



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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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
CTR170465-21 (medium)
Order Number
12055963
Test Number
12055963.17

Test Date

2017-12-05

Prepared By

Josh Mitchell, Technician

Approved By

Justin Benner, Project Handler

The results contained in this report pertain only to the tested sample.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.
This report must not be used by the client to claim product certification, approval, or endorsement by
NVLAP, NIST, or any agency of the Federal Government.



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:	628.9 Lumens
Luminaire Efficacy:	78.2 lm/w
Maximum Candela:	531 Candela

Test Conditions

Test Temperature:	24.7 °C
Voltage:	11.90 VAC
Current:	0.9570 A
Power:	8.046 W
Power Factor:	0.708
Frequency:	60 Hz
Current THD:	89.3 %

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



Distribution - Goniophotometer

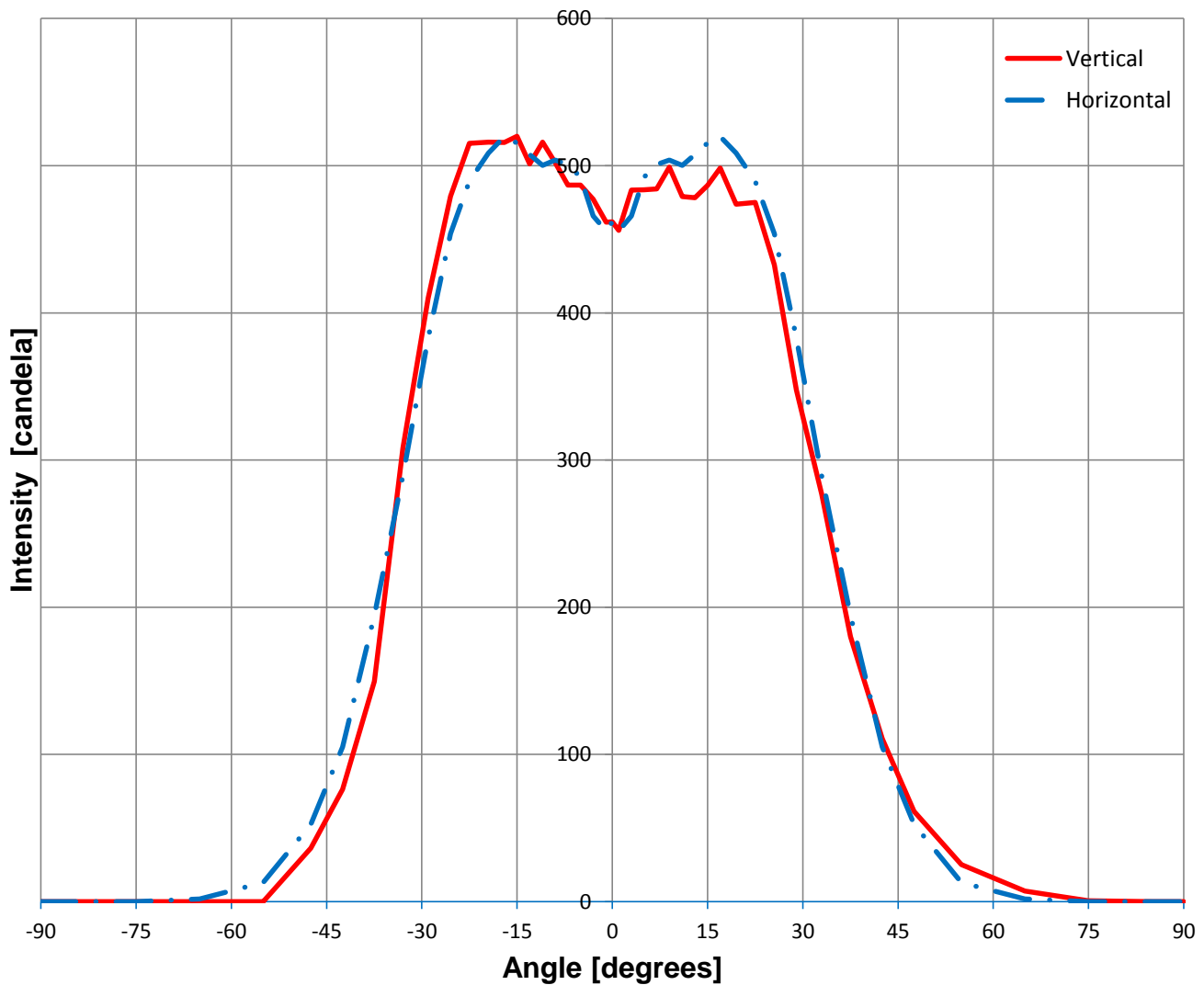
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	11.90 VAC	0.9570 A	8.046 W	0.708	60 Hz	89.3 %

Summary of Results

Total Lumen Output:	628.9 Lumens	Maximum Candela:	531.1 Candela
Luminaire Efficacy:	78.2 Lumens/Watt	Maximum Angle:	-9 H -13 V
Field Lumens:	600.6 Lumens	Field Angle :	90.3 H X 93.5 V
Beam Lumens:	478.2 Lumens	Beam Angle :	63.5 H X 65.3 V
Spill Light Lumens:	28.3 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	7	8	8	8	8	8	8	8	7	7
55.0	25	27	29	30	30	29	28	27	26	25	24
47.5	61	65	72	72	70	69	67	64	61	57	53
42.5	111	116	127	126	124	119	114	108	103	97	87
37.5	180	190	209	204	194	190	186	175	166	157	141
33.0	277	283	295	298	292	282	273	255	242	221	206
29.0	348	364	389	387	375	367	358	340	316	297	271
25.5	433	440	449	450	440	432	422	405	386	363	333
22.5	475	468	467	466	463	459	451	443	423	408	385
19.5	474	481	489	492	492	491	497	487	473	459	423
17.0	498	488	486	490	503	500	501	505	492	483	453
15.0	487	487	479	488	502	506	509	519	513	498	472
13.0	478	487	484	489	495	509	508	518	517	505	493
11.0	479	476	482	483	506	509	510	518	522	504	509
9.0	499	486	475	485	494	513	523	517	525	510	501
7.0	484	485	475	489	511	511	503	515	527	522	507
5.0	484	465	481	501	497	501	507	519	526	524	520
3.0	483	467	487	488	503	507	503	514	528	523	517
1.0	456	468	469	484	494	504	501	520	517	521	512
0.0	462	456	466	492	501	504	500	508	515	520	509
-1.0	462	471	472	481	500	501	513	513	517	522	512
-3.0	477	475	481	490	508	509	512	516	521	527	505
-5.0	487	484	483	507	505	509	510	519	522	508	508
-7.0	487	499	500	498	508	512	507	529	519	522	506
-9.0	502	501	493	504	514	523	519	523	525	529	504
-11.0	516	512	504	516	522	530	526	523	523	512	503
-13.0	501	527	513	508	517	531	519	528	507	504	486
-15.0	520	507	522	523	519	524	524	522	514	493	472
-17.0	516	521	514	521	528	513	518	508	496	482	443
-19.5	516	510	509	508	512	515	502	486	470	455	422
-22.5	515	509	497	492	481	475	458	447	423	402	370
-25.5	479	468	453	448	431	425	409	396	380	349	305
-29.0	410	394	371	367	357	347	322	305	280	251	222
-33.0	308	284	242	240	231	219	207	191	173	155	134
-37.5	150	142	126	123	118	113	105	98	90	84	74
-42.5	76	72	64	62	60	57	54	51	48	44	37
-47.5	36	34	30	28	26	25	24	22	20	17	14
-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	6	5	4	4	3	1	1	0	0	0	0
55.0	22	19	17	12	9	6	4	1	0	0	0
47.5	47	42	36	29	20	13	8	3	0	0	0
42.5	80	69	57	46	31	20	12	4	0	0	0
37.5	121	106	88	69	47	28	17	6	1	0	0
33.0	178	152	121	94	66	38	22	7	1	0	0
29.0	235	204	161	122	85	49	28	9	1	0	0
25.5	294	249	201	153	101	59	33	10	1	0	0
22.5	347	295	232	174	120	68	37	12	1	0	0
19.5	383	332	271	201	137	78	40	13	1	0	0
17.0	411	365	293	223	151	86	44	13	2	0	0
15.0	431	387	313	238	159	92	46	14	2	0	0
13.0	454	406	337	251	169	95	49	14	2	0	0
11.0	467	422	350	266	178	98	51	14	2	0	0
9.0	476	435	355	276	186	101	52	15	2	0	0
7.0	483	450	370	285	190	104	53	14	2	0	0
5.0	491	450	378	290	194	107	54	14	2	0	0
3.0	495	451	386	289	197	108	54	14	2	0	0
1.0	493	453	385	290	196	106	53	13	2	0	0
0.0	489	454	383	289	194	105	53	13	2	0	0
-1.0	490	450	379	291	193	104	52	13	2	0	0
-3.0	487	442	372	293	190	102	51	13	2	0	0
-5.0	482	442	376	287	184	100	49	12	1	0	0
-7.0	473	437	367	278	177	97	46	12	1	0	0
-9.0	473	431	359	267	165	92	41	11	1	0	0
-11.0	459	416	342	252	151	85	37	11	1	0	0
-13.0	444	396	325	238	141	75	34	10	1	0	0
-15.0	426	375	307	210	132	68	30	9	1	0	0
-17.0	407	358	275	188	119	60	27	8	1	0	0
-19.5	376	315	240	165	99	50	24	7	1	0	0
-22.5	317	260	193	137	77	39	19	5	0	0	0
-25.5	251	207	151	103	59	32	16	4	0	0	0
-29.0	182	145	104	70	43	24	12	3	0	0	0
-33.0	111	88	67	46	30	17	7	2	0	0	0
-37.5	63	51	40	29	17	8	4	1	0	0	0
-42.5	33	26	19	12	7	4	2	0	0	0	0
-47.5	11	9	6	5	3	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)

