

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-009

ISSUE DATE

31 December 2025

REVISION DATE

None

NUMBER OF PAGES

13

DOCUMENT CONTROL NUMBER

Report format for LM-79_G

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Report No.: 251110010GZU-009

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLV84327XXXCA

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: QGZ251106008.

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 SLV84327XXXCA. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-005.

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: 28 November 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:	SLV84327XXXCA
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLV84327XXXCA

Criteria	Result
Total Lumen Output	927.1 lm
Total Power	14.6 W
Luminaire Efficacy	63.6 lm/W
S/MH(C0/180)	4.06
S/MH(C90/270)	1.58
Correlated Color Temperature (CCT)	2532 K
Color Rendering Index (CRI)	93
R9	74
Chromaticity Coordinate (x)	0.4716
Chromaticity Coordinate (y)	0.4090
Chromaticity Coordinate (u')	0.2709
Chromaticity Coordinate (v')	0.5285

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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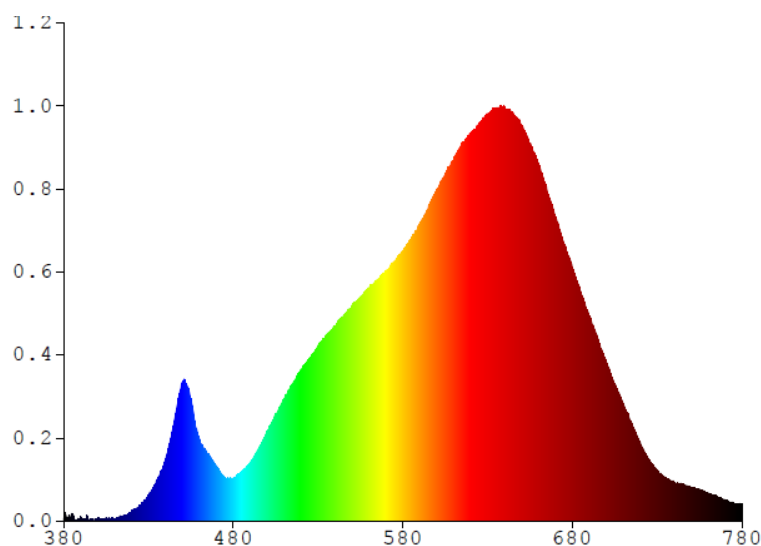
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLV84327XXXCA

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.0000	480	0.9814	580	6.2029	680	5.8118	780	0.4008
385	0.1695	485	1.1330	585	6.4829	685	5.2529		
390	0.1030	490	1.3431	590	6.8313	690	4.6870		
395	0.0000	495	1.6652	595	7.1777	695	4.1883		
400	0.0579	500	2.0623	600	7.6226	700	3.6559		
405	0.0678	505	2.4605	605	7.9745	705	3.1528		
410	0.0563	510	2.8016	610	8.2941	710	2.6869		
415	0.1040	515	3.1566	615	8.6840	715	2.2435		
420	0.2173	520	3.4896	620	8.8885	720	1.7994		
425	0.3520	525	3.7528	625	9.1360	725	1.4229		
430	0.5947	530	4.0086	630	9.3588	730	1.1585		
435	0.9517	535	4.2506	635	9.4949	735	0.9983		
440	1.4110	540	4.4785	640	9.5101	740	0.8900		
445	2.2330	545	4.7135	645	9.3718	745	0.8448		
450	3.1877	550	4.9353	650	9.0854	750	0.7777		
455	2.7909	555	5.1539	655	8.6328	755	0.7236		
460	1.8827	560	5.3380	660	8.1808	760	0.6462		
465	1.5427	565	5.5558	665	7.5911	765	0.5738		
470	1.2708	570	5.7411	670	6.9782	770	0.4799		
475	1.0114	575	5.9569	675	6.2847	775	0.4152		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84327XXXCA

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

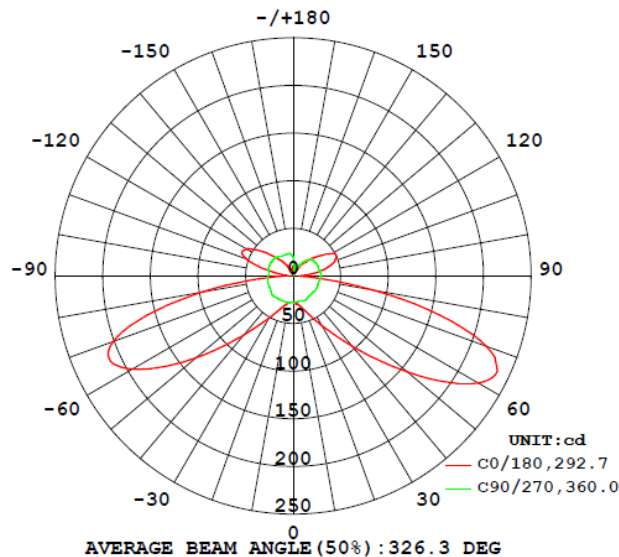
Photometric Measurements at 25°C – Distribution Method

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')
SLV84327XXXCA								
S2511100 10-005	base-up	2532	93	74	0.4716	0.4090	0.2709	0.5285

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)
SLV84327XXXCA							
S2511100 10-005	base-up	120.2	123.1	14.6	0.99	927.1	63.6

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84327XXXCA

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	28.3	30.7	31.5	29.1	28.1
5	29.2	34.1	33.1	28.9	27.3
10	30.5	39.5	37.4	29.2	27.2
15	34.4	46.4	40.7	30.4	27.6
20	40.2	54.9	45.3	31.9	28.1
25	48.5	66.9	51.3	33.2	28.6
30	59.9	83.5	58.2	34.0	28.5
35	75.4	102.4	65.4	34.2	27.3
40	95.8	123.9	72.1	34.9	27.1
45	123.0	149.7	78.0	35.1	27.0
50	156.6	172.6	84.6	36.5	27.0
55	193.3	186.6	92.7	37.6	27.7
60	224.5	196.2	97.8	38.9	27.9
65	236.5	200.2	102.6	39.5	27.8
70	215.7	203.3	107.4	40.0	27.9
75	160.2	205.6	108.9	39.8	27.6
80	85.1	211.5	109.5	39.8	27.9
85	24.8	225.3	106.5	40.0	28.5
90	7.3	228.1	99.8	39.9	29.2
95	14.1	222.6	88.6	38.9	29.5
100	27.7	209.1	76.7	36.4	28.7
105	38.4	178.6	71.4	34.2	28.0
110	46.9	149.4	64.4	33.5	28.0
115	50.2	120.4	55.1	32.3	28.3
120	47.8	92.9	48.3	30.0	27.3
125	39.1	65.4	41.6	28.9	27.1
130	31.7	44.2	35.4	27.0	26.2
135	25.0	31.2	28.2	25.1	25.1
140	17.9	22.6	22.2	21.8	21.5
145	14.0	16.8	18.3	18.4	18.1
150	9.5	13.3	13.8	14.0	13.5
155	6.8	5.1	9.0	10.4	10.6
160	5.5	2.3	9.5	10.1	5.9
165	4.6	9.4	9.4	3.4	9.5
170	4.2	9.9	4.1	7.5	11.0
175	9.0	5.8	2.5	13.8	14.6
180	11.1	1.8	14.7	18.1	18.9

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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84327XXXCA

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLV84327XXXCA		
0-30	31.5	3.4
0-40	64.4	6.9
0-60	195.9	21.1
0-90	514.3	55.5
60-90	318.4	34.4
0-180	927.1	100.0

Beam Angle

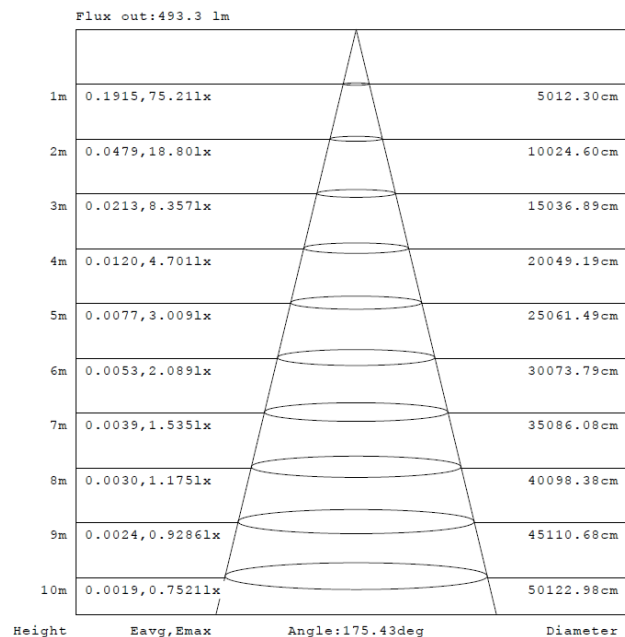
Total Beam Angle(°)
326.3

Illumination Plots

Model No.: SLV84327XXXCA

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.

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TEST REPORT

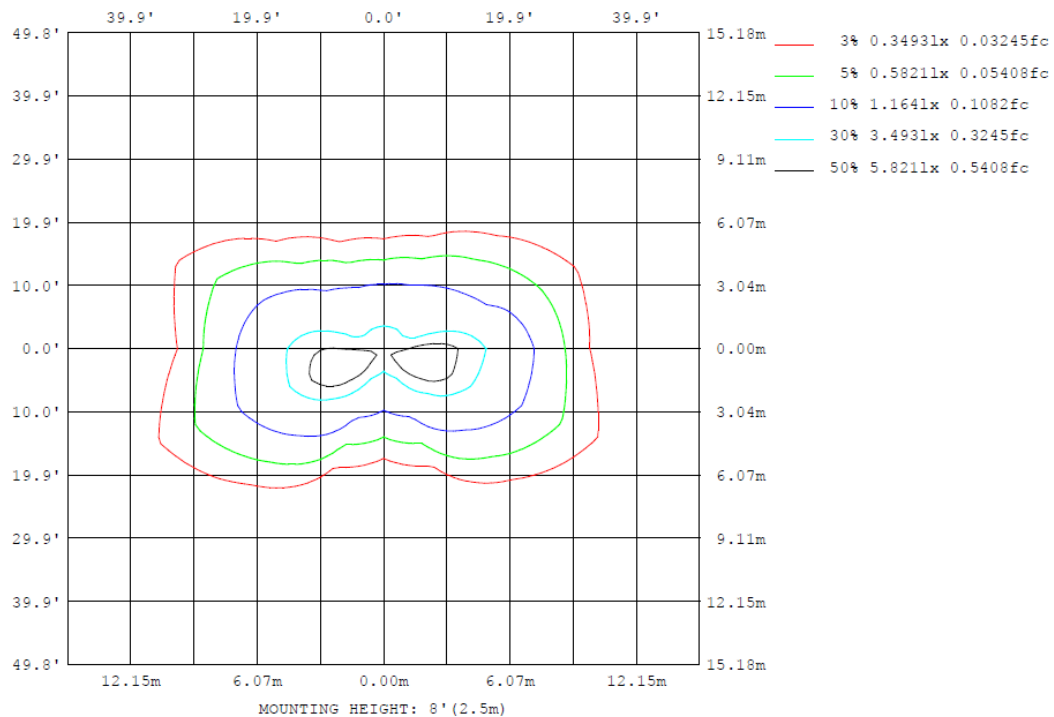
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84327XXXCA

Model No.: SLV84327XXXCA

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84327XXXCA

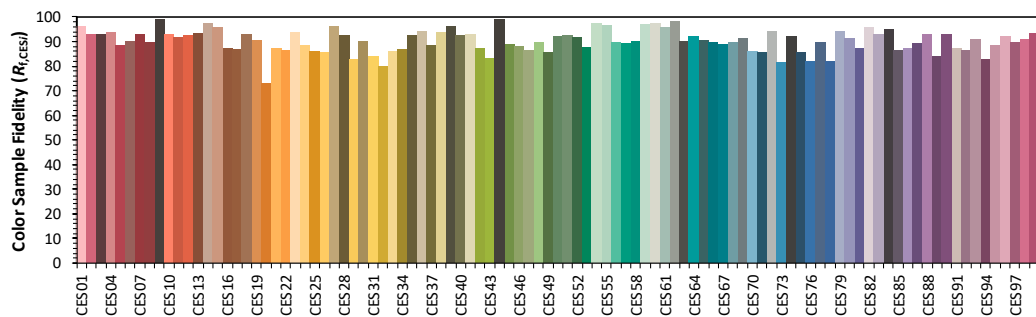
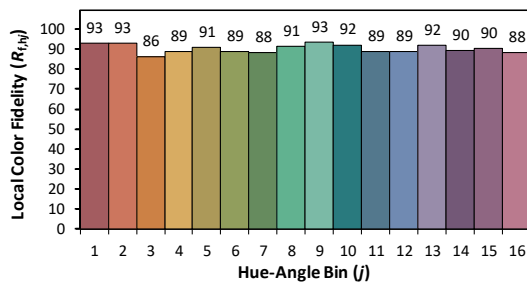
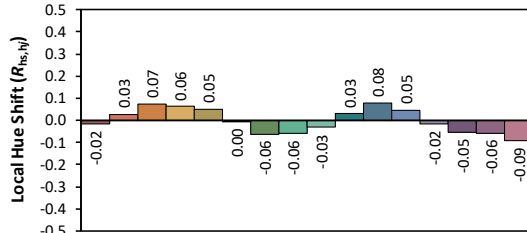
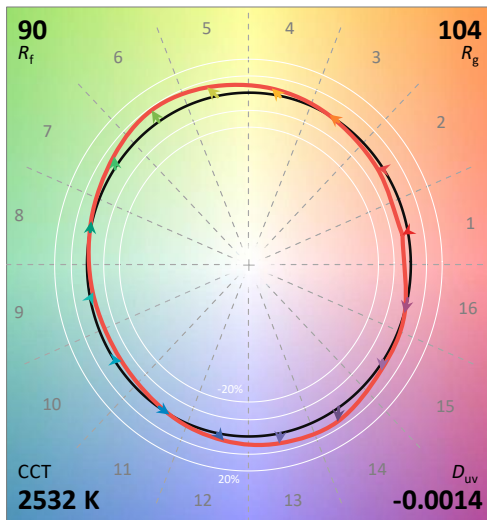
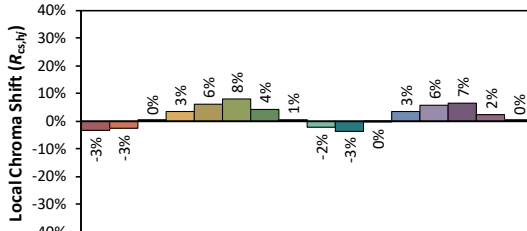
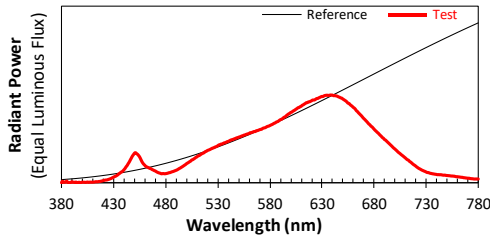
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/11/28

Model: SLV84327XXXCA



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

x 0.4716
 y 0.4090
 u' 0.2709
 v' 0.5285

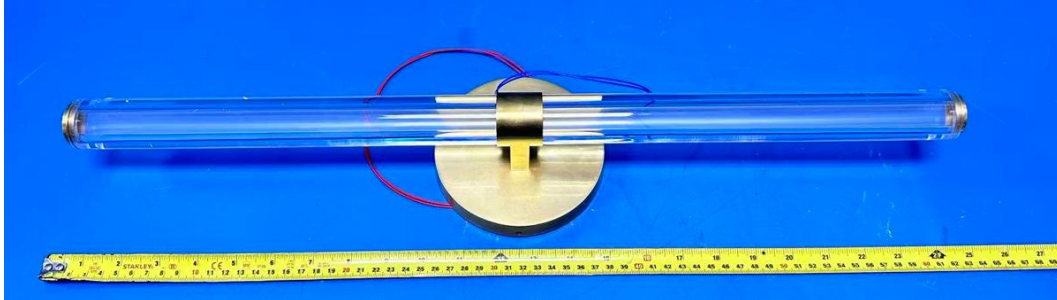
CIE 13.3-1995
(CRI)
 R_a 93
 R_g 74

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

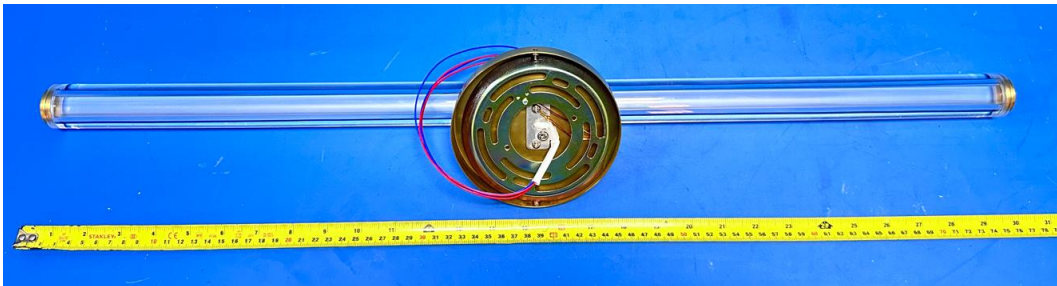
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TEST REPORT

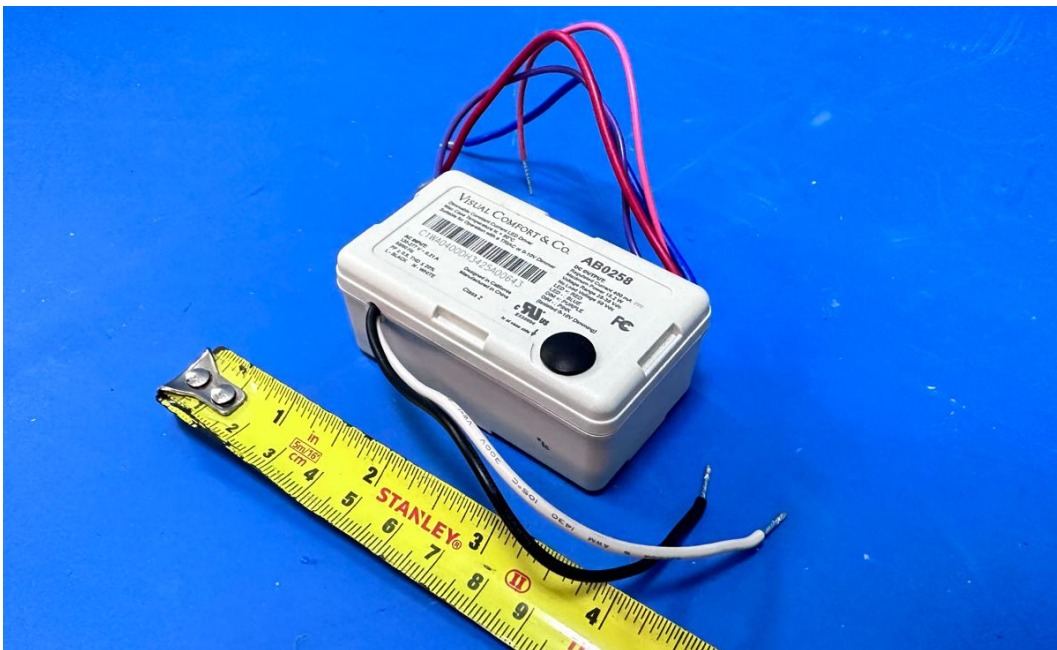
PRODUCT PICTURE (not to scale)



External view of SLV84327XXXCA



External view of SLV84327XXXCA



View of LED driver PTB20W-0400-38-VCC1 (AB0258)

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

TEST REPORT

PRODUCT PICTURE (not to scale)



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 *****