

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-028

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None

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Report No.: 251110010GZU-028

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLOWS85527XXX

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: QGZ251106008.
<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 SLOWS85527XXX. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-030.
<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>	17 December 2025
<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:	SLOWS85527XXX
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLOWS85527XXX

Criteria	Result
Total Lumen Output	337.7 lm
Total Power	11.5 W
Luminaire Efficacy	29.5 lm/W
S/MH(C0/180)	1.61
S/MH(C90/270)	1.44
Correlated Color Temperature (CCT)	2718 K
Color Rendering Index (CRI)	91
R9	63
Chromaticity Coordinate (x)	0.4581
Chromaticity Coordinate (y)	0.4098
Chromaticity Coordinate (u')	0.2617
Chromaticity Coordinate (v')	0.5268

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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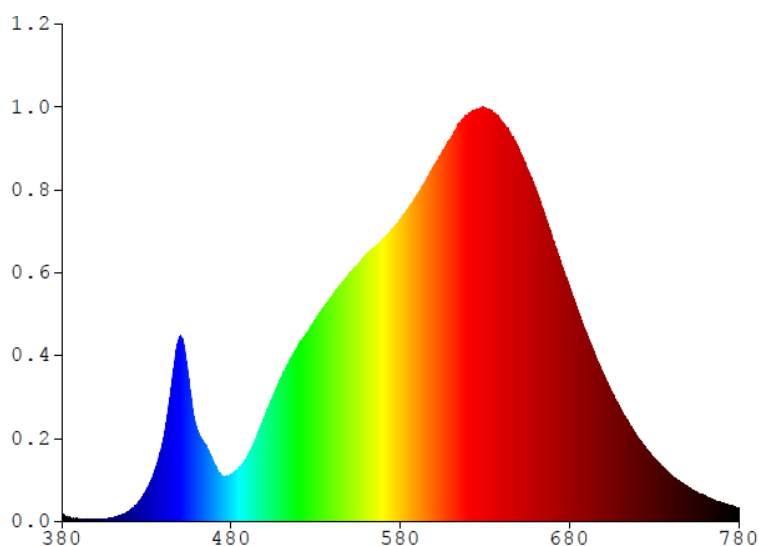
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLOWS85527XXX

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.5822	480	3.9609	580	25.8530	680	20.1240	780	1.1120
385	0.2747	485	4.6287	585	26.8410	685	18.0300		
390	0.2266	490	5.6258	590	27.9580	690	16.1590		
395	0.1935	495	7.1806	595	29.1430	695	14.3210		
400	0.1226	500	9.0240	600	30.5000	700	12.6390		
405	0.2081	505	10.7820	605	31.6790	705	11.1180		
410	0.2816	510	12.4100	610	32.8270	710	9.7050		
415	0.5081	515	13.8730	615	34.1410	715	8.4564		
420	0.9374	520	15.1540	620	34.8170	720	7.3185		
425	1.5941	525	16.2030	625	35.3300	725	6.2753		
430	2.7001	530	17.2920	630	35.4430	730	5.4254		
435	4.3736	535	18.4000	635	35.0170	735	4.6766		
440	6.9950	540	19.3340	640	34.2940	740	3.9914		
445	11.8260	545	20.2800	645	33.2760	745	3.4582		
450	15.8920	550	21.2220	650	31.9100	750	2.9500		
455	12.0510	555	22.0390	655	30.1830	755	2.5332		
460	7.8177	560	22.8890	660	28.4920	760	2.1773		
465	6.4768	565	23.4760	665	26.4770	765	1.8690		
470	4.9504	570	24.1610	670	24.1960	770	1.5925		
475	3.8681	575	25.0540	675	21.6690	775	1.3654		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85527XXX

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

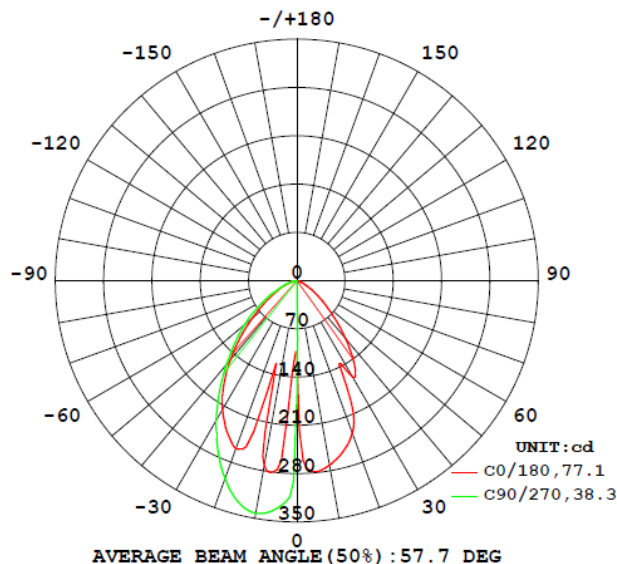
Photometric Measurements at 25°C – Distribution Method

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')
SLOWS85527XXX								
S2511100 10-030	base-up	2718	91	63	0.4581	0.4098	0.2617	0.5268

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)
SLOWS85527XXX							
S2511100 10-030	base-up	120.2	96.7	11.5	0.99	337.7	29.5

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85527XXX

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	106.7	108.8	108.1	147.4	169.1
5	277.7	204.6	36.1	3.4	0.5
10	272.1	205.0	5.6	0.2	0.4
15	257.3	37.8	15.7	1.3	0.3
20	235.3	3.4	23.8	0.6	0.7
25	173.0	0.1	26.7	1.4	0.3
30	161.4	81.6	26.9	1.4	0.3
35	144.6	92.2	21.1	0.7	0.3
40	110.1	69.0	17.6	1.5	0.3
45	78.4	44.8	13.3	1.2	0.4
50	53.7	26.8	9.5	1.0	0.3
55	34.9	14.3	6.7	0.7	0.2
60	21.2	8.7	4.5	0.6	0.2
65	11.2	4.9	2.9	0.4	0.2
70	4.0	2.8	1.7	0.2	0.2
75	2.2	1.3	0.7	0.2	0.2
80	0.2	0.2	0.2	0.2	0.2
85	0.1	0.1	0.2	0.2	0.2
90	0.1	0.1	0.2	0.2	0.2
95	0.2	0.2	0.2	0.2	0.2
100	0.3	0.2	0.2	0.3	0.3
105	0.3	0.3	0.3	0.3	0.3
110	0.4	0.3	0.3	0.4	0.3
115	0.4	0.4	0.4	0.4	0.4
120	0.5	0.5	0.4	0.5	0.5
125	0.6	0.5	0.5	0.5	0.5
130	0.6	0.6	0.6	0.6	0.7
135	0.7	0.7	0.7	0.7	0.8
140	0.7	0.8	0.7	0.8	0.9
145	0.8	1.1	0.8	0.8	0.9
150	0.8	1.2	0.8	0.9	0.9
155	0.8	2.3	0.8	0.9	0.9
160	0.8	0.8	0.8	0.9	0.9
165	0.8	0.7	0.8	0.8	0.8
170	0.7	0.7	0.7	0.8	0.8
175	0.7	0.6	0.6	0.6	0.3
180	0.5	0.4	0.1	0.1	0.2

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85527XXX

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLOWS85527XXX		
0-30	136.0	40.3
0-40	212.4	62.9
0-60	310.0	91.8
0-90	334.3	99.0
60-90	24.3	7.2
0-180	337.7	100.0

Beam Angle

Total Beam Angle(°)

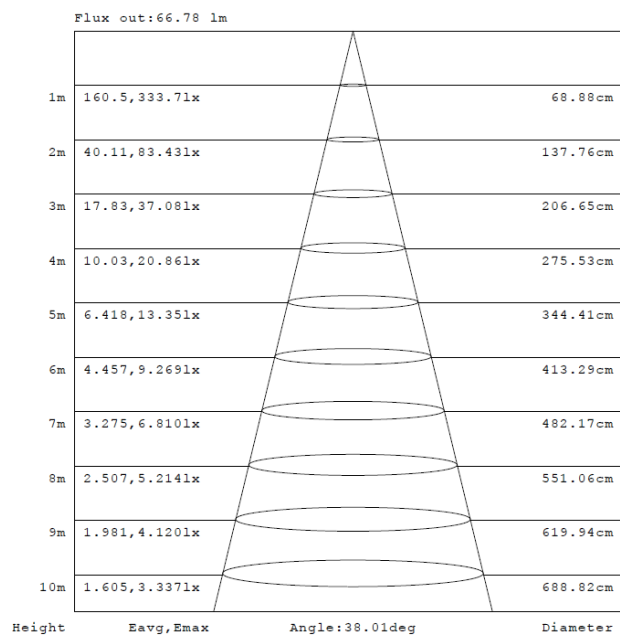
57.7

Illumination Plots

Model No.: SLOWS85527XXX

Mount Height: 2.5 m

Illuminance - Cone of Light



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TEST REPORT

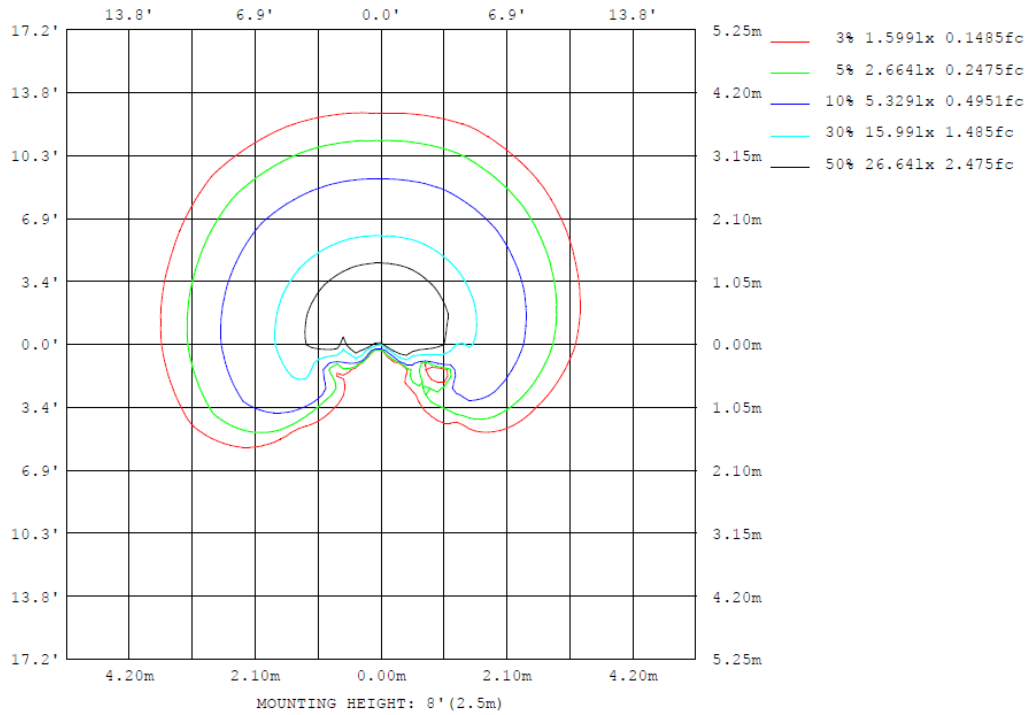
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85527XXX

Model No.: SLOWS85527XXX

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85527XXX

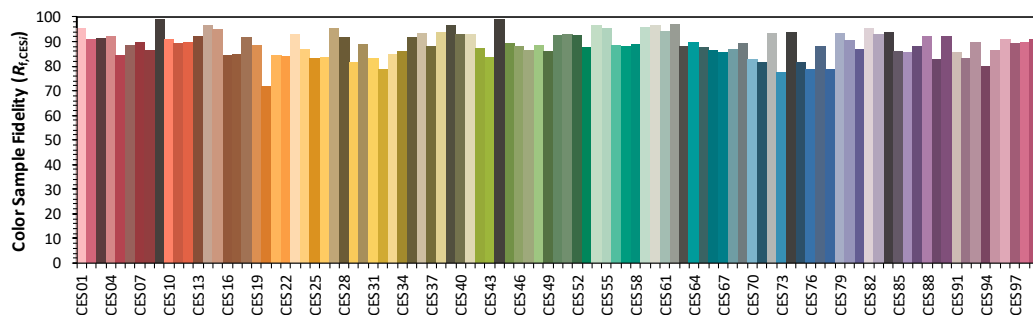
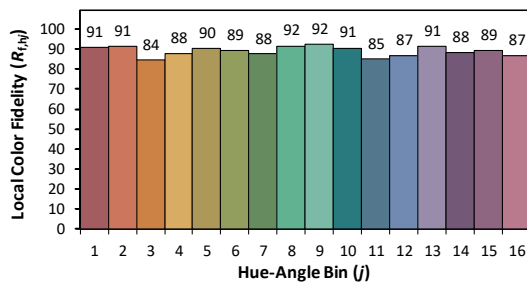
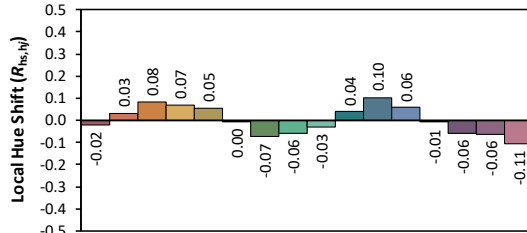
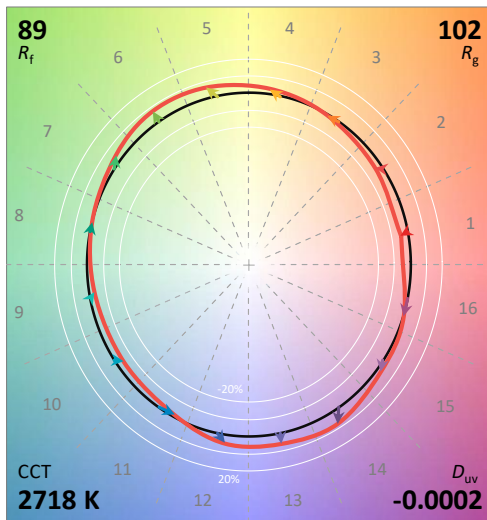
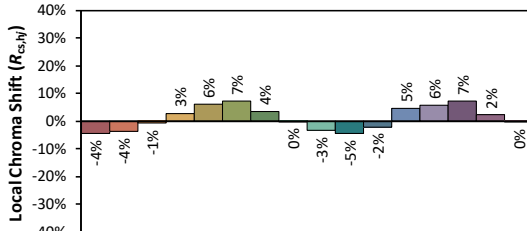
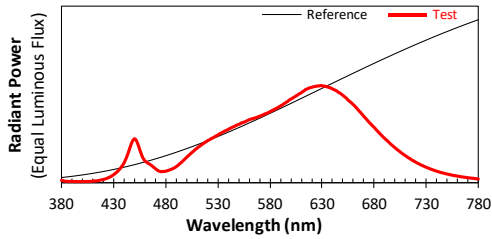
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/12/17

Model: SLOWS85527XXX



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

x 0.4581
 y 0.4098
 u' 0.2617
 v' 0.5268

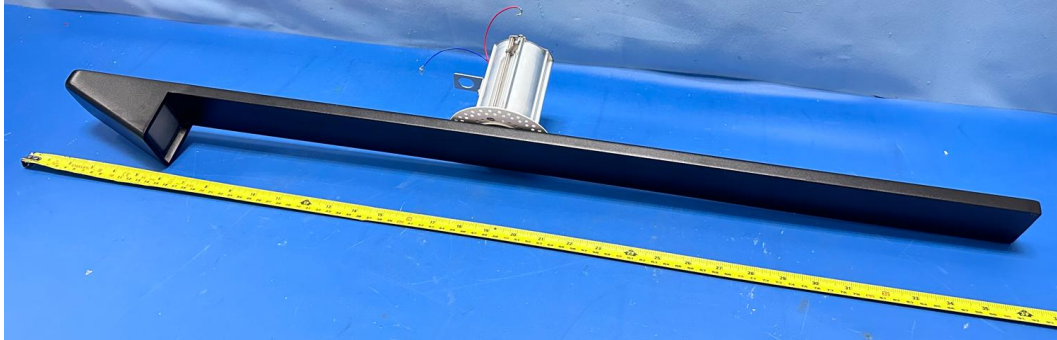
CIE 13.3-1995
(CRI)
 R_a 91
 R_g 63

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

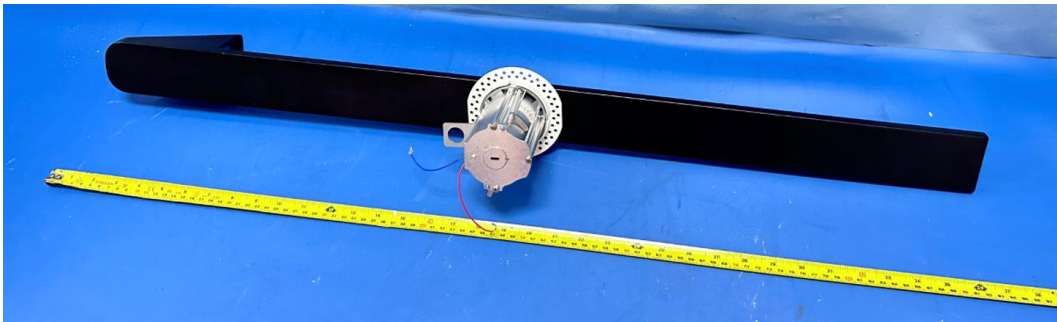
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLOWS85527XXX



External view of SLOWS85527XXX



View of LED driver PTB15W-0300-38-VCC1(AB0257)

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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 *****