

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-026

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None

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Report format for LM-79_G

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Report No.: 251110010GZU-026

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLOWS85327XXX

Remark: "XXX" 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 SLOWS85327XXX. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-029.

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: 17 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:	SLOWS85327XXX
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLOWS85327XXX

Criteria	Result
Total Lumen Output	499.4 lm
Total Power	11.7 W
Luminaire Efficacy	42.7 lm/W
S/MH(C0/180)	1.07
S/MH(C90/270)	1.51
Correlated Color Temperature (CCT)	2672 K
Color Rendering Index (CRI)	91
R9	67
Chromaticity Coordinate (x)	0.4648
Chromaticity Coordinate (y)	0.4157
Chromaticity Coordinate (u')	0.2633
Chromaticity Coordinate (v')	0.5300

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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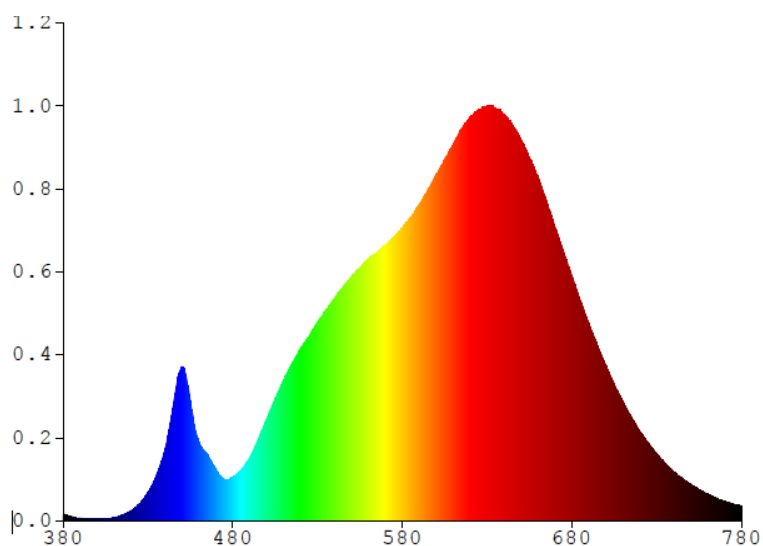
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLOWS85327XXX

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	1.2655	480	10.6410	580	71.9110	680	60.1950	780	3.6626
385	1.0040	485	12.5140	585	74.6650	685	54.1380		
390	0.6779	490	15.5240	590	77.6860	690	48.5700		
395	0.4424	495	19.8910	595	81.2030	695	43.1620		
400	0.4287	500	24.9480	600	85.1950	700	38.3010		
405	0.5483	505	29.9720	605	88.6400	705	33.4530		
410	0.8202	510	34.4820	610	92.3340	710	29.3230		
415	1.4618	515	38.5520	615	96.3030	715	25.6000		
420	2.4792	520	42.3320	620	99.1310	720	22.1200		
425	4.2363	525	45.2730	625	101.020	725	19.0900		
430	6.9947	530	48.7050	630	101.830	730	16.4800		
435	11.1960	535	51.8280	635	101.230	735	14.1900		
440	17.5220	540	54.5780	640	99.9050	740	12.1160		
445	28.4190	545	57.3610	645	97.2130	745	10.4610		
450	37.8940	550	59.8880	650	93.6060	750	8.9977		
455	29.1650	555	62.0900	655	89.0990	755	7.7071		
460	19.3000	560	64.2410	660	84.4580	760	6.5866		
465	16.2260	565	65.9040	665	78.6650	765	5.6497		
470	12.7240	570	67.7140	670	72.2040	770	4.8555		
475	10.2240	575	69.8050	675	64.8130	775	4.1836		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85327XXX

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

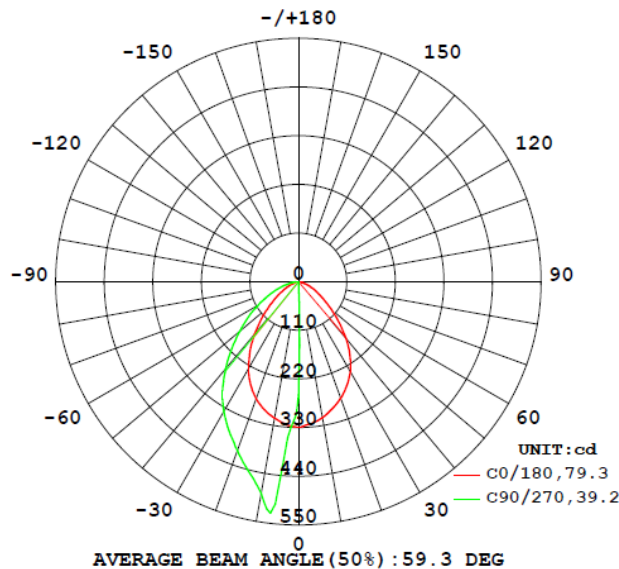
Photometric Measurements at 25°C – Distribution Method

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')
SLOWS85327XXX								
S2511100 10-029	base-up	2672	91	67	0.4648	0.4157	0.2633	0.5300

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	Lumen Efficacy
						Flux (Lumens)	(Lumens Per Watt)
SLOWS85327XXX							
S2511100 10-029	base-up	120.2	98.7	11.7	0.99	499.4	42.7

Intensity (Candlepower) Summary at 25°C - Candelas



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85327XXX

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	328.3	327.8	307.4	300.6	256.9
5	322.0	294.2	67.9	8.4	3.3
10	312.2	241.2	20.7	0.2	0.2
15	297.3	238.7	27.1	0.9	0.2
20	280.2	228.5	28.7	1.1	0.2
25	259.6	213.1	22.2	0.7	0.2
30	234.4	192.9	17.8	0.2	0.1
35	203.6	168.5	17.4	0.3	0.1
40	167.9	139.1	13.3	0.7	0.1
45	130.2	105.8	8.6	1.1	0.1
50	96.5	73.6	4.5	0.8	0.1
55	69.6	47.4	2.5	0.4	0.1
60	49.5	23.6	0.9	0.1	0.1
65	34.2	10.6	0.1	0.1	0.1
70	22.4	2.7	0.1	0.1	0.1
75	12.9	0.2	0.1	0.1	0.1
80	5.6	0.1	0.3	0.1	0.1
85	0.8	0.4	0.2	0.1	0.1
90	0.2	0.2	0.1	0.1	0.1
95	0.0	0.1	0.2	0.1	0.1
100	0.0	0.2	0.2	0.1	0.1
105	0.1	0.2	0.1	0.1	0.1
110	0.1	0.1	0.2	0.2	0.1
115	0.1	0.2	0.2	0.2	0.2
120	0.1	0.2	0.2	0.2	0.2
125	0.1	0.2	0.3	0.3	0.3
130	0.2	0.3	0.4	0.4	0.4
135	0.2	0.3	0.4	0.4	0.4
140	0.3	0.4	0.5	0.5	0.5
145	0.3	0.4	0.5	0.5	0.5
150	0.3	0.4	0.5	0.5	0.5
155	0.4	0.4	0.4	0.5	0.5
160	0.3	0.4	0.4	0.4	0.4
165	0.3	0.3	0.3	0.3	0.3
170	0.3	0.3	0.3	0.3	0.3
175	0.3	0.3	0.3	0.3	0.3
180	0.3	0.3	0.2	0.2	0.3

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85327XXX

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLOWS85327XXX		
0-30	199.2	39.9
0-40	302.2	60.5
0-60	447.3	89.6
0-90	496.4	99.4
60-90	49.1	9.8
0-180	499.4	100.0

Beam Angle

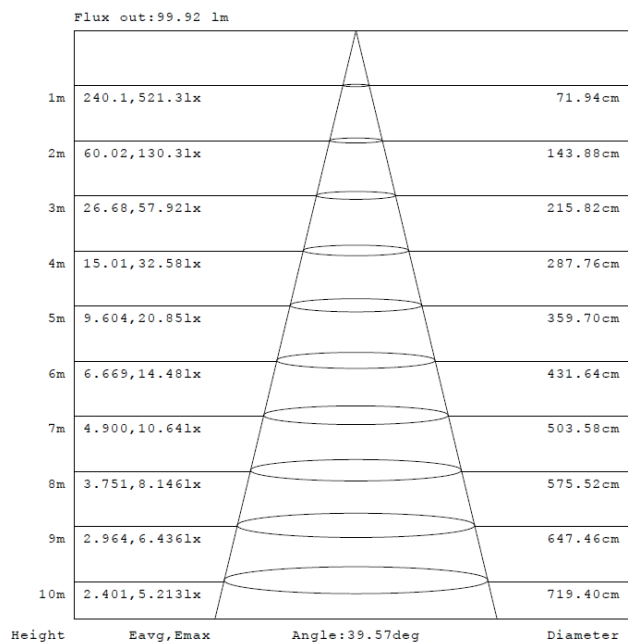
Total Beam Angle(°)
59.3

Illumination Plots

Model No.: SLOWS85327XXX

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

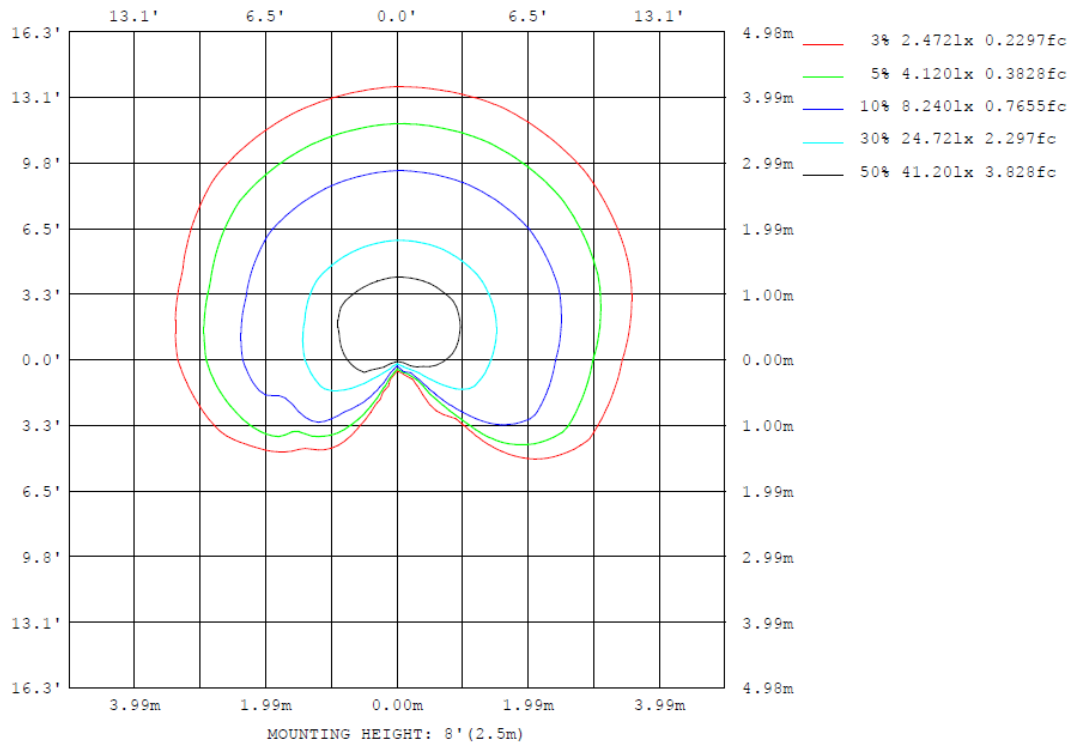
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85327XXX

Model No.: SLOWS85327XXX

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85327XXX

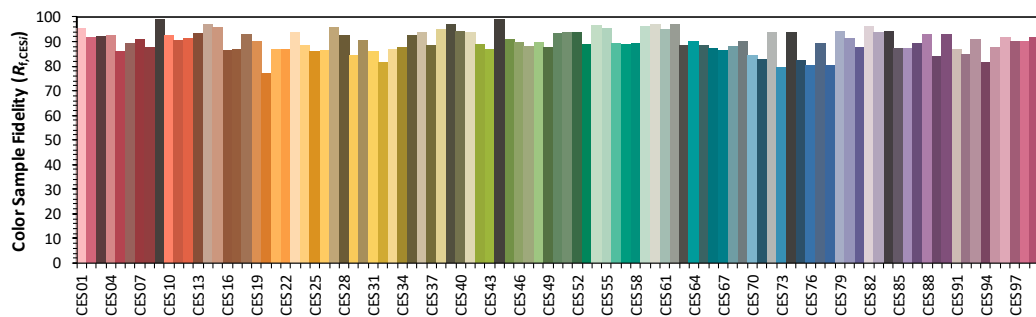
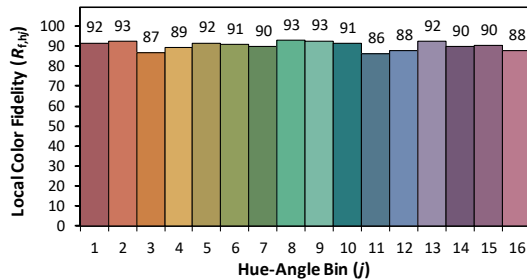
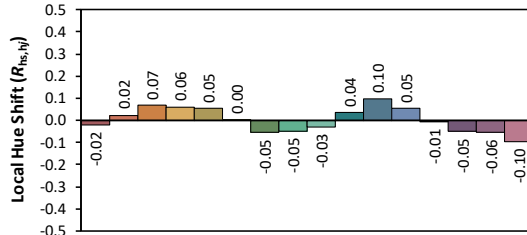
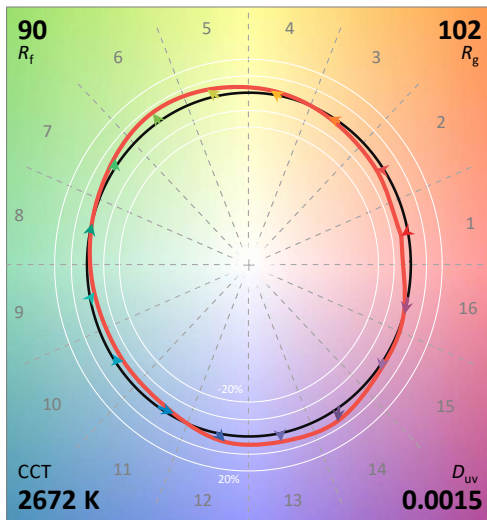
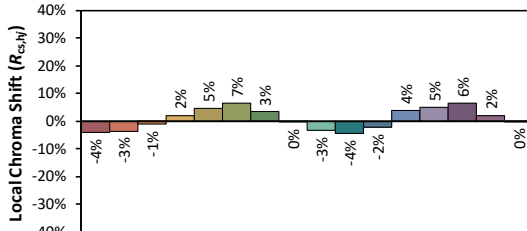
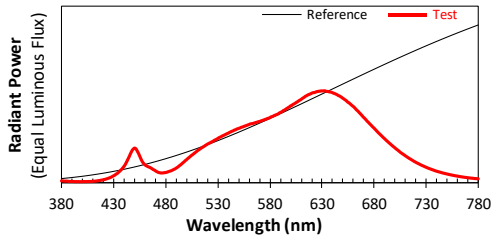
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/12/17

Model: SLOWS85327XXX



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

x 0.4648
 y 0.4157
 u' 0.2633
 v' 0.5300

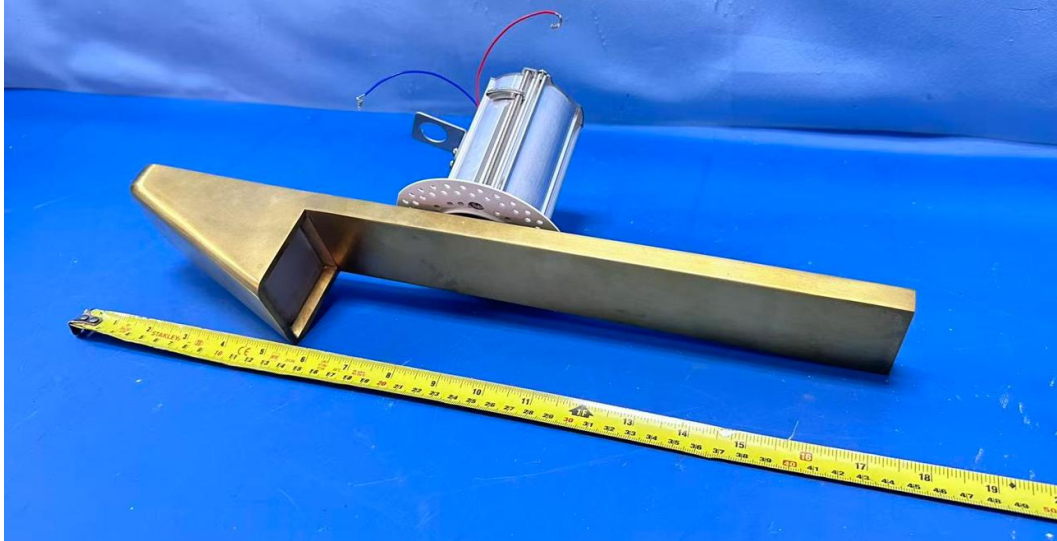
CIE 13.3-1995
(CRI)
 R_a 91
 R_g 67

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

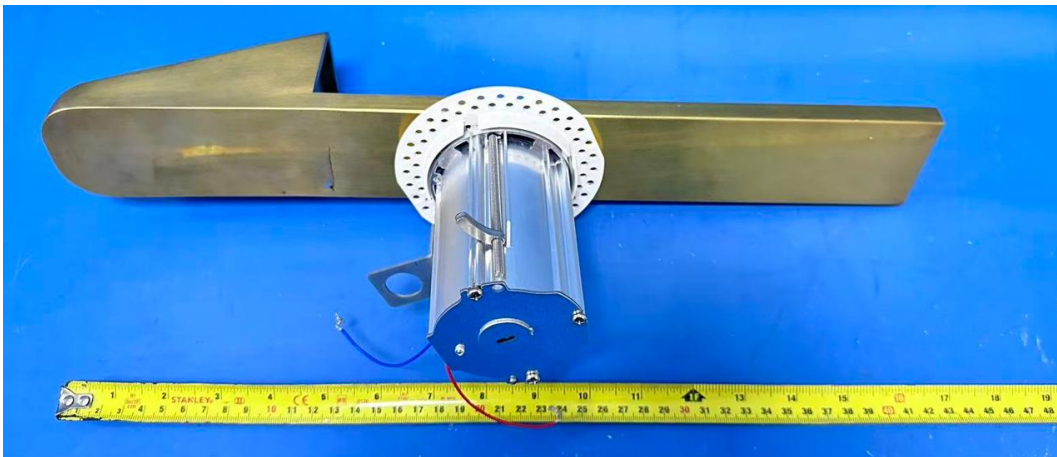
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLOWS85327XXX



External view of SLOWS85327XXX

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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 *****