

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-052

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REVISION DATE

None

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Report format for LM-79_G

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Report No.: 251110010GZU-052

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLV84727XXXCA

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 SLV84727XXXCA. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-042.

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: 06 January 2026

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:	SLV84727XXXCA
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLV84727XXXCA

Criteria	Result
Total Lumen Output	973.9 lm
Total Power	14.8 W
Luminaire Efficacy	65.9 lm/W
S/MH(C0/180)	4.60
S/MH(C90/270)	2.44
Correlated Color Temperature (CCT)	2696 K
Color Rendering Index (CRI)	93
R9	71
Chromaticity Coordinate (x)	0.4590
Chromaticity Coordinate (y)	0.4086
Chromaticity Coordinate (u')	0.2629
Chromaticity Coordinate (v')	0.5265

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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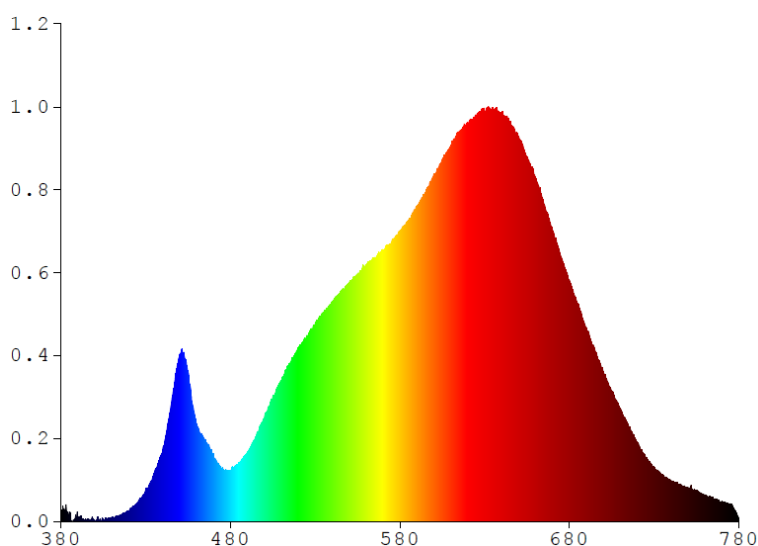
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLV84727XXXCA

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.0911	480	0.7866	580	4.4778	680	3.7271	780	0.0498
385	0.1374	485	0.9095	585	4.6433	685	3.3671		
390	0.0488	490	1.0771	590	4.8701	690	2.9929		
395	0.0164	495	1.3132	595	5.0830	695	2.6470		
400	0.0067	500	1.6071	600	5.3684	700	2.3140		
405	0.0096	505	1.9191	605	5.5919	705	2.0158		
410	0.0732	510	2.1851	610	5.7897	710	1.7470		
415	0.0772	515	2.4419	615	6.0261	715	1.4713		
420	0.1650	520	2.6818	620	6.1642	720	1.2148		
425	0.2873	525	2.8783	625	6.2770	725	0.9905		
430	0.4866	530	3.0568	630	6.3360	730	0.8380		
435	0.7390	535	3.2358	635	6.3757	735	0.7261		
440	1.1086	540	3.4004	640	6.3141	740	0.6330		
445	1.7939	545	3.5504	645	6.1840	745	0.5679		
450	2.5715	550	3.6827	650	5.9471	750	0.5278		
455	2.3019	555	3.8262	655	5.6389	755	0.4754		
460	1.5047	560	3.9713	660	5.2975	760	0.4137		
465	1.2519	565	4.0850	665	4.9134	765	0.3560		
470	1.0409	570	4.1932	670	4.5087	770	0.3127		
475	0.8144	575	4.3052	675	4.0187	775	0.2618		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84727XXXCA

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

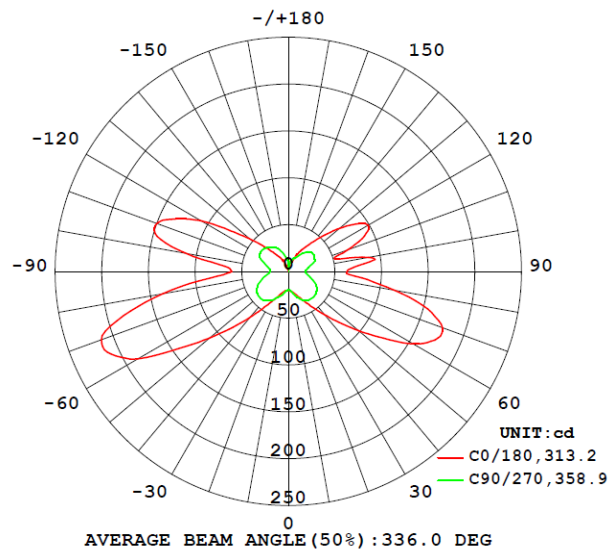
Photometric Measurements at 25°C – Distribution Method

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')
SLV84727XXXCA								
S2511100 10-042	base-up	2696	93	71	0.4590	0.4086	0.2629	0.5265

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
						Flux (Lumens)	Efficacy (Lumens Per Watt)
SLV84727XXXCA							
S2511100 10-042	base-up	120.2	124.2	14.8	0.99	973.9	65.9

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84727XXXCA

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	20.4	20.4	20.1	19.9	19.7
5	20.9	20.8	20.9	20.7	20.3
10	22.0	22.4	22.4	23.3	22.8
15	24.2	25.3	26.8	27.4	26.6
20	27.6	30.0	32.6	30.7	29.6
25	32.3	38.2	38.3	35.0	33.4
30	38.8	49.4	46.2	37.7	35.9
35	47.9	64.3	54.0	39.5	37.3
40	60.4	82.3	61.1	40.8	38.0
45	77.1	104.0	71.3	41.9	38.5
50	98.5	138.0	78.3	41.6	38.0
55	124.5	171.3	83.6	41.1	37.0
60	154.8	192.8	85.1	40.0	35.5
65	173.3	216.1	85.0	36.6	32.3
70	175.8	212.1	80.2	32.1	28.5
75	154.6	200.7	70.3	27.6	24.3
80	115.6	158.4	55.5	24.3	21.2
85	79.2	131.9	47.9	21.6	19.0
90	63.0	123.7	45.0	20.6	18.2
95	75.5	132.0	47.0	21.4	19.2
100	87.3	158.3	53.2	23.6	21.4
105	51.7	190.1	64.8	27.1	24.1
110	67.9	189.7	71.7	32.4	29.0
115	90.1	176.2	70.9	34.3	31.2
120	98.8	139.6	68.7	34.6	32.2
125	88.6	95.5	62.1	34.4	32.5
130	72.0	61.1	54.3	33.0	32.1
135	55.3	40.5	42.6	30.7	29.8
140	41.8	28.1	32.2	26.4	25.8
145	31.9	23.1	23.6	22.1	22.2
150	25.0	20.3	18.2	17.9	17.8
155	15.9	17.5	16.1	15.4	15.8
160	11.7	15.3	14.4	14.6	14.9
165	10.1	12.9	13.7	13.5	13.3
170	8.8	11.1	10.8	11.3	5.5
175	10.6	9.9	8.2	2.6	6.1
180	8.3	5.8	3.8	3.6	11.8

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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84727XXXCA

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLV84727XXXCA		
0-30	25.2	2.6
0-40	55.9	5.7
0-60	201.3	20.7
0-90	526.5	54.1
60-90	325.2	33.4
0-180	973.9	100.0

Beam Angle

Total Beam Angle(°)

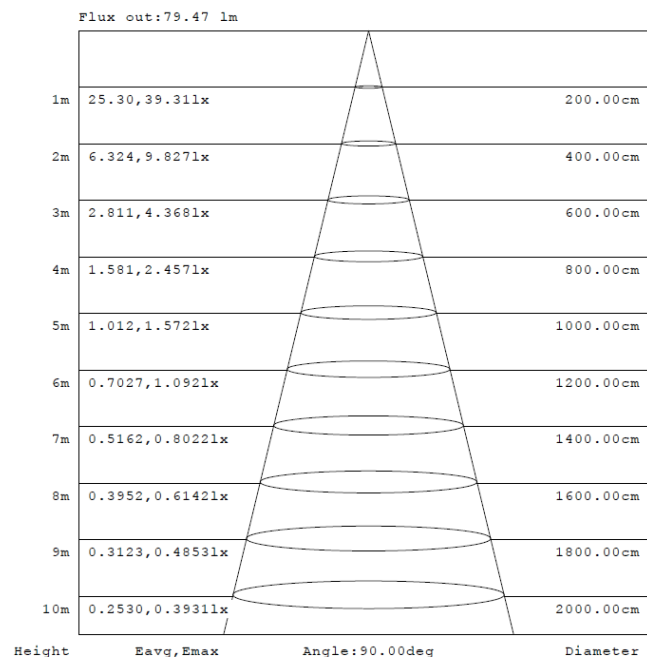
336.0

Illumination Plots

Model No.: SLV84727XXXCA

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

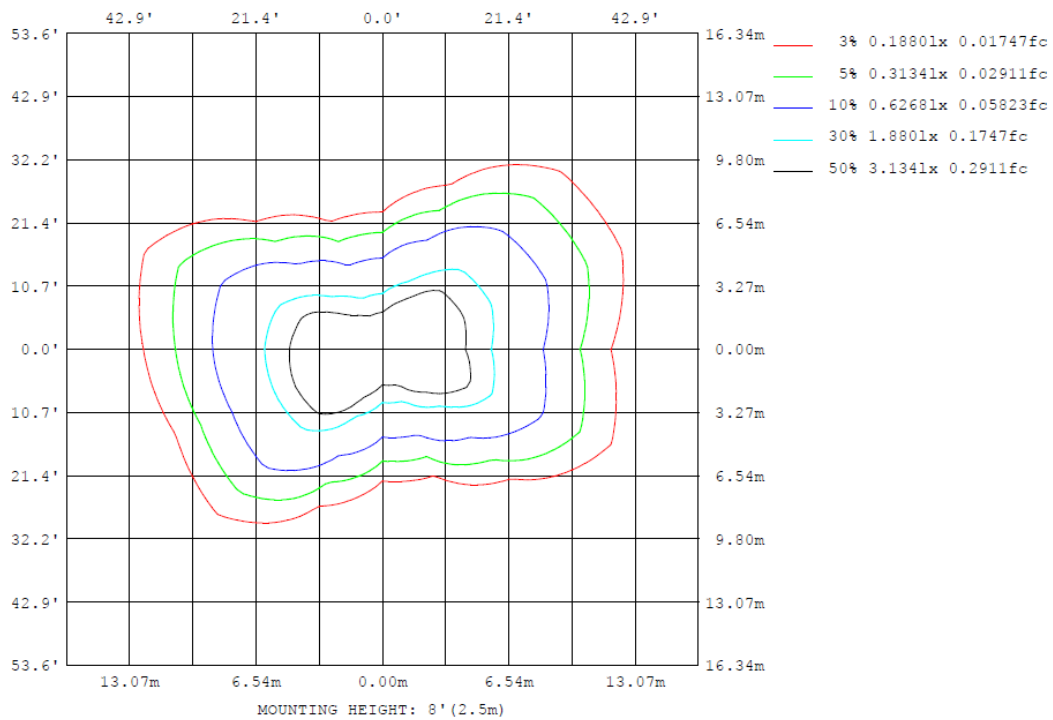
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84727XXXCA

Model No.: SLV84727XXXCA

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLV84727XXXCA

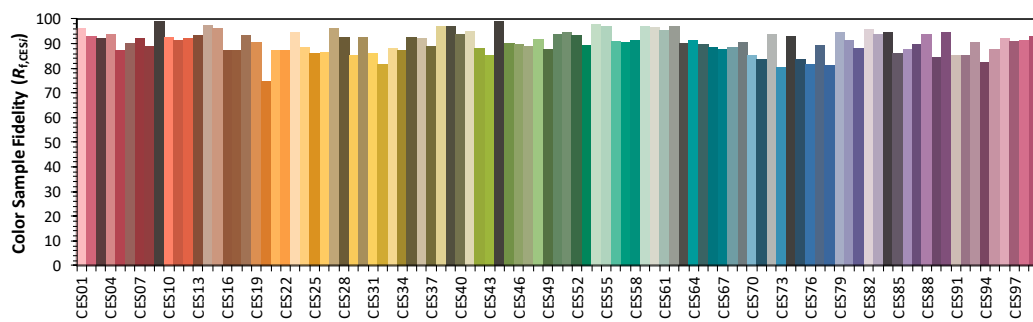
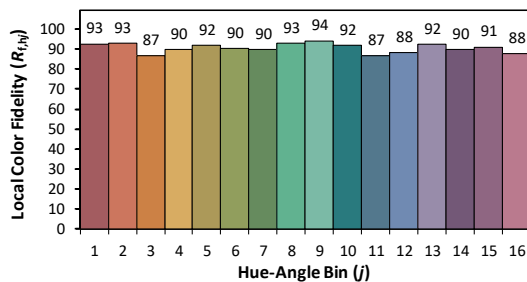
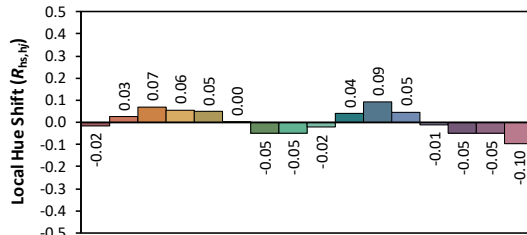
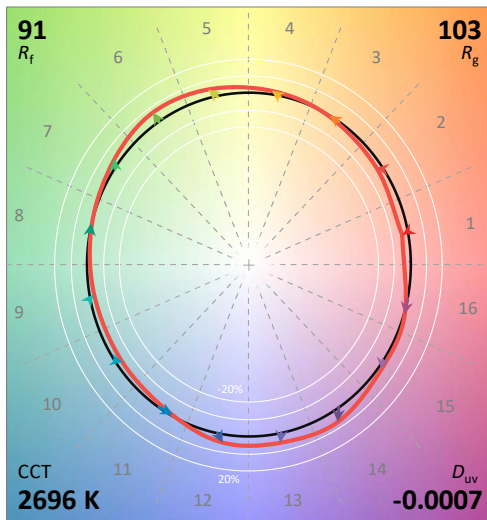
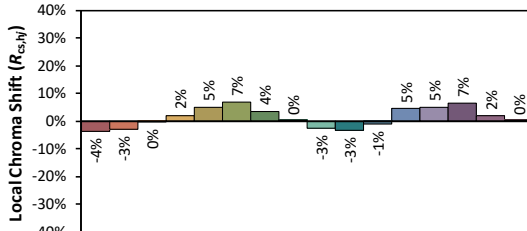
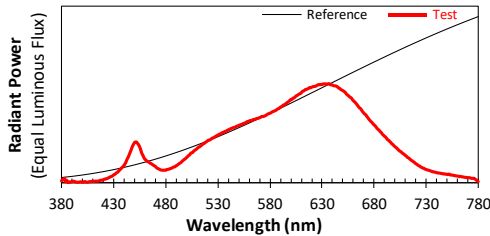
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2026/1/6

Model: SLV84727XXXCA



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

x 0.4590
 y 0.4086
 u' 0.2629
 v' 0.5265

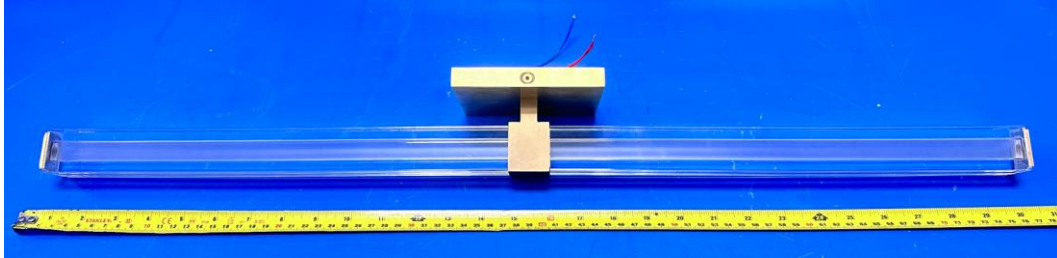
CIE 13.3-1995
(CRI)
 R_a 93
 R_g 71

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

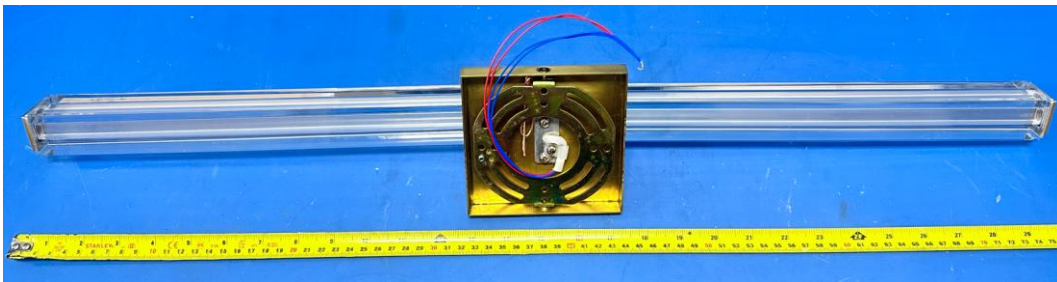
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLV84727XXXCA



External view of SLV84727XXXCA



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 *****