REPORT

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

Project No. G102929574 Date: June 21, 2017

REPORT NO. 102929574CHI-005

TEST OF ONE OUTDOOR SCONCE

MODEL NO. AUW7183200L30MVBZ
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 AUW7183200L30MVBZ. The sample was received by Intertek on June 19, 2017, in undamaged condition and one sample was tested as received. The sample designation was AH06192017043831-005.

DATES OF TESTS: June 21, 2017

SUMMARY

Model No.:	AUW7183200L30MVBZ
Description:	OUTDOOR SCONCE

Criteria	Result
Total Lumen Output (Lumens)	1647
Total Power (W)	28.11
Luminaire Efficacy (LPW)	58.59
Power Factor	0.994

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	06/21/17
Omega Newport Thermometer	DPI8-C24	146920	10/07/16	10/07/17	06/21/17
LSI High Speed Mirror Goniometer	6440T	146928	VBU	VBU	06/21/17
Newport Thermohygrometer	iServer	146956	01/06/17	01/06/18	06/21/17
Pacific, AC power supply	118-ACX	CHI0358	VBU	VBU	06/21/17

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.

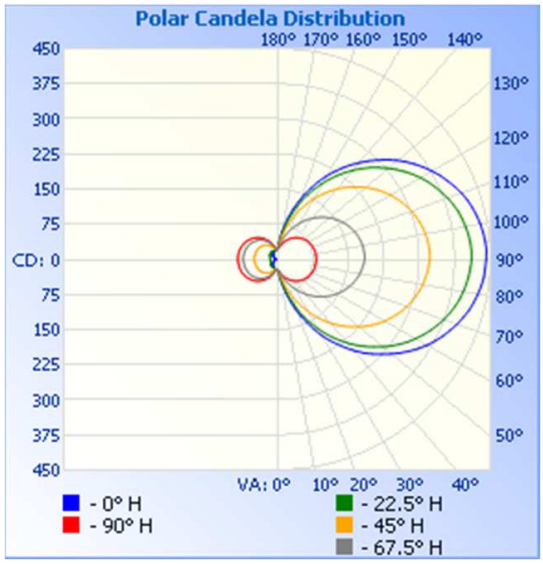
RESULTS OF TEST

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)
AH06192017043831-005	Horizontal	119.9	235.7	28.11	0.994	1647	58.59

Intensity (Candlepower) Summary at 25°C - Candelas

Angle	0	22.5	45	67.5	90
0	22	22	22	22	22
5	26	25	24	23	23
10	47	42	34	28	27
15	78	70	52	35	32
20	114	102	75	46	38
25	149	136	100	58	44
30	186	170	127	70	50
35	220	202	153	84	55
40	254	234	178	98	60
45	285	263	202	111	65
50	314	290	224	123	68
55	341	316	244	136	72
60	366	338	262	146	75
65	386	358	278	156	78
70	404	375	292	164	79
75	419	388	303	171	81
80	430	399	312	177	81
85	438	406	318	181	82
90	441	410	322	184	83
95	441	409	321	184	83
100	436	404	318	182	82
105	427	396	311	179	81
110	414	383	302	174	80
115	397	367	290	167	78
120	377	349	276	160	76
125	355	328	259	150	73
130	330	303	240	139	69
135	300	277	219	127	65
140	270	249	196	115	61
145	238	218	172	101	56
150	204	186	146	87	50
155	168	152	120	72	44
160	131	119	93	58	38
165	95	85	67	45	32
170	60	55	45	33	26
175	33	31	28	25	23
180	21	21	21	21	21

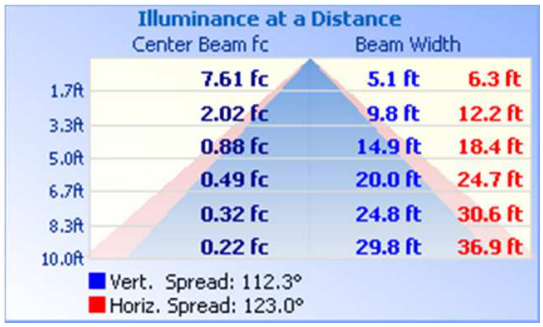


RESULTS OF TEST (cont'd)

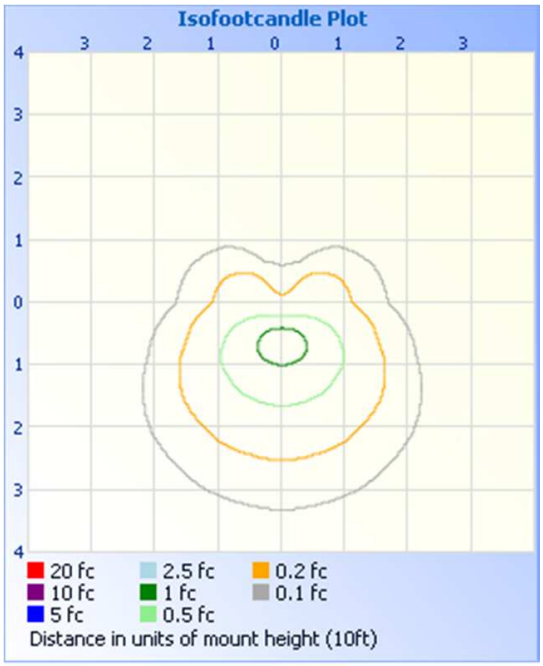
Illumination Plots

Mounting Height: 10 ft.

Illuminance - Cone of Light



Isoillumination Plot



Zonal Lumen Summary and Percentages at 25°C

Zone	Lumens	% Luminaire
0-30	43.8	2.7
0-40	100.2	6.1
0-60	307.2	18.7
60-90	499.6	30.3
0-90	806.8	49.0
90-180	840.2	51.0
0-180	1647	100.0

Zonal Lumens and Percentages at 25°(

Zone	Lumens	% Luminaire
0-10	2.4	0.1
10-20	11.5	0.7
20-30	29.9	1.8
30-40	56.4	3.4
40-50	87.5	5.3
50-60	119.4	7.2
60-70	147.8	9.0
70-80	169.4	10.3
80-90	182.4	11.1
90-100	184.2	11.2
100-110	173.4	10.5
110-120	153.1	9.3
120-130	125.3	7.6
130-140	93.3	5.7
140-150	61.4	3.7
150-160	33.5	2.0
160-170	13.3	0.8
170-180	2.6	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

Report Reviewed By:

Timothy Quigley
Engineer
Lighting Division

Attachment: None