



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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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

Catalog Number  
**16153**  
Order Number  
**11987299**  
Test Number  
**11987299.04**

Test Date

2017-10-17

Prepared By

Kevin Rodriguez, 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 aluminium housing, clear patterned lens enclosure  
**Lamp:** Six white LEDs  
**Mounting:** Pole/Arm  
**Ballast/Driver:** Integrated

**Luminaire**



**Luminaire Characteristics**

Luminous Diameter: 3.00 in.  
Luminous Height: 1.000 in.

**Summary of Results**

Total Luminaire Output:	393.2 Lumens
Luminaire Efficacy:	111 lm/w
Maximum Candela:	5213 Candela

**Test Conditions**

Test Temperature:	24.7 °C
Voltage:	12.01 VAC
Current:	0.5031 A
Power:	3.553 W
Power Factor:	0.588
Frequency:	60 Hz
Current THD:	132 %

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



## Distribution - Goniophotometer

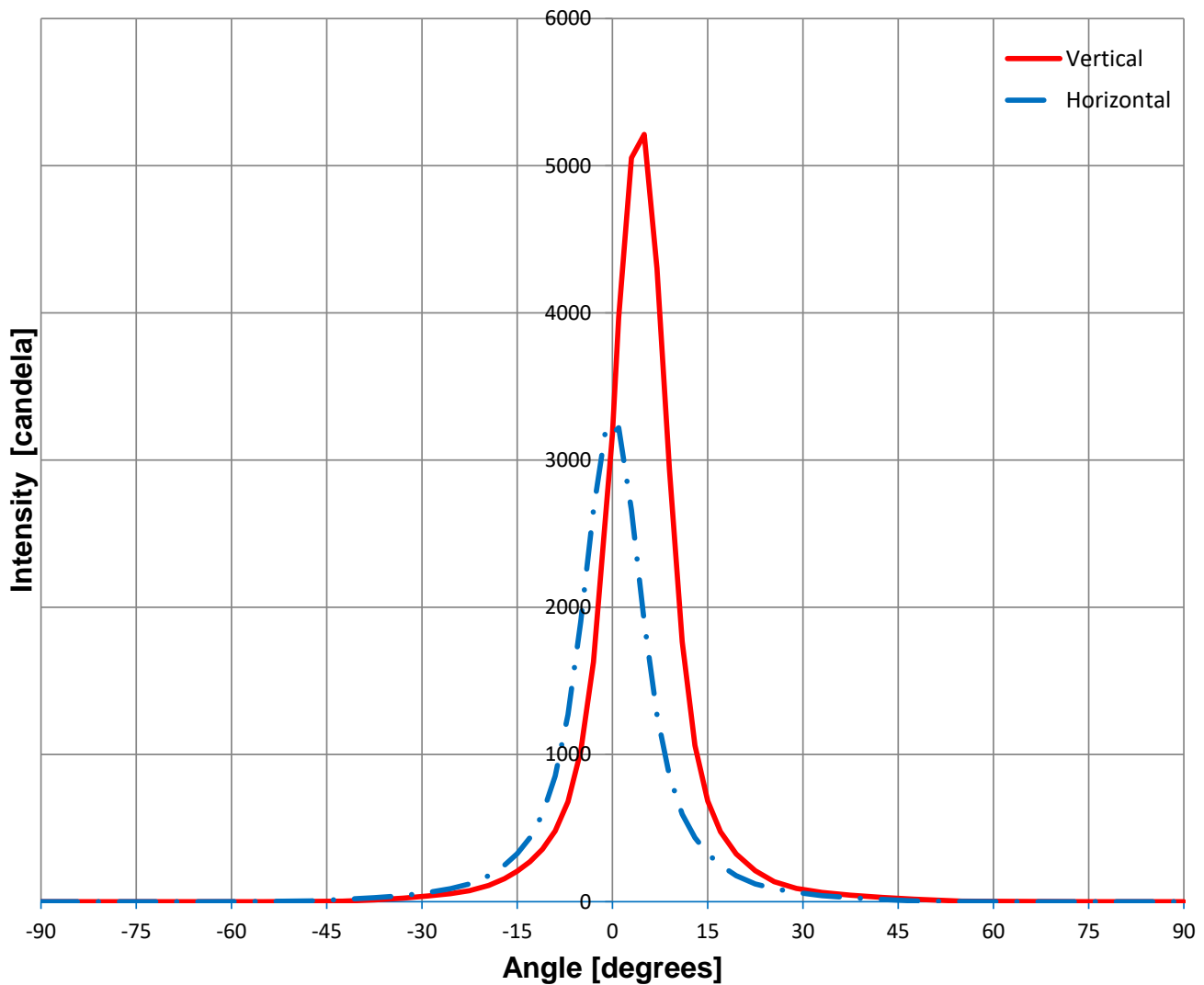
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	12.01 VAC	0.5031 A	3.553 W	0.588	60 Hz	132 %

### Summary of Results

Total Lumen Output:	393.2 Lumens	Maximum Candela:	5212.9 Candela
Luminaire Efficacy:	110.7 Lumens/Watt	Maximum Angle:	0 H 5 V
Field Lumens:	245.2 Lumens	Field Angle :	25.4 H X 25.2 V
Beam Lumens:	121.1 Lumens	Beam Angle :	11.2 H X 10.6 V
Spill Light Lumens:	148.0 Lumens	IESNA Type:	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	1	1	1	1	1	1	1	1	1	1	1
65.0	1	1	1	1	1	1	1	1	1	1	1
55.0	4	4	4	4	4	4	3	3	3	3	3
47.5	18	18	19	19	19	18	18	17	15	14	12
42.5	28	29	30	29	29	28	27	26	25	23	21
37.5	44	45	46	45	44	42	41	39	37	35	32
33.0	63	64	65	64	62	59	57	54	51	47	43
29.0	90	93	95	92	87	82	77	72	66	61	55
25.5	137	142	145	138	129	118	107	96	86	78	68
22.5	211	219	221	208	190	170	150	130	111	97	81
19.5	324	339	336	314	285	249	212	179	149	123	98
17.0	475	504	498	452	394	337	282	231	187	150	116
15.0	684	743	717	626	522	429	347	279	223	175	131
13.0	1061	1188	1101	903	710	546	424	330	257	202	147
11.0	1766	2011	1773	1339	966	697	509	380	294	228	163
9.0	2935	3224	2747	1968	1306	866	592	432	326	248	175
7.0	4303	4506	3774	2611	1635	1010	666	473	350	261	183
5.0	5213	5199	4336	2976	1793	1090	706	487	358	267	188
3.0	5054	4845	4095	2802	1723	1058	690	482	354	265	188
1.0	3972	3798	3208	2237	1433	932	634	455	338	256	182
0.0	3181	3220	2661	1902	1269	855	595	435	326	248	177
-1.0	2650	2461	2128	1575	1105	773	552	411	310	239	171
-3.0	1629	1456	1318	1067	818	618	466	358	278	217	158
-5.0	1022	913	849	730	599	485	386	308	244	193	144
-7.0	679	610	584	524	451	381	316	260	210	168	129
-9.0	481	438	424	389	350	303	256	213	176	144	115
-11.0	356	325	318	297	268	237	206	175	148	124	99
-13.0	272	252	242	228	210	188	165	142	123	104	86
-15.0	207	193	184	177	164	146	130	116	101	89	74
-17.0	156	147	138	132	124	115	105	94	84	74	62
-19.5	111	106	100	96	91	85	79	73	66	59	49
-22.5	74	72	69	68	66	63	59	54	49	44	38
-25.5	54	52	50	49	47	45	42	39	35	31	27
-29.0	39	38	36	35	33	31	30	27	24	23	21
-33.0	24	23	23	22	21	19	19	18	17	16	14
-37.5	12	12	12	12	12	11	11	10	9	8	7
-42.5	4	4	4	4	4	3	3	3	3	2	2
-47.5	1	1	1	1	1	1	1	1	1	1	1
-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)

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	0	0	0	0	0	0	0	0	0	0
65.0	1	1	1	1	1	1	0	0	0	0	0
55.0	3	2	2	2	1	1	1	0	0	0	0
47.5	9	6	4	3	2	2	1	1	0	0	0
42.5	18	15	11	6	3	2	1	1	0	0	0
37.5	28	23	20	14	6	3	2	1	0	0	0
33.0	37	32	25	20	10	4	2	1	0	0	0
29.0	48	39	32	23	15	6	3	1	0	0	0
25.5	57	48	38	29	18	9	3	1	0	0	0
22.5	67	56	44	33	20	12	3	1	0	0	0
19.5	78	63	50	36	23	14	4	2	0	0	0
17.0	88	70	54	39	25	15	4	2	0	0	0
15.0	97	75	57	41	26	15	5	2	0	0	0
13.0	105	79	60	43	27	16	5	2	0	0	0
11.0	113	84	63	43	29	16	5	2	0	0	0
9.0	119	87	65	44	29	16	6	2	0	0	0
7.0	123	90	67	43	30	16	6	2	0	0	0
5.0	125	91	67	43	30	16	6	2	0	0	0
3.0	126	91	66	42	29	16	6	2	0	0	0
1.0	123	90	64	42	28	16	5	2	0	0	0
0.0	121	89	63	41	28	16	5	2	0	0	0
-1.0	119	87	62	40	27	16	5	2	0	0	0
-3.0	112	83	58	38	27	15	5	1	0	0	0
-5.0	104	78	54	36	26	15	4	1	0	0	0
-7.0	96	72	49	34	24	14	4	1	0	0	0
-9.0	86	66	44	33	22	13	3	1	0	0	0
-11.0	77	58	40	30	20	12	3	1	0	0	0
-13.0	68	50	37	27	18	10	3	1	0	0	0
-15.0	58	44	33	25	17	8	2	1	0	0	0
-17.0	49	37	29	23	16	6	2	1	0	0	0
-19.5	39	32	26	20	12	4	2	1	0	0	0
-22.5	31	27	22	15	9	3	2	1	0	0	0
-25.5	24	21	16	12	6	2	1	1	0	0	0
-29.0	18	15	13	8	3	2	1	1	0	0	0
-33.0	12	10	7	3	2	1	1	0	0	0	0
-37.5	5	4	2	2	1	1	1	0	0	0	0
-42.5	2	1	1	1	1	0	0	0	0	0	0
-47.5	1	1	1	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)

