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Allentown, PA 18106  
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## Floodlight Distribution Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)

Prepared For  
**Kichler Lighting**  
7711 E Pleasant Walley Rd  
Cleveland, OH 44131-8010  
United States

Catalog Number  
**16016AZT30 - high**  
Order Number  
11906661  
Test Number  
11906661.12

Test Date

2017-08-17

Prepared By

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Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Brown formed aluminum housing, semi-specular internal reflector, clear glass lens enclosure  
**Lamp:** One white LED  
**Mounting:** Pole/Arm  
**Ballast/Driver:** Integrated

**Luminaire**



**Luminaire Characteristics**

Luminous Diameter: 1.75 in.  
Luminous Height: 1.000 in.

**Summary of Results**

Total Luminaire Output:	326.8 Lumens
Luminaire Efficacy:	55.4 lm/w
Maximum Candela:	1118 Candela

**Test Conditions**

Test Temperature:	24.6 °C
Voltage:	11.92 VAC
Current:	0.7304 A
Power:	5.897 W
Power Factor:	0.677
Frequency:	60 Hz
Current THD:	96.8 %

Laboratory results may not be representative of field performance  
Ballast factors have not been applied



## Distribution - Goniophotometer

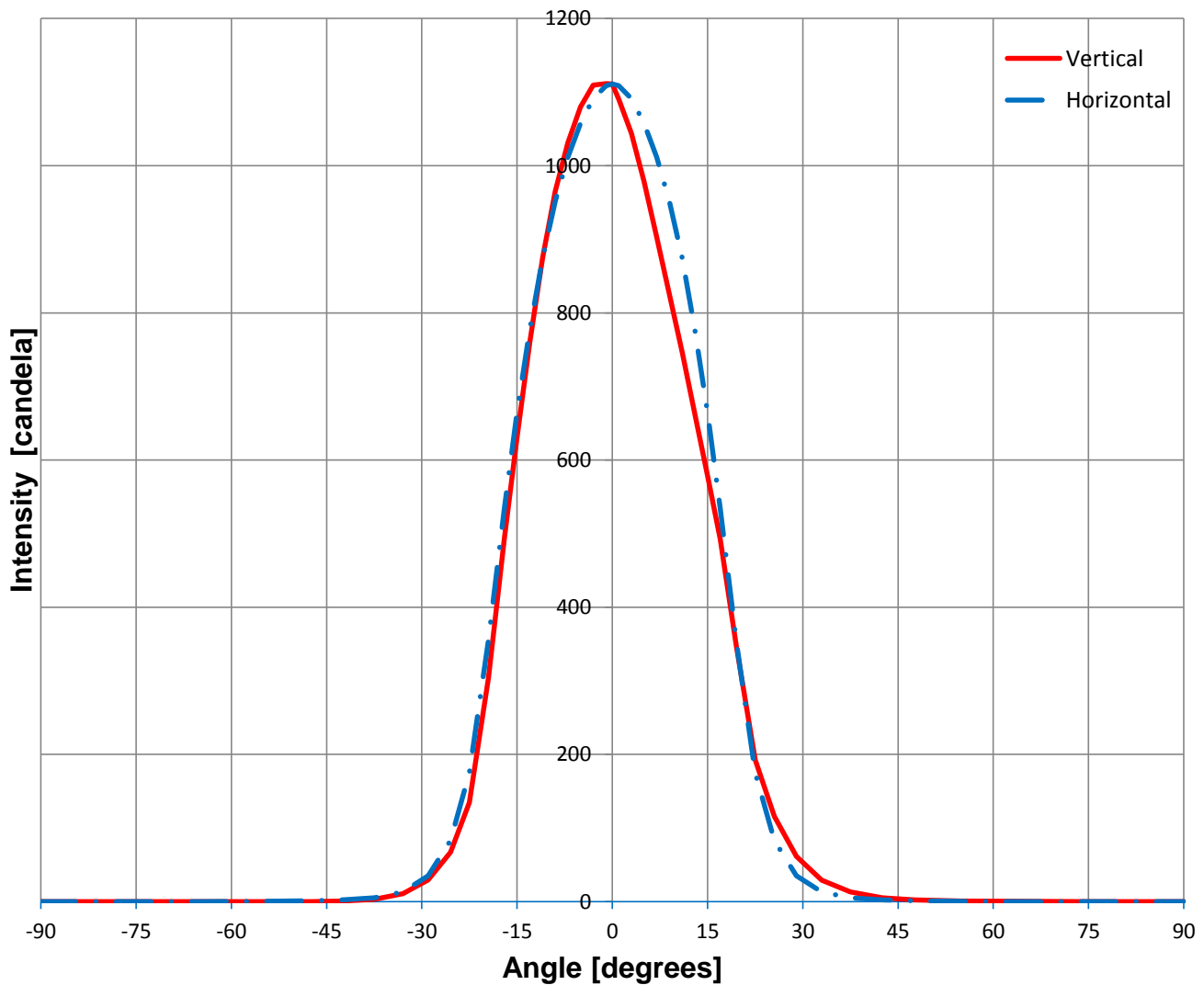
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	11.92 VAC	0.7304 A	5.897 W	0.677	60 Hz	96.8 %

### Summary of Results

Total Lumen Output:	326.8 Lumens	Maximum Candela:	1118.0 Candela
Luminaire Efficacy:	55.4 Lumens/Watt	Maximum Angle:	-1 H      -1 V
Field Lumens:	299.2 Lumens	Field Angle :	49.0 H    X    49.3 V
Beam Lumens:	208.7 Lumens	Beam Angle :	33.1 H    X    31.6 V
Spill Light Lumens:	27.6 Lumens	IESNA Type:	4 H      X      4 V

### Maximum Candlepower Plot





### Candela Tabulation

Lateral Angle (Degrees)

Vertical Angle (Degrees)	Lateral Angle (Degrees)										
	0	1	3	5	7	9	11	13	15	17	19.5
85.0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0
55.0	1	1	1	1	1	1	1	1	1	1	1
47.5	2	2	2	2	2	2	2	2	2	2	2
42.5	5	5	5	5	5	5	4	4	3	3	3
37.5	13	13	13	13	12	11	9	8	7	6	5
33.0	29	30	30	28	26	23	21	18	16	13	10
29.0	61	62	62	59	55	49	43	37	31	25	19
25.5	116	117	117	111	102	91	80	68	56	44	32
22.5	193	197	195	182	168	150	131	110	90	71	50
19.5	349	355	349	329	295	257	215	174	140	109	76
17.0	493	498	491	471	437	390	329	264	202	150	104
15.0	579	584	579	562	536	495	435	356	269	196	130
13.0	662	669	662	644	618	580	528	449	351	256	164
11.0	746	754	744	725	697	657	602	529	434	325	203
9.0	825	832	823	806	777	731	669	597	507	392	244
7.0	903	908	900	882	852	801	736	659	565	447	286
5.0	979	983	973	955	919	867	795	709	611	492	321
3.0	1044	1049	1037	1012	970	913	839	748	643	520	344
1.0	1090	1095	1079	1047	1001	942	865	770	660	533	355
0.0	1111	1109	1091	1057	1012	952	874	776	664	534	355
-1.0	1111	1118	1100	1066	1018	956	876	776	662	530	351
-3.0	1109	1117	1104	1071	1019	951	863	759	642	508	331
-5.0	1080	1088	1079	1049	996	921	830	723	605	472	298
-7.0	1031	1037	1026	996	941	865	771	666	550	419	257
-9.0	965	967	953	918	863	788	698	595	478	351	207
-11.0	874	872	856	820	766	697	610	509	395	277	161
-13.0	759	756	739	707	657	590	508	407	301	207	123
-15.0	630	627	611	583	535	469	386	296	211	148	93
-17.0	493	490	471	441	395	334	264	198	144	103	69
-19.5	304	300	283	259	229	188	149	116	89	67	45
-22.5	135	133	126	116	106	91	77	63	50	38	26
-25.5	67	66	63	58	53	46	40	33	27	21	15
-29.0	30	29	28	26	24	21	18	15	13	10	8
-33.0	11	11	10	10	9	8	7	6	5	4	3
-37.5	3	3	3	3	3	3	2	2	2	2	1
-42.5	1	1	1	1	1	1	1	1	0	0	0
-47.5	0	0	0	0	0	0	0	0	0	0	0
-55.0	0	0	0	0	0	0	0	0	0	0	0
-65.0	0	0	0	0	0	0	0	0	0	0	0
-75.0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0



### Candela Tabulation

Lateral Angle (Degrees)

Vertical Angle (Degrees)	Lateral Angle (Degrees)										
	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	0	0	0	0	0	0	0	0	0	0	0
75.0	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0
55.0	1	1	1	0	0	0	0	0	0	0	0
47.5	1	1	1	1	1	0	0	0	0	0	0
42.5	2	2	1	1	1	1	0	0	0	0	0
37.5	4	3	2	2	1	1	1	0	0	0	0
33.0	7	5	4	2	2	1	1	0	0	0	0
29.0	13	9	5	3	2	1	1	0	0	0	0
25.5	21	13	8	4	2	1	1	0	0	0	0
22.5	31	19	11	5	3	1	1	0	0	0	0
19.5	47	28	14	7	3	2	1	0	0	0	0
17.0	63	35	17	8	4	2	1	0	0	0	0
15.0	78	43	21	9	4	2	1	0	0	0	0
13.0	94	51	24	10	4	2	1	0	0	0	0
11.0	110	60	27	11	5	2	1	0	0	0	0
9.0	127	67	30	12	5	2	1	0	0	0	0
7.0	146	75	33	13	5	2	1	0	0	0	0
5.0	160	80	35	13	5	2	1	0	0	0	0
3.0	171	83	36	13	5	2	1	0	0	0	0
1.0	175	84	36	13	5	2	1	0	0	0	0
0.0	175	83	35	13	5	2	1	0	0	0	0
-1.0	172	82	35	13	5	2	1	0	0	0	0
-3.0	160	77	33	12	5	2	1	0	0	0	0
-5.0	143	70	30	11	5	2	1	0	0	0	0
-7.0	125	63	27	10	4	2	1	0	0	0	0
-9.0	104	53	23	9	4	2	1	0	0	0	0
-11.0	84	44	20	8	4	2	1	0	0	0	0
-13.0	67	35	16	7	3	1	1	0	0	0	0
-15.0	52	28	13	6	3	1	1	0	0	0	0
-17.0	39	21	11	5	2	1	1	0	0	0	0
-19.5	26	15	8	4	2	1	0	0	0	0	0
-22.5	16	10	6	3	2	1	0	0	0	0	0
-25.5	10	6	4	2	1	1	0	0	0	0	0
-29.0	5	4	2	1	1	0	0	0	0	0	0
-33.0	2	2	1	1	0	0	0	0	0	0	0
-37.5	1	1	1	0	0	0	0	0	0	0	0
-42.5	0	0	0	0	0	0	0	0	0	0	0
-47.5	0	0	0	0	0	0	0	0	0	0	0
-55.0	0	0	0	0	0	0	0	0	0	0	0
-65.0	0	0	0	0	0	0	0	0	0	0	0
-75.0	0	0	0	0	0	0	0	0	0	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0



## Isocandela Diagram (Percent of Maximum Intensity)

