



UL LLC  
1075 W Lambert Rd Suite B  
Brea, CA 92821

## Floodlight Distribution Test Report

Relevant Standards  
IES LM-79-2019, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)

Prepared For  
**B-K LIGHTING INC**

40429 Brickyard Dr  
Madera, CA 93636-9515  
United States

Catalog Number  
**NS-LED-e207-WFL-WHP-9-D**

Project Number  
15884175  
Test Number  
15884175.13

Test Date

2025-12-19

Issue Date

2025-12-30

Prepared By

Jesse Reyna, Laboratory Leader

Approved By

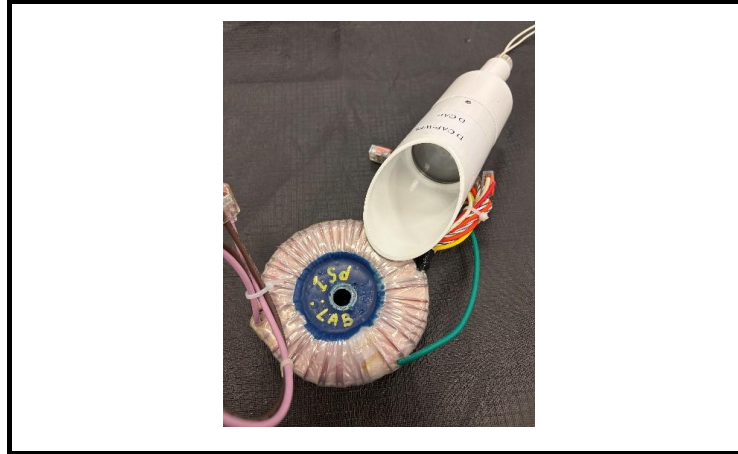
Shivani Vyas, Engineering Project Handler

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White aluminum cylindrical housing with tall ANGLED clear lens cap  
**Lamp:** 1 LED array  
**Mounting:** Pendant  
**Ballast/Driver:** Qtran QOM-60DC+CAP-120

**Luminaire**



**Luminaire Characteristics**

Luminous Diameter: 1.75 in.  
Luminous Height: 3.000 in.

**Summary of Results**

Total Luminaire Output: 368.7 Lumens  
Luminaire Efficacy: 37.4 lm/w  
Maximum Candela: 595 Candela

**Test Conditions**

Test Temperature: 24.7 °C  
Voltage: 120.1 VAC  
Current: 0.09002 A  
Power: 9.854 W  
Power Factor: 0.912  
Frequency: 60 Hz  
Current THD: 44.0 %

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

## Distribution - Goniophotometer

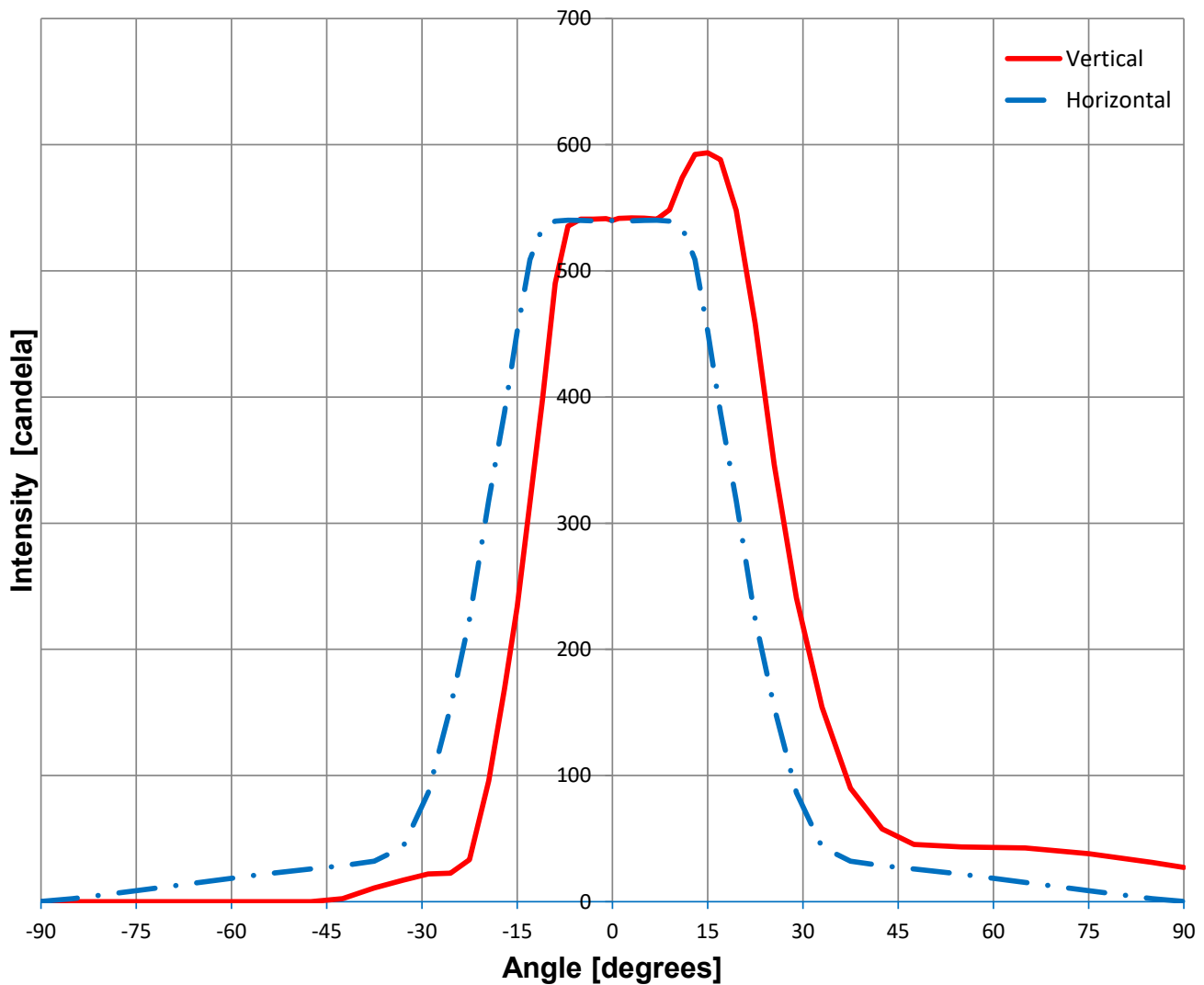
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.09002 A	9.854 W	0.912	60 Hz	44.0 %

### Summary of Results

<b>Total Lumen Output:</b>	368.7 Lumens	<b>Maximum Candela:</b>	594.6 Candela
<b>Luminaire Efficacy:</b>	37.4 Lumens/Watt	<b>Maximum Angle:</b>	-1 H      13 V
<b>Field Lumens:</b>	270.3 Lumens	<b>Field Angle :</b>	64.2 H   X   63.7 V
<b>Beam Lumens:</b>	193.0 Lumens	<b>Beam Angle :</b>	39.6 H   X   40.8 V
<b>Spill Light Lumens:</b>	98.4 Lumens	<b>IESNA Type:</b>	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	31	31	31	30	30	30	30	30	30	29	29
75.0	38	38	38	38	37	37	37	37	36	36	36
65.0	43	42	42	42	42	42	42	41	41	41	40
55.0	43	43	43	43	43	43	43	43	43	42	42
47.5	45	45	45	44	44	44	43	43	42	42	42
42.5	58	57	55	54	53	51	50	48	46	45	43
37.5	90	88	82	80	77	74	70	66	61	56	51
33.0	154	148	135	130	123	115	107	98	89	80	69
29.0	241	232	218	211	201	187	169	149	131	115	97
25.5	347	332	311	299	284	264	243	219	192	162	130
22.5	458	440	416	399	376	348	316	284	252	217	168
19.5	548	534	519	504	477	442	400	356	313	272	217
17.0	588	580	571	562	545	514	469	416	364	314	257
15.0	594	593	590	587	576	555	517	462	402	345	283
13.0	592	595	594	593	587	577	553	502	436	372	305
11.0	574	584	585	588	588	585	568	529	465	396	323
9.0	548	561	564	570	578	580	573	545	484	415	336
7.0	541	545	546	550	556	568	572	552	493	423	344
5.0	542	542	541	542	545	552	560	549	494	421	344
3.0	542	541	541	540	541	543	548	537	484	413	338
1.0	542	540	540	540	540	540	537	520	466	398	326
0.0	540	539	540	540	540	539	534	509	452	388	318
-1.0	541	540	540	540	540	539	531	494	437	376	308
-3.0	541	540	540	540	540	534	511	458	401	350	282
-5.0	541	540	540	539	535	517	472	412	362	319	246
-7.0	535	538	536	529	511	471	416	364	324	278	213
-9.0	490	510	502	482	447	402	357	317	278	231	183
-11.0	398	433	422	401	368	336	301	263	224	192	150
-13.0	316	342	337	323	301	270	236	205	180	153	114
-15.0	234	260	260	247	226	202	180	161	138	113	81
-17.0	169	184	187	178	165	150	133	115	96	76	54
-19.5	96	109	115	109	99	88	77	65	54	43	34
-22.5	33	40	45	43	41	37	34	32	30	29	29
-25.5	23	23	23	24	25	26	26	26	26	25	26
-29.0	22	22	23	23	23	23	22	22	22	22	22
-33.0	17	17	18	18	18	18	18	18	18	17	17
-37.5	11	11	12	12	12	12	11	11	11	10	10
-42.5	2	3	3	4	3	3	3	3	3	3	3
-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)

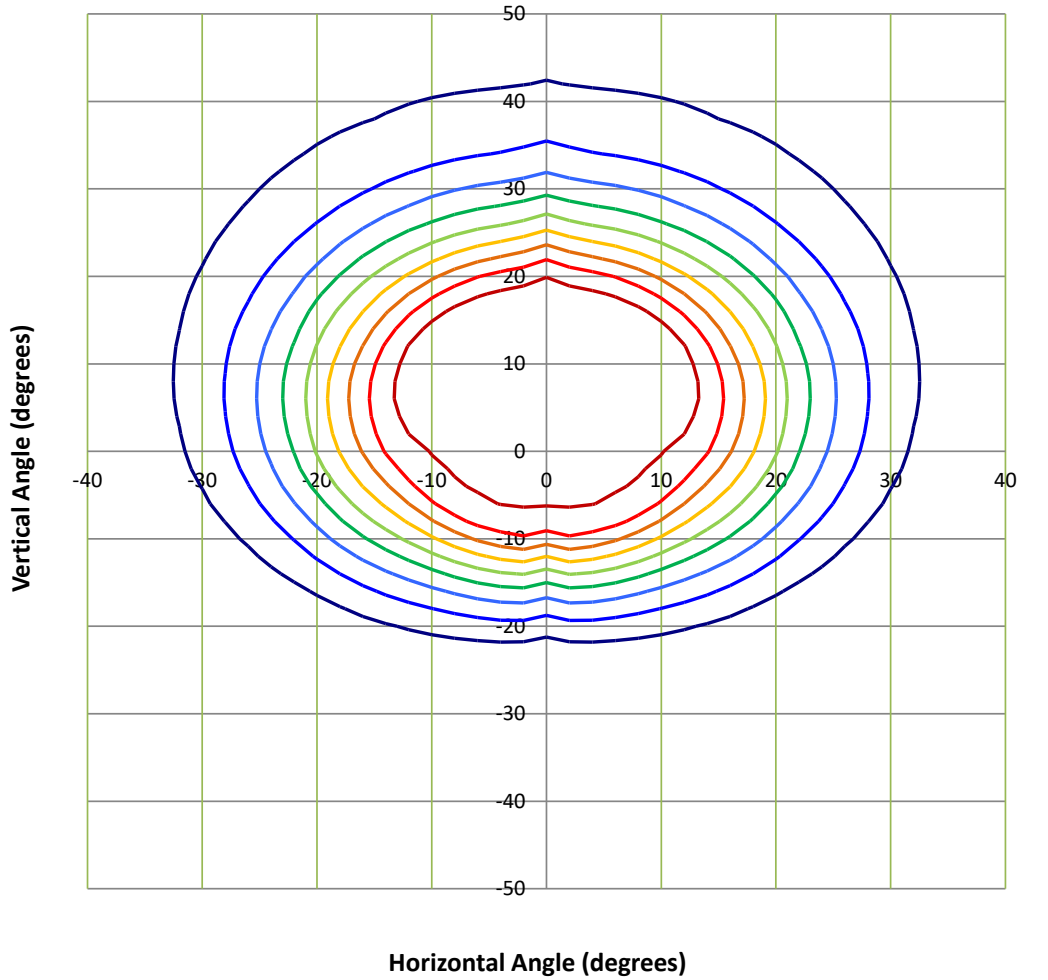
**Candela Tabulation**

Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	28	28	27	26	24	22	21	18	13	8	2
75.0	35	34	33	31	30	27	25	21	15	9	3
65.0	40	39	37	36	34	31	29	24	17	10	3
55.0	42	41	40	38	37	34	31	26	19	11	3
47.5	41	41	40	39	37	35	32	27	20	11	3
42.5	41	40	40	39	37	35	33	28	20	12	3
37.5	46	42	39	38	37	35	33	28	20	12	3
33.0	57	48	41	38	36	35	32	28	20	12	3
29.0	77	59	46	38	36	34	32	28	20	11	3
25.5	100	75	53	39	35	34	32	27	20	11	3
22.5	125	91	61	41	35	33	31	27	19	11	3
19.5	154	110	71	44	35	33	31	27	19	11	3
17.0	180	126	79	47	35	32	30	26	19	11	3
15.0	201	139	86	48	35	32	30	26	18	10	3
13.0	219	151	92	50	35	32	30	25	18	10	3
11.0	235	160	97	51	34	31	29	25	18	10	3
9.0	246	167	100	51	34	31	29	24	17	10	3
7.0	250	170	101	51	34	30	28	24	17	10	3
5.0	249	170	100	50	33	30	28	23	17	9	3
3.0	242	166	97	48	33	29	27	23	16	9	3
1.0	231	159	90	45	32	29	26	22	16	9	2
0.0	224	154	86	43	32	29	26	22	15	9	2
-1.0	216	148	82	42	32	28	26	21	15	8	2
-3.0	199	134	73	39	31	28	25	21	15	8	2
-5.0	178	117	63	37	30	27	24	20	14	8	2
-7.0	153	98	53	35	30	26	23	19	13	7	2
-9.0	126	78	45	33	29	25	22	18	13	7	2
-11.0	99	61	38	32	28	24	22	18	12	7	2
-13.0	73	47	34	30	26	23	21	17	12	6	2
-15.0	53	37	32	29	25	22	19	16	11	6	2
-17.0	38	33	30	27	24	21	18	15	10	6	2
-19.5	32	30	27	25	22	19	17	14	9	5	2
-22.5	28	26	25	23	20	17	15	12	8	5	1
-25.5	25	23	22	20	17	15	13	11	7	4	1
-29.0	21	20	18	16	14	12	11	9	6	3	1
-33.0	16	15	13	12	11	9	8	7	4	2	1
-37.5	9	9	8	7	6	6	5	4	3	1	1
42.5	3	3	3	2	2	2	2	1	1	0	1
-47.5	0	0	0	0	0	0	0	0	0	0	1
-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)

### Isocandela Diagram (Percent of Maximum Intensity)



- 535 cd (90%)
- 475 cd (80%)
- 416 cd (70%)
- 356 cd (60%)
- 297 cd (50%)
- 237 cd (40%)
- 178 cd (30%)
- 118 cd (20%)
- 59 cd (10%)