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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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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  
**16016AZT27 - low**  
Order Number  
11906661  
Test Number  
11906661.07

Test Date

2017-08-24

Prepared By

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Approved By

Justin Benner, 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:	108.3 Lumens
Luminaire Efficacy:	51.7 lm/w
Maximum Candela:	399 Candela

**Test Conditions**

Test Temperature:	24.7 °C
Voltage:	12.09 VAC
Current:	0.3036 A
Power:	2.096 W
Power Factor:	0.571
Frequency:	60 Hz
Current THD:	116 %

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



## Distribution - Goniophotometer

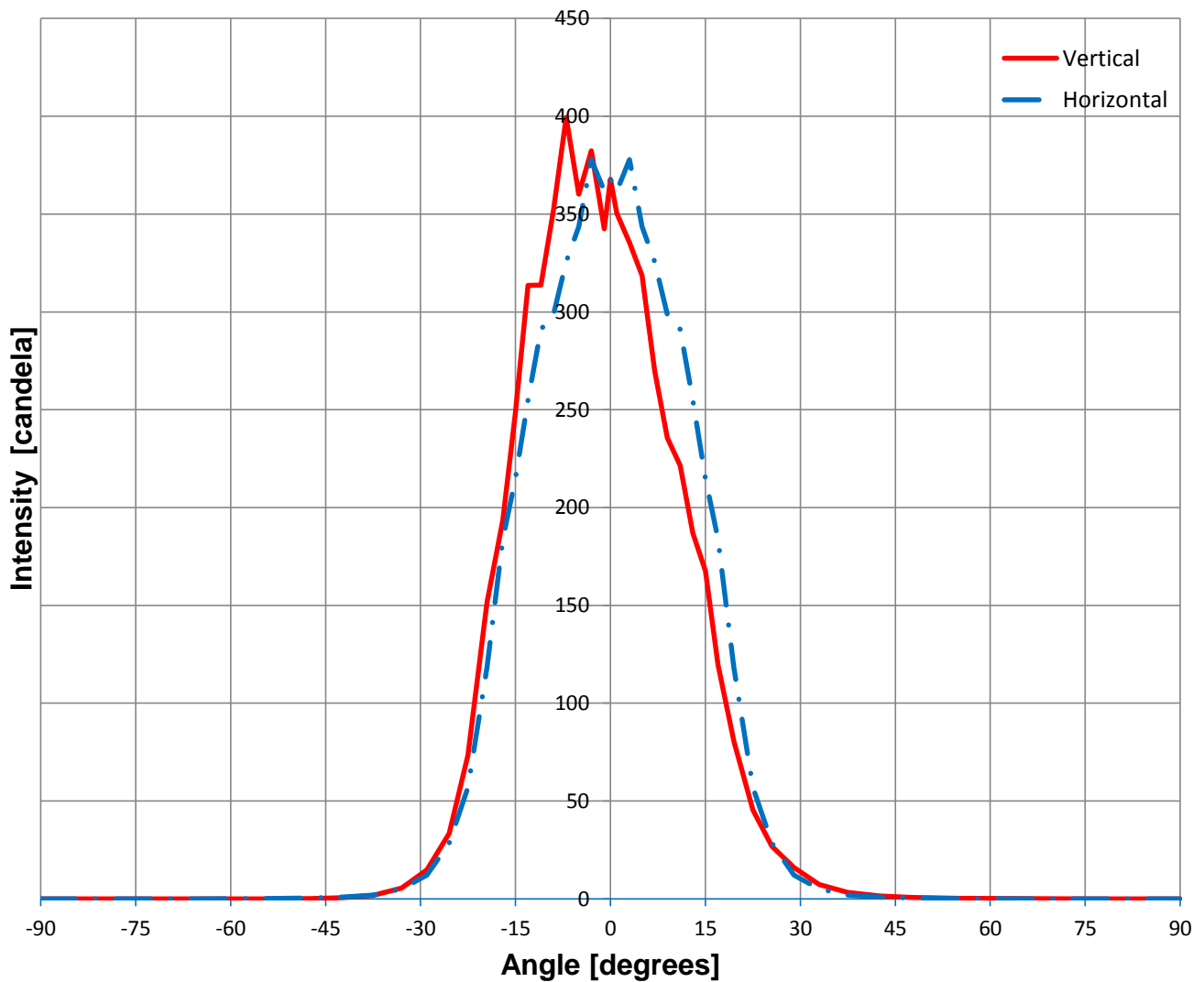
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	12.09 VAC	0.3036 A	2.096 W	0.571	60 Hz	116 %

### Summary of Results

Total Lumen Output:	108.3 Lumens	Maximum Candela:	399.3 Candela
Luminaire Efficacy:	51.7 Lumens/Watt	Maximum Angle:	0 H -7 V
Field Lumens:	98.3 Lumens	Field Angle :	46.1 H X 48.4 V
Beam Lumens:	65.4 Lumens	Beam Angle :	29.1 H X 29.0 V
Spill Light Lumens:	10.0 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	0	0	0	0	0	0	0	0	0	0	0
47.5	1	1	1	1	1	1	1	1	1	1	1
42.5	2	2	2	2	2	1	1	1	1	1	1
37.5	3	3	4	4	3	3	3	3	2	2	2
33.0	7	8	9	8	8	7	6	5	5	4	3
29.0	16	17	19	18	16	14	13	11	9	8	6
25.5	27	31	34	32	30	27	24	19	16	13	10
22.5	45	52	57	52	48	44	38	33	27	21	15
19.5	81	94	100	92	87	73	59	49	40	31	23
17.0	120	134	152	141	126	116	92	72	57	44	30
15.0	168	177	176	169	161	149	132	101	76	56	39
13.0	187	200	203	201	184	182	162	134	102	72	47
11.0	221	231	231	232	209	207	179	168	131	98	58
9.0	236	267	264	246	246	226	204	190	162	122	71
7.0	270	296	280	278	260	255	232	206	185	143	90
5.0	318	313	314	294	294	272	256	230	204	158	102
3.0	335	330	347	338	307	294	268	242	203	174	112
1.0	350	362	357	344	332	306	285	248	220	184	118
0.0	368	362	378	344	325	299	291	255	215	184	118
-1.0	342	384	366	377	325	325	289	273	225	180	118
-3.0	382	356	372	354	332	315	281	258	218	172	112
-5.0	360	358	371	363	335	323	270	248	205	165	100
-7.0	399	349	358	351	323	294	258	229	191	145	88
-9.0	352	335	334	317	303	280	240	212	166	125	74
-11.0	314	293	304	300	272	261	214	179	143	101	57
-13.0	313	272	257	239	235	208	187	148	110	74	43
-15.0	249	234	217	207	188	172	144	111	80	56	33
-17.0	194	183	177	167	147	121	102	78	54	37	25
-19.5	151	131	112	106	91	76	58	43	33	25	17
-22.5	73	64	53	49	42	35	30	23	19	14	10
-25.5	33	30	25	22	20	17	16	13	10	8	6
-29.0	15	13	10	10	9	8	7	6	5	4	3
-33.0	6	5	4	4	3	3	3	2	2	2	1
-37.5	2	2	1	1	1	1	1	1	1	1	1
-42.5	1	1	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



### 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	0	0	0	0	0	0	0	0	0	0	0
47.5	0	0	0	0	0	0	0	0	0	0	0
42.5	1	1	1	0	0	0	0	0	0	0	0
37.5	1	1	1	1	0	0	0	0	0	0	0
33.0	2	2	1	1	1	0	0	0	0	0	0
29.0	4	3	2	1	1	0	0	0	0	0	0
25.5	7	4	3	2	1	1	0	0	0	0	0
22.5	10	6	4	2	1	1	0	0	0	0	0
19.5	14	9	5	3	1	1	0	0	0	0	0
17.0	19	12	6	3	1	1	0	0	0	0	0
15.0	25	14	7	3	1	1	0	0	0	0	0
13.0	29	17	8	4	2	1	0	0	0	0	0
11.0	34	19	9	4	2	1	0	0	0	0	0
9.0	40	22	10	5	2	1	0	0	0	0	0
7.0	45	26	11	5	2	1	1	0	0	0	0
5.0	49	27	12	5	2	1	0	0	0	0	0
3.0	54	28	13	5	2	1	0	0	0	0	0
1.0	57	28	12	5	2	1	0	0	0	0	0
0.0	57	29	12	5	2	1	0	0	0	0	0
-1.0	56	28	12	5	2	1	0	0	0	0	0
-3.0	52	26	12	5	2	1	0	0	0	0	0
-5.0	46	24	11	4	2	1	0	0	0	0	0
-7.0	44	22	10	4	2	1	0	0	0	0	0
-9.0	37	19	9	4	2	1	0	0	0	0	0
-11.0	30	16	8	3	1	1	0	0	0	0	0
-13.0	25	13	6	3	1	1	0	0	0	0	0
-15.0	19	10	5	2	1	1	0	0	0	0	0
-17.0	15	9	4	2	1	1	0	0	0	0	0
-19.5	10	6	3	2	1	0	0	0	0	0	0
-22.5	6	4	2	1	1	0	0	0	0	0	0
-25.5	4	2	2	1	1	0	0	0	0	0	0
-29.0	2	1	1	1	0	0	0	0	0	0	0
-33.0	1	1	1	0	0	0	0	0	0	0	0
-37.5	1	0	0	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)

