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Allentown, PA 18106
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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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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

CTR170465-17 (high)

Order Number

12055963

Test Number

12055963.15

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:	875.6 Lumens
Luminaire Efficacy:	74.0 lm/w
Maximum Candela:	737 Candela

Test Conditions

Test Temperature:	24.8 °C
Voltage:	12.01 VAC
Current:	1.474 A
Power:	11.84 W
Power Factor:	0.669
Frequency:	60 Hz
Current THD:	106 %

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



Distribution - Goniophotometer

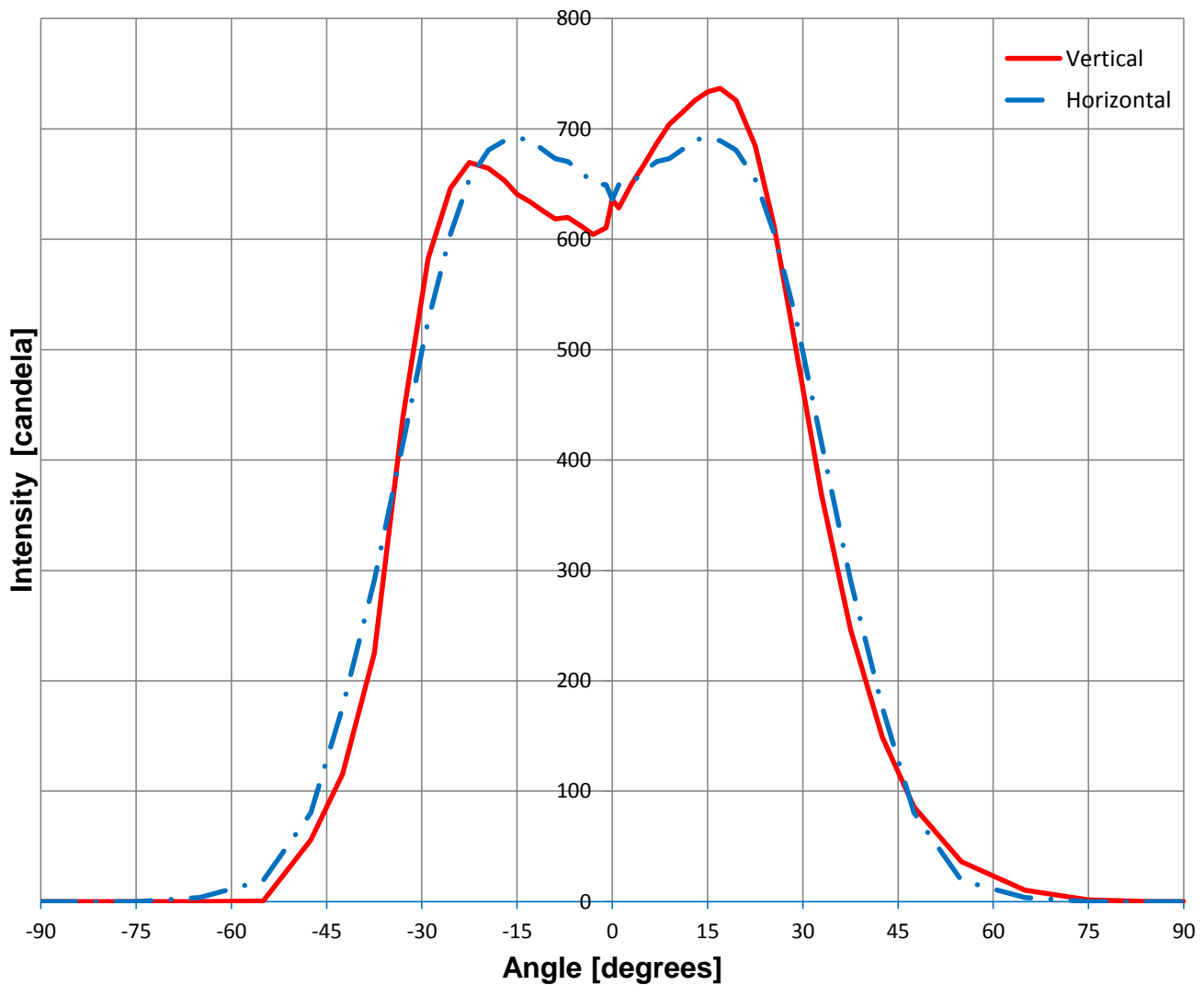
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	12.01 VAC	1.474 A	11.84 W	0.669	60 Hz	106 %

Summary of Results

Total Lumen Output:	875.6 Lumens	Maximum Candela:	736.7 Candela
Luminaire Efficacy:	74.0 Lumens/Watt	Maximum Angle:	0 H 17 V
Field Lumens:	837.5 Lumens	Field Angle :	95.6 H X 95.3 V
Beam Lumens:	656.7 Lumens	Beam Angle :	61.5 H X 67.5 V
Spill Light Lumens:	38.1 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	2	2	2	2	2	2	2	2	2	2	2
65.0	10	11	12	13	13	13	12	12	12	11	11
55.0	36	38	41	43	42	42	41	39	38	37	34
47.5	86	90	98	100	98	96	93	90	86	82	76
42.5	149	157	171	171	168	164	158	151	143	135	124
37.5	247	259	282	279	272	263	253	241	228	215	196
33.0	368	385	411	405	397	384	368	351	331	311	283
29.0	498	517	540	534	522	506	487	465	439	411	374
25.5	611	625	639	632	620	604	584	560	533	502	458
22.5	685	692	697	691	681	667	650	628	602	571	525
19.5	726	727	726	723	717	708	696	679	655	626	584
17.0	737	734	733	734	733	728	718	705	686	661	621
15.0	733	730	731	735	736	733	728	718	703	681	645
13.0	726	723	727	731	732	732	730	724	713	694	663
11.0	715	713	715	722	724	727	727	724	715	700	675
9.0	704	698	700	709	715	720	720	718	711	701	680
7.0	687	682	688	694	702	711	713	710	706	699	683
5.0	668	666	677	687	692	697	703	705	702	697	683
3.0	650	648	664	675	684	688	694	699	697	693	683
1.0	628	645	655	666	676	678	686	693	693	690	681
0.0	636	649	651	662	670	673	681	690	691	689	681
-1.0	610	635	643	656	667	671	679	689	691	689	680
-3.0	604	621	636	651	662	669	680	690	692	689	679
-5.0	612	622	637	650	661	671	683	691	693	690	677
-7.0	620	627	639	651	657	669	681	688	690	688	673
-9.0	618	629	636	648	659	671	681	688	689	684	667
-11.0	626	633	640	651	663	672	680	688	687	679	659
-13.0	634	642	649	659	665	673	680	685	683	671	646
-15.0	641	651	658	665	671	675	680	680	674	658	629
-17.0	653	660	665	671	675	677	676	671	659	640	607
-19.5	664	666	668	670	670	668	660	650	632	608	571
-22.5	670	661	652	649	644	635	623	606	583	555	513
-25.5	646	630	609	603	594	582	564	543	517	485	437
-29.0	583	559	523	514	501	483	461	435	404	370	324
-33.0	439	408	352	345	332	315	296	274	250	226	195
-37.5	225	212	184	179	173	167	157	147	136	125	111
-42.5	116	109	96	92	90	86	82	77	72	67	60
-47.5	56	53	46	43	42	40	38	36	33	31	27
-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	2	1	1	1	0	0	0	0	0	0	0
65.0	10	9	8	7	5	3	1	0	0	0	0
55.0	32	29	25	21	16	11	6	2	0	0	0
47.5	68	61	52	43	32	23	13	4	1	0	0
42.5	111	97	82	65	49	34	20	6	1	0	0
37.5	173	150	125	98	71	48	28	8	2	0	0
33.0	248	214	176	135	97	64	38	10	2	0	0
29.0	328	282	231	176	124	80	47	12	3	0	0
25.5	403	347	283	216	151	96	56	14	3	0	0
22.5	466	403	329	251	175	111	63	15	3	0	0
19.5	523	456	375	286	200	125	70	17	3	0	0
17.0	564	496	410	314	220	136	76	18	4	0	0
15.0	590	523	436	335	234	145	79	18	4	0	0
13.0	612	547	460	354	248	153	83	19	4	0	0
11.0	628	565	479	371	259	160	86	19	4	0	0
9.0	639	580	494	385	270	167	87	20	4	0	0
7.0	646	592	507	397	279	171	88	20	4	0	0
5.0	651	598	517	406	285	175	88	20	4	0	0
3.0	654	604	523	413	289	177	86	20	4	0	0
1.0	655	605	526	415	291	177	82	19	4	0	0
0.0	654	605	526	415	291	176	81	19	4	0	0
-1.0	653	604	526	414	291	174	79	19	4	0	0
-3.0	650	601	522	410	289	170	75	19	4	0	0
-5.0	646	595	515	405	283	162	70	18	3	0	0
-7.0	639	587	505	396	275	152	64	18	3	0	0
-9.0	629	575	492	383	262	141	58	17	3	0	0
-11.0	617	559	475	367	247	128	52	16	3	0	0
-13.0	601	539	455	348	229	112	48	15	2	0	0
-15.0	579	516	431	324	206	98	43	15	2	0	0
-17.0	553	489	404	296	181	84	39	14	2	0	0
-19.5	514	449	360	256	147	69	35	12	1	0	0
-22.5	455	385	297	199	112	57	30	11	0	0	0
-25.5	374	307	226	146	85	46	25	9	0	0	0
-29.0	266	209	150	101	63	36	20	7	0	0	0
-33.0	159	128	97	69	45	27	15	4	0	0	0
-37.5	94	78	61	44	29	17	9	1	0	0	0
-42.5	51	43	33	24	16	8	2	0	0	0	0
-47.5	22	18	13	8	3	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)

