



REPORT

545 E. Algonquin Rd., Arlington Heights, IL 60005

Project No. G102929574

Date: June 20, 2017

REPORT NO. 102929574CHI-006

TEST OF ONE OUTDOOR SCONCE

MODEL NO. AUW6122500L30MVBZ
DRIVER MODEL NO. FULHAM T1M1UNV0700-30F

RENDERED TO

AFX INC.
2345 N. ERNIE KRUEGER CIRCLE
WAUKEGAN, IL. 60087

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

AUTHORIZATION: The testing performed was authorized by signed quote number Qu-00761824-1.

STANDARDS USED: The following American National Standards or Illuminating Engineering Society of North America Test Guides were used in part or totally to test each specimen:

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

DESCRIPTION OF SAMPLE: The client submitted one production sample of model number AUW6122500L30MVBZ. The sample was received by Intertek on June 19, 2017, in undamaged condition and one sample was tested as received. The sample designation was AH06192017043831-006.

DATES OF TESTS: June 20, 2017

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SUMMARY

Model No.:	AUW6122500L30MVBZ
Description:	OUTDOOR SCONCE

Criteria	Result
Total Lumen Output (Lumens)	1438
Total Power (W)	23.81
Luminaire Efficacy (LPW)	60.39
Power Factor	0.992

EQUIPMENT LIST

Equipment Used	Model Number	Control Number	Last Date Calibrated	Calibration Due Date	Date Used
Yokogawa Power Meter	WT210	146919	07/11/16	07/11/17	06/20/17
Omega Newport Thermometer	DPI8-C24	146920	10/07/16	10/07/17	06/20/17
LSI High Speed Mirror Goniometer	6440T	146928	VBU	VBU	06/20/17
Newport Thermohygrometer	iServer	146956	01/06/17	01/06/18	06/20/17
Pacific, AC power supply	118-ACX	CHI0358	VBU	VBU	06/20/17

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 LSI Type C High Speed Model 6440 Mirror Goniometer was used to measure the intensity (candelas) at each angle of distribution for each sample.

Ambient temperature was measured equal to the height of the sample mounted on the Goniometer equipment. Each sample was operated at input rated voltage in its designated orientation. Each sample was allowed to stabilize for at least thirty minutes before measurements were made. Electrical measurements including voltage, current, and power were measured using the Xitron or Yokogawa Power Analyzer.

Some graphics were created with Photometrics Plus software.

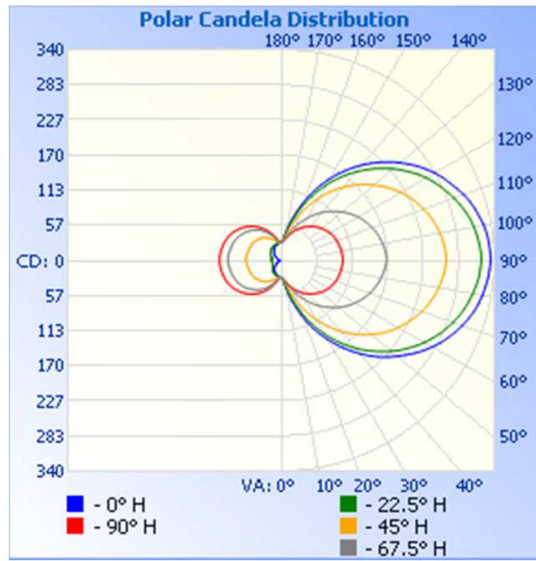
RESULTS OF TEST

Photometric and Electrical Measurements at Ambient Temperature (25°C +/- 1°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 (LPW)
AH06192017043831-006	Horizontal	120.0	200.1	23.81	0.992	1438	60.39

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	28	28	28	28	28
5	31	30	30	29	28
10	46	43	37	34	33
15	68	62	51	41	39
20	94	86	69	51	46
25	121	111	89	61	52
30	146	136	109	72	59
35	172	161	130	84	65
40	197	185	149	96	70
45	220	207	168	107	76
50	240	228	186	118	81
55	260	247	202	128	85
60	279	264	216	137	88
65	294	279	228	145	91
70	307	292	239	152	94
75	318	302	248	157	95
80	326	310	255	162	97
85	331	316	260	166	98
90	334	319	263	168	98
95	332	317	262	167	98
100	328	312	257	164	97
105	320	304	250	160	96
110	310	294	242	155	94
115	296	281	232	148	92
120	283	267	220	141	89
125	265	250	206	132	86
130	246	230	190	122	82
135	224	209	173	112	77
140	201	187	154	101	72
145	176	163	135	89	66
150	151	139	114	77	60
155	123	114	93	65	53
160	96	89	73	54	47
165	71	65	55	44	40
170	48	45	40	35	34
175	33	32	31	30	30
180	29	29	29	29	29

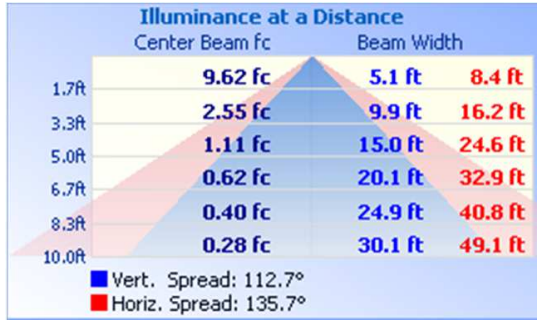


RESULTS OF TEST (cont'd)

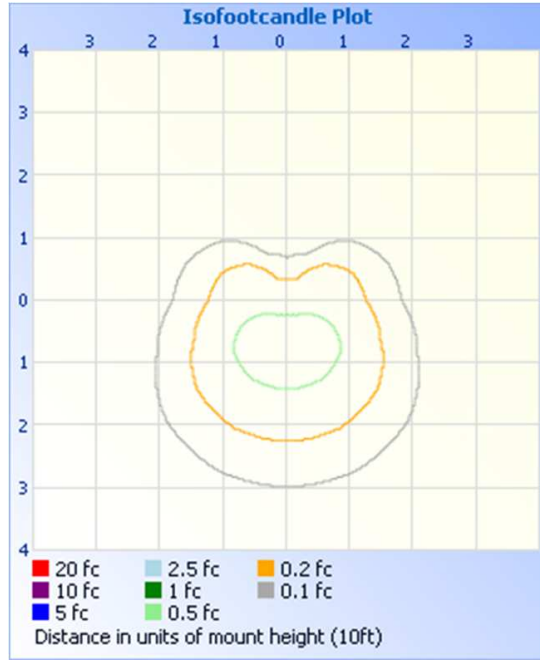
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



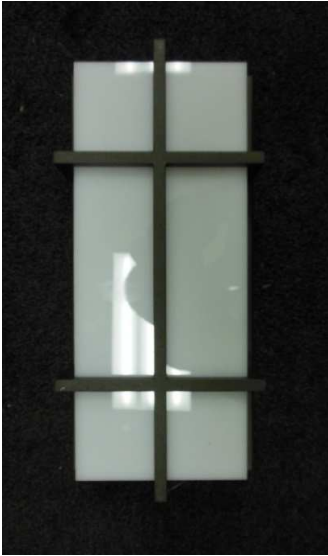
Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	43.7	3.0
0-40	95.4	6.6
0-60	278.4	19.4
60-90	433.5	30.2
0-90	712.0	49.5
90-180	725.7	50.5
0-180	1438	100.0

Zonal Lumens and Percentages at 25°C

Zone	Lumens	% Luminaire
0-10	2.9	0.2
10-20	12.1	0.8
20-30	28.7	2.0
30-40	51.7	3.6
40-50	78.1	5.4
50-60	104.9	7.3
60-70	128.8	9.0
70-80	146.8	10.2
80-90	157.9	11.0
90-100	158.7	11.0
100-110	148.4	10.3
110-120	130.9	9.1
120-130	107.6	7.5
130-140	80.6	5.6
140-150	53.6	3.7
150-160	30.0	2.1
160-170	12.8	0.9
170-180	3.1	0.2

PICTURES (not to scale)



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:



Hector Huitron
Associate Engineer
Lighting Division

Attachment: None

Report Reviewed By:



Timothy Quigley
Engineer
Lighting Division