

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-057

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REVISION DATE

None

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Report format for LM-79_G

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Report No.: 251110010GZU-057

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLPD764SCTXOA

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 SLPD764SCTXOA. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-044.
<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:	SLPD764SCTXOA
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLPD764SCTXOA

Criteria	Result
Total Lumen Output	2175.9 lm
Total Power	26.7 W
Luminaire Efficacy	81.4 lm/W
S/MH(C0/180)	1.17
S/MH(C90/270)	1.23
Correlated Color Temperature (CCT)	2897 K
Color Rendering Index (CRI)	92
R9	61
Chromaticity Coordinate (x)	0.4421
Chromaticity Coordinate (y)	0.4019
Chromaticity Coordinate (u')	0.2549
Chromaticity Coordinate (v')	0.5213

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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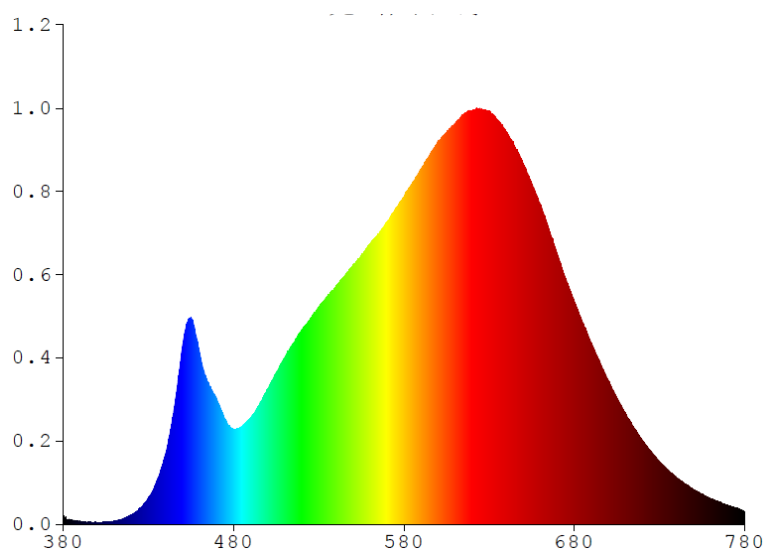
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLPD764SCTXOA

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	1.0247	480	13.1910	580	45.5420	680	31.0080	780	1.7917
385	0.6101	485	13.6660	585	47.4190	685	27.9790		
390	0.4023	490	14.8250	590	49.2800	690	25.1230		
395	0.3193	495	16.5590	595	51.2180	695	22.5030		
400	0.2567	500	18.8410	600	53.2420	700	19.9530		
405	0.3229	505	21.0590	605	54.3130	705	17.5650		
410	0.5027	510	23.1620	610	55.6410	710	15.4030		
415	0.8196	515	25.1140	615	56.9260	715	13.4490		
420	1.3751	520	27.0590	620	57.4410	720	11.6760		
425	2.2442	525	28.5250	625	57.5990	725	10.1050		
430	3.6735	530	30.0950	630	57.2540	730	8.7413		
435	6.0229	535	31.6760	635	56.1230	735	7.5721		
440	9.7284	540	32.9820	640	54.4800	740	6.5076		
445	15.8080	545	34.4160	645	52.4340	745	5.6446		
450	24.6200	550	35.9090	650	50.0620	750	4.8710		
455	28.6530	555	37.3460	655	47.3060	755	4.1992		
460	23.8220	560	38.8730	660	44.4070	760	3.5629		
465	19.6820	565	40.3890	665	41.0630	765	3.0903		
470	17.4450	570	42.0020	670	37.5090	770	2.6635		
475	14.6410	575	43.7920	675	33.3970	775	2.3000		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD764SCTXOA

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

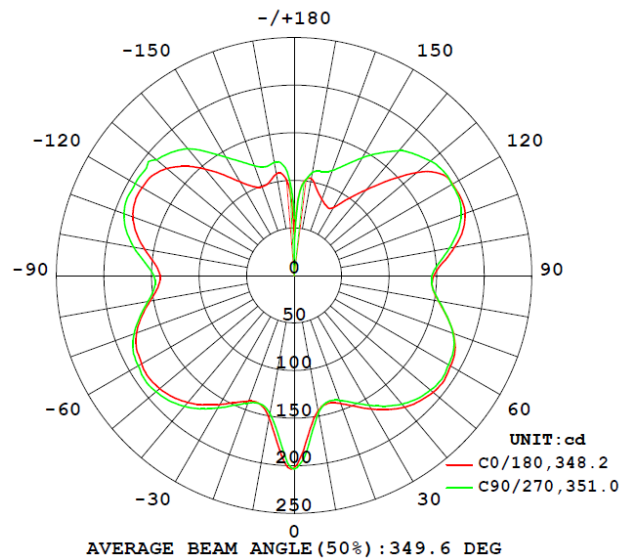
Photometric Measurements at 25°C – Distribution Method

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')
SLPD764SCTXOA								
S2511100 10-044	base-up	2897	92	61	0.4421	0.4019	0.2549	0.5213

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)
SLPD764SCTXOA							
S2511100 10-044	base-up	120.1	223.9	26.7	0.99	2175.9	81.4

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD764SCTXOA

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	202.0	199.4	200.7	202.2	203.3
5	168.6	162.7	165.2	170.2	178.0
10	144.6	142.9	144.1	145.1	146.8
15	139.0	140.0	140.5	138.7	137.3
20	143.1	146.4	146.4	142.5	139.6
25	151.7	156.9	156.8	150.9	147.4
30	161.9	168.7	168.7	161.4	157.3
35	171.8	180.3	180.6	171.8	167.5
40	180.5	189.9	190.9	180.9	176.3
45	186.7	197.1	198.4	187.9	183.0
50	190.7	201.8	203.2	192.0	187.2
55	192.4	203.7	205.2	194.0	189.7
60	190.0	201.1	202.5	191.5	187.4
65	186.6	196.7	198.7	188.7	185.0
70	178.3	186.9	189.2	180.6	177.8
75	166.1	173.5	176.2	168.6	166.5
80	153.9	160.6	163.3	156.4	154.5
85	146.2	153.5	154.9	148.1	146.0
90	146.9	155.4	156.0	147.9	145.0
95	157.0	167.3	166.8	156.9	152.8
100	171.0	182.5	182.0	170.8	165.6
105	183.7	195.9	196.2	183.4	178.0
110	191.3	205.2	205.8	192.3	186.9
115	193.4	208.3	209.5	196.1	191.5
120	192.3	208.6	209.5	195.9	191.6
125	186.9	204.9	207.9	195.3	191.6
130	168.4	197.7	201.4	190.1	187.3
135	142.0	188.7	189.5	182.8	180.1
140	117.9	175.8	171.3	172.6	171.2
145	98.3	159.9	155.3	157.8	157.3
150	82.9	141.5	139.9	143.4	143.0
155	80.8	121.8	126.8	130.0	128.6
160	85.4	110.6	116.8	119.2	117.5
165	93.2	107.5	112.0	114.1	113.1
170	103.4	107.1	108.2	109.4	110.0
175	95.6	89.8	90.8	92.1	95.2
180	38.8	26.5	31.3	20.8	17.9

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD764SCTXOA

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLPD764SCTXOA		
0-30	126.4	5.8
0-40	235.3	10.8
0-60	557.8	25.6
0-90	1094.5	50.3
60-90	536.7	24.7
0-180	2175.9	100.0

Beam Angle

Total Beam Angle(°)

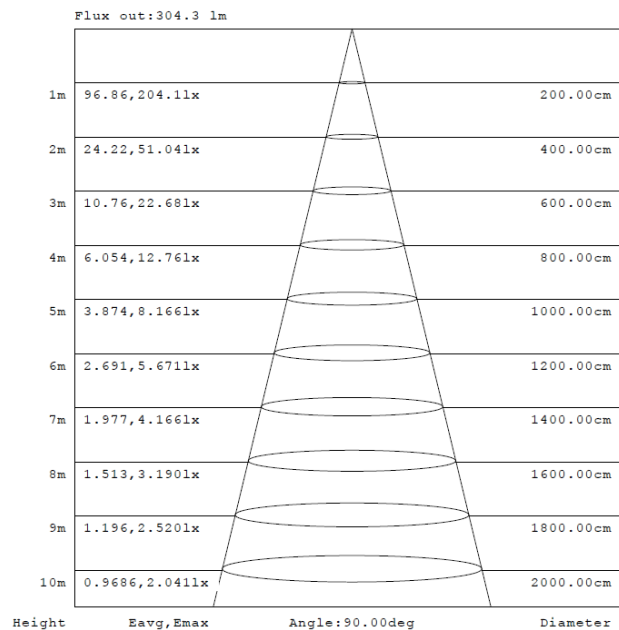
349.6

Illumination Plots

Model No.: SLPD764SCTXOA

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

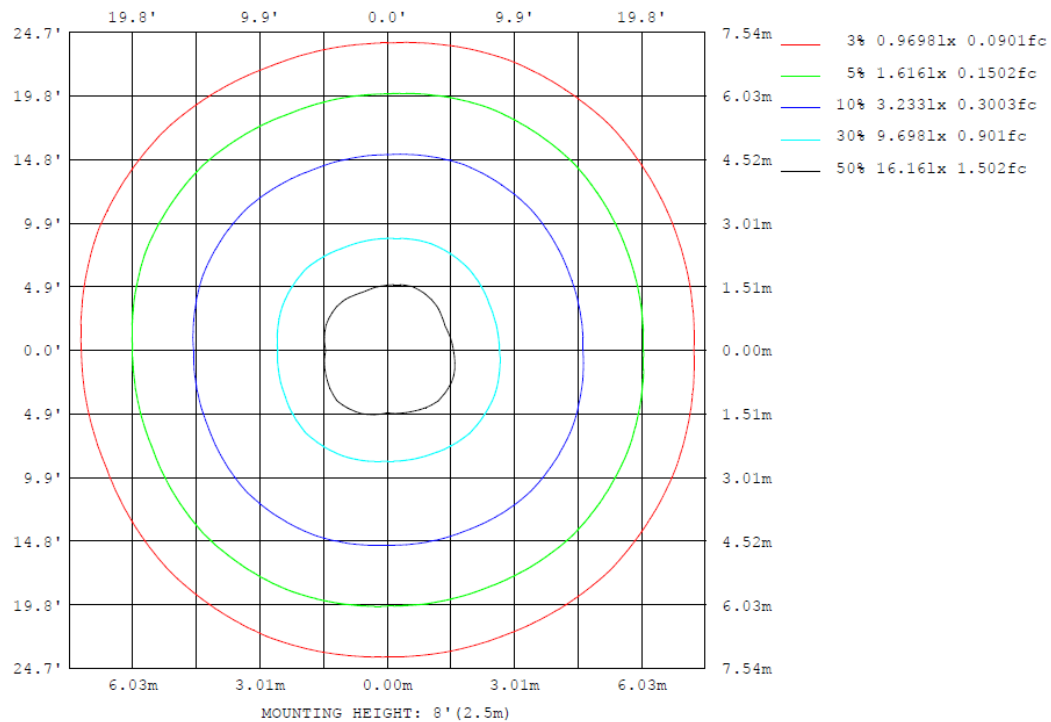
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD764SCTXOA

Model No.: SLPD764SCTXOA

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLPD764SCTXOA

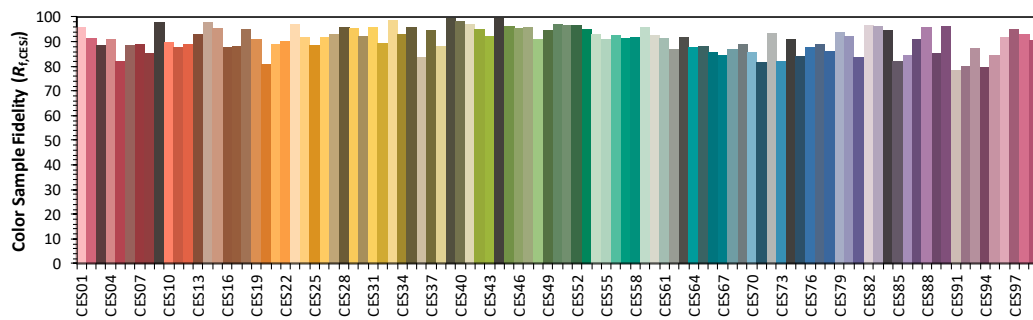
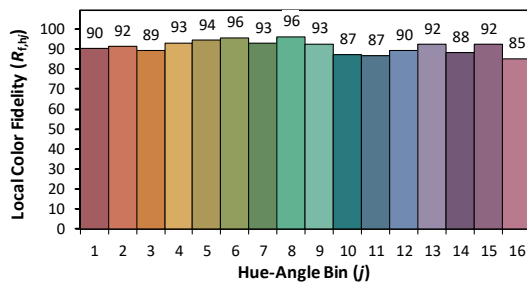
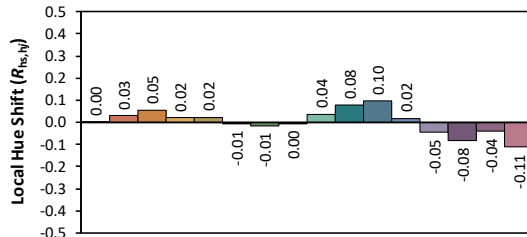
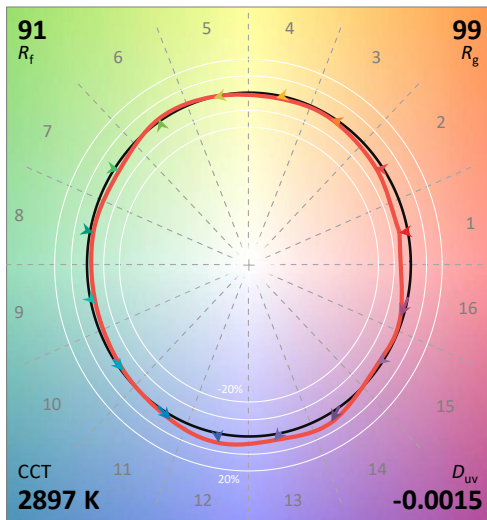
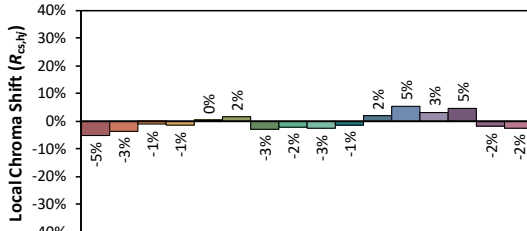
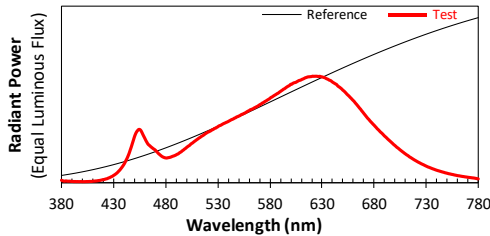
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2026/1/8

Model: SLPD764SCTXOA



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

x 0.4421
 y 0.4019
 u' 0.2549
 v' 0.5213

CIE 13.3-1995
(CRI)
 R_a 92
 R_g 61

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

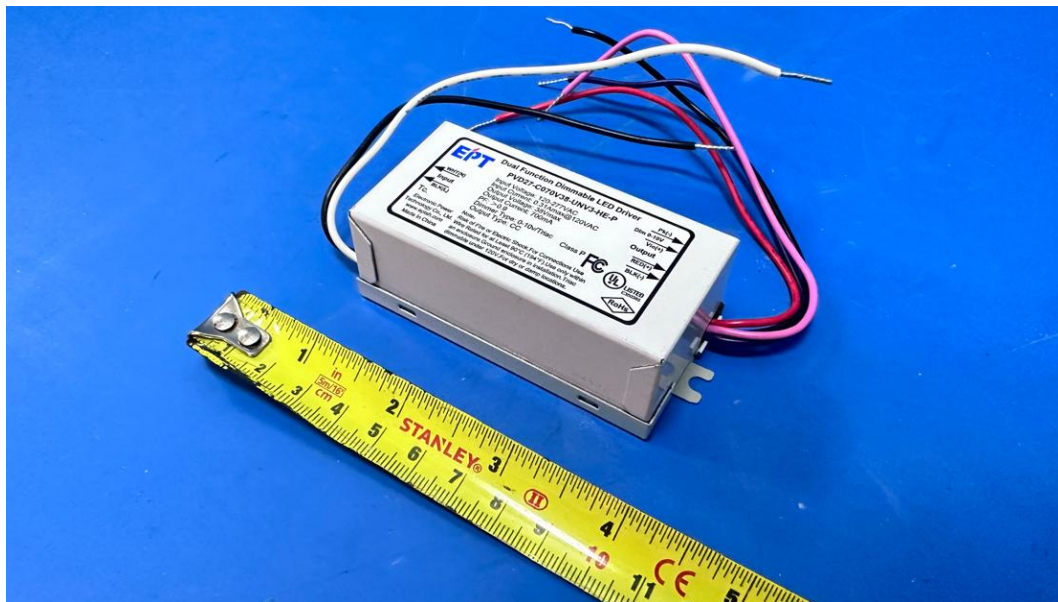
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLPD764SCTXOA



View of LED driver PVD27-C070V40-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 *****