



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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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 - low
Order Number
11906661
Test Number
11906661.10

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:	126.4 Lumens
Luminaire Efficacy:	58.2 lm/w
Maximum Candela:	452 Candela

Test Conditions

Test Temperature:	25.5 °C
Voltage:	11.98 VAC
Current:	0.3131 A
Power:	2.172 W
Power Factor:	0.579
Frequency:	60 Hz
Current THD:	115 %

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



Distribution - Goniophotometer

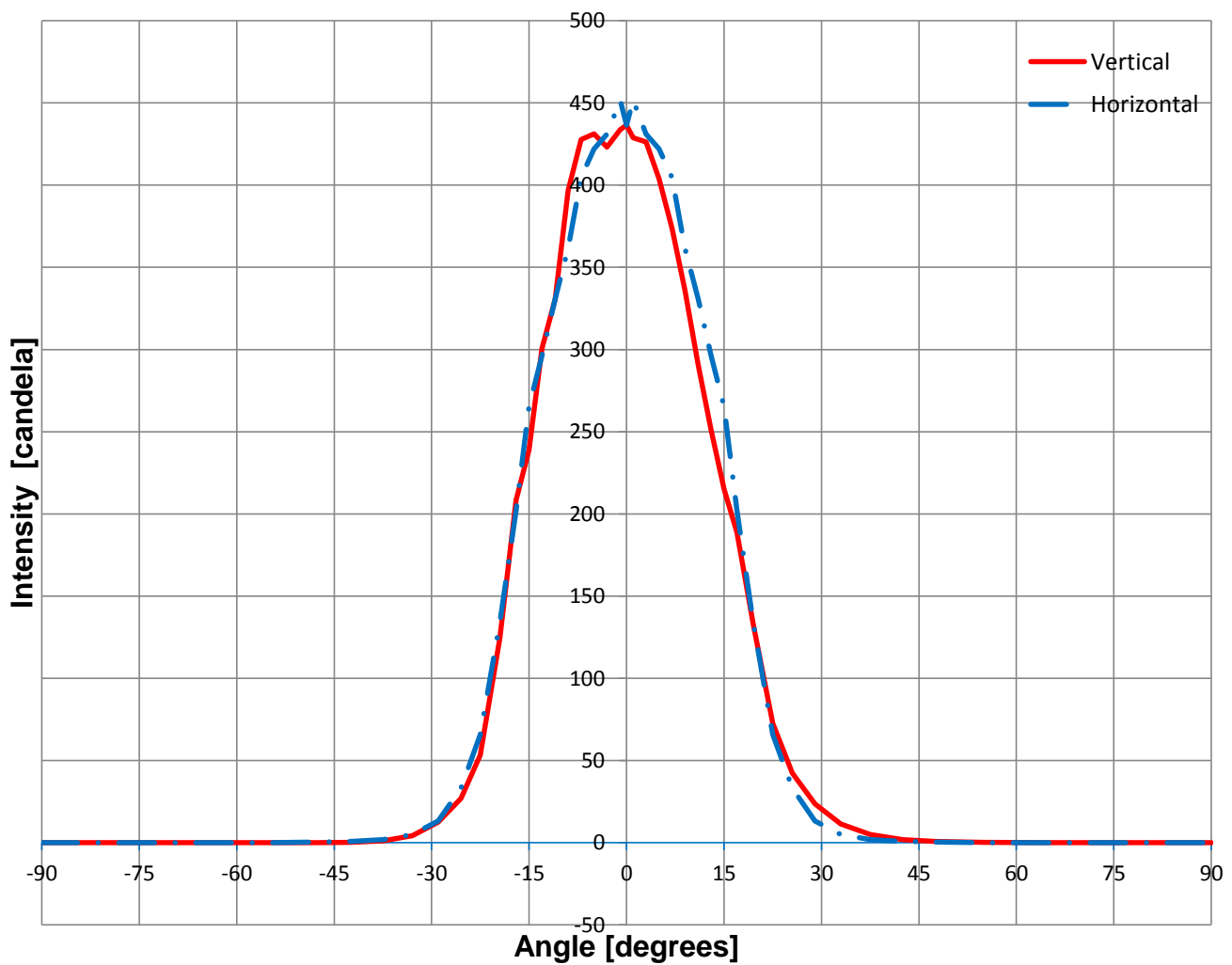
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	11.98 VAC	0.3131 A	2.172 W	0.579	60 Hz	115 %

Summary of Results

Total Lumen Output:	126.4 Lumens	Maximum Candela:	451.7 Candela
Luminaire Efficacy:	58.2 Lumens/Watt	Maximum Angle:	-1 H 0 V
Field Lumens:	115.3 Lumens	Field Angle :	48.8 H X 48.7 V
Beam Lumens:	77.3 Lumens	Beam Angle :	32.5 H X 30.3 V
Spill Light Lumens:	11.1 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	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	1	1	1	1	1	1	1	0
42.5	2	2	2	2	2	2	1	1	1	1	1
37.5	5	5	5	5	4	4	4	3	3	2	2
33.0	11	11	11	11	10	9	8	7	6	5	4
29.0	24	24	24	23	22	19	17	14	12	10	7
25.5	42	44	44	41	39	35	32	26	21	17	12
22.5	72	74	74	69	65	58	50	41	35	26	19
19.5	133	134	136	128	112	98	81	67	53	42	30
17.0	189	190	199	187	168	150	126	101	76	59	40
15.0	215	217	231	218	209	191	168	138	103	77	50
13.0	251	259	257	248	237	225	209	169	139	102	65
11.0	291	289	287	286	266	256	226	208	175	127	78
9.0	336	319	321	305	298	277	262	239	196	149	94
7.0	374	349	348	346	322	313	287	257	224	176	112
5.0	404	385	382	374	363	334	303	264	233	190	122
3.0	426	420	391	391	371	353	328	292	255	202	131
1.0	429	425	425	419	385	369	350	302	254	205	138
0.0	436	452	431	422	405	362	331	296	265	202	134
-1.0	434	435	427	420	393	362	335	302	260	201	133
-3.0	423	443	428	409	405	377	324	289	246	199	129
-5.0	431	426	435	396	392	349	320	280	227	179	114
-7.0	428	412	397	390	367	326	300	261	215	165	97
-9.0	397	373	373	354	338	308	270	224	182	139	81
-11.0	331	337	330	314	292	273	238	201	154	108	62
-13.0	301	297	288	280	249	224	198	157	113	78	46
-15.0	239	243	236	228	200	177	146	113	82	57	35
-17.0	208	192	181	171	149	125	101	74	55	40	26
-19.5	124	121	111	97	87	74	57	45	34	26	17
-22.5	53	52	50	45	41	34	29	25	20	15	10
-25.5	27	26	24	23	21	17	15	13	10	8	6
-29.0	12	12	11	10	9	8	7	6	5	4	3
-33.0	4	4	4	4	3	3	2	2	2	2	1
-37.5	1	1	1	1	1	1	1	1	1	1	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



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	0	0	0	0	0	0	0	0	0	0	0
42.5	1	1	0	0	0	0	0	0	0	0	0
37.5	1	1	1	1	0	0	0	0	0	0	0
33.0	3	2	1	1	0	0	0	0	0	0	0
29.0	5	3	2	1	1	0	0	0	0	0	0
25.5	8	5	3	2	1	0	0	0	0	0	0
22.5	12	8	4	2	1	0	0	0	0	0	0
19.5	18	11	5	2	1	1	0	0	0	0	0
17.0	24	14	7	3	1	1	0	0	0	0	0
15.0	30	17	8	3	1	1	0	0	0	0	0
13.0	37	21	9	4	2	1	0	0	0	0	0
11.0	44	23	10	4	2	1	0	0	0	0	0
9.0	50	26	11	4	2	1	0	0	0	0	0
7.0	55	28	13	5	2	1	0	0	0	0	0
5.0	62	31	14	5	2	1	0	0	0	0	0
3.0	68	33	14	5	2	1	0	0	0	0	0
1.0	68	33	13	5	2	1	0	0	0	0	0
0.0	66	33	13	5	2	1	0	0	0	0	0
-1.0	66	32	13	5	2	1	0	0	0	0	0
-3.0	63	30	13	5	2	1	0	0	0	0	0
-5.0	56	28	12	4	2	1	0	0	0	0	0
-7.0	49	24	11	4	2	1	0	0	0	0	0
-9.0	39	20	9	4	1	1	0	0	0	0	0
-11.0	33	17	7	3	1	1	0	0	0	0	0
-13.0	25	13	6	3	1	0	0	0	0	0	0
-15.0	19	11	5	2	1	0	0	0	0	0	0
-17.0	14	8	4	2	1	0	0	0	0	0	0
-19.5	10	6	3	1	1	0	0	0	0	0	0
-22.5	6	4	2	1	1	0	0	0	0	0	0
-25.5	4	2	1	1	0	0	0	0	0	0	0
-29.0	2	1	1	0	0	0	0	0	0	0	0
-33.0	1	1	0	0	0	0	0	0	0	0	0
-37.5	0	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)

