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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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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 - mid**  
Order Number  
11906661  
Test Number  
11906661.08

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:	192.4 Lumens
Luminaire Efficacy:	50.4 lm/w
Maximum Candela:	675 Candela

**Test Conditions**

Test Temperature:	24.6 °C
Voltage:	12.06 VAC
Current:	0.4999 A
Power:	3.817 W
Power Factor:	0.633
Frequency:	60 Hz
Current THD:	109 %

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



## Distribution - Goniophotometer

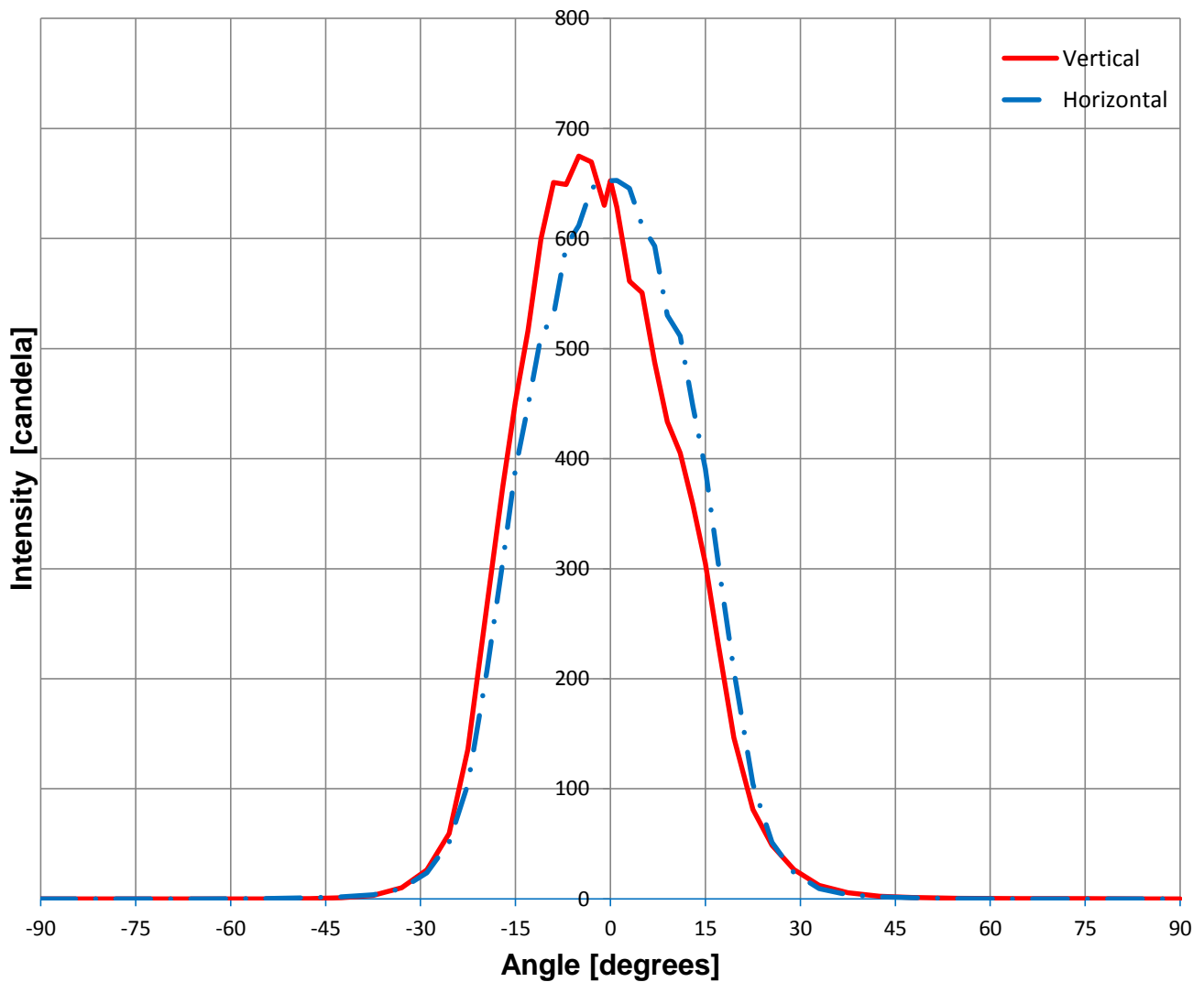
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	12.06 VAC	0.4999 A	3.817 W	0.633	60 Hz	109 %

### Summary of Results

Total Lumen Output:	192.4 Lumens	Maximum Candela:	674.9 Candela
Luminaire Efficacy:	50.4 Lumens/Watt	Maximum Angle:	0 H -5 V
Field Lumens:	174.8 Lumens	Field Angle :	48.0 H X 48.9 V
Beam Lumens:	118.0 Lumens	Beam Angle :	30.8 H X 31.6 V
Spill Light Lumens:	17.5 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	1	1	1	1	1	1	1	1	1	1	1
42.5	2	3	3	3	3	3	2	2	2	2	2
37.5	6	6	7	7	6	6	5	5	4	4	3
33.0	12	14	17	15	14	13	12	11	9	8	6
29.0	27	29	33	32	30	27	24	21	18	15	11
25.5	49	57	65	61	55	50	44	38	32	26	19
22.5	81	98	109	104	95	84	74	62	50	41	30
19.5	147	177	192	177	162	147	120	98	79	62	45
17.0	233	261	271	260	245	217	184	147	116	86	61
15.0	305	324	325	310	308	275	240	199	152	116	76
13.0	359	383	371	369	349	318	297	255	207	148	94
11.0	405	416	413	409	395	359	339	300	242	184	118
9.0	433	470	460	446	428	408	372	341	276	223	141
7.0	487	515	505	493	481	446	408	371	318	260	168
5.0	551	569	557	534	514	487	455	398	346	282	187
3.0	561	607	613	564	548	521	484	425	370	300	199
1.0	628	624	632	617	578	550	500	442	375	315	208
0.0	653	653	646	612	593	530	511	448	391	307	207
-1.0	630	671	654	617	590	546	489	446	390	312	210
-3.0	670	674	658	628	590	558	516	448	380	296	198
-5.0	675	670	642	632	591	542	495	426	351	281	177
-7.0	649	645	624	594	542	508	464	398	327	251	157
-9.0	651	590	582	553	513	461	412	355	286	218	131
-11.0	599	547	521	499	461	408	363	301	238	171	105
-13.0	516	476	449	432	397	356	302	246	182	130	78
-15.0	452	404	383	361	321	285	234	182	134	94	59
-17.0	375	321	296	271	241	210	169	127	93	67	43
-19.5	267	227	185	168	151	123	101	74	56	42	29
-22.5	136	115	91	82	72	58	49	41	31	24	17
-25.5	59	52	43	39	35	29	25	21	17	13	10
-29.0	26	23	19	17	16	13	11	10	8	7	5
-33.0	10	9	7	7	6	5	5	4	3	3	2
-37.5	3	3	2	2	2	2	2	2	1	1	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	0	0	0	0	0	0	0	0	0	0	0
47.5	1	1	1	1	0	0	0	0	0	0	0
42.5	1	1	1	1	1	0	0	0	0	0	0
37.5	3	2	2	1	1	1	0	0	0	0	0
33.0	5	4	2	2	1	1	1	0	0	0	0
29.0	8	6	4	2	1	1	1	0	0	0	0
25.5	13	9	5	3	2	1	1	0	0	0	0
22.5	19	13	7	4	2	1	1	0	0	0	0
19.5	28	17	9	5	2	1	1	0	0	0	0
17.0	38	22	11	6	3	1	1	0	0	0	0
15.0	47	27	13	6	3	1	1	0	0	0	0
13.0	55	32	16	7	3	2	1	0	0	0	0
11.0	66	37	18	8	3	2	1	0	0	0	0
9.0	75	42	20	8	3	2	1	0	0	0	0
7.0	87	45	21	9	4	2	1	0	0	0	0
5.0	94	50	23	9	4	2	1	0	0	0	0
3.0	103	53	24	9	4	2	1	0	0	0	0
1.0	106	52	24	9	4	2	1	0	0	0	0
0.0	104	51	24	9	4	2	1	0	0	0	0
-1.0	104	51	23	9	4	2	1	0	0	0	0
-3.0	100	49	22	8	4	2	1	0	0	0	0
-5.0	90	46	20	8	3	2	1	0	0	0	0
-7.0	78	39	18	7	3	1	1	0	0	0	0
-9.0	66	33	16	6	3	1	1	0	0	0	0
-11.0	52	28	13	6	3	1	1	0	0	0	0
-13.0	43	23	11	5	2	1	1	0	0	0	0
-15.0	33	18	9	4	2	1	1	0	0	0	0
-17.0	25	14	7	4	2	1	1	0	0	0	0
-19.5	17	10	6	3	2	1	0	0	0	0	0
-22.5	11	7	4	2	1	1	0	0	0	0	0
-25.5	6	4	3	2	1	1	0	0	0	0	0
-29.0	3	2	2	1	1	0	0	0	0	0	0
-33.0	2	1	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)

