

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-055

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REVISION DATE

None

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Report format for LM-79_G

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Report No.: 251110010GZU-055

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLOWS85827XX

Remark: "XX" represents the color of the appearance.

RENDERED TO

Visual Comfort & Co.

Contact Name: Javan Rivero

7400 LINDER AVE. SKOKIE, IL, 60077

Email: jrivero@visualcomfort.com

Phone No.: 847-410-4552

<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 SLOWS85827XX. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-036.
<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>	08 January 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:	SLOWS85827XX
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLOWS85827XX

Criteria	Result
Total Lumen Output	290.0 lm
Total Power	11.4 W
Luminaire Efficacy	25.4 lm/W
S/MH(C0/180)	0.02
S/MH(C90/270)	0.00
Correlated Color Temperature (CCT)	2737 K
Color Rendering Index (CRI)	93
R9	72
Chromaticity Coordinate (x)	0.4563
Chromaticity Coordinate (y)	0.4089
Chromaticity Coordinate (u')	0.2610
Chromaticity Coordinate (v')	0.5262

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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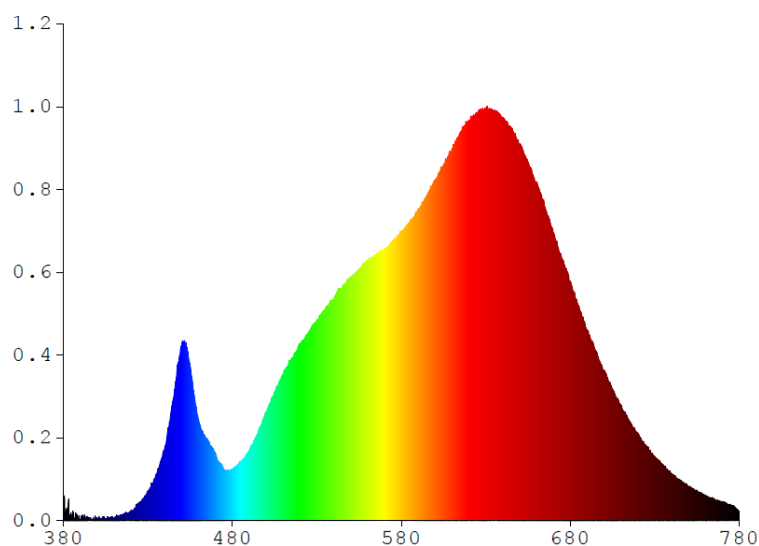
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLOWS85827XX

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.1000	480	0.7119	580	4.0934	680	3.3890	780	0.1348
385	0.0447	485	0.8360	585	4.2357	685	3.0454		
390	0.0139	490	0.9903	590	4.4279	690	2.7043		
395	0.0303	495	1.2347	595	4.6053	695	2.4055		
400	0.0000	500	1.5332	600	4.8307	700	2.1274		
405	0.0292	505	1.8213	605	5.0491	705	1.8692		
410	0.0302	510	2.0758	610	5.2738	710	1.6408		
415	0.0608	515	2.2961	615	5.5140	715	1.4146		
420	0.1411	520	2.5073	620	5.6723	720	1.2315		
425	0.2604	525	2.6613	625	5.7882	725	1.0653		
430	0.4177	530	2.8409	630	5.8236	730	0.9051		
435	0.6543	535	2.9992	635	5.8052	735	0.7887		
440	1.0345	540	3.1427	640	5.7159	740	0.6683		
445	1.7075	545	3.3041	645	5.5770	745	0.5693		
450	2.4816	550	3.4309	650	5.3355	750	0.4850		
455	2.1949	555	3.5577	655	5.0856	755	0.4295		
460	1.4223	560	3.6917	660	4.7869	760	0.3567		
465	1.1670	565	3.7723	665	4.4623	765	0.3052		
470	0.9627	570	3.8549	670	4.0695	770	0.2610		
475	0.7291	575	3.9685	675	3.6750	775	0.2237		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85827XX

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

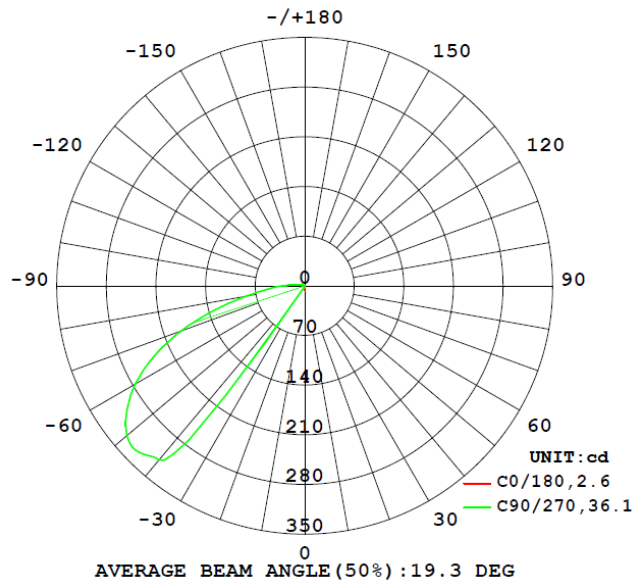
Photometric Measurements at 25°C – Distribution Method

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')
SLOWS85827XX								
S2511100 10-036	base-up	2737	93	72	0.4563	0.4089	0.2610	00.5262

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)
SLOWS85827XX							
S2511100 10-036	base-up	120.0	96.3	11.4	0.99	290.0	25.4

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85827XX

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	3.7	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0
15	0.0	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	0.1
90	0.0	0.0	0.0	0.1	0.1
95	0.0	0.0	0.1	0.1	0.1
100	0.0	0.0	0.1	0.2	0.2
105	0.0	0.0	0.1	0.2	0.2
110	0.0	0.0	0.1	0.2	0.2
115	0.0	0.1	0.2	0.2	0.2
120	0.0	0.1	0.1	0.1	0.1
125	0.0	0.1	0.1	0.1	0.1
130	0.0	0.1	0.1	0.1	0.1
135	0.0	0.1	0.1	0.0	0.1
140	0.1	0.1	0.0	0.0	0.1
145	0.1	0.1	0.0	0.0	0.1
150	0.1	0.1	0.0	0.1	0.1
155	0.1	0.1	0.1	0.0	0.1
160	0.1	0.1	0.0	0.0	0.1
165	0.1	0.1	0.0	0.0	0.1
170	0.1	0.1	0.0	0.0	0.1
175	0.1	0.1	0.0	0.0	0.0
180	0.1	0.0	0.0	0.0	0.0

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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85827XX

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLOWS85827XX		
0-30	0.2	0.1
0-40	21.6	7.5
0-60	155.7	53.7
0-90	278.4	96.0
60-90	122.7	42.3
0-180	290.0	100.0

Beam Angle

Total Beam Angle(°)

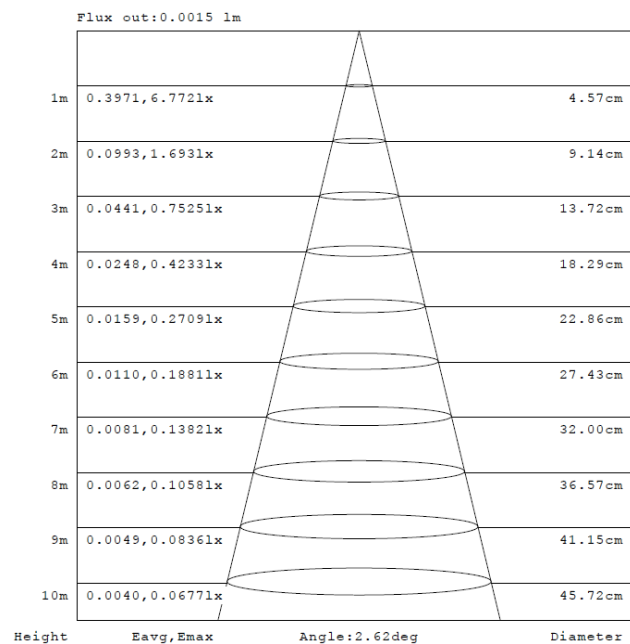
19.3

Illumination Plots

Model No.: SLOWS85827XX

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

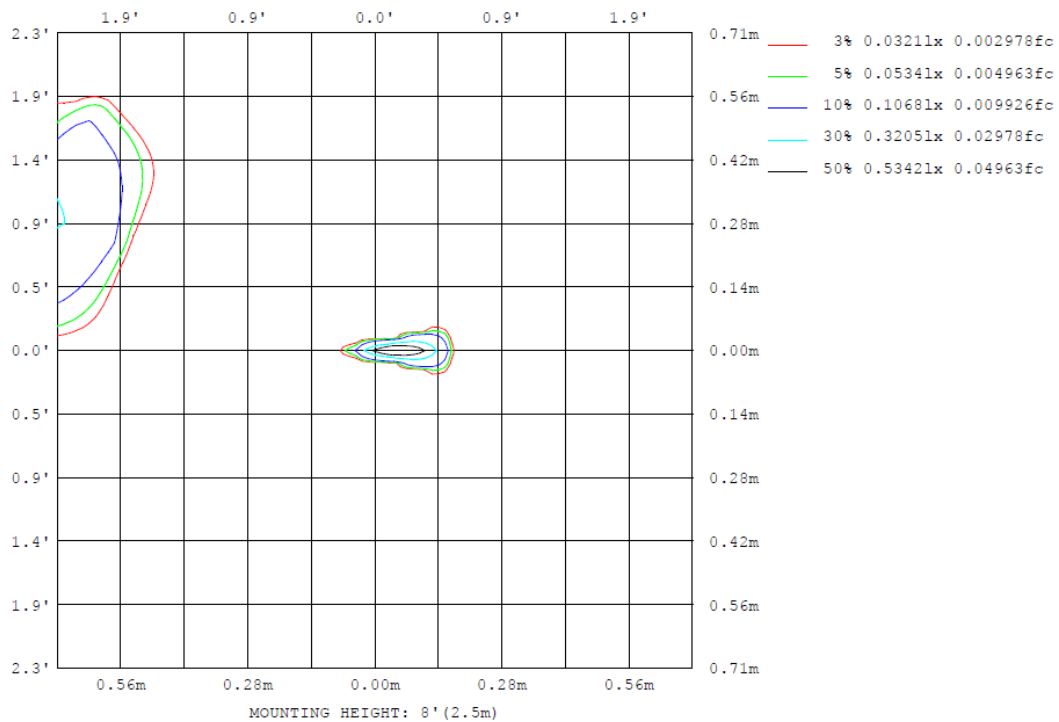
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85827XX

Model No.: SLOWS85827XX

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85827XX

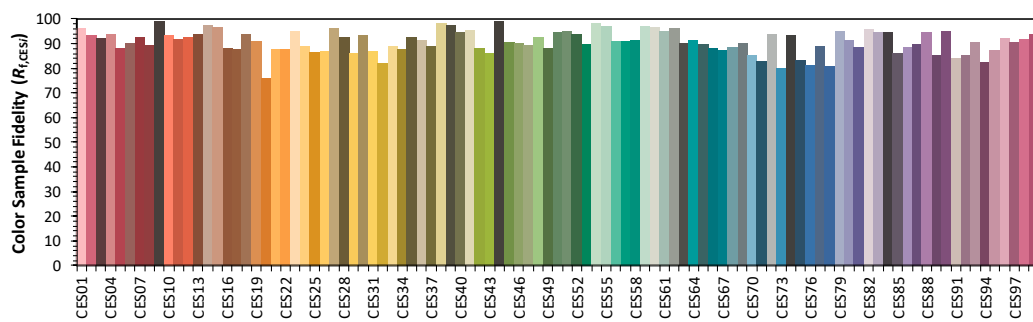
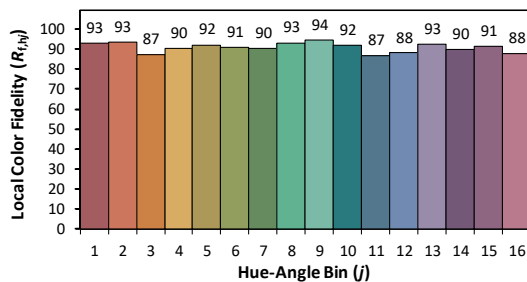
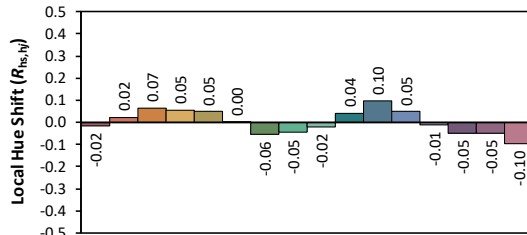
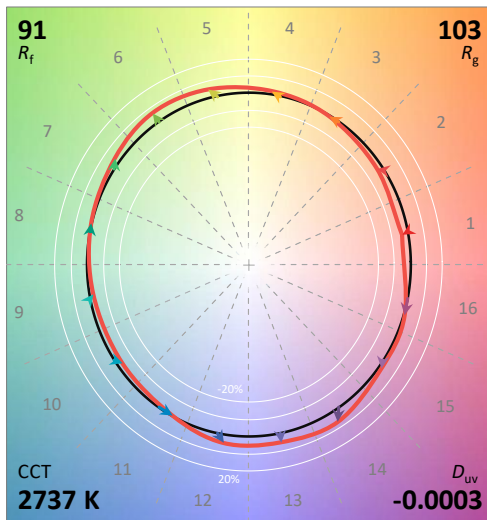
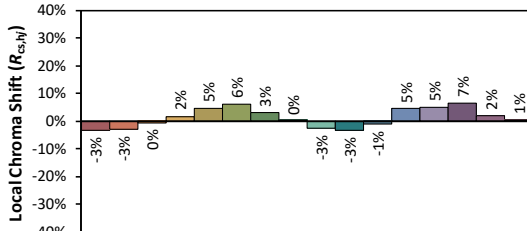
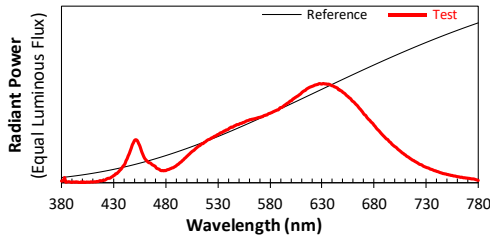
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2026/1/8

Model: SLOWS85827XX



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

x 0.4563
 y 0.4089
 u' 0.2610
 v' 0.5262

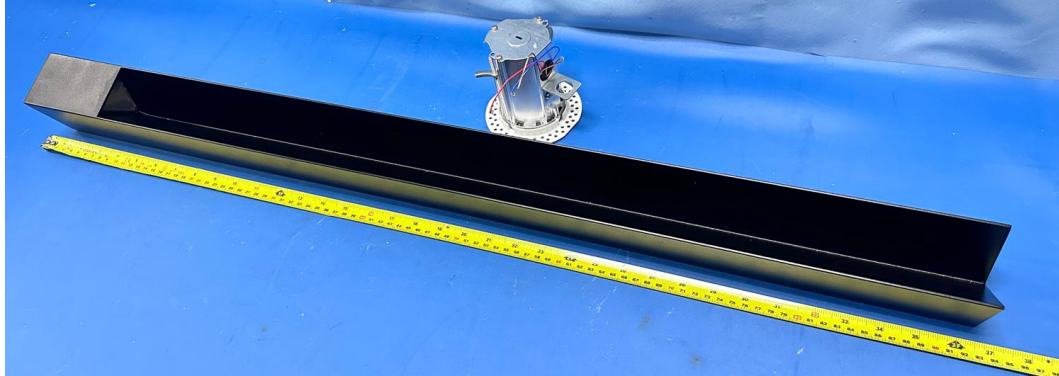
CIE 13.3-1995
(CRI)
 R_a 93
 R_g 72

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

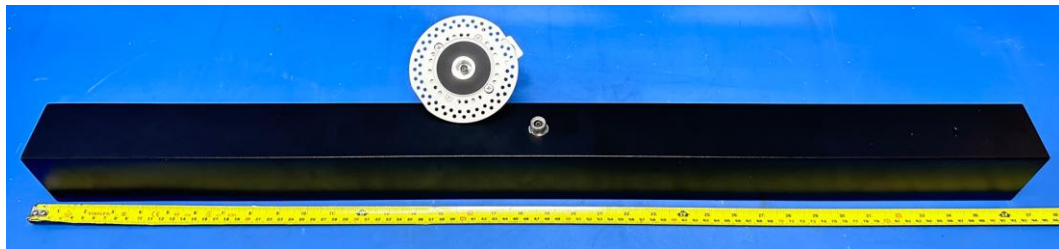
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLOWS85827XX



External view of SLOWS85827XX



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

***** 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 *****