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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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

Catalog Number
16154
Order Number
11987299
Test Number
11987299.05

Test Date

2017-10-17

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 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:	326.9 Lumens
Luminaire Efficacy:	91.2 lm/w
Maximum Candela:	738 Candela

Test Conditions

Test Temperature:	25.1 °C
Voltage:	12.00 VAC
Current:	0.4981 A
Power:	3.584 W
Power Factor:	0.599
Frequency:	60 Hz
Current THD:	129 %

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



Distribution - Goniophotometer

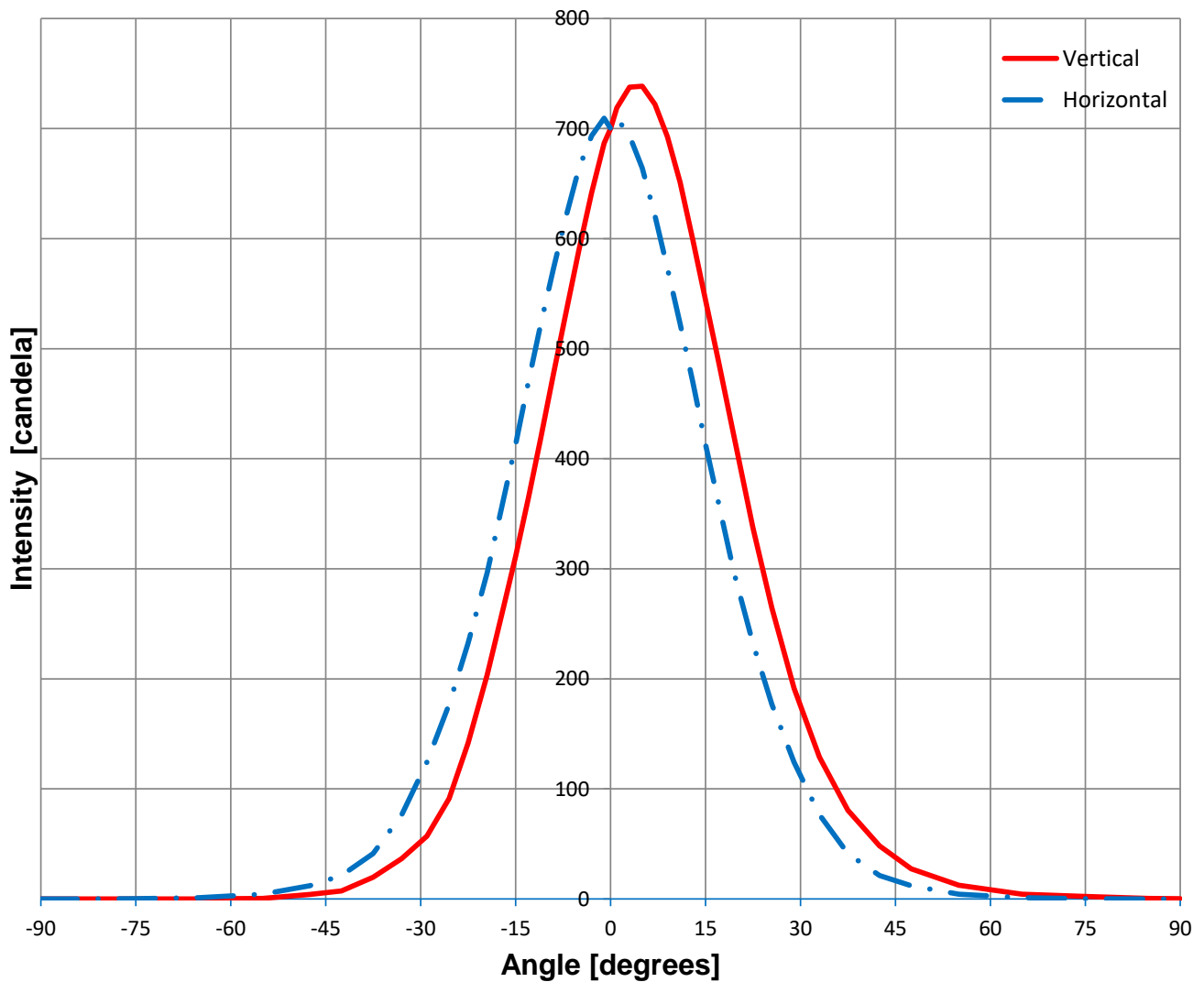
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	12.00 VAC	0.4981 A	3.584 W	0.599	60 Hz	129 %

Summary of Results

Total Lumen Output:	326.9 Lumens	Maximum Candela:	738.5 Candela
Luminaire Efficacy:	91.2 Lumens/Watt	Maximum Angle:	0 H 5 V
Field Lumens:	285.6 Lumens	Field Angle :	68.1 H X 65.8 V
Beam Lumens:	147.0 Lumens	Beam Angle :	34.6 H X 34.2 V
Spill Light Lumens:	41.3 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	1	1	1	1	1	1	1	1	1	0	0
75.0	2	2	2	2	2	2	2	2	2	2	2
65.0	4	4	4	5	4	4	4	4	4	4	4
55.0	12	13	13	13	13	12	12	12	11	11	10
47.5	27	28	29	29	28	27	26	24	23	22	20
42.5	48	49	51	50	48	47	45	42	39	36	32
37.5	81	82	85	84	81	78	74	69	64	59	53
33.0	129	132	135	132	127	122	115	106	97	88	77
29.0	191	196	201	196	188	177	164	151	137	124	108
25.5	265	272	275	266	254	241	224	204	183	162	139
22.5	337	346	349	338	321	301	278	253	228	203	171
19.5	421	431	430	415	394	369	339	307	275	244	206
17.0	489	502	500	482	457	426	391	355	316	278	233
15.0	544	559	554	534	506	471	431	390	348	305	254
13.0	599	615	604	582	550	511	468	424	376	328	272
11.0	651	666	650	624	589	546	501	451	399	348	287
9.0	693	702	685	659	621	575	525	473	416	364	299
7.0	722	727	709	684	645	596	542	485	428	374	308
5.0	738	737	721	697	655	605	549	491	433	378	311
3.0	738	730	722	694	650	601	547	490	432	377	309
1.0	719	715	705	679	637	587	534	479	421	368	302
0.0	700	709	694	664	621	573	522	470	413	361	297
-1.0	687	678	668	643	604	559	510	458	404	353	291
-3.0	642	620	615	594	560	521	477	429	380	332	275
-5.0	590	566	558	542	514	479	438	395	351	307	256
-7.0	534	510	502	486	464	434	398	360	320	281	234
-9.0	477	454	445	431	410	385	357	323	288	253	211
-11.0	419	397	391	378	361	339	312	284	254	224	188
-13.0	364	346	338	326	311	292	271	247	222	195	163
-15.0	311	296	287	277	264	250	232	211	189	166	137
-17.0	263	250	240	232	222	209	193	176	157	138	115
-19.5	204	194	185	180	171	160	148	135	122	108	90
-22.5	141	135	127	123	117	110	103	95	86	77	65
-25.5	91	87	82	80	78	74	70	65	59	52	43
-29.0	57	55	52	51	50	47	44	40	36	32	27
-33.0	37	36	33	32	30	28	26	24	21	19	17
-37.5	20	19	17	16	16	15	14	14	13	12	11
-42.5	7	7	7	7	7	7	7	6	6	6	5
-47.5	4	4	4	4	4	3	3	3	3	3	2
-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	2	2	1	1	1	1	0	0	0	0
65.0	3	3	3	3	2	2	2	1	0	0	0
55.0	9	8	7	5	4	3	2	2	0	0	0
47.5	18	16	13	10	8	5	3	2	1	0	0
42.5	28	24	20	15	11	7	4	2	1	0	0
37.5	45	37	29	22	15	10	6	3	1	0	0
33.0	65	54	42	30	20	12	7	3	1	0	0
29.0	88	71	55	39	25	15	8	3	1	0	0
25.5	113	90	68	48	30	16	9	4	1	0	0
22.5	136	107	79	55	34	18	10	4	1	0	0
19.5	162	125	92	62	38	20	11	4	1	0	0
17.0	183	140	102	68	41	21	11	5	1	0	0
15.0	199	151	109	73	43	22	11	5	1	0	0
13.0	213	162	117	76	45	23	12	5	1	0	0
11.0	224	171	122	79	46	23	12	5	1	0	0
9.0	234	178	126	81	47	23	12	5	1	0	0
7.0	240	182	129	82	47	23	12	5	1	0	0
5.0	243	184	131	82	46	23	12	5	1	0	0
3.0	241	183	130	81	45	22	12	5	1	0	0
1.0	236	179	126	78	42	22	12	4	1	0	0
0.0	232	177	124	76	41	21	12	4	1	0	0
-1.0	228	173	121	74	40	21	12	4	1	0	0
-3.0	216	164	114	69	37	20	12	4	1	0	0
-5.0	201	152	105	63	34	19	11	4	1	0	0
-7.0	184	139	95	57	32	18	11	3	1	0	0
-9.0	166	124	84	50	30	17	10	3	1	0	0
-11.0	146	110	74	45	27	16	9	3	1	0	0
-13.0	127	95	64	40	25	15	8	3	1	0	0
-15.0	107	80	54	35	22	13	7	3	1	0	0
-17.0	89	67	47	31	20	12	6	2	1	0	0
-19.5	70	53	37	26	17	10	6	2	1	0	0
-22.5	51	38	28	20	13	8	5	2	0	0	0
-25.5	34	27	20	15	11	7	4	2	0	0	0
-29.0	22	18	15	11	8	5	3	1	0	0	0
-33.0	15	13	11	8	6	4	2	1	0	0	0
-37.5	10	9	7	5	4	2	1	0	0	0	0
-42.5	5	4	3	2	2	1	1	0	0	0	0
-47.5	2	2	1	1	1	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)

