

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-007

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None

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Report No.: 251110010GZU-007

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLOWS85727XX

Remark: "XX" 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 SLOWS85727XX. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-012.
<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>	03 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:	SLOWS85727XX
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLOWS85727XX

Criteria	Result
Total Lumen Output	138.3 lm
Total Power	11.6 W
Luminaire Efficacy	11.9 lm/W
S/MH(C0/180)	0.09
S/MH(C90/270)	1.04
Correlated Color Temperature (CCT)	2743 K
Color Rendering Index (CRI)	92
R9	70
Chromaticity Coordinate (x)	0.4565
Chromaticity Coordinate (y)	0.4099
Chromaticity Coordinate (u')	0.2606
Chromaticity Coordinate (v')	0.5266

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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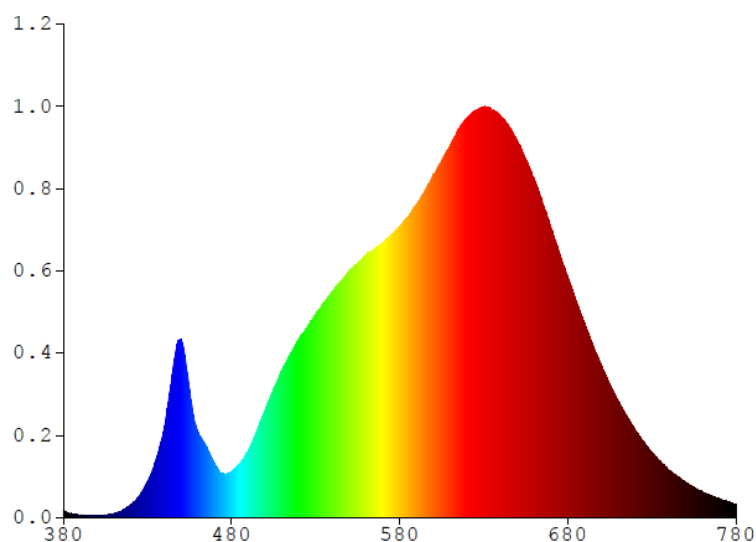
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLOWS85727XX

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	1.8706	480	10.0560	580	63.5070	680	52.6650	780	2.8338
385	0.7044	485	11.7880	585	65.7160	685	47.3760		
390	0.5438	490	14.6140	590	68.4920	690	42.4360		
395	0.4077	495	18.8320	595	71.3640	695	37.5750		
400	0.4801	500	23.4710	600	74.9730	700	33.2830		
405	0.5486	505	28.0110	605	77.9140	705	29.1900		
410	0.9098	510	32.1120	610	81.1760	710	25.4940		
415	1.5855	515	35.6440	615	84.8060	715	22.2990		
420	2.8367	520	38.9660	620	87.1730	720	19.1970		
425	4.6810	525	41.5750	625	88.8840	725	16.6330		
430	7.9057	530	44.2690	630	89.6360	730	14.2480		
435	12.5600	535	46.9660	635	88.9030	735	12.3050		
440	19.7100	540	49.3490	640	87.8160	740	10.4310		
445	31.8870	545	51.6780	645	85.4210	745	9.0570		
450	38.8380	550	53.8670	650	82.1990	750	7.7135		
455	27.6260	555	55.4810	655	78.2480	755	6.6316		
460	18.6580	560	57.3090	660	73.8450	760	5.6454		
465	15.4260	565	58.7040	665	68.7130	765	4.8656		
470	11.6320	570	59.9910	670	63.3630	770	4.1359		
475	9.6432	575	61.8060	675	56.6760	775	3.5599		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85727XX

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

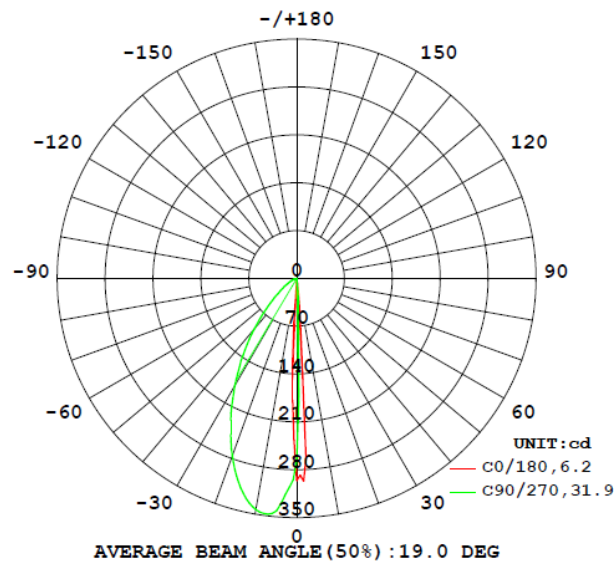
Photometric Measurements at 25°C – Distribution Method

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')
SLOWS85727XX								
S2511100 10-012	base-up	2743	92	70	0.4565	0.4099	0.2606	0.5266

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	Lumen
						Luminous Flux (Lumens)	Efficacy (Lumens Per Watt)
SLOWS85727XX							
S2511100 10-012	base-up	120.1	97.5	11.6	0.99	138.3	11.9

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85727XX

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	295.1	293.5	279.4	277.7	262.6
5	62.7	34.7	19.2	0.6	18.6
10	1.2	0.0	0.0	0.0	0.0
15	0.1	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0
50	0.0	0.0	0.0	0.0	0.0
55	0.0	0.0	0.0	0.0	0.0
60	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0
75	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0
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	0.1	0.1	0.1
130	0.0	0.0	0.1	0.1	0.1
135	0.0	0.1	0.1	0.2	0.2
140	0.1	0.1	0.1	0.2	0.2
145	0.1	0.1	0.2	0.2	0.2
150	0.1	0.1	0.2	0.2	0.2
155	0.1	0.1	0.1	0.1	0.2
160	0.2	0.1	0.1	0.1	0.1
165	0.2	0.1	0.1	0.1	0.1
170	0.1	0.1	0.1	0.0	0.0
175	0.1	0.1	0.0	0.0	0.0
180	0.1	0.1	0.0	0.1	0.1

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85727XX

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLOWS85727XX		
0-30	73.5	53.1
0-40	102.4	74.1
0-60	131.5	95.1
0-90	137.8	99.6
60-90	6.3	4.5
0-180	138.3	100.0

Beam Angle

Total Beam Angle(°)

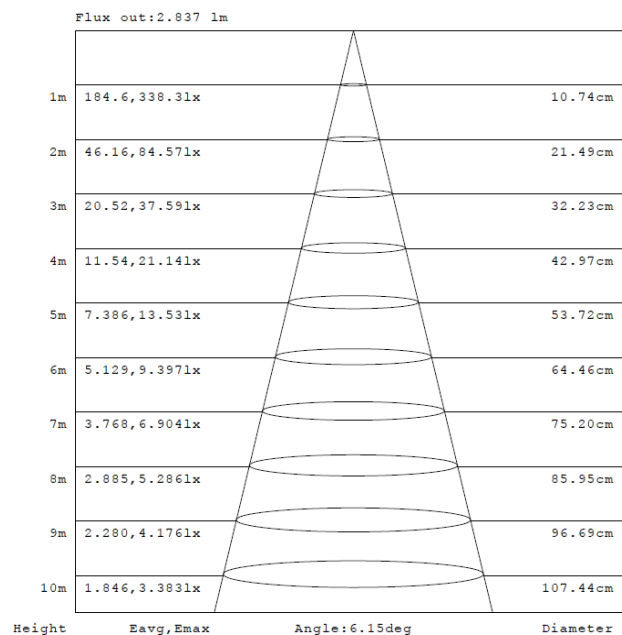
19.0

Illumination Plots

Model No.: SLOWS85727XX

Mount Height: 2.5 m

Illuminance - Cone of Light



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TEST REPORT

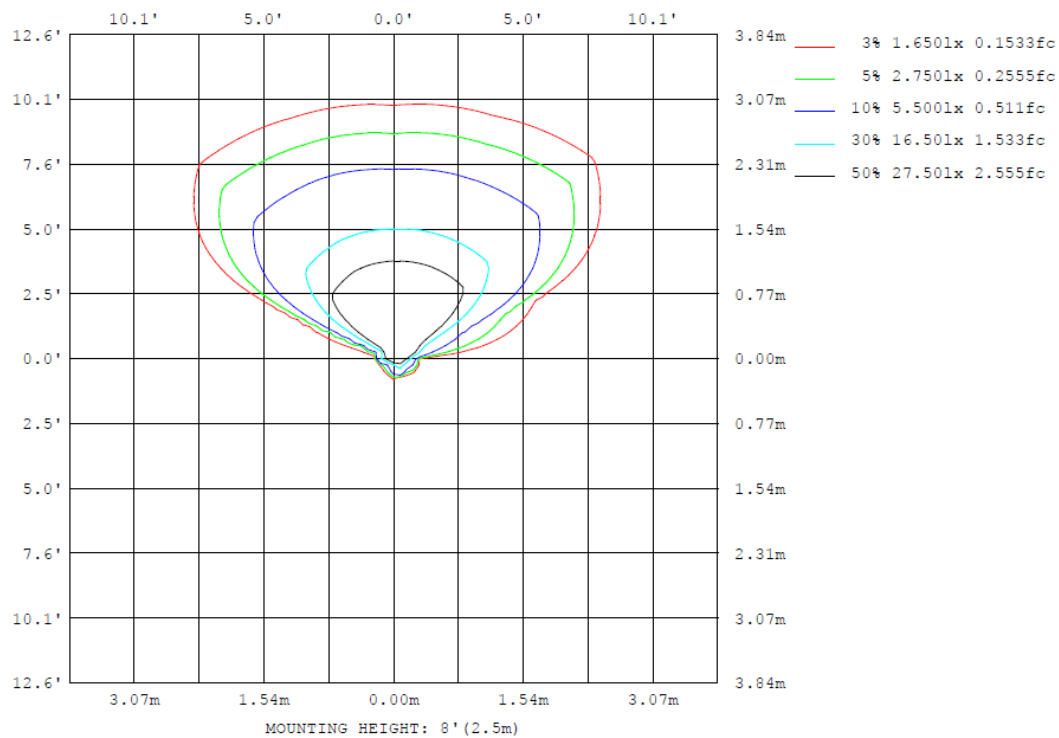
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85727XX

Model No.: SLOWS85727XX

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85727XX

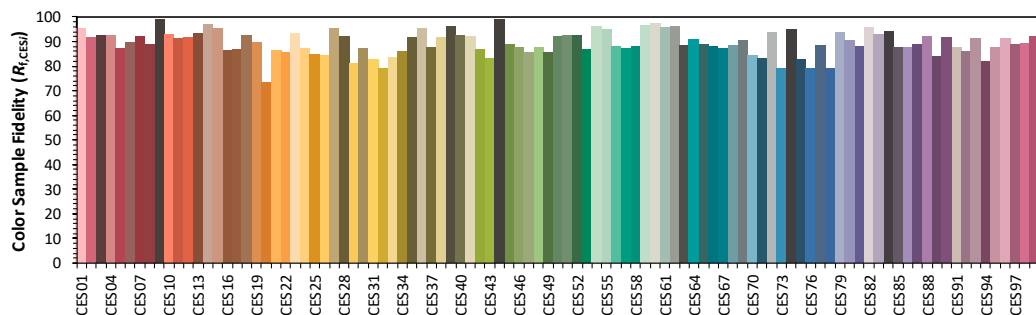
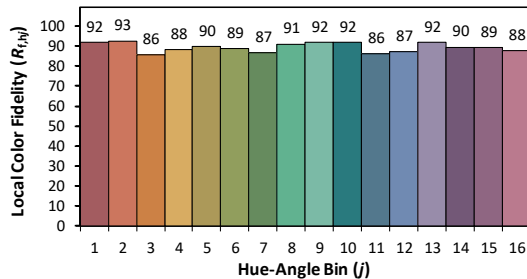
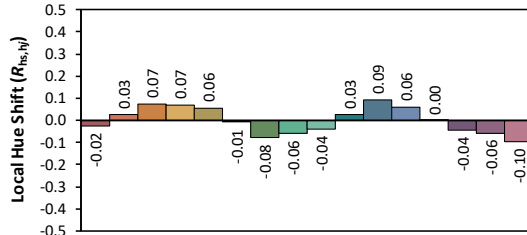
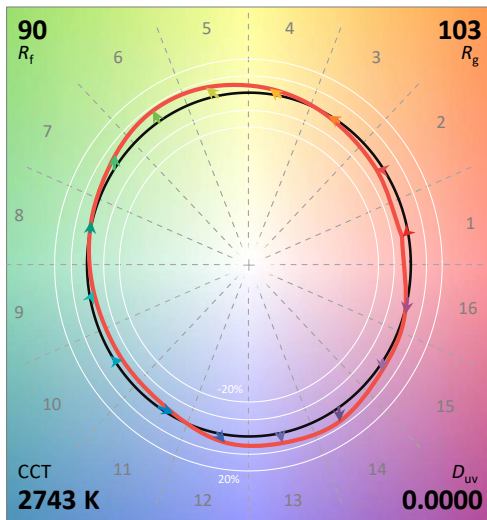
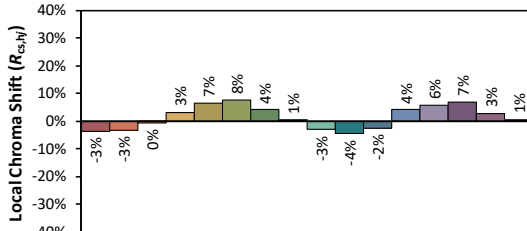
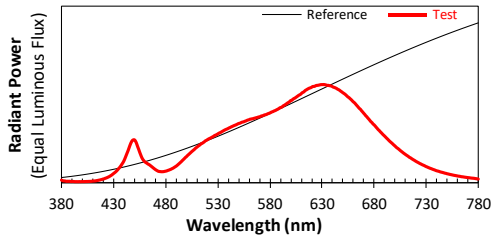
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/12/3

Model: SLOWS85727XX



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

x 0.4565
 y 0.4099
 u' 0.2606
 v' 0.5266

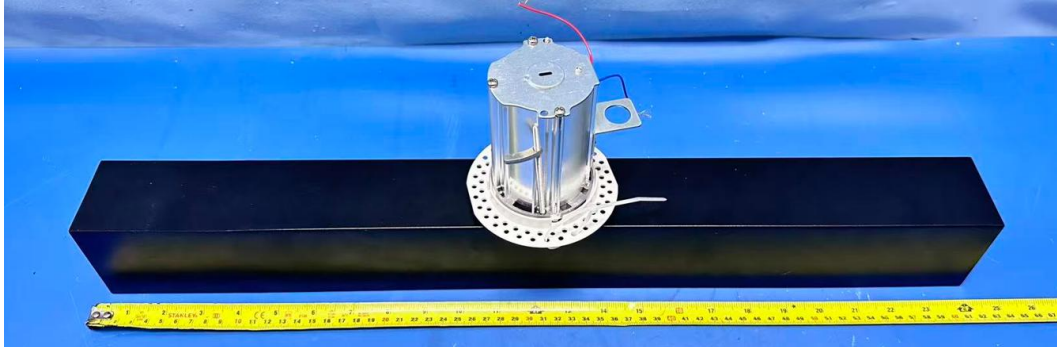
CIE 13.3-1995
(CRI)
 R_a 92
 R_g 70

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

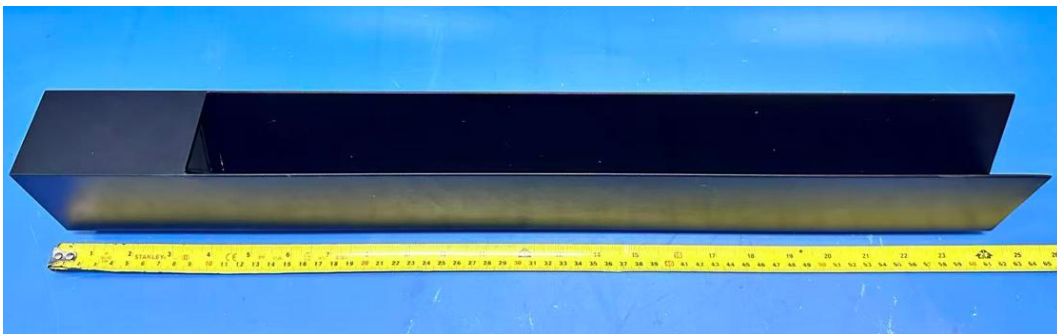
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLOWS85727XX



External view of SLOWS85727XX



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 *****