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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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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 (low)**

Order Number

12055963

Test Number

12055963.16

Test Date

2017-12-05

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:	414.0 Lumens
Luminaire Efficacy:	81.0 lm/w
Maximum Candela:	356 Candela

**Test Conditions**

Test Temperature:	25.6 °C
Voltage:	11.96 VAC
Current:	0.06350 A
Power:	5.110 W
Power Factor:	0.672
Frequency:	60 Hz
Current THD:	3.34 %

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





## Distribution - Goniophotometer

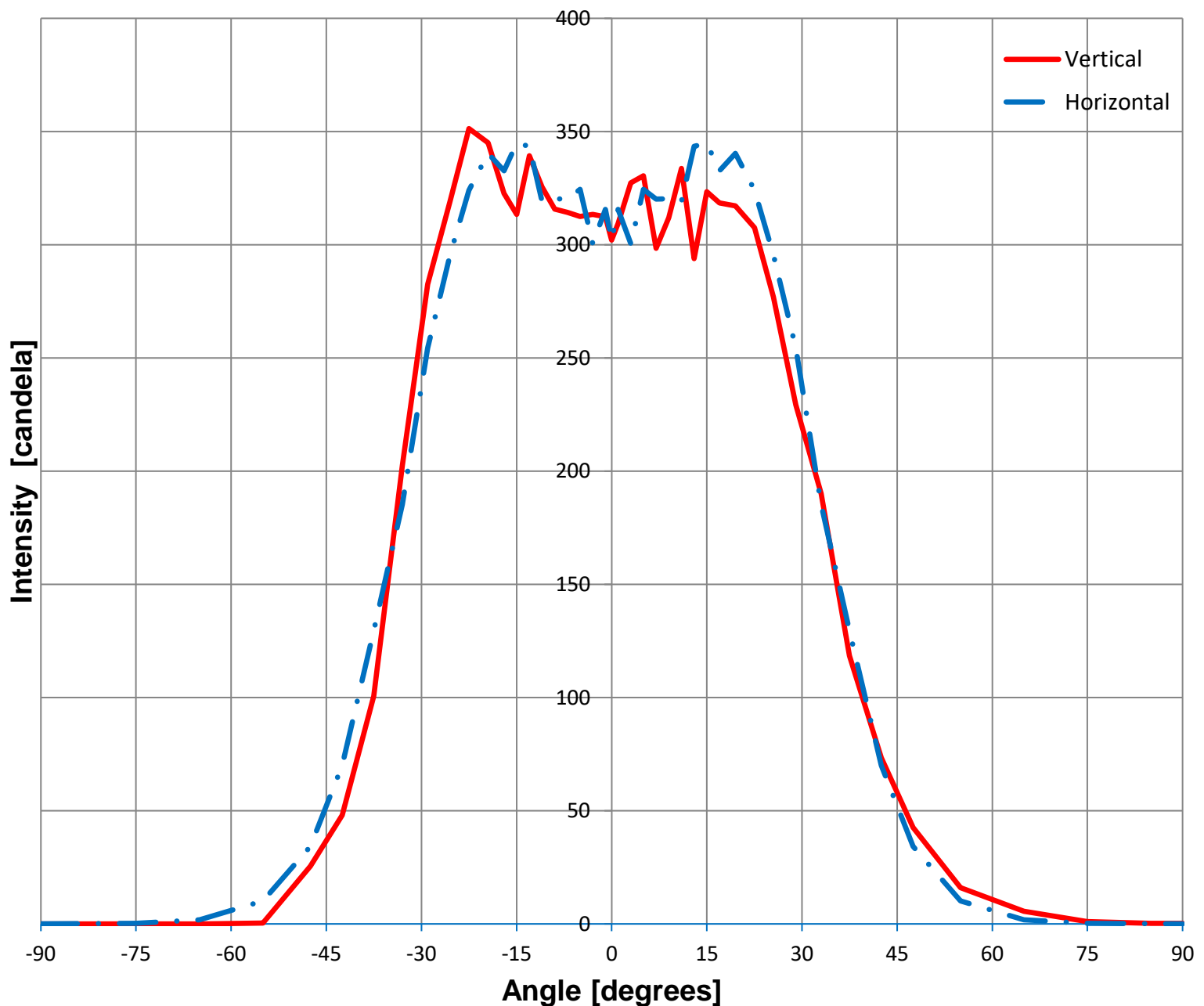
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.6 °C	11.96 VAC	0.06350 A	5.110 W	0.672	60 Hz	3.34 %

### Summary of Results

Total Lumen Output:	414.0 Lumens	Maximum Candela:	355.9 Candela
Luminaire Efficacy:	81.0 Lumens/Watt	Maximum Angle:	-11 H      -1 V
Field Lumens:	393.5 Lumens	Field Angle :	94.6 H    X    92.5 V
Beam Lumens:	308.6 Lumens	Beam Angle :	67.3 H    X    63.6 V
Spill Light Lumens:	20.4 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	0	0	0	0	0	0	0	0	0	0	0
75.0	1	1	1	2	1	1	1	1	1	1	1
65.0	6	6	6	6	6	6	6	6	6	5	5
55.0	16	17	19	20	20	19	19	18	18	17	16
47.5	43	44	48	48	46	45	44	43	41	39	35
42.5	73	77	82	81	79	77	75	72	68	67	57
37.5	118	124	135	136	135	125	120	115	109	103	95
33.0	190	194	199	199	191	180	175	166	161	149	136
29.0	229	240	252	245	247	243	234	218	205	196	177
25.5	277	277	280	284	287	277	276	264	250	240	215
22.5	308	309	311	312	312	312	299	296	286	280	261
19.5	317	319	325	327	315	322	320	326	317	294	271
17.0	318	319	314	326	328	331	331	323	316	313	291
15.0	323	319	321	326	341	338	342	338	327	330	307
13.0	294	309	322	324	329	335	340	339	339	335	320
11.0	334	322	321	325	321	336	342	348	338	338	329
9.0	312	314	321	321	337	333	353	332	337	348	337
7.0	298	309	322	318	325	328	341	343	350	335	339
5.0	330	308	318	329	319	336	329	336	340	350	342
3.0	327	318	309	320	327	322	339	342	341	342	343
1.0	309	308	307	321	321	332	329	336	348	337	341
0.0	302	316	301	324	320	320	319	343	345	333	340
-1.0	312	308	304	329	325	330	356	334	344	327	334
-3.0	313	315	312	317	334	338	333	351	342	346	330
-5.0	312	324	323	323	336	330	334	343	338	330	331
-7.0	314	323	319	323	341	340	342	339	345	337	333
-9.0	316	323	332	331	336	335	332	343	341	327	332
-11.0	326	333	331	322	334	348	345	345	335	339	326
-13.0	339	323	334	332	354	340	327	347	347	336	322
-15.0	313	334	336	342	341	344	348	340	326	320	304
-17.0	323	329	340	345	337	337	329	333	319	324	294
-19.5	345	338	332	337	325	343	319	328	308	298	266
-22.5	351	346	334	332	320	303	296	290	279	263	242
-25.5	319	307	291	288	289	280	260	255	247	232	196
-29.0	283	266	239	234	225	225	213	196	183	164	142
-33.0	203	190	166	154	150	147	134	126	114	101	87
-37.5	101	95	82	79	78	76	73	67	61	56	49
-42.5	48	46	41	41	40	37	36	34	32	30	26
-47.5	26	24	20	18	17	16	15	15	13	12	10
-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	1	1	1	1	1	1	0	0	0	0	0
65.0	4	4	3	3	2	2	1	1	0	0	0
55.0	15	14	11	9	7	5	3	1	0	0	0
47.5	32	28	24	19	13	9	6	2	1	0	0
42.5	53	48	38	30	21	13	8	3	1	0	0
37.5	82	70	59	44	31	19	12	4	1	0	0
33.0	117	100	80	62	43	25	15	6	1	0	0
29.0	153	138	110	80	53	33	18	7	1	0	0
25.5	190	163	133	97	68	40	22	8	1	0	0
22.5	219	186	155	115	78	44	25	9	1	0	0
19.5	249	213	173	134	88	50	27	9	2	0	0
17.0	270	234	192	147	99	56	28	9	2	0	0
15.0	288	248	205	155	110	61	31	9	2	0	0
13.0	295	266	217	166	114	65	33	10	2	0	0
11.0	303	278	226	171	118	69	34	10	2	0	0
9.0	306	283	230	180	125	72	34	10	2	0	0
7.0	315	294	241	187	129	71	34	10	2	0	0
5.0	328	285	248	192	128	69	35	10	2	0	0
3.0	323	291	252	197	128	70	35	10	2	0	0
1.0	320	294	254	189	130	70	35	10	2	0	0
0.0	324	296	254	185	130	70	34	10	2	0	0
-1.0	323	293	253	186	130	70	34	10	2	0	0
-3.0	323	290	248	187	130	68	33	9	2	0	0
-5.0	328	288	246	186	125	65	33	9	2	0	0
-7.0	313	287	241	180	118	62	31	8	2	0	0
-9.0	300	287	234	173	110	59	29	8	1	0	0
-11.0	287	274	218	165	103	55	26	8	1	0	0
-13.0	290	273	213	153	96	50	23	7	1	0	0
-15.0	279	255	195	136	90	44	21	7	1	0	0
-17.0	258	234	179	126	79	38	18	6	1	0	0
-19.5	240	199	160	107	66	34	16	5	1	0	0
-22.5	210	171	127	88	51	26	13	4	1	0	0
-25.5	165	135	99	66	40	21	11	3	1	0	0
-29.0	121	95	71	46	29	16	9	3	1	0	0
-33.0	71	58	43	30	20	11	5	2	0	0	0
-37.5	43	34	26	19	13	6	3	1	0	0	0
-42.5	21	18	13	9	5	3	2	1	0	0	0
-47.5	7	6	5	4	2	1	1	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)

