

Visual Comfort & Co.

TEST REPORT

SCOPE OF WORK

LM-79 testing report

REPORT NUMBER

251110010GZU-027

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REVISION DATE

None

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13

DOCUMENT CONTROL NUMBER

Report format for LM-79_G

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Report No.: 251110010GZU-027

TEST REPORT

TEST OF ONE LED LUMINAIRE

MODEL NO. SLOWS85427XXX

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: 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 SLOWS85427XXX. The sample was received by Intertek in undamaged condition and tested as received. The sample designation was S251110010-028.
<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>	17 December 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:	SLOWS85427XXX
Description:	LED Luminaries
Brand Name:	--

Test Condition: 120V, 60Hz For SLOWS85427XXX

Criteria	Result
Total Lumen Output	424.0 lm
Total Power	11.5 W
Luminaire Efficacy	37.0 lm/W
S/MH(C0/180)	1.17
S/MH(C90/270)	0.01
Correlated Color Temperature (CCT)	2703 K
Color Rendering Index (CRI)	93
R9	71
Chromaticity Coordinate (x)	0.4604
Chromaticity Coordinate (y)	0.4120
Chromaticity Coordinate (u')	0.2622
Chromaticity Coordinate (v')	0.5280

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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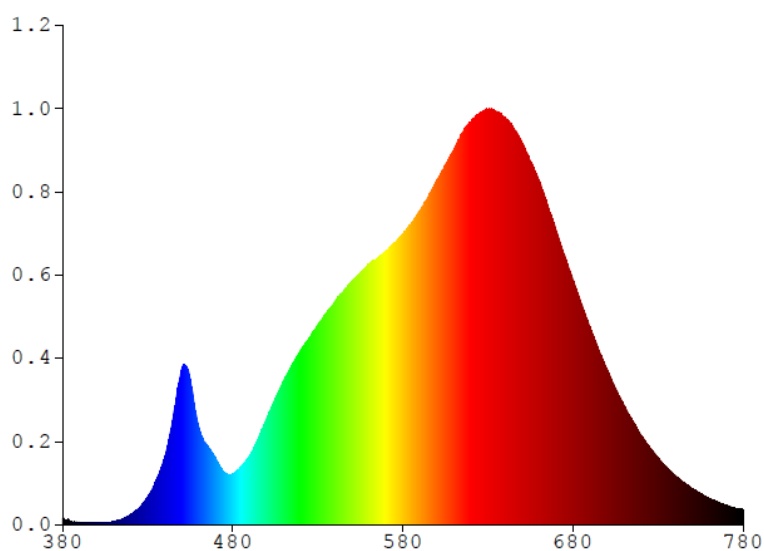
TEST REPORT

RESULTS OF TESTS

Test Condition: 120V, 60Hz For SLOWS85427XXX

Spectral Distribution over Visible Wavelengths

nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm	nm	mW/nm
380	1.1478	480	9.7173	580	55.7240	680	46.9540	780	2.9064
385	0.6150	485	11.1400	585	57.7460	685	42.3610		
390	0.4276	490	13.3260	590	60.2600	690	37.8920		
395	0.2759	495	16.5110	595	62.8740	695	33.5900		
400	0.4202	500	20.4020	600	66.1130	700	29.8360		
405	0.4218	505	24.1130	605	68.9890	705	26.1860		
410	0.6269	510	27.5730	610	71.9120	710	22.8390		
415	1.1144	515	30.6980	615	75.1240	715	19.9070		
420	2.0038	520	33.5450	620	77.2800	720	17.1310		
425	3.2761	525	35.8720	625	78.9100	725	14.8910		
430	5.3450	530	38.2490	630	79.6950	730	12.7780		
435	8.5066	535	40.5370	635	79.1400	735	11.1080		
440	12.9140	540	42.7050	640	78.1380	740	9.4906		
445	20.5290	545	44.6930	645	76.0830	745	8.1432		
450	29.8280	550	46.5780	650	73.3450	750	6.9504		
455	27.7530	555	48.2890	655	69.6390	755	6.0089		
460	18.7340	560	49.8790	660	65.9730	760	5.0926		
465	15.1260	565	51.1190	665	61.4100	765	4.3723		
470	12.6710	570	52.3200	670	56.4820	770	3.7612		
475	10.0440	575	54.0430	675	50.7760	775	3.2187		



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85427XXX

Total operation burning time: 60 minutes

Stabilization time: 30 minutes

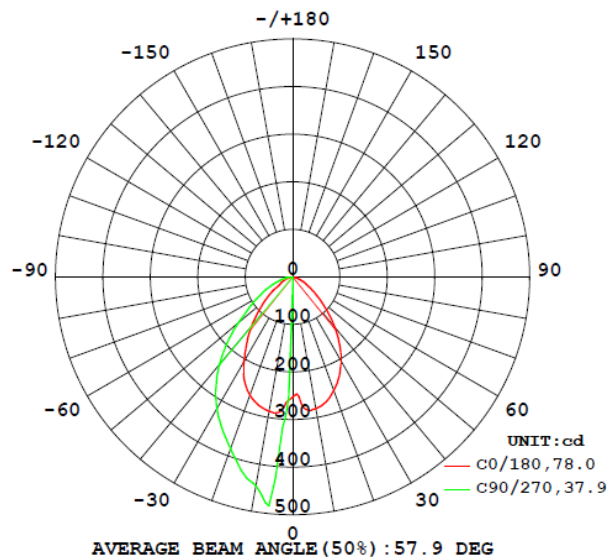
Photometric Measurements at 25°C – Distribution Method

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')
SLOWS85427XXX								
S2511100 10-028	base-up	2703	93	71	0.4604	0.4120	0.2622	0.5280

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)
SLOWS85427XXX							
S2511100 10-028	base-up	120.2	96.8	11.5	0.99	424.0	37.0

Intensity (Candlepower) Summary at 25°C - Candelas



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

TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85427XXX

Intensity (Candlepower) Summary at 25°C - Candelas

V \ H(°)	0	22.5	45	67.5	90
0	252.8	250.2	80.4	59.9	54.5
5	276.5	100.3	15.6	1.4	0.2
10	281.2	184.2	19.2	1.0	0.2
15	272.1	202.3	11.9	0.2	0.3
20	254.3	196.5	7.3	0.3	0.4
25	231.7	143.7	3.2	0.1	0.4
30	204.0	55.8	10.3	0.1	0.3
35	172.8	16.3	19.0	0.2	0.3
40	138.8	8.3	21.3	0.4	0.2
45	105.5	36.0	18.7	0.5	0.2
50	76.8	48.8	14.7	0.7	0.3
55	54.7	41.0	11.0	0.8	0.2
60	37.8	29.1	7.9	0.8	0.0
65	25.2	18.6	5.3	0.8	0.1
70	15.6	11.0	3.1	0.6	0.1
75	7.7	5.3	1.5	0.4	0.2
80	1.9	1.7	0.7	0.4	0.3
85	0.7	0.8	0.6	0.4	0.3
90	0.5	0.7	0.6	0.5	0.4
95	0.6	0.8	0.6	0.5	0.4
100	0.7	0.8	0.7	0.5	0.5
105	0.7	0.9	0.7	0.5	0.5
110	0.7	0.9	0.7	0.6	0.5
115	0.7	0.9	0.7	0.6	0.5
120	0.7	1.0	0.7	0.7	0.6
125	0.7	1.1	0.8	0.8	0.7
130	0.7	1.1	0.9	0.9	0.8
135	0.6	1.1	0.9	1.0	1.0
140	0.6	1.1	1.0	1.1	1.1
145	0.6	1.1	1.1	1.1	1.1
150	0.6	1.1	1.0	1.1	1.1
155	0.6	1.0	1.0	1.1	1.1
160	0.7	0.9	0.9	1.1	1.1
165	0.7	0.8	0.8	1.0	1.0
170	0.4	0.4	0.3	0.6	0.7
175	0.3	0.3	0.3	0.2	0.3
180	0.3	0.5	1.1	0.7	0.5

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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85427XXX

Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens (lm)	% Luminaire (%)
SLOWS85427XXX		
0-30	171.7	40.5
0-40	252.4	59.5
0-60	372.3	87.8
0-90	417.6	98.5
60-90	45.3	10.7
0-180	424.0	100.0

Beam Angle

Total Beam Angle(°)

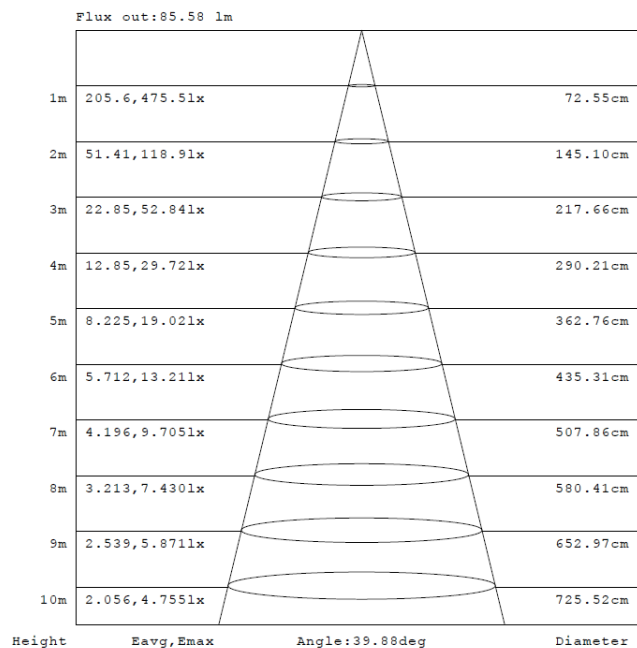
57.9

Illumination Plots

Model No.: SLOWS85427XXX

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

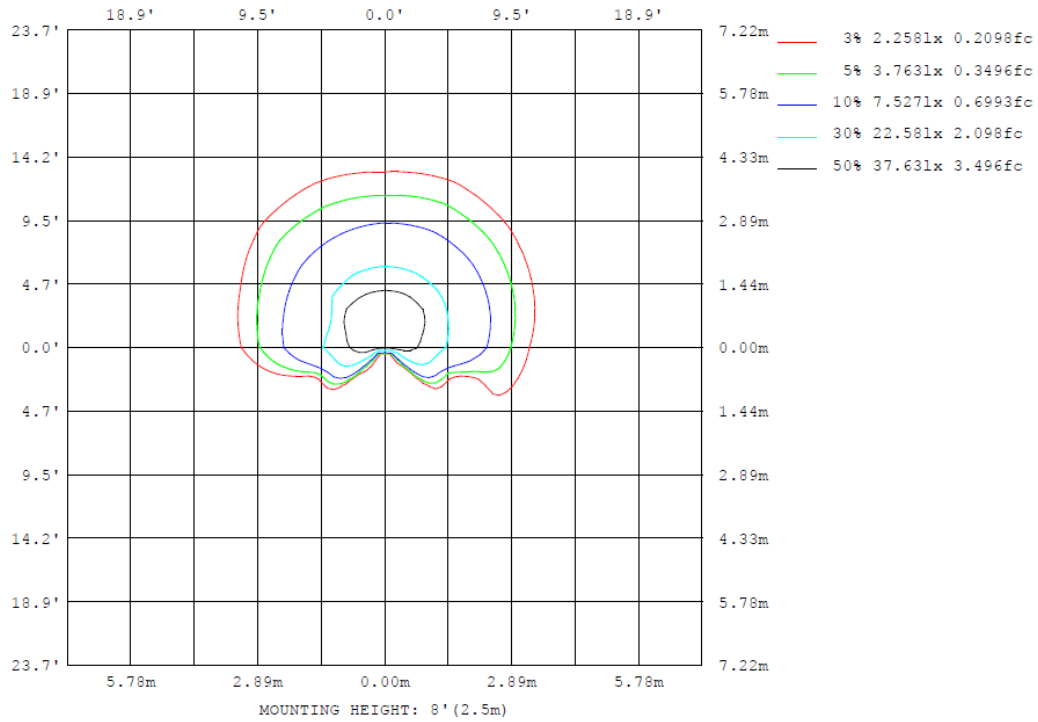
RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85427XXX

Model No.: SLOWS85427XXX

Mount Height: 2.5 m

Isoillumination Plot



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TEST REPORT

RESULTS OF TESTS (cont'd)

Test Condition: 120V, 60Hz For SLOWS85427XXX

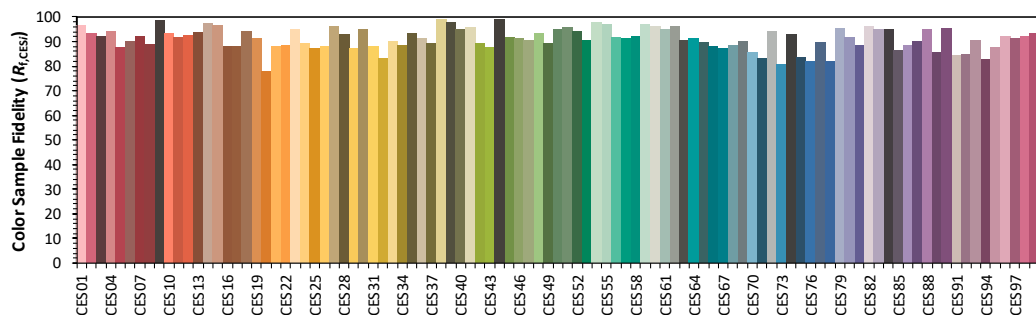
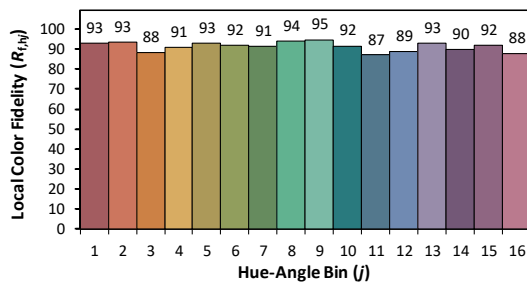
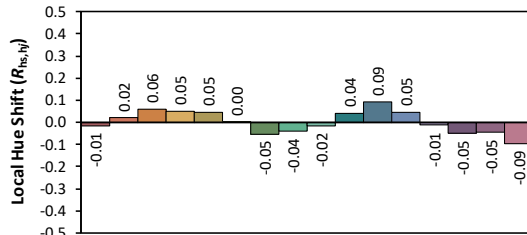
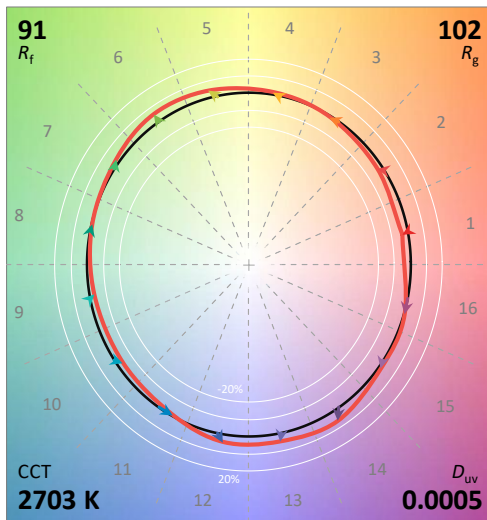
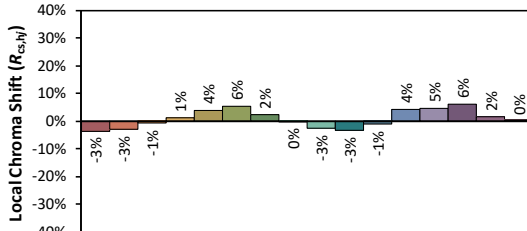
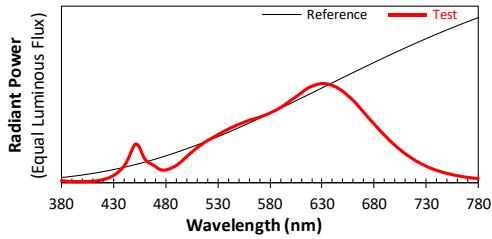
ANSI/IES TM-30-18 Color Rendition Report

Source: User SPD

Manufacturer: Visual Comfort & Co.

Date: 2025/12/17

Model: SLOWS85427XXX



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

x 0.4604
 y 0.4120
 u' 0.2622
 v' 0.5280

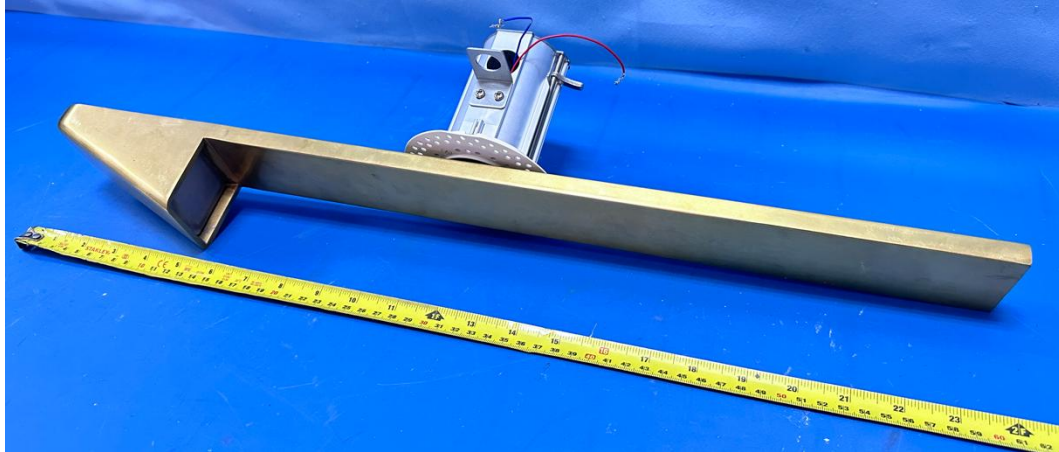
CIE 13.3-1995
(CRI)
 R_a 93
 R_g 71

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

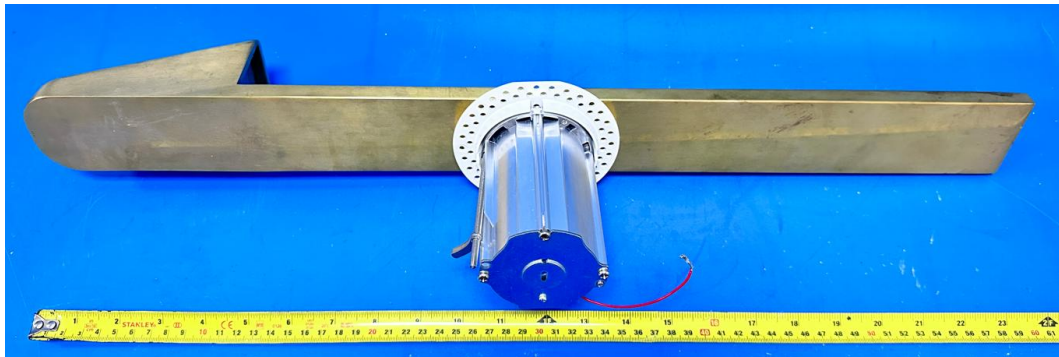
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TEST REPORT

PRODUCT PICTURE (not to scale)



External view of SLOWS85427XXX



External view of SLOWS85427XXX

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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 *****