

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-018

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None

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Report No.: 251110010GZU-018

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLOWS85127XXCG

Remark: "XX" 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 SLOWS85127XXCG. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-022.

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: 12 December 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:	SLOWS85127XXCG
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLOWS85127XXCG

Criteria	Result
Total Lumen Output	674.4 lm
Total Power	11.1 W
Luminaire Efficacy	61.0 lm/W
S/MH(C0/180)	3.07
S/MH(C90/270)	1.70
Correlated Color Temperature (CCT)	2516 K
Color Rendering Index (CRI)	91
R9	65
Chromaticity Coordinate (x)	0.4772
Chromaticity Coordinate (y)	0.4162
Chromaticity Coordinate (u')	0.2711
Chromaticity Coordinate (v')	0.5321

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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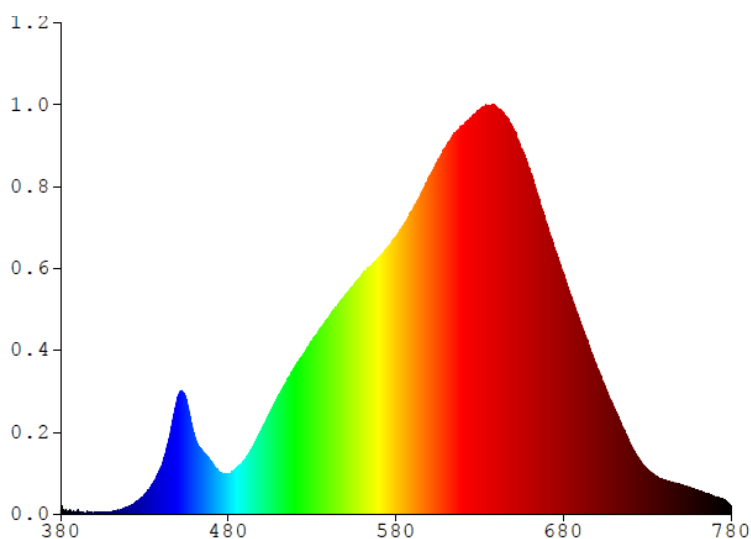
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLOWS85127XXCG

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.2376	480	1.7317	580	11.8890	680	10.3410	780	0.3685
385	0.1565	485	1.9898	585	12.4360	685	9.3118		
390	0.1669	490	2.3461	590	13.0470	690	8.2710		
395	0.0405	495	2.9427	595	13.7550	695	7.2737		
400	0.0745	500	3.6600	600	14.5070	700	6.3073		
405	0.0740	505	4.3765	605	15.1500	705	5.4552		
410	0.0908	510	5.0996	610	15.7460	710	4.6221		
415	0.1740	515	5.7328	615	16.3590	715	3.7862		
420	0.3123	520	6.3889	620	16.6970	720	3.0187		
425	0.5150	525	6.8943	625	17.0130	725	2.3790		
430	0.8459	530	7.4316	630	17.3470	730	1.9348		
435	1.3177	535	7.9663	635	17.5400	735	1.6528		
440	2.0490	540	8.4168	640	17.4170	740	1.4627		
445	3.3328	545	8.9292	645	17.0880	745	1.3847		
450	5.0466	550	9.4027	650	16.5360	750	1.2723		
455	4.8795	555	9.8461	655	15.6390	755	1.1728		
460	3.3390	560	10.3070	660	14.7710	760	1.0307		
465	2.6604	565	10.6380	665	13.6460	765	0.9048		
470	2.2776	570	10.9780	670	12.4650	770	0.7623		
475	1.7863	575	11.4310	675	11.1510	775	0.6609		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85127XXCG

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

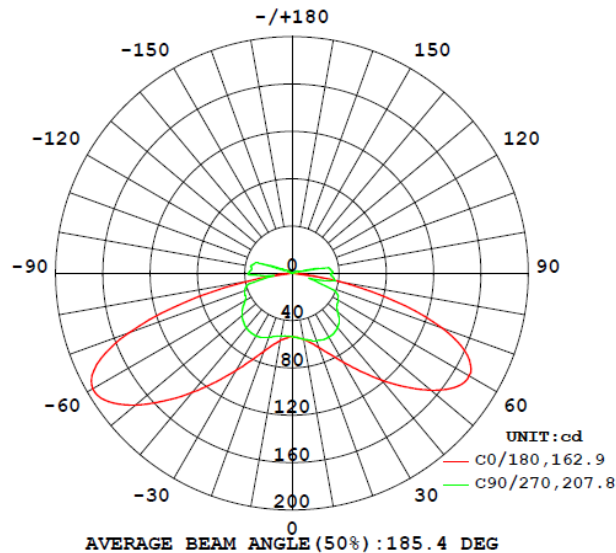
Photometric Measurements at 25°C – Distribution Method

Intertek Sample No.	Base Orientation	Correlated Color Temperature (K)	CRI	R9	CIE 31'	CIE 31'	CIE 76'	CIE 76'
					Chromaticit y	Chromaticit y	Chromaticit y	Chromaticit y
					Coordinate (x)	Coordinate (y)	Coordinate (u')	Coordinate (v')
SLOWS85127XXCG								
S2511100 10-022	base-up	2516	91	65	0.4772	0.4162	0.2711	0.5321

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)
SLOWS85127XXCG							
S2511100 10-022	base-up	120.2	93.4	11.1	0.99	674.4	61.0

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85127XXCG

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	53.4	53.6	53.5	53.5	53.5
5	54.5	55.3	55.0	54.8	54.6
10	56.7	57.8	57.4	56.7	56.4
15	60.6	62.3	60.7	59.0	58.6
20	66.7	68.9	65.2	61.4	60.6
25	75.2	77.6	70.7	63.5	61.9
30	86.6	89.3	76.9	65.4	62.4
35	100.8	103.6	83.4	66.8	61.8
40	117.6	120.0	90.5	67.1	60.0
45	135.7	135.9	97.6	65.4	56.1
50	153.6	150.4	103.0	61.5	50.5
55	168.0	160.9	104.3	56.8	46.9
60	173.0	164.1	100.0	55.1	45.3
65	163.7	157.9	97.6	53.8	42.6
70	135.1	142.3	95.2	43.4	27.0
75	89.5	114.4	69.7	19.5	20.5
80	40.9	86.9	59.5	43.5	37.1
85	8.0	88.6	100.2	47.4	34.8
90	0.3	94.3	96.0	44.9	33.2
95	0.2	98.9	96.1	45.2	33.2
100	0.2	52.3	55.5	34.4	26.1
105	0.2	12.1	31.8	14.0	9.9
110	0.2	6.7	23.3	10.0	6.8
115	0.1	2.3	6.7	7.8	5.5
120	0.1	1.1	4.5	4.0	3.6
125	0.1	0.7	2.5	2.2	1.8
130	0.2	0.5	1.1	1.7	1.6
135	0.2	0.4	0.7	0.9	1.0
140	0.2	0.4	0.5	0.6	0.6
145	0.2	0.3	0.4	0.4	0.5
150	0.1	0.3	0.4	0.4	0.4
155	0.1	0.1	0.3	0.4	0.4
160	0.1	0.1	0.3	0.3	0.3
165	0.1	0.1	0.1	0.3	0.3
170	0.1	0.1	0.1	0.1	0.1
175	0.1	0.1	0.1	0.1	0.1
180	0.1	0.1	0.1	0.1	0.1

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85127XXCG

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLOWS85127XXCG		
0-30	55.1	8.2
0-40	109.2	16.2
0-60	292.7	43.4
0-90	557.1	82.6
60-90	264.4	39.2
0-180	674.4	100.0

Beam Angle

Total Beam Angle(°)

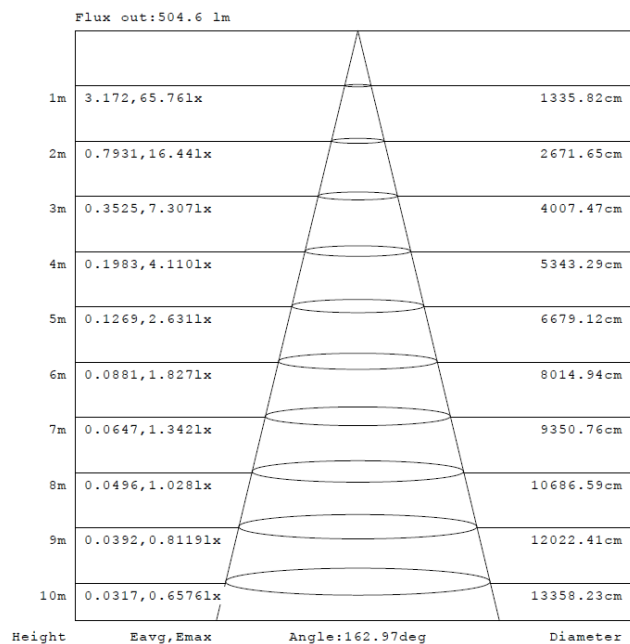
185.4

Illumination Plots

Model No.: SLOWS85127XXCG

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

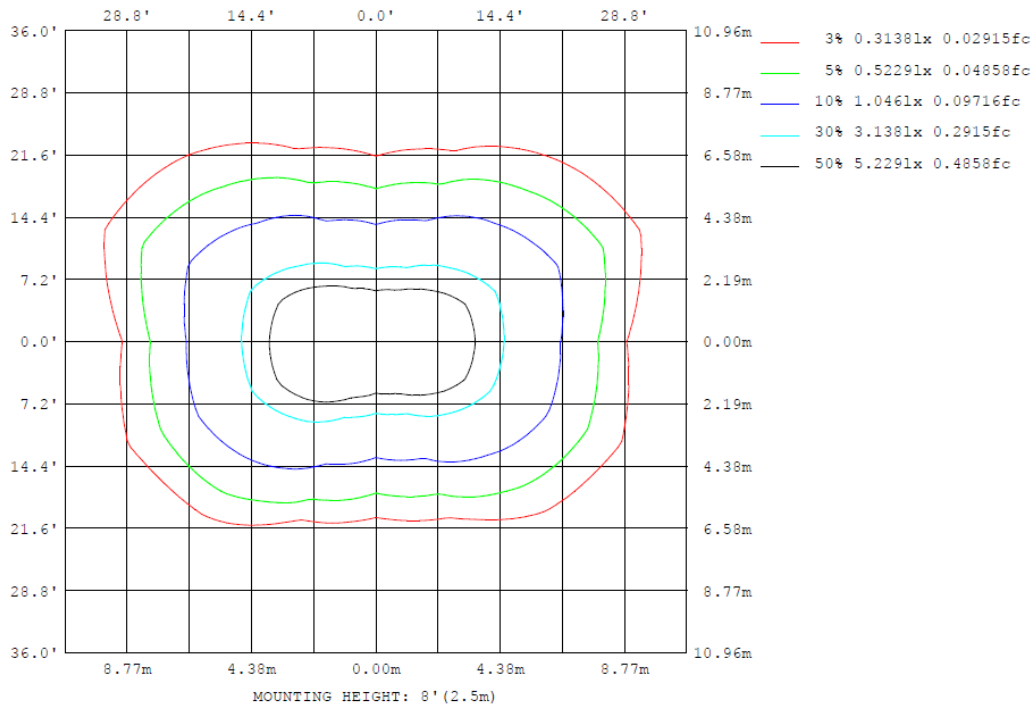
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85127XXCG

Model No.: SLOWS85127XXCG

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85127XXCG

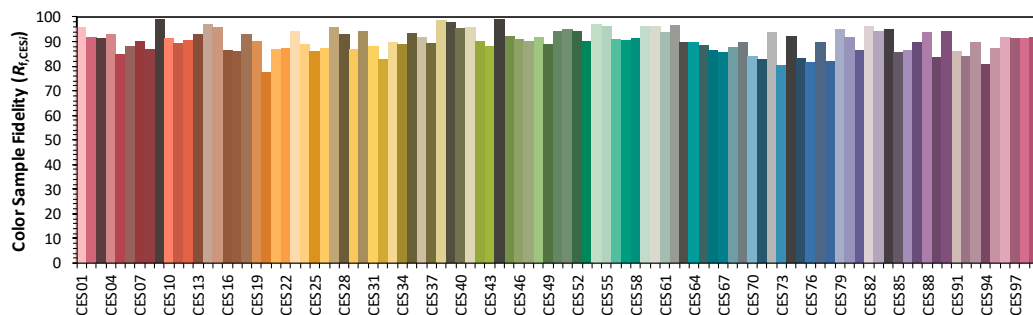
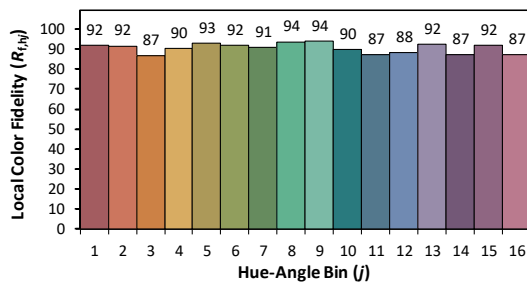
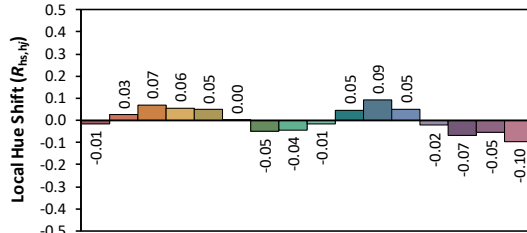
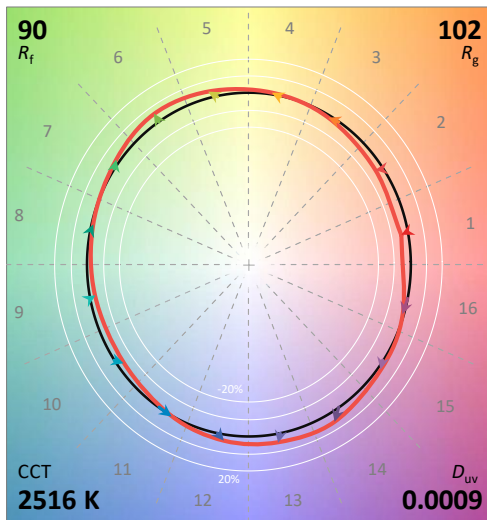
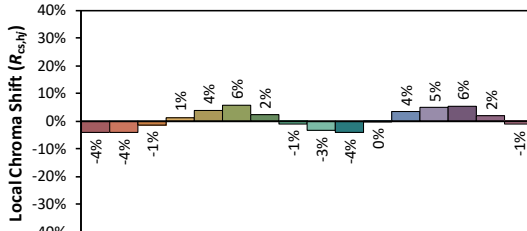
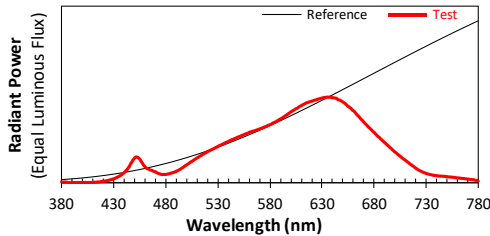
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/12/12

Model: SLOWS85127XXCG



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

x 0.4772
 y 0.4162
 u' 0.2711
 v' 0.5321

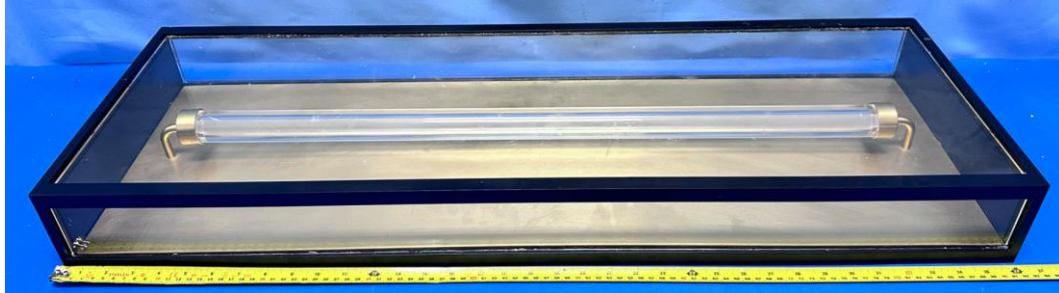
CIE 13.3-1995
(CRI)
 R_a 91
 R_g 65

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

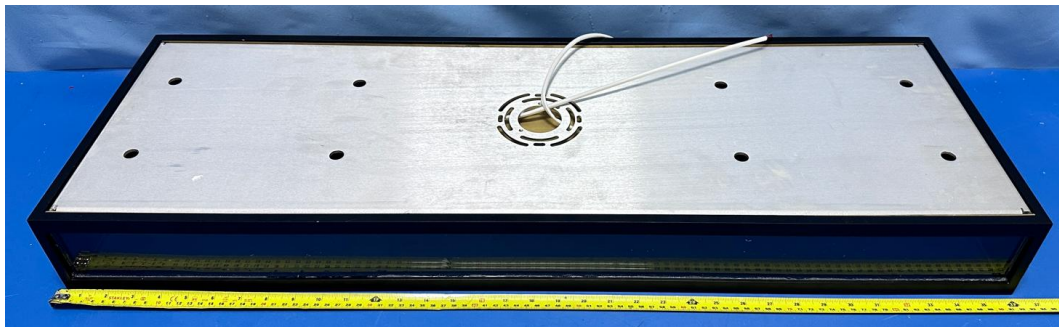
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLOWS85127XXCG



External view of SLOWS85127XXCG



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 *****