

VISUAL COMFORT GROUP TEST REPORT

SCOPE OF WORK

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

MODEL NUMBER
365WSMASPx-LED927

REPORT NUMBER
103643585CHI-028

ISSUE DATE
January 31, 2019

REVISION DATE
None

DOCUMENT CONTROL NUMBER
TBD
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REPORT DATE: January 31, 2019

TEST REPORT

TEST OF ONE WALL MOUNTED LIGHT ENGINE

MODEL NO. 365WSMASPX-LED927
LED MODEL NO. CITIZEN CLU028-1203C4-303H5M3-F1
DRIVER MODEL NO. LTF DA18W400C2745-3001

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 365WSMASPx-LED927. The sample was received by Intertek on January 8, 2019 in undamaged condition and one sample was tested as received. The sample designation was AH01082019040430-28.

DATE OF TESTS

January 31, 2019.

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SUMMARY

MODEL NO:	365WSMASPx-LED927
DESCRIPTION:	Wall Mounted Light Engine

CRITERIA	RESULTS
Lumen Output (lumens)	1560.8
Input Power (W) @ 120 (VAC)	16.80
Lumen Efficacy (lm/W)	92.9
Input Power Factor @ 120 (VAC)	0.979

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	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 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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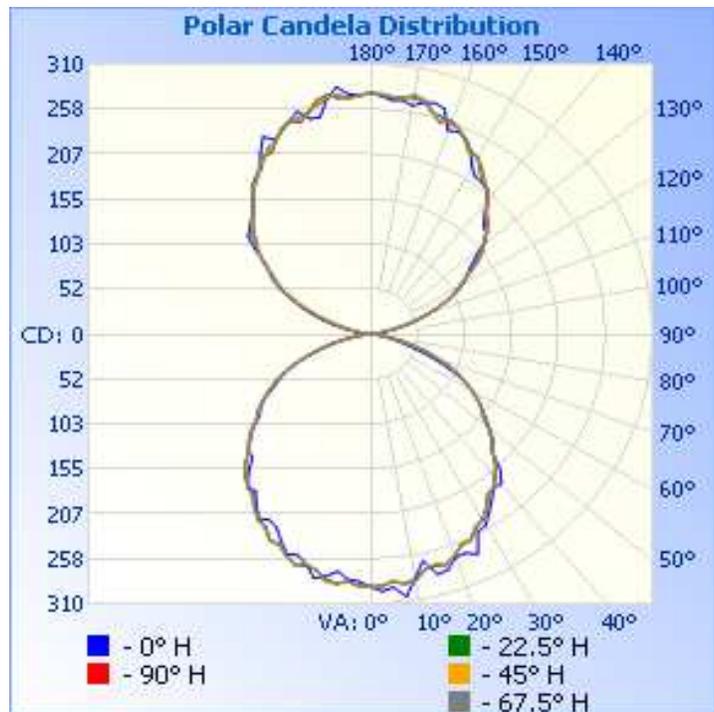
RESULTS OF TESTS

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)
AH01082019040430-28	Base Up	120.0	143.0	16.80	0.979	1560.8	92.9

INTENSITY SUMMARY - CANDELAS

Angle	0	22.5	45	67.5	90
0	290	290	290	290	290
5	292	286	285	285	285
10	285	287	288	288	286
15	286	276	274	274	276
20	273	271	271	271	271
25	279	262	262	262	261
30	254	248	246	246	246
35	233	226	226	226	225
40	224	214	212	212	213
45	189	190	190	190	189
50	171	171	170	170	170
55	149	150	150	150	150
60	128	128	128	128	128
65	98	105	106	105	106
70	62	76	76	76	76
75	31	46	46	47	47
80	12	20	17	20	22
85	3	4	4	3	4
90	1	1	1	1	0
95	2	1	1	2	2
100	13	11	11	16	16
105	37	38	39	41	42
110	66	67	67	67	68
115	94	95	95	96	96
120	115	116	117	117	119
125	134	140	142	143	143
130	162	164	163	163	163
135	176	179	181	182	183
140	199	200	200	200	200
145	214	215	217	218	218
150	223	235	235	235	235
155	248	247	247	246	246
160	249	257	258	260	261
165	275	263	265	265	264
170	266	275	277	279	279
175	270	273	274	274	273
180	277	277	277	277	277



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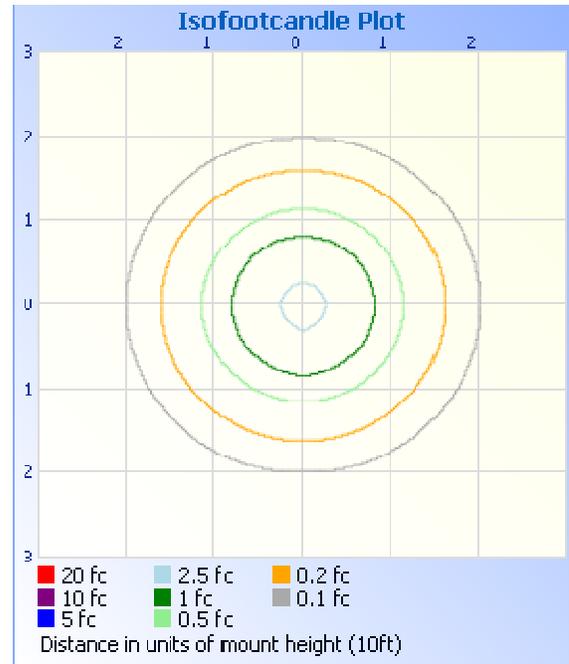
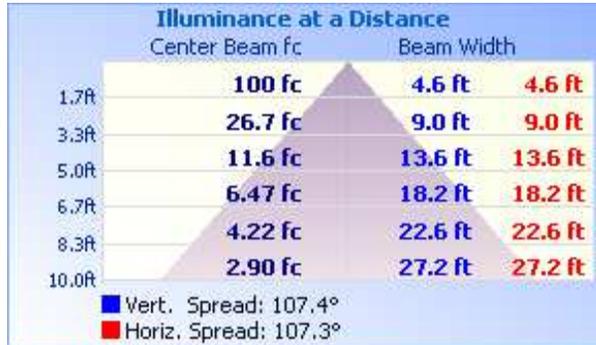
TEST REPORT

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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ZONAL LUMEN SUMMARY AND PERCENTAGES

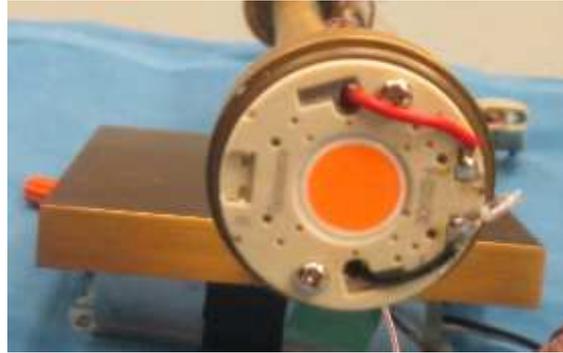
ZONE	LUMENS	% LUMINAIRE
0-30	225.1	14.4
0-40	368.5	23.6
0-60	649.6	41.6
60-90	156.5	10.0
70-100	58.3	3.7
90-120	135.8	8.7
0-90	806.1	51.6
90-180	754.7	48.4
0-180	1560.8	100.0

ZONE	LUMENS	% LUMINAIRE
0-10	27.5	1.8
10-20	78.4	5.0
20-30	119.2	7.6
30-40	143.4	9.2
40-50	147.9	9.5
50-60	133.2	8.5
60-70	101.9	6.5
70-80	48.2	3.1
80-90	6.3	0.4
90-100	3.8	0.2
100-110	39.6	2.5
110-120	92.4	5.9
120-130	126.8	8.1
130-140	140.7	9.0
140-150	136.4	8.7
150-160	113.8	7.3
160-170	75.0	4.8
170-180	26.2	1.7

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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:

Tess Gallagher

Tess Gallagher
Engineer
Lighting Division

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				