

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-024

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None

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Report format for LM-79_G

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Report No.: 251110010GZU-024

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLPD765SCTXOA

Remark: "X" 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 SLPD765SCTXOA. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-027.
<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>	15 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:	SLPD765SCTXOA
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLPD765SCTXOA

Criteria	Result
Total Lumen Output	3094.1 lm
Total Power	33.9 W
Luminaire Efficacy	91.3 lm/W
S/MH(C0/180)	1.41
S/MH(C90/270)	1.60
Correlated Color Temperature (CCT)	2902 K
Color Rendering Index (CRI)	93
R9	62
Chromaticity Coordinate (x)	0.4420
Chromaticity Coordinate (y)	0.4023
Chromaticity Coordinate (u')	0.2546
Chromaticity Coordinate (v')	0.5214

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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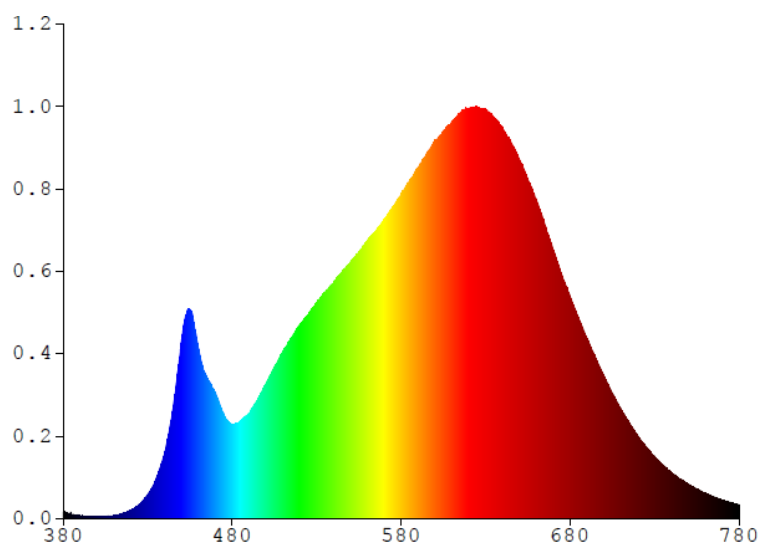
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLPD765SCTXOA

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	1.5161	480	22.7900	580	78.9740	680	54.1110	780	3.3571
385	0.9817	485	23.8680	585	82.2630	685	48.8990		
390	0.6743	490	25.7370	590	85.4840	690	43.9020		
395	0.4950	495	28.9060	595	88.7180	695	39.1610		
400	0.4996	500	32.8210	600	92.1380	700	34.6980		
405	0.4911	505	36.8480	605	94.2580	705	30.5230		
410	0.7085	510	40.5750	610	96.5340	710	26.7150		
415	1.2842	515	43.9140	615	98.8160	715	23.3180		
420	2.0998	520	47.3060	620	99.8700	720	20.1930		
425	3.4458	525	49.6880	625	100.110	725	17.4210		
430	5.7958	530	52.5330	630	99.6860	730	15.0690		
435	9.6411	535	55.1520	635	97.6260	735	13.0510		
440	15.9860	540	57.3750	640	95.1110	740	11.2080		
445	26.7970	545	60.0290	645	91.5960	745	9.6550		
450	43.3940	550	62.4230	650	87.4120	750	8.3491		
455	50.7930	555	65.0150	655	82.4560	755	7.2119		
460	41.4440	560	67.5590	660	77.6350	760	6.1506		
465	34.2870	565	70.0120	665	71.5930	765	5.2591		
470	30.5860	570	72.7610	670	65.4080	770	4.5727		
475	25.4280	575	75.8660	675	58.1490	775	3.9298		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD765SCTXOA

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

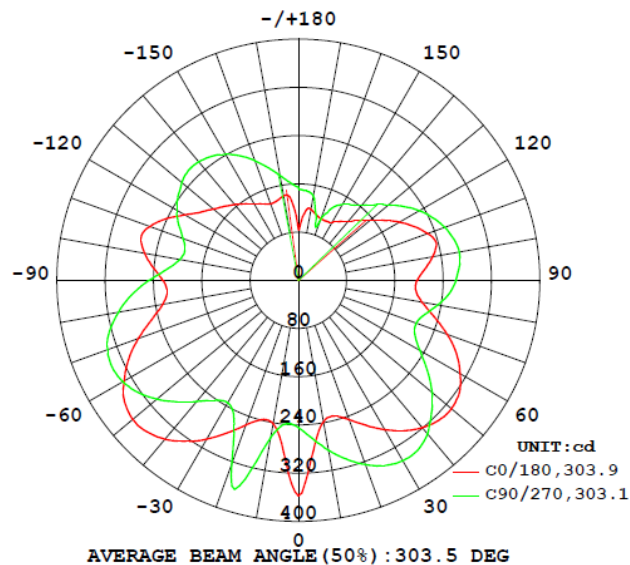
Photometric Measurements at 25°C – Distribution Method

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')
SLPD765SCTXOA								
S2511100 10-027	base-up	2902	93	62	0.4420	0.4023	0.2546	0.5214

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)
SLPD765SCTXOA							
S2511100 10-027	base-up	120.1	284.4	33.9	0.99	3094.1	91.3

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD765SCTXOA

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	357.1	239.3	230.1	238.1	244.3
5	284.2	231.2	241.7	255.4	263.1
10	238.7	241.1	260.1	278.7	285.7
15	233.2	257.4	280.4	302.5	306.9
20	246.1	274.9	299.6	323.5	325.3
25	265.3	290.7	315.3	339.7	338.8
30	286.0	302.8	326.1	349.4	345.7
35	304.3	309.4	329.5	350.5	344.1
40	319.0	310.9	324.9	342.1	332.5
45	328.2	305.5	309.6	323.5	311.9
50	330.9	291.8	289.6	300.9	288.8
55	325.1	274.0	263.9	272.1	260.4
60	309.4	250.6	234.6	240.7	232.3
65	288.9	223.9	209.7	216.8	212.7
70	262.4	200.6	197.7	207.6	207.9
75	232.6	188.0	200.5	213.4	217.3
80	207.7	189.0	212.9	228.6	234.6
85	195.1	200.3	226.2	244.4	250.8
90	196.7	214.7	235.1	254.5	261.0
95	209.8	225.8	238.9	259.4	267.4
100	225.4	232.2	242.2	262.9	270.5
105	236.7	238.1	240.0	259.6	266.5
110	227.9	234.4	233.6	251.7	257.9
115	211.9	228.5	224.5	240.9	246.0
120	193.3	220.1	212.0	227.4	231.4
125	174.1	209.0	198.2	210.8	214.0
130	156.4	196.2	184.1	193.1	195.2
135	140.6	182.8	170.5	176.8	177.7
140	129.0	167.2	158.6	162.8	163.3
145	119.6	150.1	149.6	153.1	153.3
150	112.1	138.3	143.8	145.9	145.2
155	108.6	133.3	135.9	134.9	132.5
160	109.1	130.3	110.4	109.9	108.0
165	113.3	114.1	95.2	110.3	114.1
170	119.9	86.9	142.5	143.4	142.4
175	111.5	133.8	151.3	151.2	149.2
180	84.8	147.4	153.1	153.6	151.8

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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD765SCTXOA

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLPD765SCTXOA		
0-30	247.9	8.0
0-40	431.7	14.0
0-60	922.3	29.8
0-90	1753.9	56.7
60-90	831.6	26.9
0-180	3094.1	100.0

Beam Angle

Total Beam Angle(°)

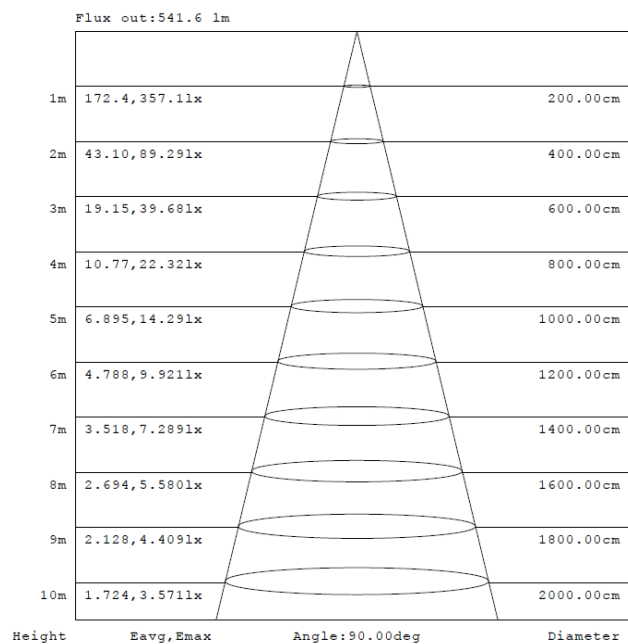
303.5

Illumination Plots

Model No.: SLPD765SCTXOA

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

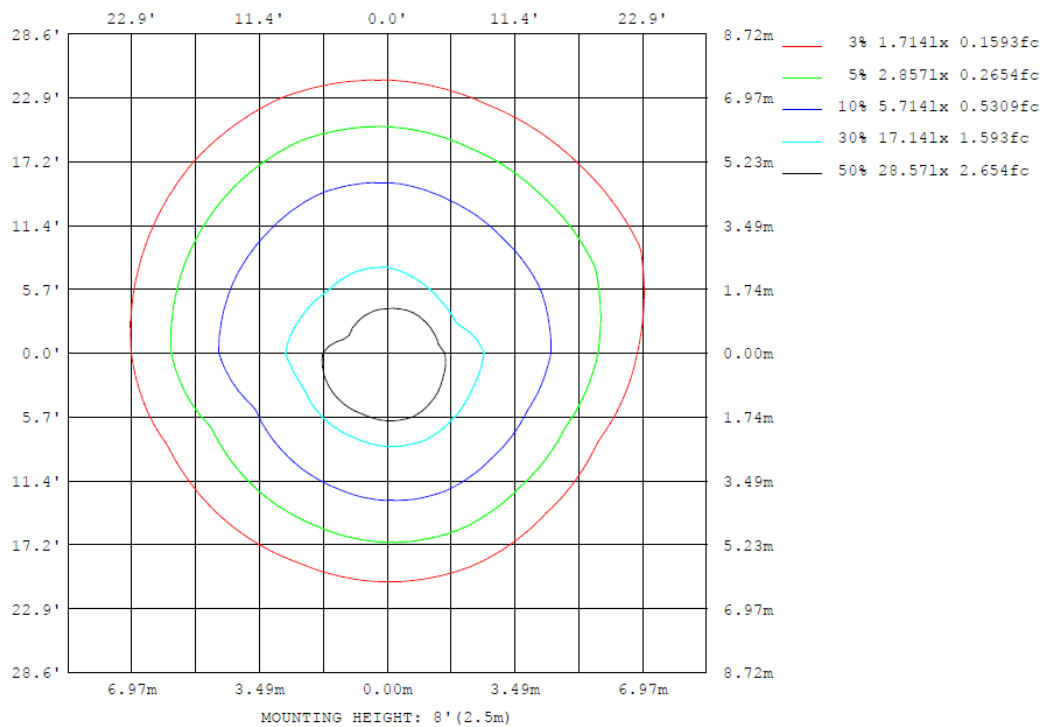
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD765SCTXOA

Model No.: SLPD765SCTXOA

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD765SCTXOA

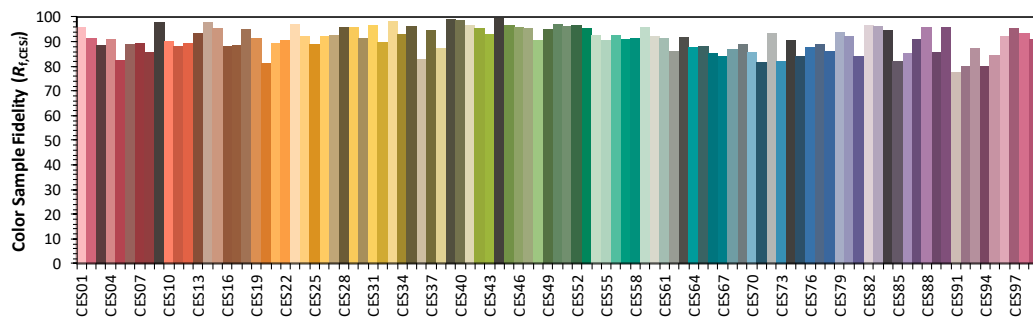
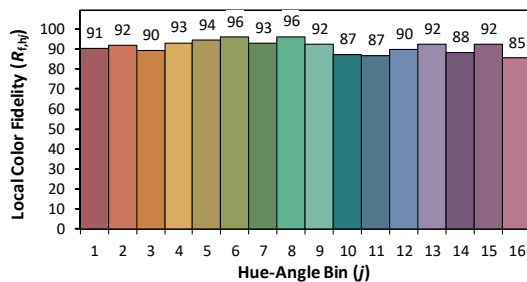
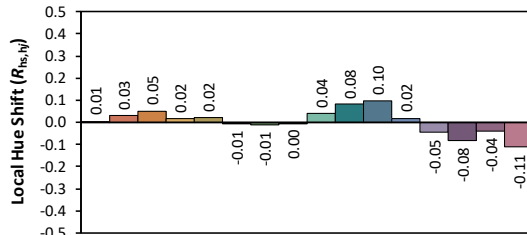
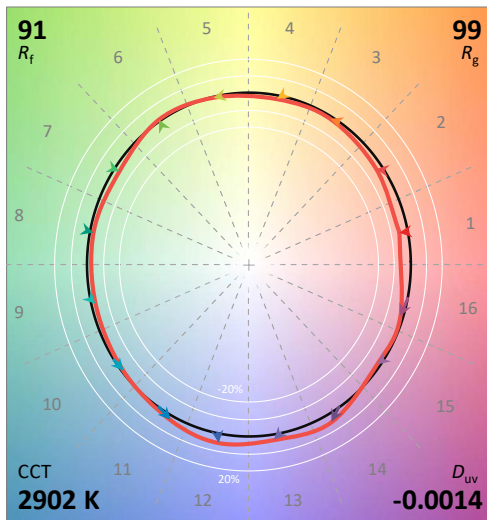
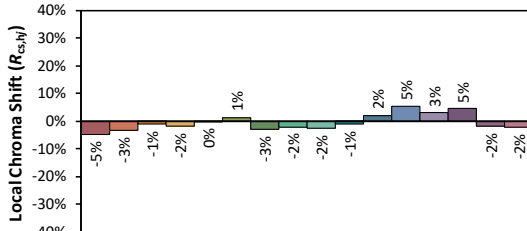
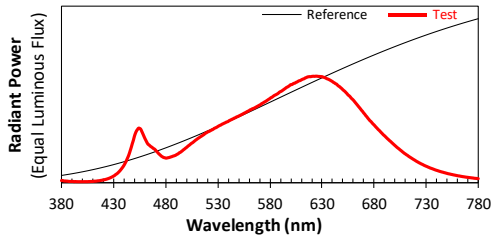
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/12/15

Model: SLPD765SCTXOA



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

x 0.4420
 y 0.4023
 u' 0.2546
 v' 0.5214

CIE 13.3-1995
(CRI)
 R_a 93
 R_g 62

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

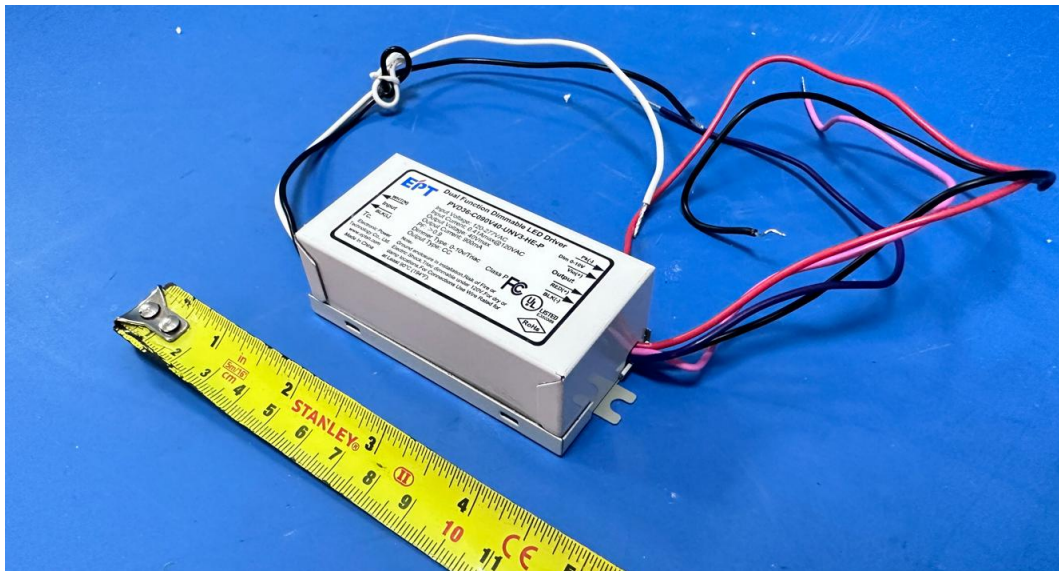
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLPD765SCTXOA



View of LED driver PVD36-C090V40-UNV3-HE-P

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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 *****