



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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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
16157
Order Number
11987299
Test Number
11987299.08

Test Date

2017-10-18

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: Black 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:	555.1 Lumens
Luminaire Efficacy:	82.3 lm/w
Maximum Candela:	1298 Candela

Test Conditions

Test Temperature:	25.2 °C
Voltage:	12.01 VAC
Current:	0.8861 A
Power:	6.748 W
Power Factor:	0.634
Frequency:	60 Hz
Current THD:	117 %

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



Distribution - Goniophotometer

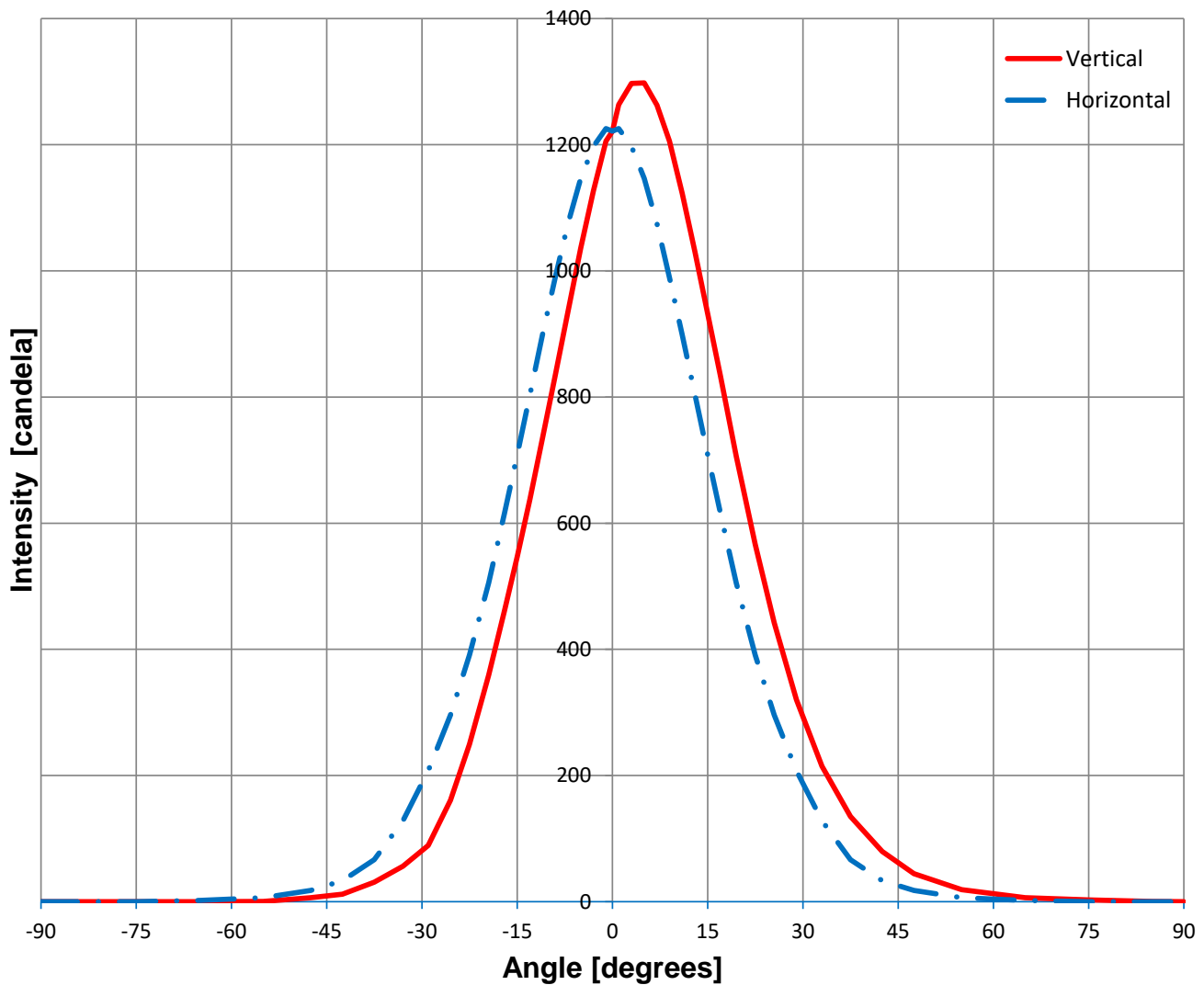
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	12.01 VAC	0.8861 A	6.748 W	0.634	60 Hz	117 %

Summary of Results

Total Lumen Output:	555.1 Lumens	Maximum Candela:	1298.0 Candela
Luminaire Efficacy:	82.3 Lumens/Watt	Maximum Angle:	0 H 5 V
Field Lumens:	485.7 Lumens	Field Angle :	67.3 H X 65.0 V
Beam Lumens:	247.3 Lumens	Beam Angle :	33.7 H X 33.5 V
Spill Light Lumens:	69.4 Lumens	IESNA Type:	4 H X 4 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	3	3	3	3	3	3	3	3	3	3	3
65.0	6	6	6	6	6	6	6	6	6	5	5
55.0	19	19	20	20	20	19	19	18	17	16	15
47.5	44	45	47	46	45	44	42	40	37	35	32
42.5	80	81	83	82	79	76	73	69	65	60	53
37.5	135	138	143	140	135	128	121	114	106	98	87
33.0	215	220	227	221	213	203	192	179	164	149	129
29.0	320	328	337	329	315	297	276	255	234	211	182
25.5	442	454	461	447	427	403	376	344	310	276	234
22.5	567	581	587	569	541	506	468	428	386	342	288
19.5	706	723	725	702	666	620	575	522	464	410	344
17.0	833	851	850	821	775	722	665	601	534	467	390
15.0	932	952	946	913	864	803	735	663	586	512	426
13.0	1030	1053	1038	1001	945	878	803	719	634	554	460
11.0	1123	1145	1123	1077	1016	944	859	768	677	589	488
9.0	1206	1216	1190	1142	1076	993	901	807	711	618	509
7.0	1263	1266	1239	1190	1117	1026	932	834	733	636	522
5.0	1298	1290	1265	1212	1132	1042	947	845	742	642	529
3.0	1297	1280	1261	1202	1127	1039	942	841	739	642	528
1.0	1263	1250	1224	1174	1098	1010	917	821	722	627	516
0.0	1222	1226	1197	1147	1075	989	899	804	709	616	506
-1.0	1206	1183	1161	1114	1046	964	877	785	692	601	495
-3.0	1127	1092	1078	1036	976	903	823	737	650	567	468
-5.0	1036	995	981	950	896	833	760	683	605	529	436
-7.0	935	894	882	855	812	754	689	621	552	485	400
-9.0	834	791	783	756	721	673	618	558	496	434	360
-11.0	734	689	682	662	629	592	546	494	438	385	319
-13.0	638	601	591	575	546	513	474	430	384	336	278
-15.0	547	517	502	488	466	438	405	369	329	287	237
-17.0	461	438	421	409	391	368	339	306	272	238	198
-19.5	360	342	326	317	303	284	260	235	210	185	154
-22.5	250	237	223	216	207	195	181	164	148	130	109
-25.5	161	153	143	139	134	127	119	110	99	88	73
-29.0	89	86	82	81	78	75	70	65	58	52	44
-33.0	56	54	51	50	47	44	41	38	34	30	26
-37.5	31	30	28	27	25	24	22	21	19	18	17
42.5	12	12	11	11	11	11	11	11	10	10	9
-47.5	6	6	6	6	6	5	5	5	5	4	4
-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



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	2	2	2	2	1	1	1	0	0	0	0
65.0	5	4	4	4	3	3	2	1	0	0	0
55.0	13	11	9	8	6	4	3	2	0	0	0
47.5	28	24	20	15	11	7	5	3	1	0	0
42.5	46	39	31	23	16	10	6	3	1	0	0
37.5	74	62	48	35	23	14	8	4	1	0	0
33.0	107	89	69	48	31	18	10	4	2	0	0
29.0	149	119	91	64	39	22	12	5	2	0	0
25.5	190	152	112	78	47	25	13	6	2	0	0
22.5	229	181	133	90	55	28	15	6	2	0	0
19.5	272	211	155	102	61	31	16	6	2	0	0
17.0	307	236	171	112	66	33	16	7	2	0	0
15.0	334	255	183	119	70	35	17	7	2	0	0
13.0	357	272	194	127	73	36	18	7	2	0	0
11.0	377	286	204	133	75	36	18	7	2	0	0
9.0	392	298	211	137	76	36	18	7	2	0	0
7.0	404	306	217	139	75	36	18	7	2	0	0
5.0	409	309	219	139	74	35	18	7	2	0	0
3.0	407	307	217	136	72	35	18	7	2	0	0
1.0	398	301	211	131	68	34	18	6	2	0	0
0.0	391	296	208	128	66	33	18	6	2	0	0
-1.0	383	290	203	125	65	33	18	6	2	0	0
-3.0	363	275	191	116	60	32	17	6	2	0	0
-5.0	339	257	178	106	56	30	17	5	2	0	0
-7.0	312	236	162	96	51	29	16	5	1	0	0
-9.0	281	211	144	84	47	27	15	5	1	0	0
-11.0	248	185	126	73	43	25	14	4	1	0	0
-13.0	214	159	106	64	39	23	12	4	1	0	0
-15.0	182	135	89	57	36	21	11	4	1	0	0
-17.0	152	112	76	50	32	19	9	4	1	0	0
-19.5	119	88	62	42	27	15	8	3	1	0	0
-22.5	85	64	46	32	21	13	7	3	0	0	0
-25.5	58	44	33	23	16	10	6	3	0	0	0
-29.0	35	28	22	17	13	8	5	2	0	0	0
-33.0	22	19	16	13	9	6	3	1	0	0	0
-37.5	15	13	11	8	6	3	2	1	0	0	0
42.5	8	7	5	4	3	2	1	0	0	0	0
-47.5	3	3	2	2	1	1	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)

