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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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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 Pleasant Valley Rd  
Cleveland, OH 44131-8010  
United States

### Catalog Number

**CTR170465-21 (high)**

Order Number

12055963

Test Number

12055963.18

Test Date

2017-12-04

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, frosted patterned glass lens enclosure  
**Lamp:** One white LED  
**Mounting:** Post  
**Ballast/Driver:** Integrated

**Luminaire**



**Luminaire Characteristics**

Luminous Diameter: 2.50 in.  
Luminous Height: 1.250 in.

**Summary of Results**

Total Luminaire Output:	870.0 Lumens
Luminaire Efficacy:	75.1 lm/w
Maximum Candela:	725 Candela

**Test Conditions**

Test Temperature:	25.4 °C
Voltage:	12.02 VAC
Current:	1.338 A
Power:	11.58 W
Power Factor:	0.717
Frequency:	60 Hz
Current THD:	87.4 %

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



## Distribution - Goniophotometer

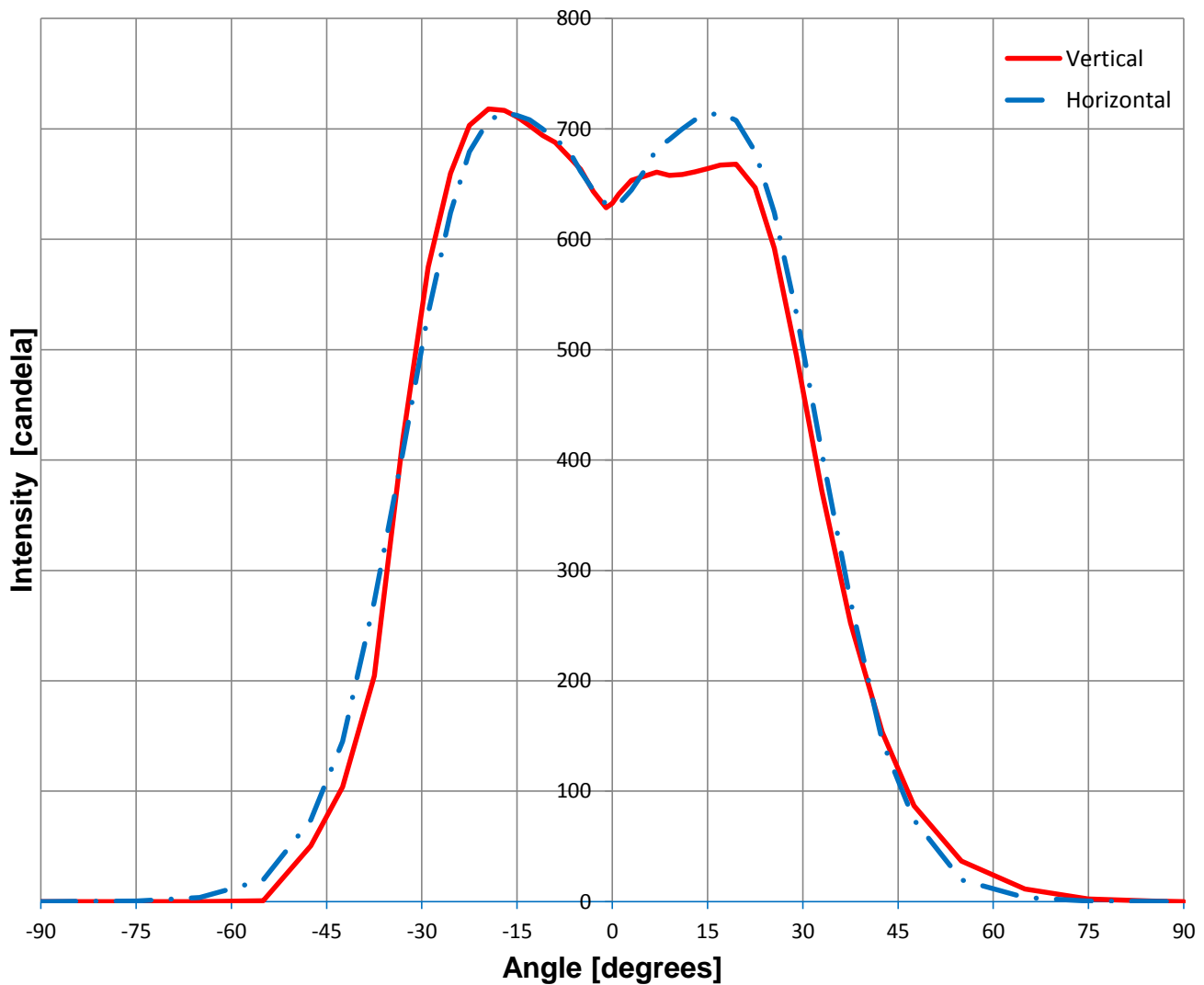
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	12.02 VAC	1.338 A	11.58 W	0.717	60 Hz	87.4 %

### Summary of Results

Total Lumen Output:	870.0 Lumens	Maximum Candela:	724.5 Candela
Luminaire Efficacy:	75.1 Lumens/Watt	Maximum Angle:	-11 H      -13 V
Field Lumens:	830.4 Lumens	Field Angle :	90.7 H    X    93.1 V
Beam Lumens:	658.6 Lumens	Beam Angle :	63.3 H    X    64.5 V
Spill Light Lumens:	39.7 Lumens	IESNA Type:	5 H      X      5 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	1	1	1	1	1	1	1	1	1	1	1
75.0	2	2	3	3	3	3	3	3	3	3	3
65.0	11	12	13	13	13	13	13	12	12	12	11
55.0	37	38	41	43	42	41	40	39	38	36	34
47.5	87	91	100	101	99	96	93	90	85	81	75
42.5	153	161	176	176	171	166	160	153	145	135	124
37.5	253	265	289	285	278	269	258	245	231	217	197
33.0	373	390	417	411	403	391	375	356	335	313	283
29.0	495	513	536	530	521	508	490	469	444	415	376
25.5	592	604	616	613	606	596	580	559	534	505	461
22.5	647	650	655	655	653	648	638	622	600	572	529
19.5	668	666	666	672	677	680	678	668	651	628	589
17.0	667	663	666	675	685	694	697	694	683	663	630
15.0	664	660	664	674	686	698	706	706	699	685	655
13.0	661	657	664	673	686	701	710	713	711	701	675
11.0	659	657	661	673	689	702	712	719	717	710	690
9.0	658	658	660	673	688	705	714	719	720	714	699
7.0	661	656	661	675	691	703	713	718	720	717	703
5.0	657	650	658	676	686	699	709	718	719	717	706
3.0	653	642	653	667	684	697	707	714	717	717	708
1.0	641	634	644	662	683	691	701	709	713	715	708
0.0	632	632	645	662	682	690	700	708	712	714	708
-1.0	628	634	647	663	682	690	700	708	712	713	707
-3.0	644	650	655	672	685	695	706	712	714	713	705
-5.0	664	664	672	682	689	699	709	716	716	714	703
-7.0	676	677	678	689	700	706	712	716	717	713	699
-9.0	688	688	687	693	705	715	720	722	719	712	693
-11.0	694	695	696	699	708	718	724	724	718	708	684
-13.0	703	705	706	707	714	721	725	721	713	698	669
-15.0	711	711	713	714	717	720	719	713	701	682	647
-17.0	717	715	715	716	716	714	709	698	682	658	620
-19.5	718	712	707	706	701	694	683	667	645	619	577
-22.5	703	690	676	670	661	649	633	612	586	555	508
-25.5	660	642	618	610	598	584	563	539	507	468	415
-29.0	575	551	514	505	490	469	443	414	381	347	303
-33.0	419	389	335	327	315	299	281	260	237	213	184
-37.5	205	194	170	166	161	155	146	136	126	116	102
-42.5	104	99	88	84	81	78	74	70	65	60	53
-47.5	50	47	41	38	37	35	33	30	27	24	20
-55.0	1	1	1	1	1	1	1	1	1	1	1
-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)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	1	1	1	1	0	0	0	0	0	0	0
75.0	2	2	2	2	1	1	1	1	0	0	0
65.0	10	9	8	6	5	3	2	1	1	0	0
55.0	31	28	24	19	14	10	6	3	1	0	0
47.5	67	60	51	40	28	19	12	5	1	0	0
42.5	110	96	80	63	44	28	18	7	2	0	0
37.5	173	149	122	95	66	40	24	9	2	0	0
33.0	247	212	172	131	92	54	32	12	2	0	0
29.0	328	280	226	170	118	69	39	14	3	0	0
25.5	405	347	279	209	144	83	45	16	3	0	0
22.5	470	404	326	243	166	96	51	17	3	1	0
19.5	531	460	373	279	190	108	57	19	3	1	0
17.0	573	502	409	307	209	119	62	20	3	1	0
15.0	602	532	437	328	223	126	65	20	4	1	0
13.0	627	559	461	347	236	133	68	21	4	1	0
11.0	646	580	482	363	248	138	71	21	4	1	0
9.0	660	597	499	378	257	142	73	21	4	1	0
7.0	668	609	513	389	265	145	74	21	4	0	0
5.0	674	618	523	399	271	147	75	21	4	0	0
3.0	677	622	530	405	274	147	75	21	4	0	0
1.0	679	624	533	407	273	146	75	20	4	0	0
0.0	679	624	533	407	272	145	74	20	4	0	0
-1.0	678	623	532	406	270	144	73	19	4	0	0
-3.0	675	619	526	401	264	141	71	19	3	0	0
-5.0	670	612	518	394	254	136	68	18	3	0	0
-7.0	661	602	506	382	243	131	63	17	3	0	0
-9.0	650	587	490	366	228	125	58	16	3	0	0
-11.0	637	569	471	346	213	115	53	16	3	0	0
-13.0	617	546	447	319	196	105	48	14	3	0	0
-15.0	591	518	417	291	180	95	43	13	3	0	0
-17.0	560	486	381	262	162	83	38	12	2	0	0
-19.5	512	434	328	227	137	68	33	11	2	0	0
-22.5	437	355	267	183	108	55	28	9	2	0	0
-25.5	346	281	210	139	81	44	23	7	2	0	0
-29.0	250	199	144	95	58	33	17	6	1	0	0
-33.0	151	121	90	63	41	23	11	4	1	0	0
-37.5	86	71	55	39	25	13	7	3	0	0	0
-42.5	45	36	27	18	11	7	4	1	0	0	0
-47.5	16	13	10	8	5	3	1	0	0	0	0
-55.0	1	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)

