



UL Verification Services Inc.  
7036 Snowdrift Road  
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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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  
**16015AZT27 (16015BKT27) - high**  
Order Number  
11906661  
Test Number  
11906661.03

Test Date

2017-08-25

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:** Black formed aluminum housing, 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:	311.7 Lumens
Luminaire Efficacy:	54.4 lm/w
Maximum Candela:	5684 Candela

**Test Conditions**

Test Temperature:	25.2 °C
Voltage:	12.01 VAC
Current:	0.7115 A
Power:	5.725 W
Power Factor:	0.670
Frequency:	60 Hz
Current THD:	101 %

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



## Distribution - Goniophotometer

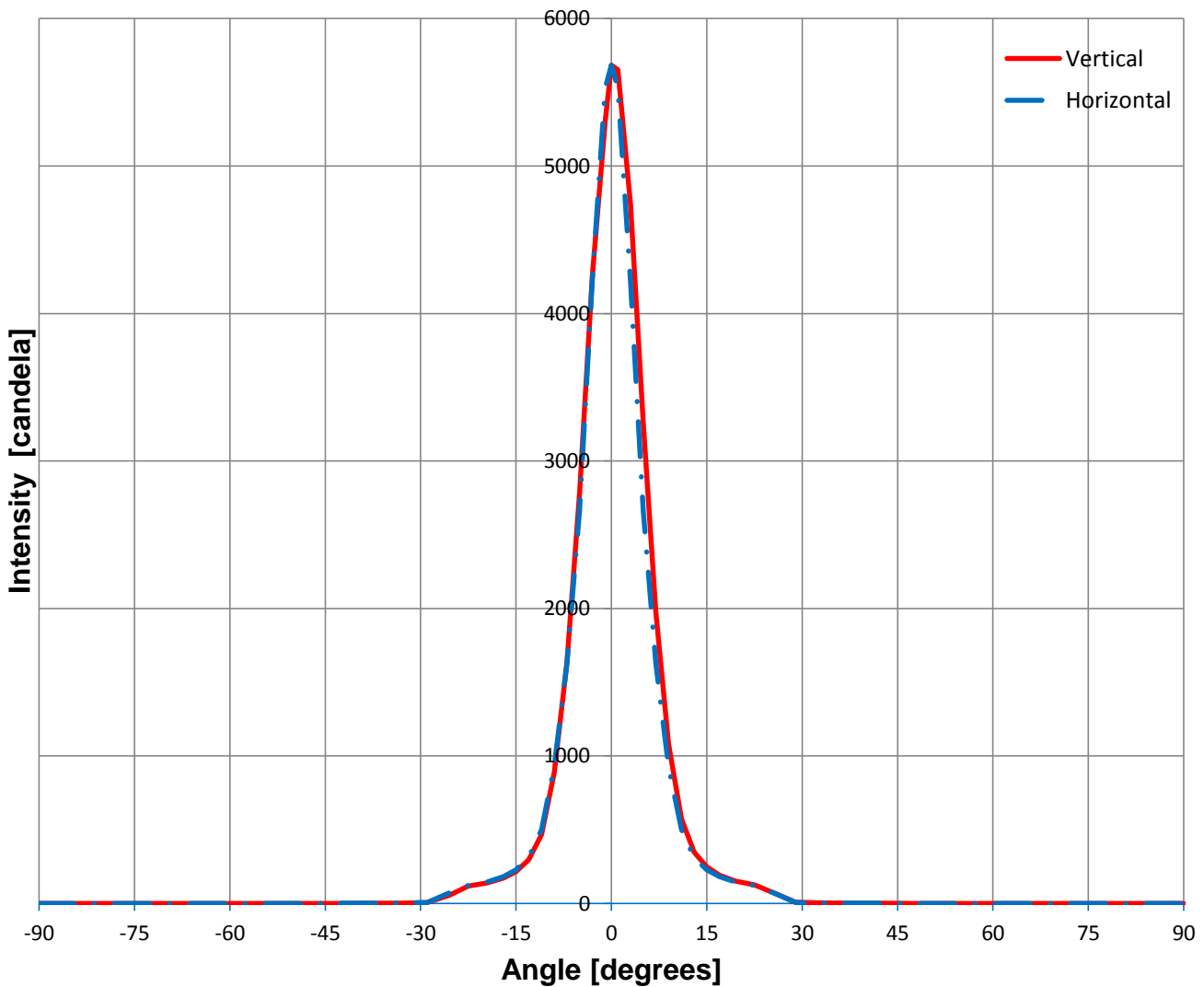
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	12.01 VAC	0.7115 A	5.725 W	0.670	60 Hz	101 %

### Summary of Results

<b>Total Lumen Output:</b>	311.7 Lumens	<b>Maximum Candela:</b>	5684.1 Candela
<b>Luminaire Efficacy:</b>	54.4 Lumens/Watt	<b>Maximum Angle:</b>	0 H      0 V
<b>Field Lumens:</b>	212.4 Lumens	<b>Field Angle :</b>	21.4 H   X   21.6 V
<b>Beam Lumens:</b>	92.5 Lumens	<b>Beam Angle :</b>	9.5 H    X   10.6 V
<b>Spill Light Lumens:</b>	99.3 Lumens	<b>IESNA Type:</b>	2 H    X    2 V

### Maximum Candlepower Plot





**Candela Tabulation**  
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	1	1	1	1	1	1	1	1	1	1	1
37.5	2	2	2	2	2	2	2	2	2	2	1
33.0	3	3	3	3	3	3	3	2	2	2	2
29.0	7	7	7	6	6	5	5	4	4	3	2
25.5	72	73	71	65	54	40	24	13	7	5	4
22.5	125	125	125	124	119	110	92	69	41	19	7
19.5	151	152	151	148	143	137	130	120	101	71	30
17.0	192	193	190	182	170	157	144	134	126	112	71
15.0	248	250	243	225	203	181	162	147	135	124	100
13.0	347	354	337	300	256	218	186	164	146	132	117
11.0	572	591	540	441	350	277	221	184	160	142	126
9.0	1083	1114	972	727	517	371	275	213	176	152	131
7.0	1972	1996	1699	1231	787	506	338	245	193	161	135
5.0	3266	3284	2638	1824	1183	683	413	275	207	168	139
3.0	4739	4715	3654	2402	1513	858	476	300	220	174	143
1.0	5653	5502	4325	2695	1636	934	504	311	227	180	146
0.0	5684	5530	4218	2666	1625	928	501	311	227	181	146
-1.0	5304	5153	3991	2576	1582	897	482	305	226	180	145
-3.0	4248	3989	3109	2081	1363	786	439	292	218	175	143
-5.0	2780	2633	2139	1534	991	595	375	267	205	168	140
-7.0	1630	1546	1337	980	642	427	303	233	188	159	136
-9.0	887	833	738	569	422	315	241	198	169	148	129
-11.0	468	445	417	355	289	237	198	169	152	137	123
-13.0	296	286	274	247	220	192	168	152	138	128	111
-15.0	215	212	206	195	180	164	150	138	128	118	87
-17.0	171	169	167	162	154	145	136	128	118	98	52
-19.5	140	140	138	136	133	128	122	109	83	51	17
-22.5	118	117	115	111	101	87	68	45	22	9	5
-25.5	55	52	46	39	30	18	11	7	5	4	3
-29.0	5	5	4	4	4	3	3	3	2	2	1
-33.0	1	1	1	1	1	1	1	1	1	1	1
-37.5	1	1	1	1	1	1	1	1	1	1	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

Vertical Angle (Degrees)



**Candela Tabulation**  
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	1	0	0	0	0	0	0	0
37.5	1	1	1	1	0	0	0	0	0	0	0
33.0	2	1	1	1	1	0	0	0	0	0	0
29.0	2	2	2	1	1	0	0	0	0	0	0
25.5	3	2	2	1	1	1	0	0	0	0	0
22.5	4	3	2	2	1	1	0	0	0	0	0
19.5	7	4	2	2	1	1	0	0	0	0	0
17.0	18	5	3	2	1	1	0	0	0	0	0
15.0	40	7	3	2	2	1	0	0	0	0	0
13.0	66	13	4	2	2	1	0	0	0	0	0
11.0	89	23	5	2	2	1	0	0	0	0	0
9.0	106	37	5	3	2	1	0	0	0	0	0
7.0	113	51	6	3	2	1	0	0	0	0	0
5.0	118	62	6	3	2	1	0	0	0	0	0
3.0	121	68	6	3	2	1	0	0	0	0	0
1.0	122	71	6	3	2	1	0	0	0	0	0
0.0	122	71	6	3	2	1	0	0	0	0	0
-1.0	122	70	6	3	2	1	0	0	0	0	0
-3.0	120	65	6	3	2	1	0	0	0	0	0
-5.0	118	57	6	3	2	1	0	0	0	0	0
-7.0	111	45	6	3	2	1	0	0	0	0	0
-9.0	99	30	5	2	2	1	0	0	0	0	0
-11.0	79	17	5	2	1	1	0	0	0	0	0
-13.0	53	9	4	2	1	1	0	0	0	0	0
-15.0	27	6	3	2	1	1	0	0	0	0	0
-17.0	11	5	3	2	1	0	0	0	0	0	0
-19.5	6	3	2	1	1	0	0	0	0	0	0
-22.5	3	2	1	1	1	0	0	0	0	0	0
-25.5	2	1	1	1	0	0	0	0	0	0	0
-29.0	1	1	1	1	0	0	0	0	0	0	0
-33.0	1	1	0	0	0	0	0	0	0	0	0
-37.5	0	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

Vertical Angle (Degrees)



### Isocandela Diagram (Percent of Maximum Intensity)

