

# VISUAL COMFORT GROUP TEST REPORT

## SCOPE OF WORK

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

## MODEL NUMBER

700WSJN113xx-LED930

## REPORT NUMBER

103643585CHI-027

## ISSUE DATE

January 29, 2019

## REVISION DATE

None

## DOCUMENT CONTROL NUMBER

TBD

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**REPORT NO.: 103643585CHI-027**

**REPORT DATE: January 29, 2019**

**TEST REPORT**

**TEST OF ONE WALL MOUNT LUMINAIRE**

MODEL NO. 700WSJNI13XX-LED930  
LED MODEL NO. CITIZEN CLU028-1203C4-303H5M3-F1  
DRIVER MODEL NO. ERP ESS015W-0300-42

**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 700WSJNI13xx-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 AH01082019040430-009.

**DATE OF TESTS**

January 25, 2019.

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**TEST REPORT**

**SUMMARY**

<b>MODEL NO:</b>	700WSJN13xx-LED930
<b>DESCRIPTION:</b>	Wall Mount Luminaire

CRITERIA	RESULTS
Lumen Output (lumens)	737.0
Input Power (W) @ 120 (VAC)	12.19
Lumen Efficacy (lm/W)	60.5
Input Power Factor @ 120 (VAC)	0.988

**EQUIPMENT LIST**

EQUIPMENT USED	MODEL NO.	CONTROL NO.	LAST CAL DATE	CAL DUE DATE
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	VBV	VBV
Newport Thermohygrometer	iServer	146379	4/16/2018	4/16/2019
Pacific, AC power supply	118-ACX	CHI0358	VBV	VBV

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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**

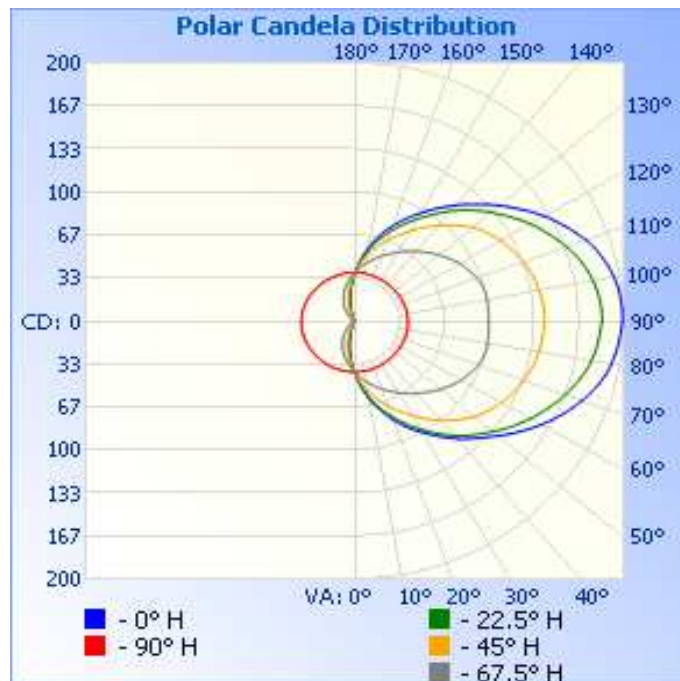
**RESULTS OF TESTS**

**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)
AH01082019040430-009	Base Up	120.1	102.7	12.19	0.988	737.0	60.5

**INTENSITY SUMMARY - CANDELAS**

Angle	0	22.5	45	67.5	90
0	40	40	40	40	40
5	50	50	47	44	40
10	61	60	55	48	40
15	71	69	62	52	40
20	81	78	70	56	39
25	91	88	77	60	39
30	99	97	85	64	39
35	109	106	93	69	39
40	119	116	101	73	39
45	129	125	108	78	39
50	139	134	116	82	39
55	150	143	122	87	39
60	161	151	126	92	40
65	171	159	130	95	40
70	180	167	134	98	40
75	188	174	137	100	40
80	194	179	139	100	40
85	197	182	140	100	40
90	199	184	141	100	40
95	199	183	141	100	40
100	196	180	139	100	40
105	191	175	137	99	39
110	183	168	134	97	39
115	173	160	130	93	39
120	163	151	125	90	39
125	151	141	120	85	38
130	140	131	113	80	38
135	128	122	105	75	38
140	117	111	97	71	38
145	106	101	88	66	38
150	96	91	80	61	38
155	87	82	72	57	38
160	77	73	65	53	38
165	68	64	58	49	38
170	57	55	51	45	38
175	46	45	44	41	38
180	37	37	37	37	37



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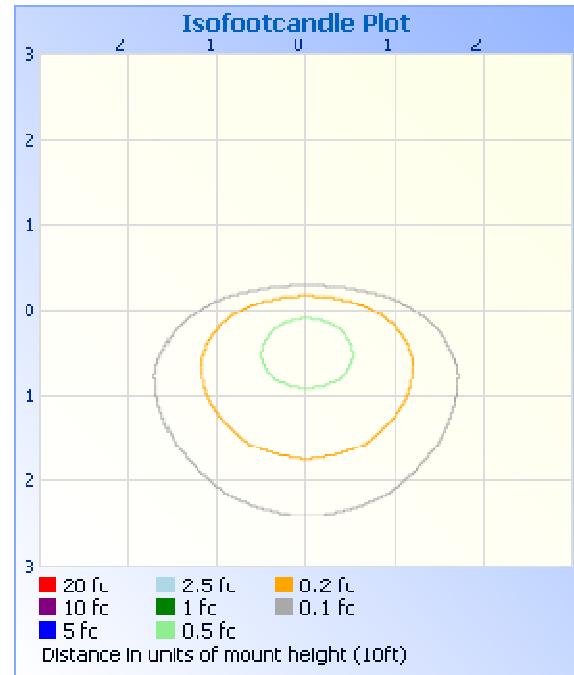
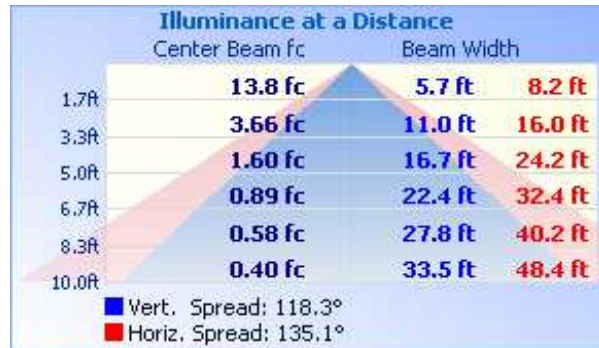
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**TEST REPORT**

**RESULTS OF TESTS**

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

MOUNTING HEIGHT: 10ft	
ILLUMINANCE - CONE OF LIGHT	ISOILLUMINATION PLOT



**ZONAL LUMEN SUMMARY AND PERCENTAGES**

ZONE	LUMENS	% LUMINAIRE
0-30	35.6	4.8
0-40	65.4	8.9
0-60	159.0	21.6
60-90	212.2	28.8
70-100	225.6	30.6
90-120	212.3	28.8
0-90	371.2	50.4
90-180	365.8	49.6
0-180	737.0	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	3.8	0.5
10-20	11.7	1.6
20-30	20.0	2.7
30-40	29.8	4.0
40-50	41.0	5.6
50-60	52.6	7.1
60-70	63.4	8.6
70-80	72.1	9.8
80-90	76.7	10.4
90-100	76.9	10.4
100-110	72.3	9.8
110-120	63.2	8.6
120-130	51.9	7.0
130-140	39.9	5.4
140-150	28.4	3.9
150-160	18.8	2.5
160-170	10.9	1.5
170-180	3.6	0.5

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**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				