	25.4	51.0	45.3	47.2	47.3
65	23.9	28.5	15.7	16.1	15.4
70	21.4	10.3	4.2	2.2	1.7
75	18.0	7.2	4.0	2.1	1.7
80	13.8	6.6	3.1	1.7	1.5
85	9.1	5.4	2.6	1.5	1.3
90	3.2	4.5	2.4	1.6	1.4
95	2.9	2.7	2.7	1.9	1.7
100	2.4	2.4	4.7	2.3	1.9
105	2.0	0.7	7.0	5.6	4.1
110	1.5	0.3	2.8	6.6	7.1
115	0.9	0.5	1.7	3.2	3.6
120	0.5	0.5	0.6	2.2	2.7
125	0.6	0.6	0.5	1.2	1.9
130	0.6	0.9	0.7	0.6	0.6
135	0.7	1.1	0.8	0.6	0.7
140	0.7	1.6	1.1	0.8	0.7
145	0.8	2.1	1.7	1.2	1.1
150	0.8	2.0	2.0	2.2	2.1
155	0.8	1.0	0.8	0.8	0.2
160	0.8	0.8	0.8	0.9	1.1
165	0.8	0.7	2.3	1.9	1.8
170	0.7	1.1	1.9	1.2	1.1
175	0.6	2.4	1.0	0.8	0.7
180	0.8	2.1	0.8	0.7	0.6

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV82927XXXCG

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLV82927XXXCG		
0-30	66.2	11.0
0-40	129.3	21.4
0-60	288.3	47.7
0-90	536.2	88.6
60-90	247.9	40.9
0-180	604.9	100.0

Beam Angle

Total Beam Angle(°)

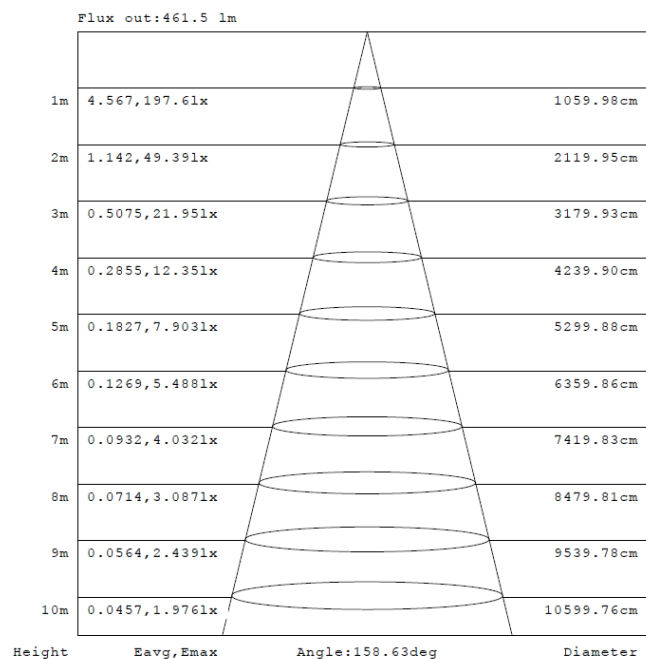
165.7

Illumination Plots

Model No.: SLV82927XXXCG

Mount Height: 2.5 m

Illuminance - Cone of Light



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TEST REPORT

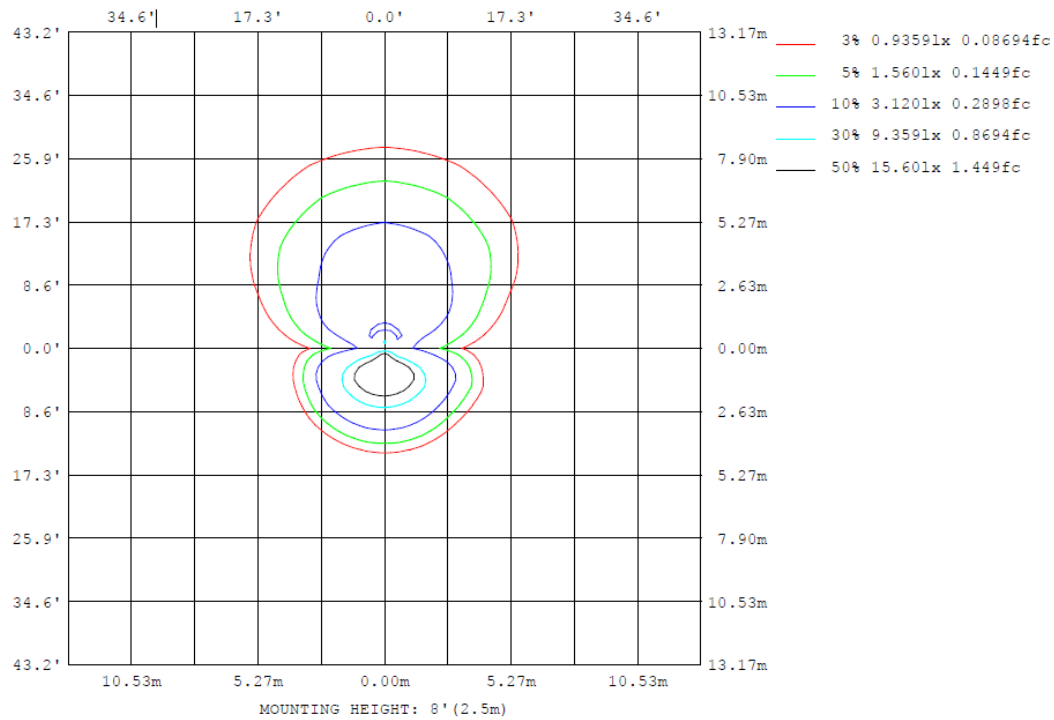
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV82927XXXCG

Model No.: SLV82927XXXCG

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV82927XXXCG

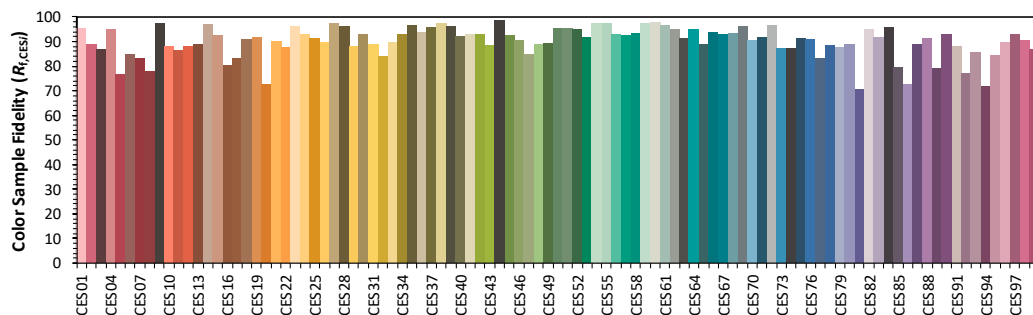
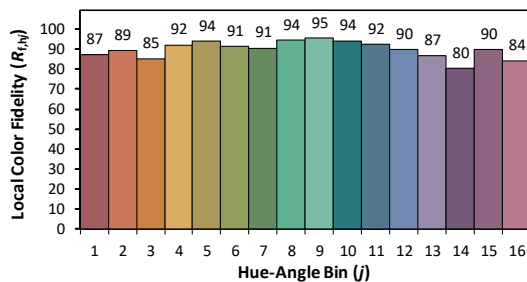
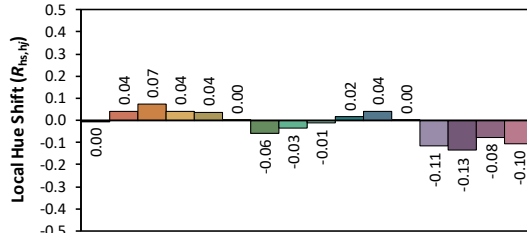
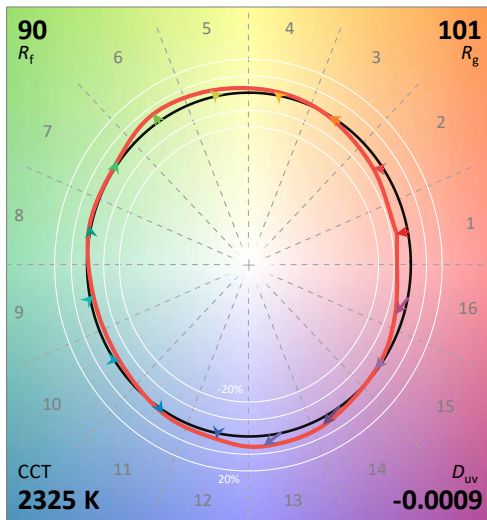
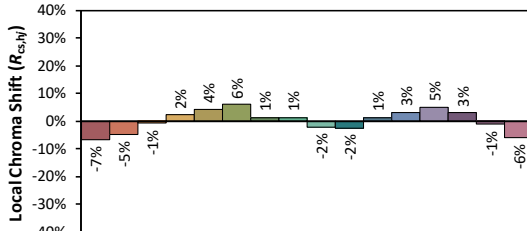
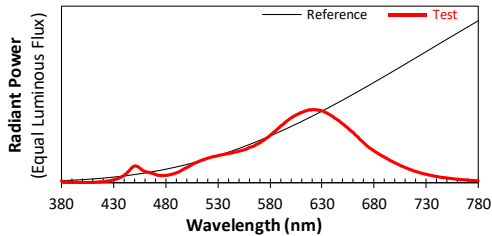
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2026/2/5

Model: SLV82927XXXCG



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

x 0.4915
 y 0.4124
 u' 0.2822
 v' 0.5328

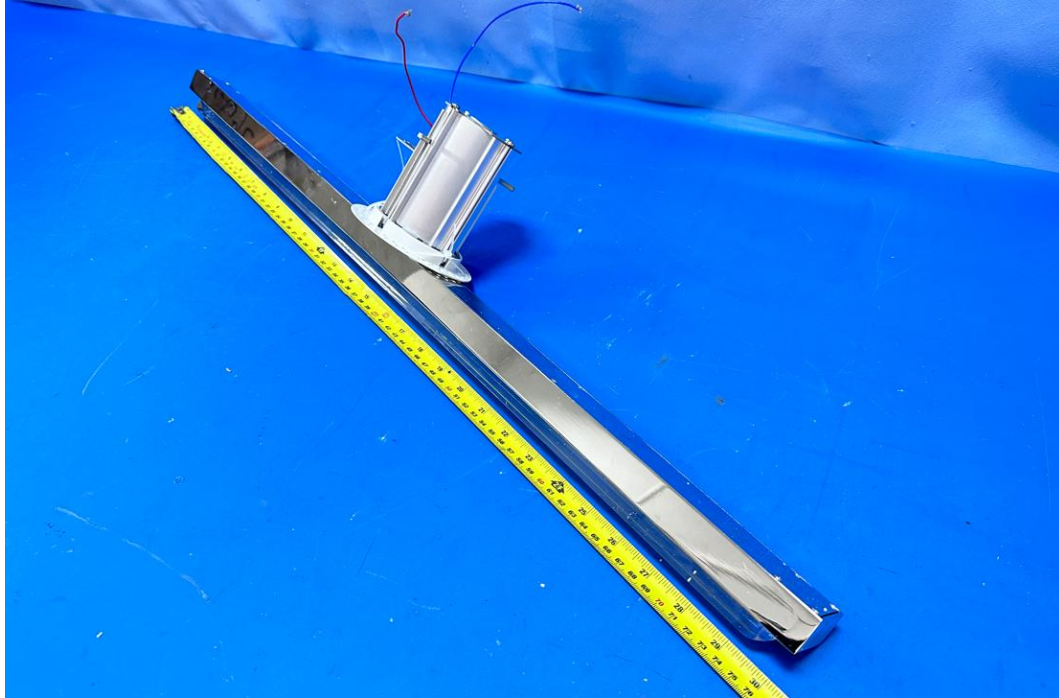
CIE 13.3-1995
(CRI)
 R_a 91
 R_g 43

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

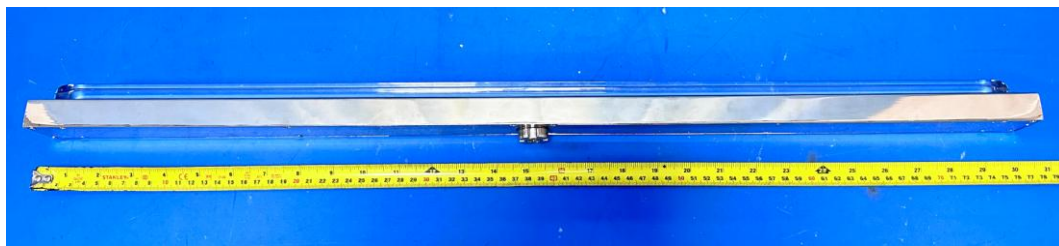
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLV82927XXXCG



External view of SLV82927XXXCG

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TEST REPORT

PRODUCT PICTURE (not to scale)



View of LED driver PVD27-C070V38-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 *****