

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-006

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None

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Report No.: 251110010GZU-006

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLOWS85027XXCG

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 SLOWS85027XXCG. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-010.

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: 02 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:	SLOWS85027XXCG
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLOWS85027XXCG

Criteria	Result
Total Lumen Output	646.5 lm
Total Power	11.1 W
Luminaire Efficacy	58.4 lm/W
S/MH(C0/180)	3.13
S/MH(C90/270)	1.67
Correlated Color Temperature (CCT)	2449 K
Color Rendering Index (CRI)	91
R9	65
Chromaticity Coordinate (x)	0.4825
Chromaticity Coordinate (y)	0.4155
Chromaticity Coordinate (u')	0.2749
Chromaticity Coordinate (v')	0.5326

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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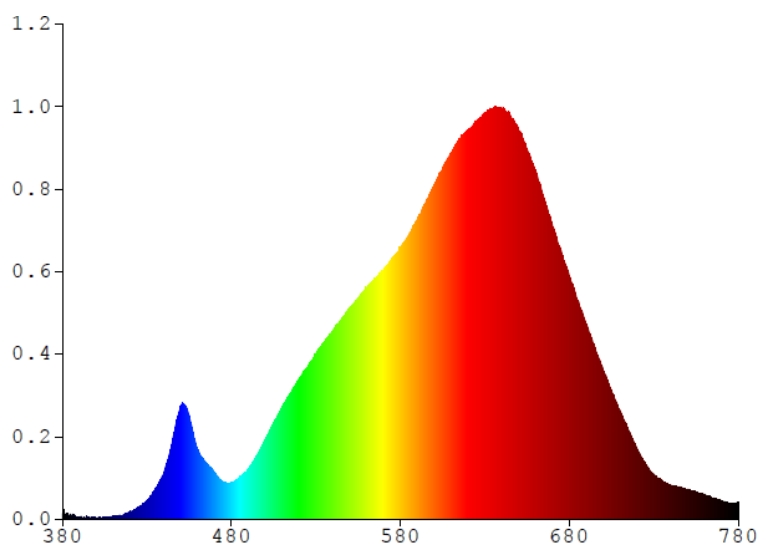
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLOWS85027XXCG

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.2732	480	1.3337	580	9.8295	680	8.7980	780	0.6132
385	0.1440	485	1.5428	585	10.2880	685	7.9148		
390	0.0576	490	1.8242	590	10.8100	690	7.0441		
395	0.0794	495	2.2939	595	11.4420	695	6.2267		
400	0.0543	500	2.8914	600	12.1000	700	5.3746		
405	0.0596	505	3.4714	605	12.6840	705	4.6417		
410	0.1083	510	4.0738	610	13.2040	710	3.9274		
415	0.1189	515	4.5468	615	13.7570	715	3.2159		
420	0.2597	520	5.0769	620	14.0510	720	2.5578		
425	0.4225	525	5.4936	625	14.3820	725	2.0013		
430	0.6774	530	5.9906	630	14.6680	730	1.6142		
435	1.1064	535	6.4038	635	14.8570	735	1.3974		
440	1.6836	540	6.7933	640	14.8660	740	1.2271		
445	2.8020	545	7.2188	645	14.6140	745	1.1674		
450	4.0924	550	7.6222	650	14.0840	750	1.0866		
455	3.7270	555	8.0080	655	13.3600	755	0.9871		
460	2.5189	560	8.3521	660	12.6210	760	0.9011		
465	2.0289	565	8.6715	665	11.6000	765	0.7668		
470	1.6802	570	9.0208	670	10.6110	770	0.6730		
475	1.3491	575	9.4272	675	9.5285	775	0.5610		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85027XXCG

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

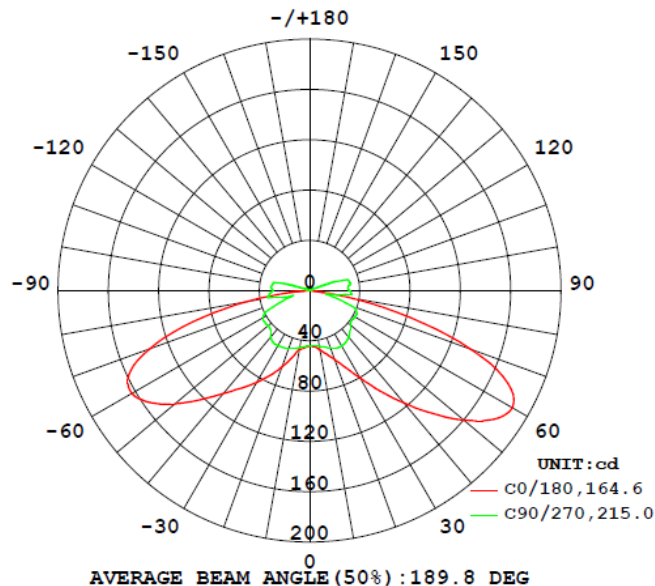
Photometric Measurements at 25°C – Distribution Method

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')
SLOWS85027XXCG								
S2511100 10-010	base-up	2449	91	65	0.4825	0.4155	0.2749	0.5326

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)
SLOWS85027XXCG							
S2511100 10-010	base-up	120.0	94.0	11.1	0.99	646.5	58.4

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85027XXCG

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	44.2	44.2	44.1	44.1	44.1
5	44.9	44.7	44.5	44.2	44.1
10	48.0	47.3	45.7	45.2	44.9
15	52.2	51.1	49.4	46.9	46.6
20	58.6	56.4	53.7	50.2	48.8
25	67.2	63.9	59.6	53.7	50.5
30	80.1	75.3	66.5	56.7	51.1
35	97.1	91.0	74.8	57.8	50.3
40	116.6	109.8	83.3	58.3	48.5
45	138.1	130.3	91.9	57.8	45.6
50	160.2	151.2	100.5	56.1	42.3
55	178.4	169.3	106.9	54.2	41.1
60	186.1	181.1	107.1	55.3	41.8
65	173.8	181.0	108.6	57.1	41.4
70	137.1	168.1	113.6	54.5	35.3
75	83.3	134.5	106.8	32.0	19.9
80	31.1	108.2	48.8	27.9	20.2
85	3.9	66.0	110.1	51.5	33.5
90	0.2	103.7	124.7	50.4	32.2
95	0.2	113.3	122.5	48.6	30.7
100	0.2	55.7	117.8	50.6	33.2
105	0.2	44.9	65.6	46.4	32.2
110	0.1	9.3	28.8	23.1	20.9
115	0.1	5.8	19.7	9.4	6.8
120	0.1	2.2	12.7	6.7	5.0
125	0.1	1.1	3.6	5.3	4.0
130	0.1	0.7	2.9	3.1	3.4
135	0.1	0.5	1.7	1.6	1.6
140	0.1	0.4	0.9	1.4	1.3
145	0.1	0.3	0.5	0.9	1.1
150	0.1	0.3	0.4	0.5	0.6
155	0.1	0.2	0.3	0.4	0.4
160	0.1	0.2	0.3	0.3	0.3
165	0.1	0.2	0.2	0.3	0.3
170	0.1	0.1	0.2	0.2	0.2
175	0.1	0.1	0.1	0.1	0.2
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 SLOWS85027XXCG

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLOWS85027XXCG		
0-30	47.3	7.3
0-40	94.8	14.7
0-60	258.1	39.9
0-90	512.9	79.3
60-90	254.8	39.4
0-180	646.5	100.0

Beam Angle

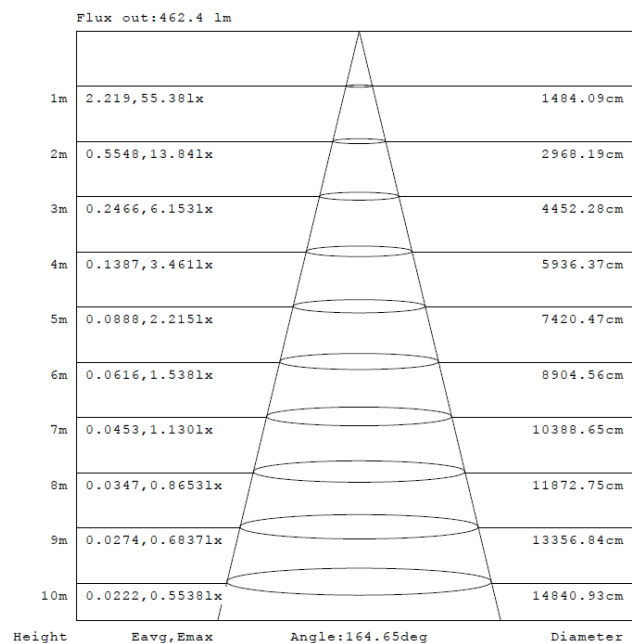
Total Beam Angle(°)
189.8

Illumination Plots

Model No.: SLOWS85027XXCG

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

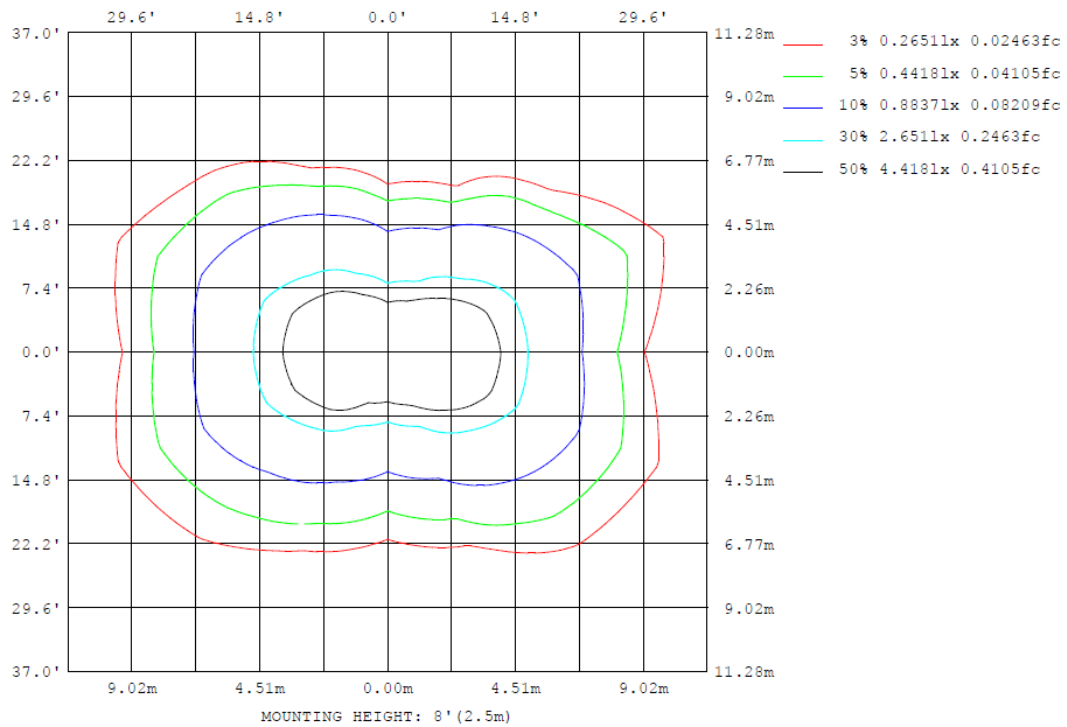
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85027XXCG

Model No.: SLOWS85027XXCG

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85027XXCG

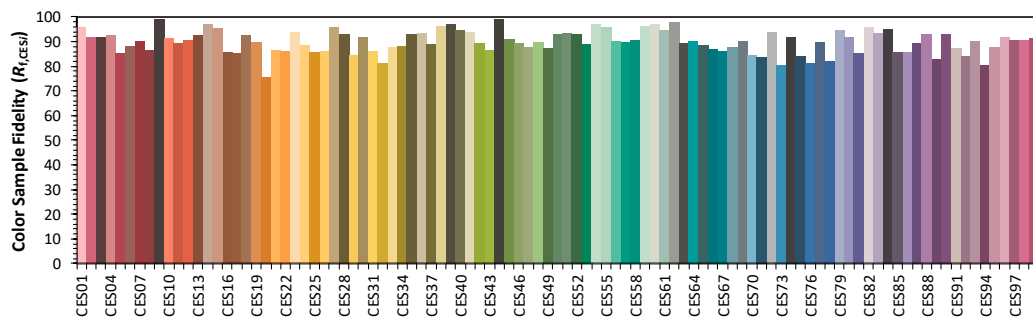
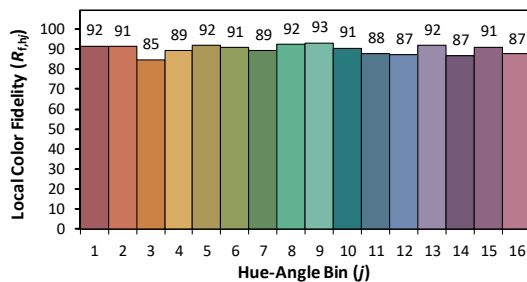
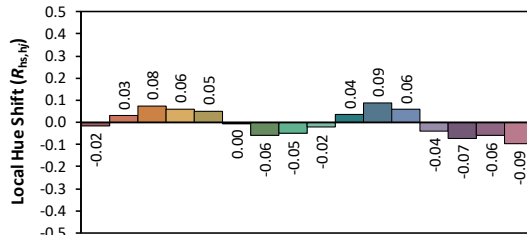
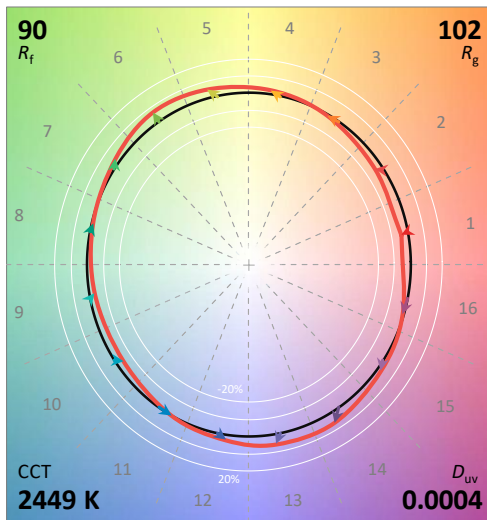
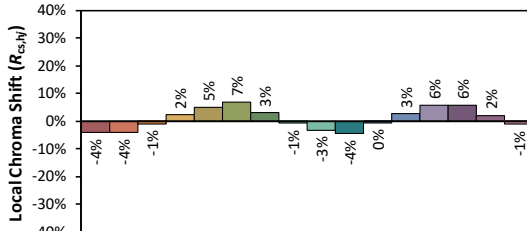
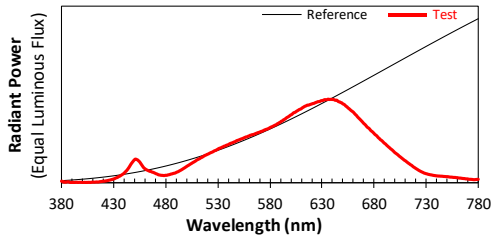
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/12/2

Model: SLOWS85027XXCG



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

x 0.4825
 y 0.4155
 u' 0.2749
 v' 0.5326

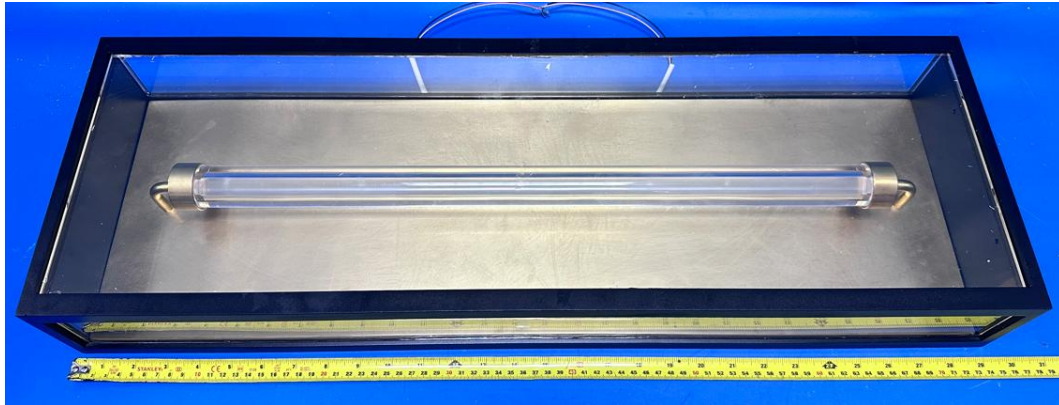
CIE 13.3-1995
(CRI)
 R_a 91
 R_g 65

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

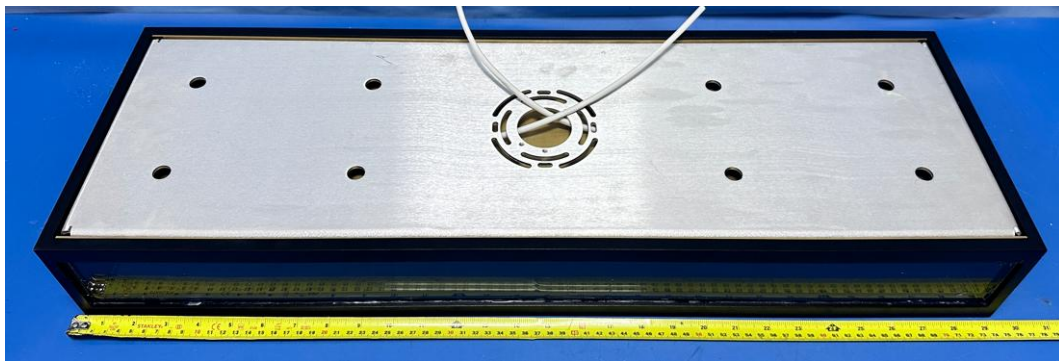
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLOWS85027XXCG



External view of SLOWS85027XXCG



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 *****