



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
610-774-1300



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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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

**CTR170465-17 (medium)**

Order Number

12055963

Test Number

12055963.14

Test Date

2017-12-05

Prepared By

Samuel DePue, Technician

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:	631.4 Lumens
Luminaire Efficacy:	76.8 lm/w
Maximum Candela:	542 Candela

**Test Conditions**

Test Temperature:	25.4 °C
Voltage:	12.09 VAC
Current:	1.069 A
Power:	8.225 W
Power Factor:	0.636
Frequency:	60 Hz
Current THD:	116 %

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



## Distribution - Goniophotometer

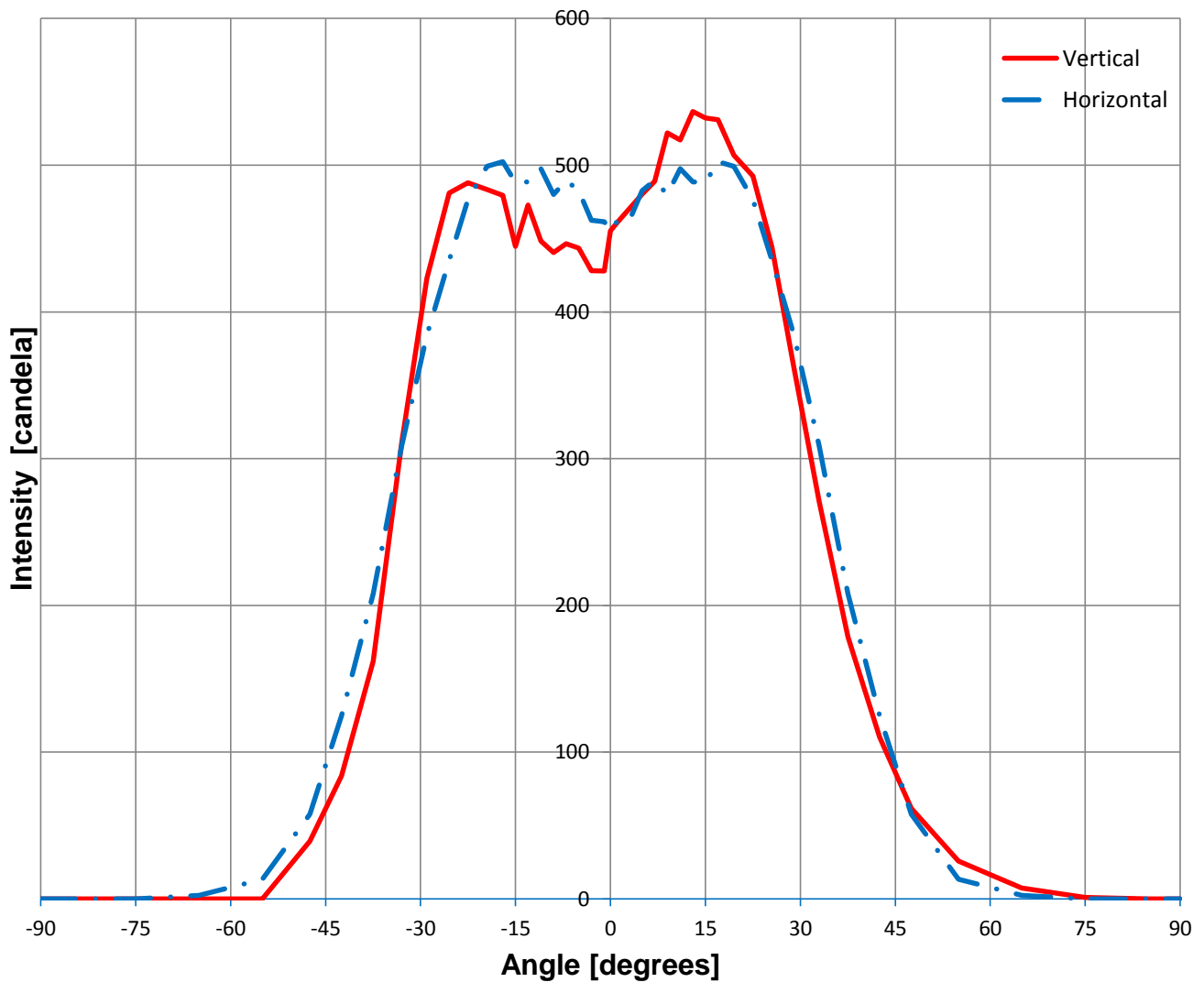
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	12.09 VAC	1.069 A	8.225 W	0.636	60 Hz	116 %

### Summary of Results

Total Lumen Output:	631.4 Lumens	Maximum Candela:	541.8 Candela
Luminaire Efficacy:	76.8 Lumens/Watt	Maximum Angle:	-5 H 13 V
Field Lumens:	603.5 Lumens	Field Angle :	96.6 H X 95.0 V
Beam Lumens:	468.1 Lumens	Beam Angle :	64.3 H X 66.5 V
Spill Light Lumens:	27.9 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	1	1	1	1	1	1	1	1
65.0	7	8	9	9	9	9	8	8	8	8	7
55.0	26	27	29	30	29	29	29	28	27	25	24
47.5	62	65	70	72	72	69	66	64	61	57	53
42.5	110	114	120	119	117	115	112	107	102	97	87
37.5	179	186	201	195	190	187	177	169	162	153	139
33.0	271	280	293	291	284	273	258	251	240	220	204
29.0	362	374	390	385	372	359	354	333	311	289	267
25.5	444	452	457	449	440	439	425	400	380	352	329
22.5	493	499	504	493	492	480	469	457	443	412	379
19.5	507	516	523	514	512	514	512	493	479	452	424
17.0	531	534	533	524	528	520	522	500	498	472	442
15.0	532	533	529	533	536	535	536	520	512	488	463
13.0	537	524	523	542	529	530	526	526	513	505	483
11.0	517	518	516	519	518	526	530	529	515	504	495
9.0	522	511	507	510	506	521	513	505	516	511	497
7.0	489	494	489	499	494	510	511	521	507	501	499
5.0	480	486	486	490	489	492	502	502	502	496	506
3.0	471	467	484	494	497	501	509	505	506	510	498
1.0	461	464	465	479	488	498	500	508	498	501	492
0.0	455	461	462	483	490	480	498	489	488	502	499
-1.0	428	447	458	476	488	478	494	490	487	500	496
-3.0	428	444	459	470	480	483	489	498	503	497	492
-5.0	443	453	459	472	474	489	491	497	505	497	491
-7.0	446	455	455	472	480	480	477	498	500	497	493
-9.0	440	457	464	467	477	474	487	494	506	495	489
-11.0	448	454	455	468	480	487	499	499	501	492	481
-13.0	473	464	466	476	476	492	491	497	496	479	465
-15.0	445	459	480	478	483	485	497	493	483	483	463
-17.0	479	477	479	481	492	489	489	490	473	462	437
-19.5	483	486	489	478	478	484	483	473	450	435	420
-22.5	488	484	477	470	468	468	450	439	422	404	373
-25.5	481	463	446	445	437	427	411	398	375	357	317
-29.0	423	409	385	377	368	356	342	322	292	267	239
-33.0	311	295	265	256	246	236	221	200	182	163	140
-37.5	162	154	136	131	126	124	116	107	99	91	80
-42.5	84	79	70	67	66	62	59	56	53	50	44
-47.5	39	38	34	32	32	30	29	27	25	23	20
-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)

	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	0	0	0	0	0	0	0	0	0
65.0	7	6	5	4	3	1	1	0	0	0	0
55.0	22	21	17	15	12	7	4	1	0	0	0
47.5	47	43	37	30	23	16	9	3	0	0	0
42.5	78	67	57	46	35	24	13	4	1	0	0
37.5	121	107	87	68	50	34	20	5	1	0	0
33.0	172	154	123	95	70	45	27	7	1	0	0
29.0	236	201	161	125	87	57	32	8	2	0	0
25.5	289	243	201	154	107	69	39	10	2	0	0
22.5	333	290	237	181	125	77	44	10	2	0	0
19.5	378	330	267	206	143	88	50	12	2	0	0
17.0	419	359	293	224	156	95	54	12	2	0	0
15.0	422	377	307	238	166	100	57	12	2	0	0
13.0	442	398	329	256	177	107	59	13	2	0	0
11.0	467	407	345	267	187	114	61	13	2	0	0
9.0	471	416	354	278	192	121	62	14	3	0	0
7.0	467	427	366	281	195	124	63	13	3	0	0
5.0	476	427	376	293	204	126	63	14	3	0	0
3.0	474	430	382	306	208	126	62	14	2	0	0
1.0	474	433	384	309	208	126	59	13	2	0	0
0.0	477	435	384	309	208	125	58	13	2	0	0
-1.0	477	439	381	307	207	124	56	13	2	0	0
-3.0	476	440	377	303	204	121	53	13	2	0	0
-5.0	476	432	375	294	201	116	49	12	2	0	0
-7.0	463	425	367	285	198	108	45	12	2	0	0
-9.0	455	413	355	280	190	100	41	12	2	0	0
-11.0	445	400	344	268	177	90	37	11	2	0	0
-13.0	435	394	328	252	165	78	33	11	1	0	0
-15.0	416	376	313	238	150	68	30	10	1	0	0
-17.0	409	356	290	222	129	60	28	9	1	0	0
-19.5	374	332	259	186	103	50	25	9	0	0	0
-22.5	331	281	221	143	79	41	22	7	0	0	0
-25.5	268	225	165	106	60	33	18	6	0	0	0
-29.0	198	152	110	71	46	26	14	5	0	0	0
-33.0	116	94	69	50	33	19	10	3	0	0	0
-37.5	71	56	45	32	21	12	6	0	0	0	0
-42.5	38	31	25	18	11	5	1	0	0	0	0
-47.5	16	13	9	5	2	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)

