



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IES LM-79-2019, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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-SP-WHP-9-C**

Project Number  
15884175  
Test Number  
15884175.06

Test Date  
2025-12-22

Issue Date  
2025-12-26

Prepared By

Jesse Reyna, Laboratory Leader

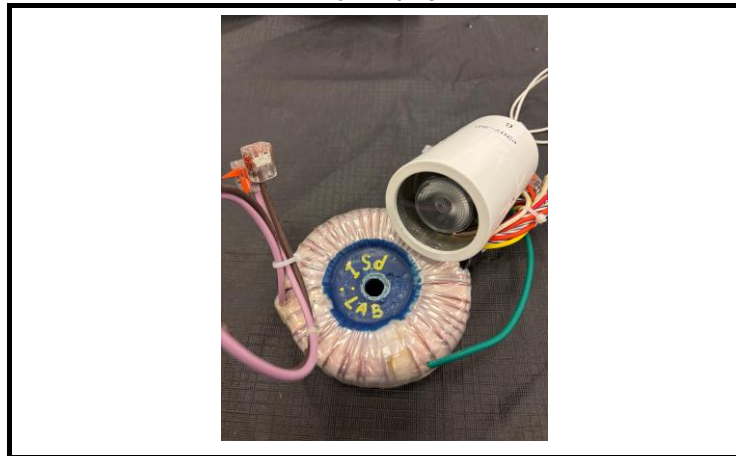
Approved By

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 clear lens cap and spot optic  
**Lamp:** 1 LED array  
**Mounting:** Pendant  
**Ballast/Driver:** Qtran QOM-60DC+CAP-120

**Luminaire**



**Luminaire Characteristics**  
 Luminous Diameter: 1.75 in.

**Summary of Results**

Total Luminaire Output: 509.8 Lumens  
 Luminaire Efficacy: 53.2 lm/w  
 Maximum Candela: 2281 Candela

**Test Conditions**

Test Temperature: 24.8 °C  
 Voltage: 120.1 VAC  
 Current: 0.08788 A  
 Power: 9.582 W  
 Power Factor: 0.908  
 Frequency: 60 Hz  
 Current THD: 45.1 %

The device under test emits no detectable uplight, as defined by ANSI/IES LM-75-19.  
 For the purpose of this report, certain non-zero uplight readings have been assigned a zero value, in accordance with the requirements of  
 ANSI/IES LM-75-19

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

## Distribution - Goniophotometer

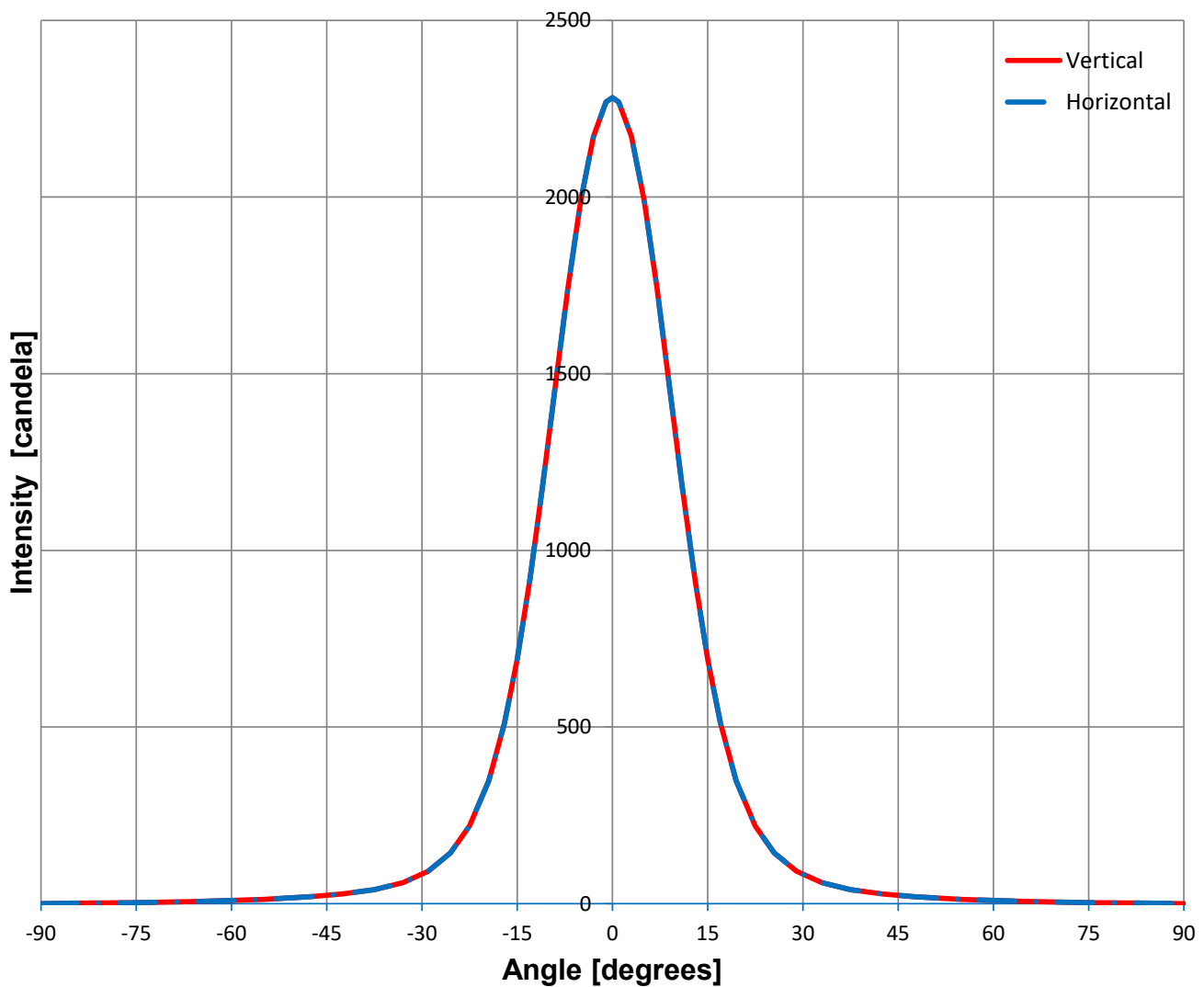
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.1 VAC	0.08788 A	9.582 W	0.908	60 Hz	45.1 %

### Summary of Results

<b>Total Lumen Output:</b>	509.8 Lumens	<b>Maximum Candela:</b>	2281.3 Candela
<b>Luminaire Efficacy:</b>	53.2 Lumens/Watt	<b>Maximum Angle:</b>	0 H      0 V
<b>Field Lumens:</b>	381.3 Lumens	<b>Field Angle :</b>	44.6 H   X   44.6 V
<b>Beam Lumens:</b>	193.7 Lumens	<b>Beam Angle :</b>	22.6 H   X   22.6 V
<b>Spill Light Lumens:</b>	128.5 Lumens	<b>IESNA Type:</b>	3 H   X   3 V

### Maximum Candlepower Plot



**Candela Tabulation**  
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	1	1
75.0	3	3	3	3	3	3	3	3	3	3	3
65.0	6	6	6	6	6	6	6	6	6	6	6
55.0	12	12	12	12	12	12	12	11	11	11	11
47.5	19	19	19	19	19	19	18	18	17	17	16
42.5	28	28	27	27	27	26	25	25	24	23	22
37.5	40	40	39	39	38	37	36	34	33	31	29
33.0	60	59	59	58	56	54	51	48	46	43	39
29.0	92	92	91	88	84	80	75	69	64	58	52
25.5	144	143	140	135	128	118	109	99	89	79	68
22.5	220	219	214	203	190	173	155	137	120	105	88
19.5	347	346	335	315	289	259	227	195	166	141	113
17.0	511	509	492	459	415	365	313	264	219	180	141
15.0	692	689	664	615	552	478	404	334	271	219	166
13.0	918	914	879	810	720	618	513	418	334	264	195
11.0	1179	1173	1127	1038	917	780	643	513	404	313	227
9.0	1463	1455	1394	1279	1128	957	780	618	478	365	259
7.0	1744	1734	1659	1521	1336	1128	917	720	552	415	289
5.0	1990	1978	1893	1734	1521	1279	1038	810	615	459	315
3.0	2172	2159	2066	1893	1659	1394	1127	879	664	492	335
1.0	2269	2254	2159	1978	1734	1455	1173	914	689	509	346
0.0	2281	2269	2172	1990	1744	1463	1179	918	692	511	347
-1.0	2269	2254	2159	1978	1734	1455	1173	914	689	509	346
-3.0	2172	2159	2066	1893	1659	1394	1127	879	664	492	335
-5.0	1990	1978	1893	1734	1521	1279	1038	810	615	459	315
-7.0	1744	1734	1659	1521	1336	1128	917	720	552	415	289
-9.0	1463	1455	1394	1279	1128	957	780	618	478	365	259
-11.0	1179	1173	1127	1038	917	780	643	513	404	313	227
-13.0	918	914	879	810	720	618	513	418	334	264	195
-15.0	692	689	664	615	552	478	404	334	271	219	166
-17.0	511	509	492	459	415	365	313	264	219	180	141
-19.5	347	346	335	315	289	259	227	195	166	141	113
-22.5	220	219	214	203	190	173	155	137	120	105	88
-25.5	144	143	140	135	128	118	109	99	89	79	68
-29.0	92	92	91	88	84	80	75	69	64	58	52
-33.0	60	59	59	58	56	54	51	48	46	43	39
-37.5	40	40	39	39	38	37	36	34	33	31	29
-42.5	28	28	27	27	27	26	25	25	24	23	22
-47.5	19	19	19	19	19	19	18	18	17	17	16
-55.0	12	12	12	12	12	12	12	11	11	11	11
-65.0	6	6	6	6	6	6	6	6	6	6	6
-75.0	3	3	3	3	3	3	3	3	3	3	3
-85.0	1	1	1	1	1	1	1	1	1	1	1

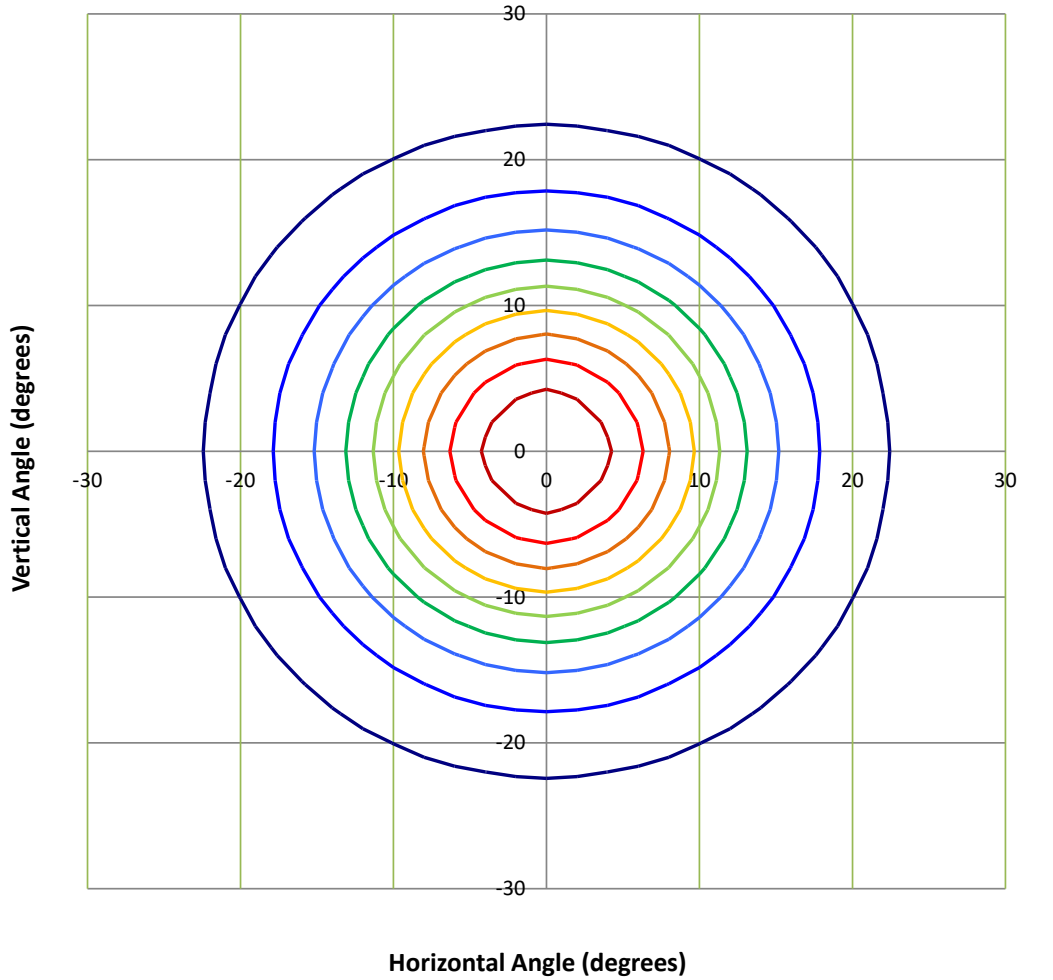
Vertical Angle (Degrees)

**Candela Tabulation**  
Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	1	1	1	1	1	1	1	1	0	0	0
75.0	3	3	3	2	2	2	2	2	1	1	0
65.0	6	5	5	5	4	4	3	3	2	1	0
55.0	10	9	9	8	7	6	6	4	3	2	1
47.5	15	14	13	12	10	9	7	6	3	2	1
42.5	20	19	17	15	13	11	9	6	4	2	1
37.5	27	24	21	19	16	13	10	7	4	2	1
33.0	35	31	27	23	19	15	12	8	5	2	1
29.0	45	39	33	27	21	17	13	9	5	3	1
25.5	57	47	39	31	24	19	14	9	5	3	1
22.5	70	57	45	35	27	20	15	10	6	3	1
19.5	88	68	52	39	29	22	16	11	6	3	1
17.0	105	79	58	43	31	23	17	11	6	3	1
15.0	120	89	64	46	33	24	17	11	6	3	1
13.0	137	99	69	48	34	25	18	11	6	3	1
11.0	155	109	75	51	36	25	18	12	6	3	1
9.0	173	118	80	54	37	26	19	12	6	3	1
7.0	190	128	84	56	38	27	19	12	6	3	1
5.0	203	135	88	58	39	27	19	12	6	3	1
3.0	214	140	91	59	39	27	19	12	6	3	1
1.0	219	143	92	59	40	28	19	12	6	3	1
0.0	220	144	92	60	40	28	19	12	6	3	1
-1.0	219	143	92	59	40	28	19	12	6	3	1
-3.0	214	140	91	59	39	27	19	12	6	3	1
-5.0	203	135	88	58	39	27	19	12	6	3	1
-7.0	190	128	84	56	38	27	19	12	6	3	1
-9.0	173	118	80	54	37	26	19	12	6	3	1
-11.0	155	109	75	51	36	25	18	12	6	3	1
-13.0	137	99	69	48	34	25	18	11	6	3	1
-15.0	120	89	64	46	33	24	17	11	6	3	1
-17.0	105	79	58	43	31	23	17	11	6	3	1
-19.5	88	68	52	39	29	22	16	11	6	3	1
-22.5	70	57	45	35	27	20	15	10	6	3	1
-25.5	57	47	39	31	24	19	14	9	5	3	1
-29.0	45	39	33	27	21	17	13	9	5	3	1
-33.0	35	31	27	23	19	15	12	8	5	2	1
-37.5	27	24	21	19	16	13	10	7	4	2	1
42.5	20	19	17	15	13	11	9	6	4	2	1
-47.5	15	14	13	12	10	9	7	6	3	2	1
-55.0	10	9	9	8	7	6	6	4	3	2	1
-65.0	6	5	5	5	4	4	3	3	2	1	0
-75.0	3	3	3	2	2	2	2	2	1	1	0
-85.0	1	1	1	1	1	1	1	1	0	0	0

Vertical Angle (Degrees)

### Isocandela Diagram (Percent of Maximum Intensity)



— 2053 cd (90%)   
 — 1825 cd (80%)   
 — 1596 cd (70%)   
 — 1368 cd (60%)   
 — 1140 cd (50%)  
— 912 cd (40%)   
 — 684 cd (30%)   
 — 456 cd (20%)   
 — 228 cd (10%)