

# VISUAL COMFORT GROUP TEST REPORT

## SCOPE OF WORK

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

## MODEL NUMBER

700LSSWPx-LED930

## REPORT NUMBER

103643585CHI-022

## ISSUE DATE

January 22, 2019

## REVISION DATE

None

## DOCUMENT CONTROL NUMBER

TBD

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**REPORT DATE: January 22, 2019**

**TEST REPORT**

**TEST OF ONE SUSPENSION LUMINAIRE**

MODEL NO. 700LSSWPX-LED930  
LED MODEL NO. SEOUL STW9A12D-E1  
DRIVER MODEL NO. (2) LTF TA75WD24LED-0000

**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 700LSSWPx-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 AH01082019040430-003.

**DATE OF TESTS**

January 21, 2019.

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**TEST REPORT**

**SUMMARY**

<b>MODEL NO:</b>	700LSSWPx-LED930
<b>DESCRIPTION:</b>	Suspension Luminaire

CRITERIA	RESULTS
Lumen Output (lumens)	4028.8
Input Power (W) @ 120 (VAC)	134.34
Lumen Efficacy (lm/W)	30.0
Input Power Factor @ 120 (VAC)	0.940

**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 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

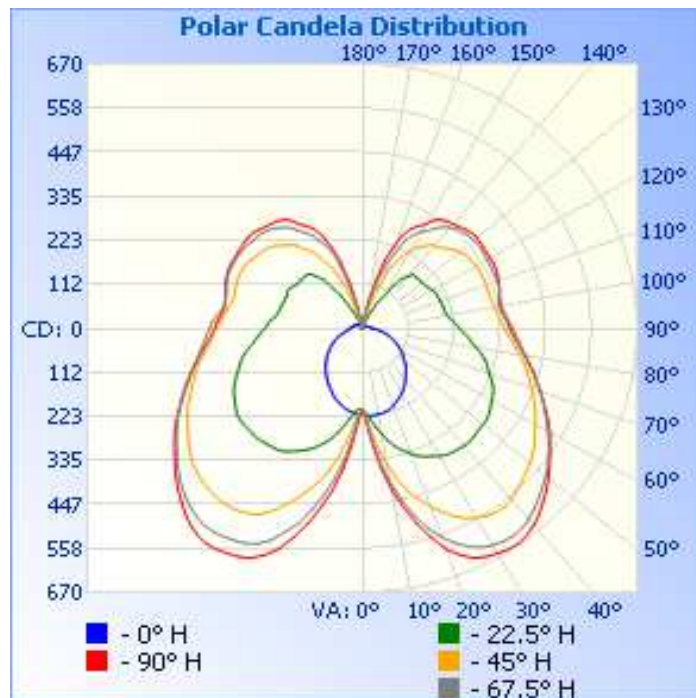
RESULTS OF TESTS

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)
AH01082019040430-003	Base Up	120.1	1189.2	134.34	0.940	4028.8	30.0

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	206	206	206	206	206
5	223	233	268	290	299
10	222	272	353	399	417
15	219	310	426	491	513
20	213	338	479	563	596
25	203	359	526	611	643
30	192	374	555	636	659
35	179	384	570	643	665
40	164	388	566	632	651
45	150	386	549	609	623
50	136	382	533	584	592
55	121	378	513	554	559
60	107	365	487	523	528
65	92	352	465	490	493
70	78	329	439	462	460
75	64	310	415	435	431
80	50	282	391	406	403
85	36	259	365	382	377
90	26	236	347	366	360
95	21	220	335	352	348
100	18	208	325	344	340
105	15	205	322	346	346
110	13	203	322	350	353
115	11	201	321	350	359
120	10	196	319	350	359
125	9	188	315	353	360
130	7	185	305	351	362
135	6	184	288	345	355
140	5	173	275	334	346
145	4	132	252	310	336
150	4	78	223	283	304
155	3	33	179	245	278
160	2	18	104	177	217
165	2	4	39	87	120
170	2	2	13	21	28



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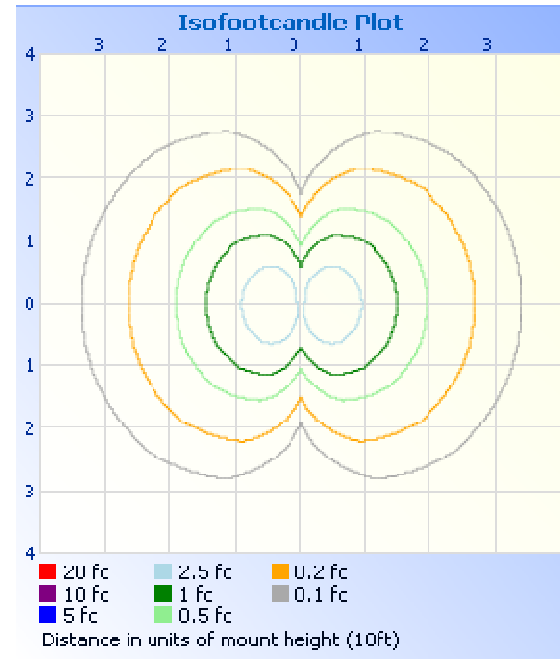
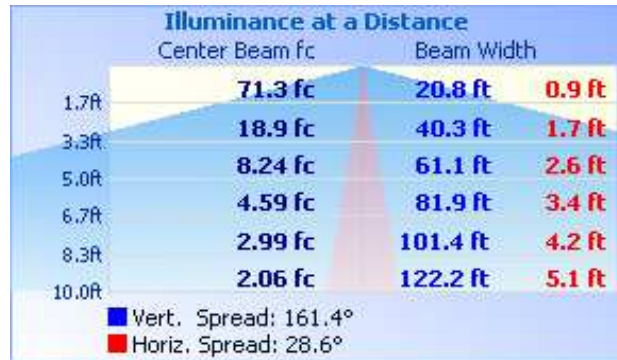
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**TEST REPORT**

**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	356.5	8.8
0-40	668.2	16.6
0-60	1437.2	35.7
60-90	1098.3	27.3
70-100	1003.8	24.9
90-120	844.4	21.0
0-90	2535.5	62.9
90-180	1493.4	37.1
0-180	4028.8	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	26.9	0.7
10-20	111.5	2.8
20-30	218.1	5.4
30-40	311.6	7.7
40-50	371.3	9.2
50-60	397.8	9.9
60-70	395.1	9.8
70-80	370.2	9.2
80-90	333.0	8.3
90-100	300.6	7.5
100-110	279.5	6.9
110-120	264.2	6.6
120-130	234.8	5.8
130-140	194.2	4.8
140-150	134.8	3.3
150-160	68.4	1.7
160-170	16.3	0.4
170-180	0.4	0.0

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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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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				