



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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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

Catalog Number
16016AZT30 - mid
Order Number
11906661
Test Number
11906661.11

Test Date

2017-08-17

Prepared By

Dane Hernandez-Adams, Technician

Approved By

Alexa Lambert, 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, semi-specular internal reflector, clear glass lens enclosure
Lamp: One white LED
Mounting: Pole/Arm
Ballast/Driver: Integrated

Luminaire



Luminaire Characteristics

Luminous Diameter: 1.75 in.
Luminous Height: 1.000 in.

Summary of Results

Total Luminaire Output:	227.2 Lumens
Luminaire Efficacy:	57.5 lm/w
Maximum Candela:	789 Candela

Test Conditions

Test Temperature:	24.9 °C
Voltage:	11.95 VAC
Current:	0.5216 A
Power:	3.949 W
Power Factor:	0.634
Frequency:	60 Hz
Current THD:	106 %

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



Distribution - Goniophotometer

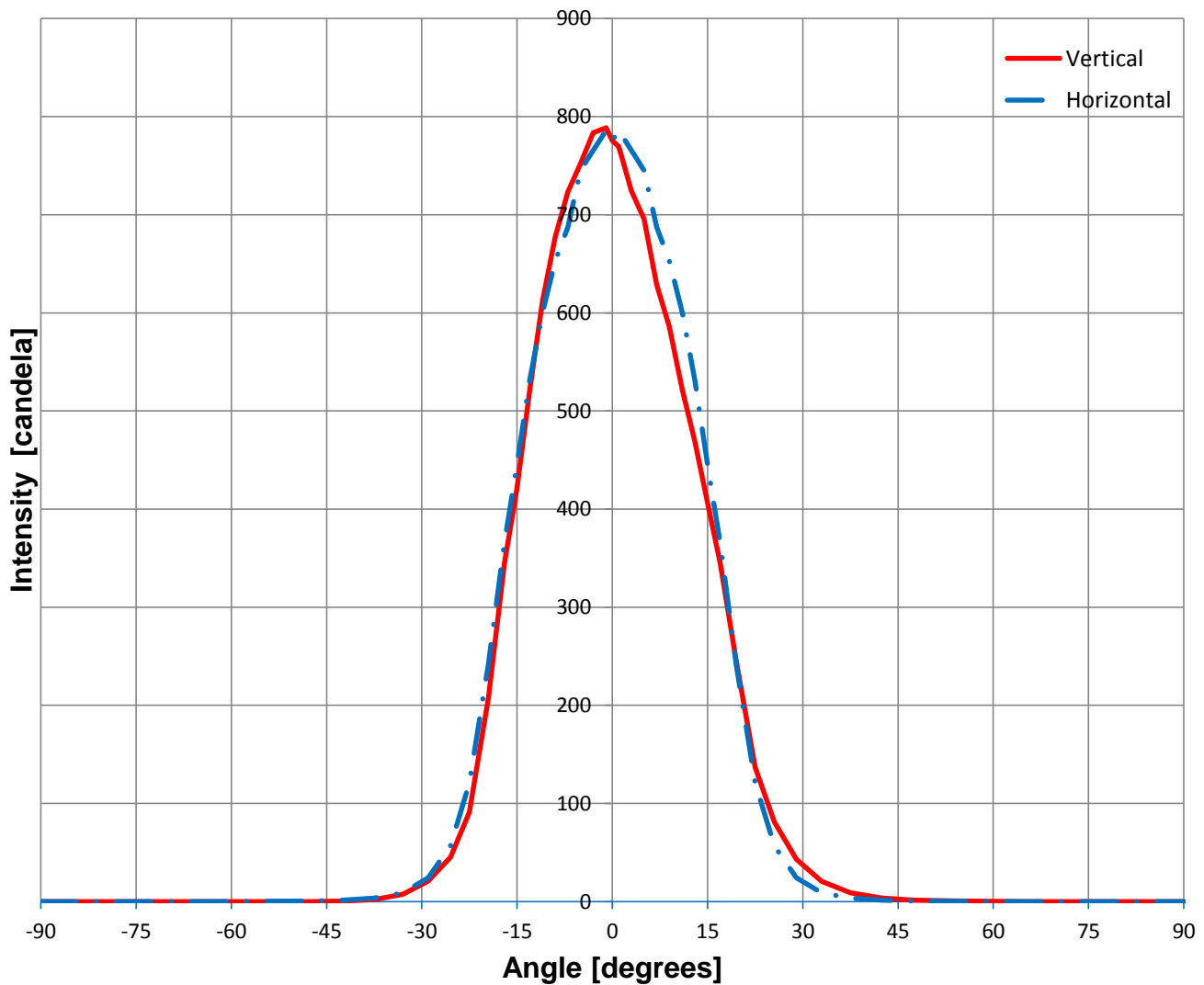
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	11.95 VAC	0.5216 A	3.949 W	0.634	60 Hz	106 %

Summary of Results

Total Lumen Output:	227.2 Lumens	Maximum Candela:	788.6 Candela
Luminaire Efficacy:	57.5 Lumens/Watt	Maximum Angle:	0 H -1 V
Field Lumens:	208.3 Lumens	Field Angle :	48.8 H X 49.0 V
Beam Lumens:	144.5 Lumens	Beam Angle :	32.8 H X 31.1 V
Spill Light Lumens:	18.9 Lumens	IESNA Type:	4 H X 4 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	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0
55.0	1	1	1	1	1	1	0	0	0	0	0
47.5	2	2	2	2	2	1	1	1	1	1	1
42.5	4	4	4	3	3	3	3	3	2	2	2
37.5	9	9	9	9	8	7	6	6	5	4	4
33.0	21	21	21	20	18	16	14	13	11	9	7
29.0	43	44	44	41	38	34	30	26	21	17	13
25.5	81	82	81	77	71	63	55	47	39	31	22
22.5	137	136	134	126	116	103	89	77	63	49	34
19.5	246	249	244	229	203	179	147	122	96	75	52
17.0	345	344	344	329	303	270	228	183	140	106	72
15.0	406	402	399	394	372	345	302	246	191	137	92
13.0	469	459	456	456	431	399	369	318	243	179	113
11.0	522	517	509	513	486	461	424	367	305	227	139
9.0	586	577	577	568	544	515	464	419	348	273	170
7.0	629	636	628	619	602	555	508	456	395	311	198
5.0	696	691	689	671	636	598	549	488	431	343	224
3.0	724	731	730	701	686	638	584	522	439	356	238
1.0	769	768	752	740	708	657	607	538	457	369	244
0.0	775	786	766	745	687	653	600	531	445	365	242
-1.0	789	782	764	749	716	662	610	541	459	367	244
-3.0	784	782	776	752	700	650	600	525	440	353	231
-5.0	752	768	751	738	697	649	564	497	417	327	207
-7.0	723	728	722	691	663	606	539	460	375	291	178
-9.0	677	685	669	634	596	550	489	416	338	244	143
-11.0	613	611	599	558	535	489	427	358	277	195	113
-13.0	520	528	517	482	450	413	351	284	212	144	86
-15.0	421	431	425	408	369	324	268	206	147	103	64
-17.0	344	337	331	305	271	228	183	139	101	72	48
-19.5	208	209	199	182	157	127	102	80	62	46	31
-22.5	91	91	88	81	73	63	52	44	35	26	18
-25.5	45	45	44	40	37	32	27	23	18	14	10
-29.0	21	20	19	18	17	15	13	10	9	7	5
-33.0	8	7	7	6	6	5	5	4	3	3	2
-37.5	2	2	2	2	2	2	2	1	1	1	1
-42.5	0	0	0	0	0	0	0	0	0	0	0
-47.5	0	0	0	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

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	0	0	0	0	0	0	0	0	0	0	0
65.0	0	0	0	0	0	0	0	0	0	0	0
55.0	0	0	0	0	0	0	0	0	0	0	0
47.5	1	1	1	0	0	0	0	0	0	0	0
42.5	1	1	1	1	0	0	0	0	0	0	0
37.5	3	2	2	1	1	0	0	0	0	0	0
33.0	5	4	2	2	1	1	0	0	0	0	0
29.0	9	6	4	2	1	1	0	0	0	0	0
25.5	14	9	5	3	2	1	0	0	0	0	0
22.5	22	14	7	4	2	1	0	0	0	0	0
19.5	33	19	10	5	2	1	1	0	0	0	0
17.0	44	25	12	5	2	1	1	0	0	0	0
15.0	54	30	14	6	3	1	1	0	0	0	0
13.0	65	36	16	7	3	1	1	0	0	0	0
11.0	76	42	19	7	3	1	1	0	0	0	0
9.0	87	47	21	8	3	1	1	0	0	0	0
7.0	100	52	23	9	3	1	1	0	0	0	0
5.0	110	55	24	9	3	1	1	0	0	0	0
3.0	119	58	25	9	4	1	1	0	0	0	0
1.0	122	58	25	9	4	1	1	0	0	0	0
0.0	121	57	24	9	3	1	1	0	0	0	0
-1.0	118	56	24	9	3	1	1	0	0	0	0
-3.0	110	53	23	8	3	1	1	0	0	0	0
-5.0	99	49	21	8	3	1	1	0	0	0	0
-7.0	86	44	19	7	3	1	1	0	0	0	0
-9.0	72	37	16	6	3	1	0	0	0	0	0
-11.0	58	31	14	6	2	1	0	0	0	0	0
-13.0	47	25	11	5	2	1	0	0	0	0	0
-15.0	36	19	9	4	2	1	0	0	0	0	0
-17.0	27	15	7	4	2	1	0	0	0	0	0
-19.5	18	10	6	3	1	1	0	0	0	0	0
-22.5	11	7	4	2	1	0	0	0	0	0	0
-25.5	7	4	3	1	1	0	0	0	0	0	0
-29.0	3	2	1	1	0	0	0	0	0	0	0
-33.0	2	1	1	0	0	0	0	0	0	0	0
-37.5	1	0	0	0	0	0	0	0	0	0	0
-42.5	0	0	0	0	0	0	0	0	0	0	0
-47.5	0	0	0	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)

