

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251027068GZU-004

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None

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Report format for LM-79_G

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Report No.: 251027068GZU-004

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLOCH77930XXX

Remark: "XXX" 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: QGZ251023107.
<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 SLOCH77930XXX. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251027068-004.
<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>	25 November 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:	SLOCH77930XXX
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLOCH77930XXX

Criteria	Result
Total Lumen Output	6446.5 lm
Total Power	105.9 W
Luminaire Efficacy	60.9 lm/W
S/MH(C0/180)	1.29
S/MH(C90/270)	1.96
Correlated Color Temperature (CCT)	3023 K
Color Rendering Index (CRI)	92
R9	54
Chromaticity Coordinate (x)	0.4346
Chromaticity Coordinate (y)	0.4019
Chromaticity Coordinate (u')	0.2500
Chromaticity Coordinate (v')	0.5202

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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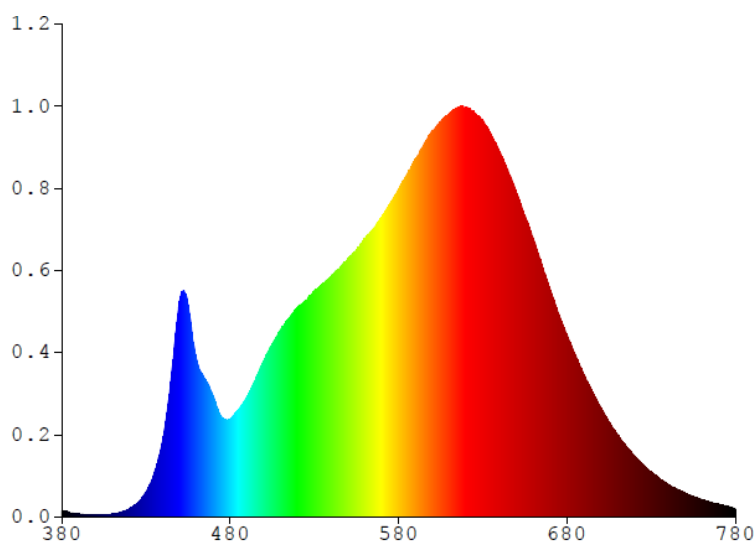
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLOCH77930XXX

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	3.4851	480	63.7500	580	215.140	680	119.6800	780	5.1835
385	2.5884	485	70.5290	585	224.960	685	106.1900		
390	2.2087	490	79.0360	590	234.970	690	93.6200		
395	1.4009	495	90.4330	595	244.290	695	82.4940		
400	1.0859	500	102.5300	600	254.080	700	72.1330		
405	1.6184	505	113.2900	605	259.500	705	62.4600		
410	2.0054	510	123.0200	610	264.150	710	53.8970		
415	3.2048	515	130.3100	615	268.850	715	46.7890		
420	5.1875	520	137.9000	620	268.540	720	40.1660		
425	9.2894	525	142.6400	625	265.460	725	34.5000		
430	16.1970	530	148.4400	630	260.500	730	29.6140		
435	29.0030	535	153.4000	635	250.970	735	25.2430		
440	51.2150	540	157.8700	640	239.690	740	21.4240		
445	91.6550	545	163.2800	645	227.160	745	18.3510		
450	142.080	550	169.5000	650	213.050	750	15.6480		
455	138.530	555	175.6200	655	197.810	755	13.5730		
460	103.390	560	182.6300	660	182.600	760	11.4250		
465	90.3410	565	189.2700	665	166.030	765	9.7517		
470	78.9160	570	196.7100	670	149.140	770	8.2673		
475	65.3470	575	205.9400	675	130.440	775	7.0748		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOCH77930XXX

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

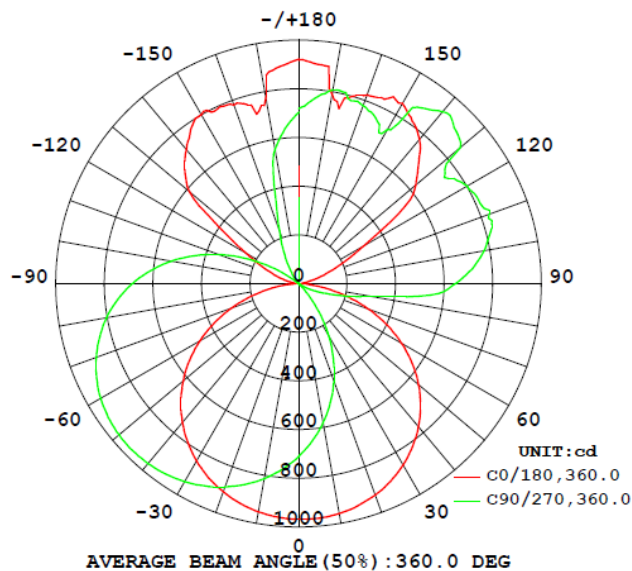
Photometric Measurements at 25°C – Distribution Method

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')
SLOCH77930XXX								
S2510270 68-004	base-up	3023	92	54	0.4346	0.4019	0.2500	0.5202

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)
SLOCH77930XXX							
S2510270 68-004	base-up	120.1	883.7	105.9	0.998	6446.5	60.9

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOCH77930XXX

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	968.1	914.5	791.3	760.9	710.1
5	966.7	885.1	739.1	705.1	649.0
10	959.2	847.2	679.7	643.1	581.4
15	944.7	803.8	613.5	574.6	507.3
20	924.0	752.4	540.1	498.6	426.7
25	896.2	694.0	459.5	416.2	340.1
30	860.8	627.7	372.2	328.2	250.3
35	818.4	554.1	280.8	236.8	160.4
40	768.2	472.9	187.5	146.2	76.7
45	710.6	385.2	98.3	63.0	13.1
50	645.0	292.5	25.1	6.5	1.2
55	571.5	196.7	1.9	2.3	5.6
60	489.9	105.5	9.4	10.3	28.0
65	401.3	28.3	23.1	36.5	65.0
70	306.7	2.4	55.2	78.5	121.1
75	209.4	10.6	103.4	137.1	199.6
80	114.5	25.9	172.5	219.8	317.5
85	31.2	66.6	275.9	355.5	544.4
90	2.8	122.4	496.8	581.4	645.9
95	11.3	198.7	626.7	668.0	718.8
100	26.3	305.2	702.3	741.0	774.7
105	64.7	501.6	777.3	794.4	819.2
110	121.6	628.7	820.4	835.9	835.7
115	198.3	697.9	852.9	851.6	816.6
120	309.3	772.5	836.3	824.6	801.8
125	502.4	818.2	818.7	806.1	754.3
130	628.6	849.3	787.0	738.0	869.9
135	699.4	833.8	791.4	891.9	906.3
140	774.1	822.5	907.1	910.1	921.7
145	815.5	790.8	919.6	907.0	882.1
150	854.7	781.2	895.0	884.2	731.5
155	836.6	905.6	751.9	710.9	751.6
160	824.1	920.9	745.7	751.0	777.3
165	790.8	895.4	760.5	771.6	789.2
170	792.4	755.4	772.2	793.4	809.2
175	904.2	748.9	798.2	790.2	763.8
180	919.7	771.7	760.8	745.2	719.7

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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOCH77930XXX

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLOCH77930XXX		
0-30	605.4	9.4
0-40	994.2	15.4
0-60	1856.3	28.8
0-90	3305.8	51.3
60-90	1449.5	22.5
0-180	6446.5	100.0

Beam Angle

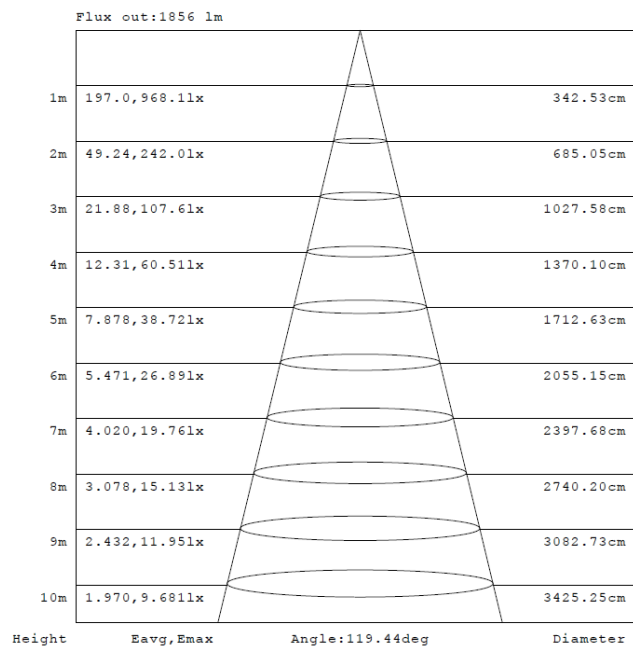
Total Beam Angle(°)
360.0

Illumination Plots

Model No.: SLOCH77930XXX

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

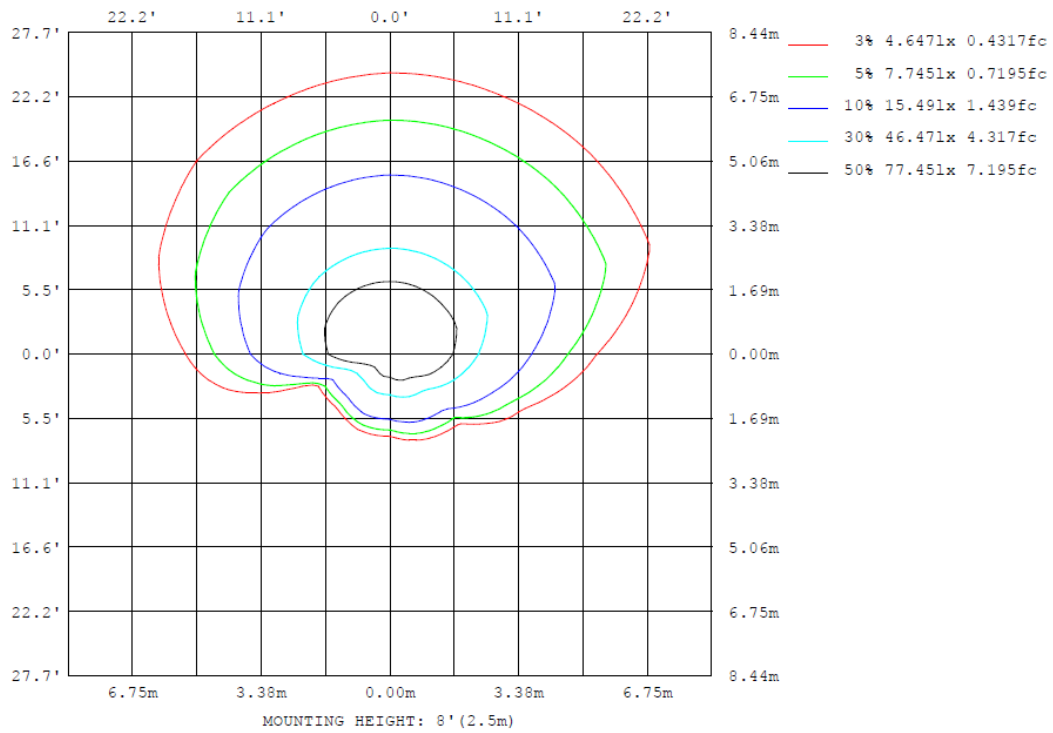
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOCH77930XXX

Model No.: SLOCH77930XXX

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOCH77930XXX

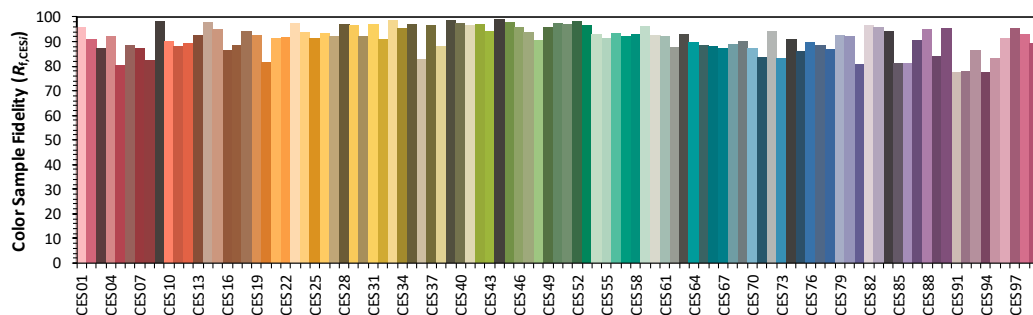
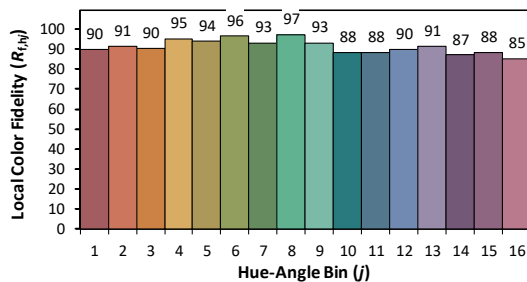
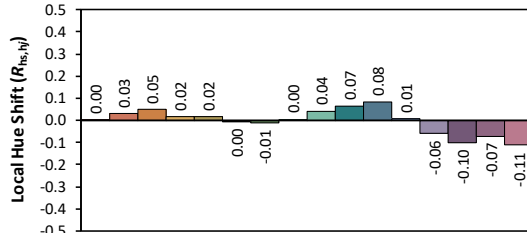
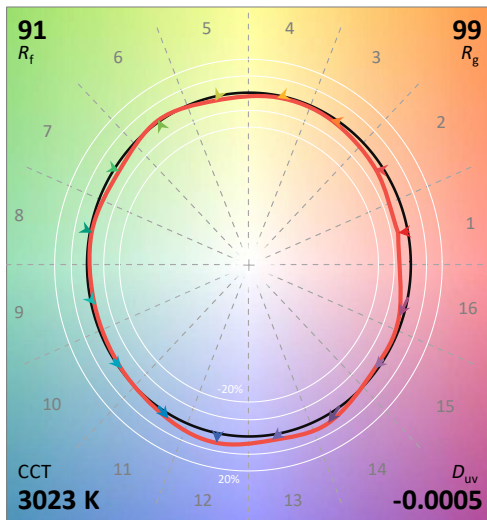
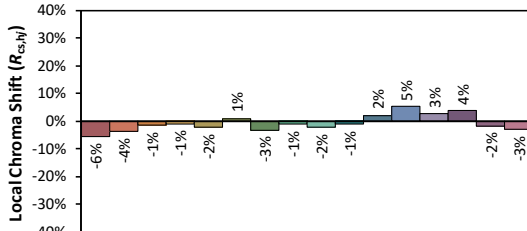
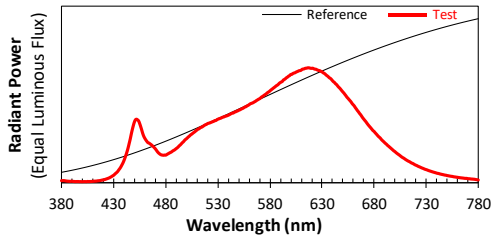
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/11/25

Model: SLOCH77930XXX



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

x 0.4346
 y 0.4019
 u' 0.2500
 v' 0.5202

CIE 13.3-1995
(CRI)
 R_a 92
 R_g 54

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 SLOCH77930XXX

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

TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLOCH77930XXX

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

TEST REPORT

PRODUCT PICTURE (not to scale)



View of LED driver DA50W1400C2036-3001



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 *****