

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-004

ISSUE DATE

31 December 2025

REVISION DATE

None

NUMBER OF PAGES

13

DOCUMENT CONTROL NUMBER

Report format for LM-79_G

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Report No.: 251110010GZU-004

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLOWS85227XXCG

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 SLOWS85227XXCG. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-004.

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: 04 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:	SLOWS85227XXCG
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLOWS85227XXCG

Criteria	Result
Total Lumen Output	480.8 lm
Total Power	11.4 W
Luminaire Efficacy	42.3 lm/W
S/MH(C0/180)	3.09
S/MH(C90/270)	1.57
Correlated Color Temperature (CCT)	2302 K
Color Rendering Index (CRI)	92
R9	63
Chromaticity Coordinate (x)	0.4933
Chromaticity Coordinate (y)	0.4118
Chromaticity Coordinate (u')	0.2837
Chromaticity Coordinate (v')	0.5329

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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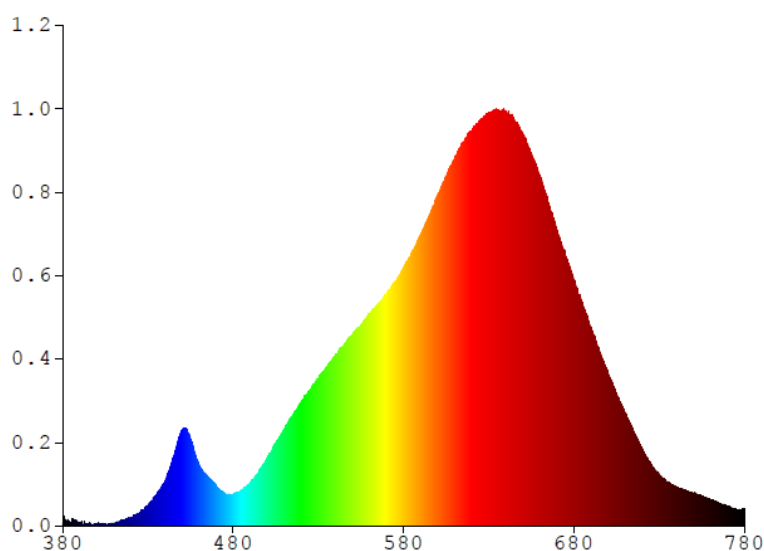
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLOWS85227XXCG

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	0.0489	480	0.7659	580	6.2556	680	5.9780	780	0.4126
385	0.0670	485	0.8911	585	6.6299	685	5.4046		
390	0.0870	490	1.0469	590	7.0543	690	4.8217		
395	0.0336	495	1.3157	595	7.5186	695	4.2275		
400	0.0036	500	1.6448	600	8.0095	700	3.7163		
405	0.0396	505	2.0048	605	8.4612	705	3.2168		
410	0.0479	510	2.3491	610	8.9163	710	2.7477		
415	0.1055	515	2.6874	615	9.3020	715	2.3015		
420	0.2164	520	3.0118	620	9.5646	720	1.8767		
425	0.3243	525	3.2827	625	9.8460	725	1.5000		
430	0.5002	530	3.5725	630	10.0180	730	1.2417		
435	0.7540	535	3.8618	635	10.0680	735	1.0611		
440	1.0866	540	4.1467	640	10.0490	740	0.9435		
445	1.6695	545	4.3915	645	9.8578	745	0.8698		
450	2.3046	550	4.6186	650	9.5323	750	0.7933		
455	2.0970	555	4.8811	655	9.0358	755	0.7313		
460	1.4854	560	5.1305	660	8.4806	760	0.6360		
465	1.1964	565	5.3859	665	7.8480	765	0.5562		
470	0.9728	570	5.6133	670	7.1829	770	0.4775		
475	0.7991	575	5.9299	675	6.4650	775	0.4083		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85227XXCG

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

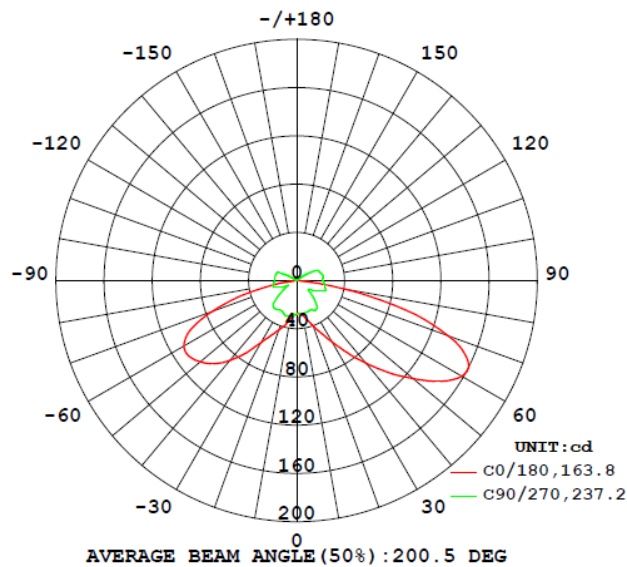
Photometric Measurements at 25°C – Distribution Method

Intertek Sample No.	Base Orientation	Correlated Color Temperature (K)	CRI	R9	CIE 31'	CIE 31'	CIE 76'	CIE 76'
					Chromaticit y	Chromaticit y	Chromaticit y	Chromaticit y
					Coordinate (x)	Coordinate (y)	Coordinate (u')	Coordinate (v')
SLOWS85227XXCG								
S2511100 10-004	base-up	2302	92	63	0.4933	0.4118	0.2837	0.5329

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)
SLOWS85227XXCG							
S2511100 10-004	base-up	120.2	95.9	11.4	0.99	480.8	42.3

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85227XXCG

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	28.1	27.9	27.9	28.0	28.0
5	27.3	27.4	26.9	26.9	27.7
10	29.2	29.1	28.0	26.8	27.6
15	33.5	32.8	29.4	27.2	27.5
20	39.8	38.4	32.7	27.8	27.4
25	48.0	45.3	36.8	28.2	27.1
30	58.7	54.3	40.7	29.5	28.4
35	72.8	65.5	46.4	33.5	28.7
40	89.4	80.0	54.9	32.8	25.1
45	107.8	95.1	62.8	28.3	19.6
50	126.6	110.5	62.0	21.5	13.4
55	145.6	127.7	51.6	16.2	12.0
60	158.7	142.0	34.7	20.3	16.7
65	156.8	126.6	33.8	27.8	20.6
70	134.0	75.3	62.5	36.6	25.0
75	92.9	41.4	93.0	41.1	24.8
80	39.8	92.5	103.9	40.2	24.0
85	5.3	126.1	104.2	39.5	23.0
90	0.1	122.7	100.1	37.9	21.9
95	0.1	122.4	97.7	36.8	21.6
100	0.1	115.7	99.6	37.7	22.4
105	0.1	58.3	90.9	36.1	21.7
110	0.1	27.1	78.4	33.8	20.5
115	0.2	21.4	40.7	30.5	19.9
120	0.1	15.6	13.8	18.8	15.0
125	0.1	7.3	6.2	9.3	9.2
130	0.1	2.2	5.2	2.9	2.8
135	0.1	1.1	4.2	2.4	1.9
140	0.1	0.5	3.0	2.2	1.8
145	0.1	0.4	1.6	1.9	1.7
150	0.1	0.3	0.7	1.2	1.3
155	0.1	0.2	0.4	0.6	0.7
160	0.1	0.2	0.3	0.4	0.4
165	0.1	0.1	0.2	0.3	0.3
170	0.1	0.1	0.1	0.2	0.2
175	0.1	0.1	0.1	0.1	0.1
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 SLOWS85227XXCG

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLOWS85227XXCG		
0-30	30.1	6.3
0-40	61.4	12.8
0-60	167.2	34.8
0-90	344.4	71.6
60-90	177.2	36.8
0-180	480.8	100.0

Beam Angle

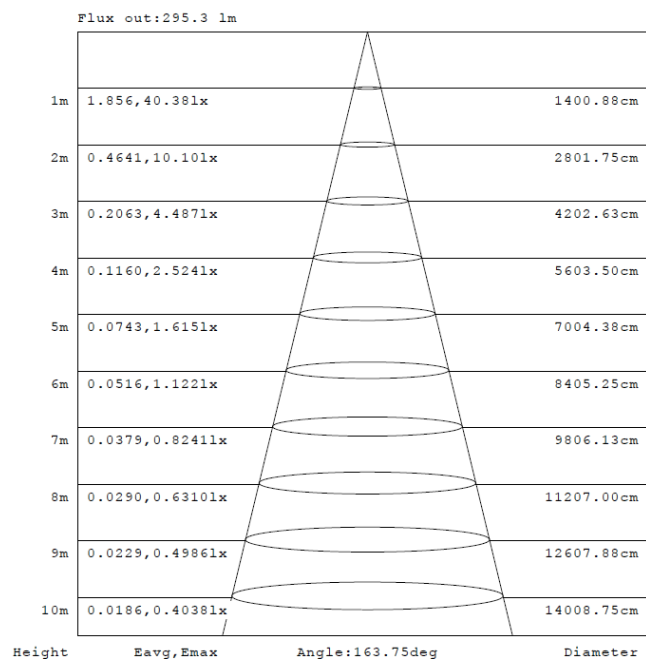
Total Beam Angle(°)
200.5

Illumination Plots

Model No.: SLOWS85227XXCG

Mount Height: 2.5 m

Illuminance - Cone of Light



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TEST REPORT

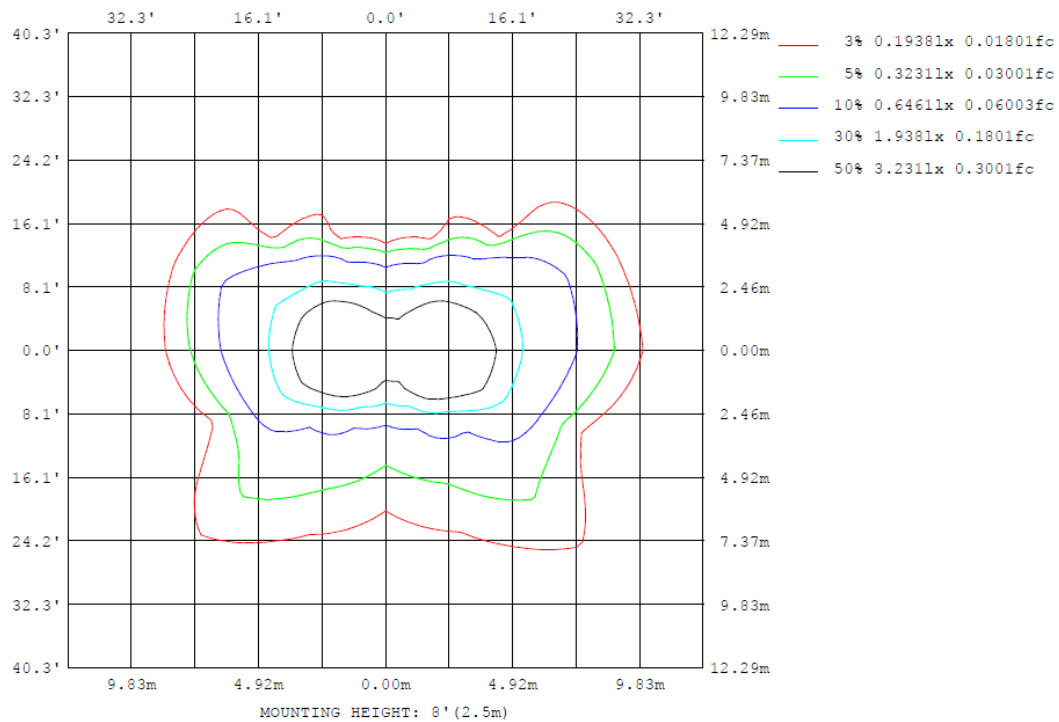
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85227XXCG

Model No.: SLOWS85227XXCG

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85227XXCG

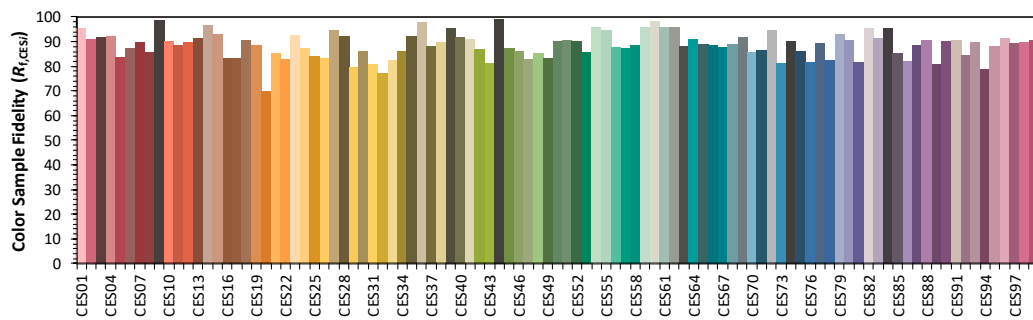
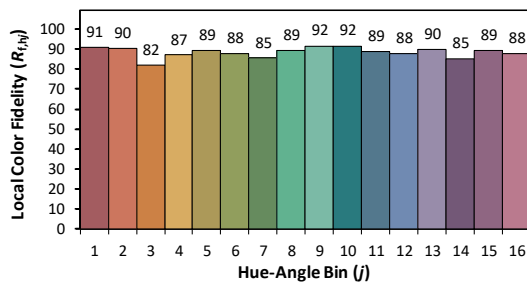
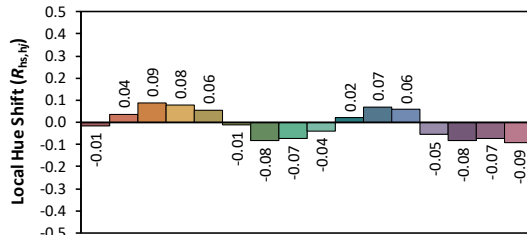
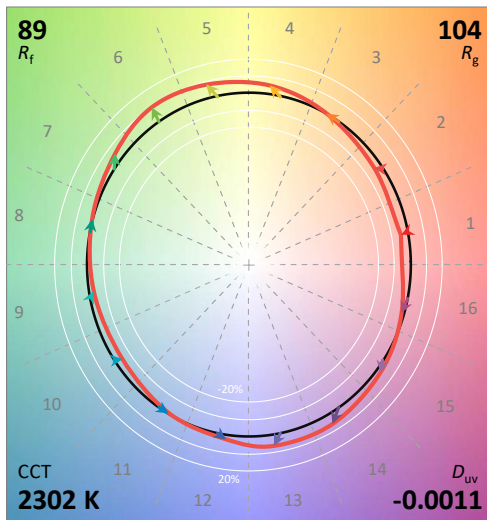
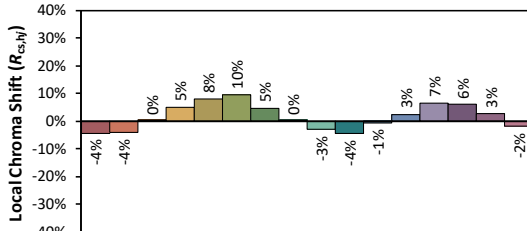
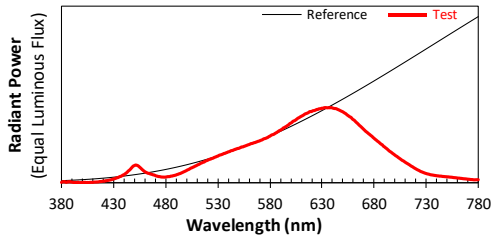
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/12/4

Model: SLOWS85227XXCG



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

x 0.4933
 y 0.4118
 u' 0.2837
 v' 0.5329

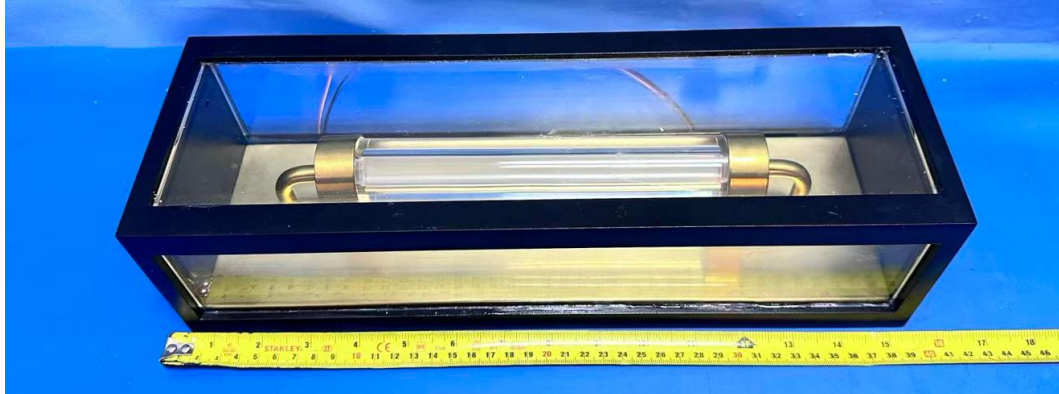
CIE 13.3-1995
(CRI)
 R_a 92
 R_g 63

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

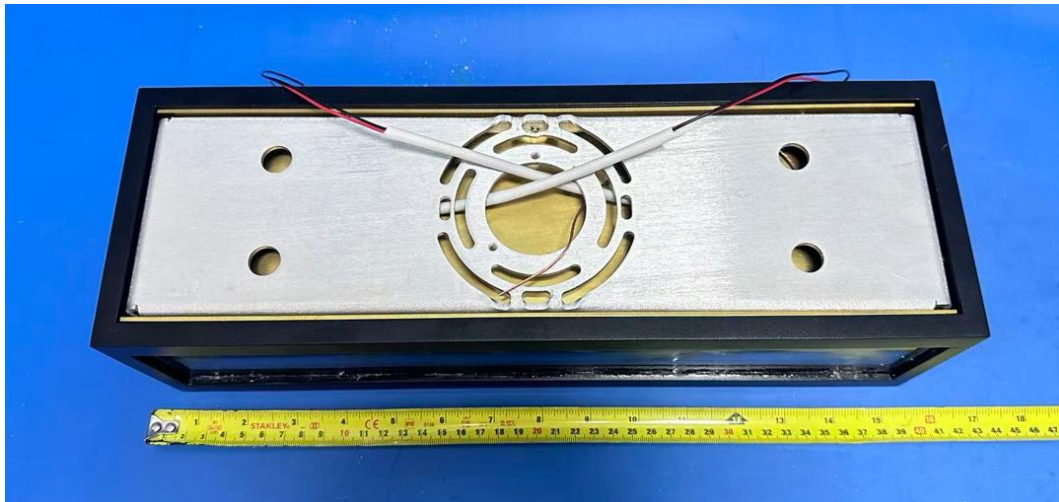
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLOWS85227XXCG



External view of SLOWS85227XXCG

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TEST REPORT

PRODUCT PICTURE (not to scale)



View of LED driver PTB15W-0300-38-VCC1(AB0257)



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 *****