

# VISUAL COMFORT GROUP TEST REPORT

## SCOPE OF WORK

Electrical and Photometric tests as required to the IESNA test standard.

## MODEL NUMBER

700WSLNG1x-LED930

## REPORT NUMBER

103643585CHI-025

## ISSUE DATE

January 30, 2019

## REVISION DATE

None

## DOCUMENT CONTROL NUMBER

TBD

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**REPORT NO.:103643585CHI-025**

**REPORT DATE: January 30, 2019**

**TEST REPORT**

**TEST OF ONE WALL MOUNT LUMINAIRE**

MODEL NO. 700WSLNG1X-LED930  
LED MODEL NO. CITIZEN CLU028-1203C4-303H5M3-F1  
DRIVER MODEL NO. LTF DA8W200C2542C-3001

**RENDERED TO:**

VISUAL COMFORT GROUP  
7400 LINDER AVE.  
SKOKIE, IL 60077

**AUTHORIZATION**

The testing performed was authorized by signed quote number Qu-00912313.

**STANDARDS USED**

IESNA LM-79 - 2008: Electrical and Photometric Measurements of Solid State Lighting

**DESCRIPTION OF SAMPLE**

The client submitted one production sample of model number 700WSLNG1x-LED930. The sample was received by Intertek on January 8, 2019 in undamaged condition and one sample was tested as received. The sample designation was AH01082019040430-007.

**DATE OF TESTS**

January 30, 2019.

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**SUMMARY**

<b>MODEL NO:</b>	700WSLNG1x-LED930
<b>DESCRIPTION:</b>	Wall Mount Luminaire

<b>CRITERIA</b>	<b>RESULTS</b>
Lumen Output (lumens)	553.1
Input Power (W) @ 120 (VAC)	8.26
Lumen Efficacy (lm/W)	67.0
Input Power Factor @ 120 (VAC)	0.992

**EQUIPMENT LIST**

<b>EQUIPMENT USED</b>	<b>MODEL NO.</b>	<b>CONTROL NO.</b>	<b>LAST CAL DATE</b>	<b>CAL DUE DATE</b>
Yokogawa Power Meter	WT210	146919	7/9/2018	7/9/2019
Omega Thermometer	DPI8-C24	146920	10/4/2018	10/4/2019
LSI High Speed Mirror Goniometer	6440T	146928	VBU	VBU
Newport Thermohygrometer	iServer	146379	4/16/2018	4/16/2019
Pacific, AC power supply	118-ACX	CHI0358	VBU	VBU

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**TEST REPORT**

**TEST METHODS**

**SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS**

No seasoning was performed in accordance with IESNA LM-79.

**PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD**

A Type C Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for the SSL sample.

Ambient temperature was measured equal to the height of the sample mounted on the goniometer equipment. The SSL sample was operated on the client provided driver at rated input volts in its designated orientation. The SSL sample was allowed to stabilize for at least thirty minutes before measurements were made. Stabilization procedures to LM-79 were followed. Electrical measurements including voltage, current, and power were measured using a power analyzer.

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**TEST REPORT**

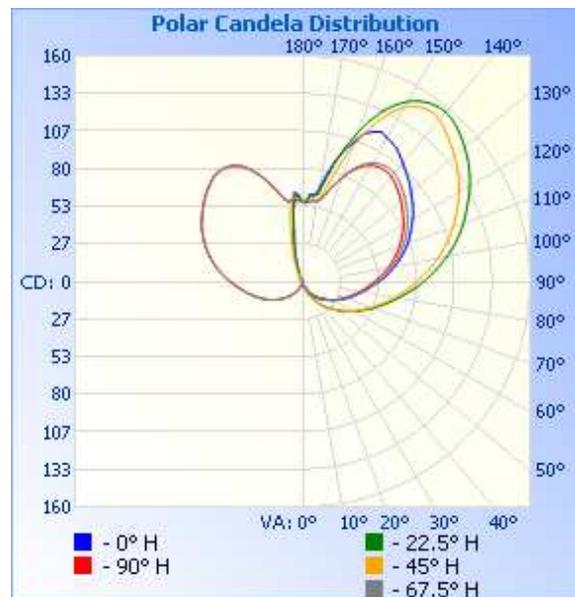
**RESULTS OF TESTS**

**PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)**

INTERTEK CONTROL NO.	BASE POSITION	INPUT VOLTAGE (VAC)	INPUT CURRENT (mA)	INPUT POWER (W)	INPUT POWER FACTOR ( )	LIGHT OUTPUT (lm)	LUMEN EFFICACY (lm/W)
AH01082019040430-007	Base Up	120.1	69.3	8.26	0.992	553.1	67.0

**INTENSITY SUMMARY - CANDELAS**

Angle	0	22.5	45	67.5	90
0	0	0	0	0	0
5	1	1	0	0	0
10	1	2	1	1	1
15	3	4	3	2	2
20	4	6	6	4	3
25	7	10	9	6	5
30	9	14	13	8	8
35	12	18	18	11	10
40	15	22	22	14	13
45	17	27	26	17	16
50	20	32	31	20	19
55	23	37	36	23	22
60	26	42	42	27	26
65	30	48	47	30	29
70	34	54	53	34	33
75	38	61	59	38	37
80	43	68	66	42	41
85	48	76	73	47	46
90	54	85	81	53	51
95	60	94	88	59	56
100	66	103	97	64	62
105	73	112	105	70	67
110	79	120	113	76	73
115	84	128	120	81	77
120	90	136	127	85	82
125	95	143	134	90	86
130	100	149	139	94	90
135	105	154	145	97	94
140	110	157	150	100	97
145	115	155	150	100	98
150	118	148	143	97	95
155	117	133	126	89	88
160	105	112	101	77	77
165	89	87	73	65	65
170	66	63	59	58	57
175	62	61	58	56	58
180	57	57	57	57	57



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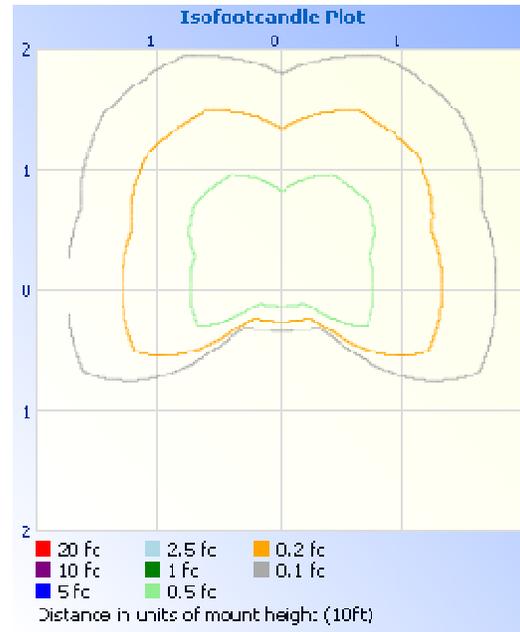
**TEST REPORT**

**RESULTS OF TESTS**

**PHOTOMETRIC AND ELECTRICAL MEASUREMENTS - DISTRIBUTION METHOD (25°C +/- 1°C)**

**MOUNTING HEIGHT: 10ft**

ILLUMINANCE - CONE OF LIGHT	ISOILLUMINATION PLOT
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Plots were rotated 180° to create graphics.

**ZONAL LUMEN SUMMARY AND PERCENTAGES**

ZONE	LUMENS	% LUMINAIRE
0-30	3.0	0.5
0-40	8.9	1.6
0-60	37.2	6.7
60-90	101.3	18.3
70-100	128.9	23.3
90-120	178.5	32.3
0-90	138.5	25.0
90-180	414.6	75.0
0-180	553.1	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	0.1	0.0
10-20	0.6	0.1
20-30	2.4	0.4
30-40	5.9	1.1
40-50	10.9	2.0
50-60	17.4	3.1
60-70	25.0	4.5
70-80	33.4	6.0
80-90	42.9	7.7
90-100	52.6	9.5
100-110	60.7	11.0
110-120	65.3	11.8
120-130	65.7	11.9
130-140	61.7	11.2
140-150	51.9	9.4
150-160	34.6	6.3
160-170	16.7	3.0
170-180	5.4	1.0

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**TEST REPORT**

**PICTURES**



**CONCLUSION**

The results tabulated in this report are representative of the actual test samples submitted for this report only. The data is provided to the client for further evaluation. Compliance to the referenced specification requirements was not determined in this report.

In Charge Of Tests:

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Tess Gallagher  
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Report Reviewed By:

*Tim Quigley*

Timothy Quigley  
Engineer  
Lighting Division

Attachments: IES File

**REVISION HISTORY**

JOB NUMBER	DATE OF REVISION	PROJECT HANDLER	REVIEWED BY	REVISION NOTE
None				