



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IES LM-79-2019, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

Project Number  
15884175  
Test Number  
15884175.07

Test Date  
2025-12-22

Issue Date  
2025-12-26

Prepared By

Jesse Reyna, Laboratory Leader

Approved By

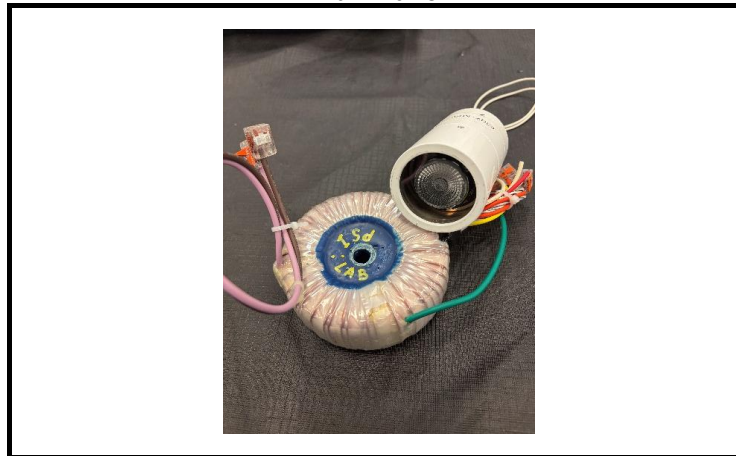
Shivani Vyas, Engineering Project Handler

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 medium flood 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: 498.5 Lumens  
Luminaire Efficacy: 51.5 lm/w  
Maximum Candela: 1177 Candela

### Test Conditions

Test Temperature: 24.7 °C  
Voltage: 120.0 VAC  
Current: 0.08884 A  
Power: 9.679 W  
Power Factor: 0.908  
Frequency: 60 Hz  
Current THD: 45.2 %

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

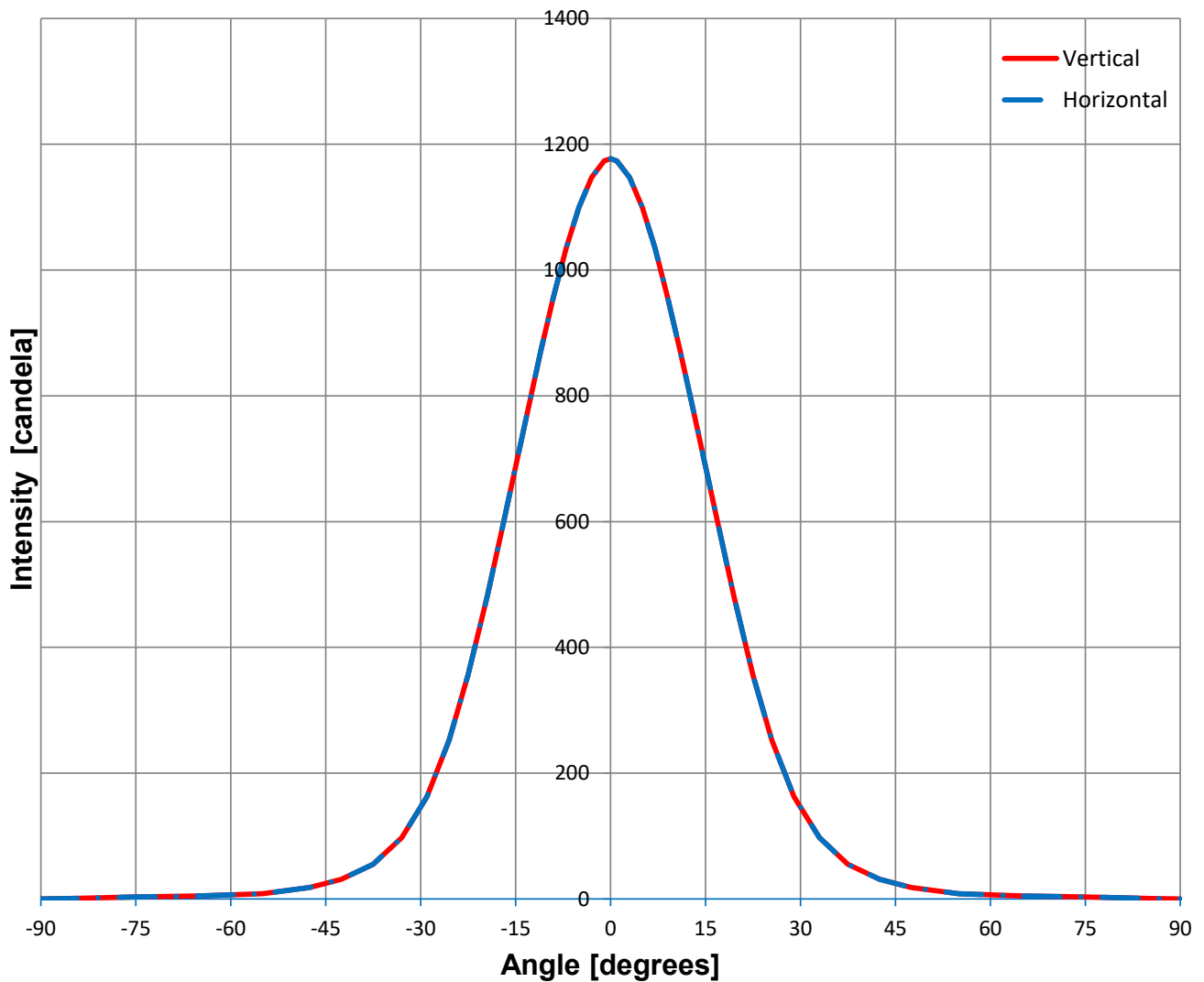
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.08884 A	9.679 W	0.908	60 Hz	45.2 %

### Summary of Results

<b>Total Lumen Output:</b>	498.5 Lumens	<b>Maximum Candela:</b>	1177.1 Candela
<b>Luminaire Efficacy:</b>	51.5 Lumens/Watt	<b>Maximum Angle:</b>	0 H      0 V
<b>Field Lumens:</b>	422.9 Lumens	<b>Field Angle :</b>	63.5 H   X   63.5 V
<b>Beam Lumens:</b>	235.6 Lumens	<b>Beam Angle :</b>	34.2 H   X   34.2 V
<b>Spill Light Lumens:</b>	75.6 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	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	5	5	5	5	5	4	4	4	4	4	4
55.0	8	8	8	8	8	8	8	8	8	7	7
47.5	18	18	18	18	17	17	16	16	15	14	13
42.5	31	31	31	30	30	29	28	26	25	23	22
37.5	55	55	54	53	51	49	47	44	41	38	34
33.0	97	97	96	93	90	85	80	74	67	61	53
29.0	162	162	160	155	147	138	128	117	106	95	81
25.5	252	252	247	239	227	211	194	175	156	137	115
22.5	356	355	349	336	319	296	270	243	214	186	154
19.5	481	480	471	454	430	400	365	326	287	248	202
17.0	594	593	582	562	532	495	452	405	355	306	248
15.0	687	686	674	650	616	574	524	470	413	355	287
13.0	781	779	765	738	700	651	596	534	470	405	326
11.0	872	870	854	823	780	726	664	596	524	452	365
9.0	958	955	937	903	854	794	726	651	574	495	400
7.0	1035	1032	1012	974	920	854	780	700	616	532	430
5.0	1100	1097	1075	1033	974	903	823	738	650	562	454
3.0	1147	1144	1120	1075	1012	937	854	765	674	582	471
1.0	1174	1169	1144	1097	1032	955	870	779	686	593	480
0.0	1177	1174	1147	1100	1035	958	872	781	687	594	481
-1.0	1174	1169	1144	1097	1032	955	870	779	686	593	480
-3.0	1147	1144	1120	1075	1012	937	854	765	674	582	471
-5.0	1100	1097	1075	1033	974	903	823	738	650	562	454
-7.0	1035	1032	1012	974	920	854	780	700	616	532	430
-9.0	958	955	937	903	854	794	726	651	574	495	400
-11.0	872	870	854	823	780	726	664	596	524	452	365
-13.0	781	779	765	738	700	651	596	534	470	405	326
-15.0	687	686	674	650	616	574	524	470	413	355	287
-17.0	594	593	582	562	532	495	452	405	355	306	248
-19.5	481	480	471	454	430	400	365	326	287	248	202
-22.5	356	355	349	336	319	296	270	243	214	186	154
-25.5	252	252	247	239	227	211	194	175	156	137	115
-29.0	162	162	160	155	147	138	128	117	106	95	81
-33.0	97	97	96	93	90	85	80	74	67	61	53
-37.5	55	55	54	53	51	49	47	44	41	38	34
-42.5	31	31	31	30	30	29	28	26	25	23	22
-47.5	18	18	18	18	17	17	16	16	15	14	13
-55.0	8	8	8	8	8	8	8	8	8	7	7
-65.0	5	5	5	5	5	4	4	4	4	4	4
-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)

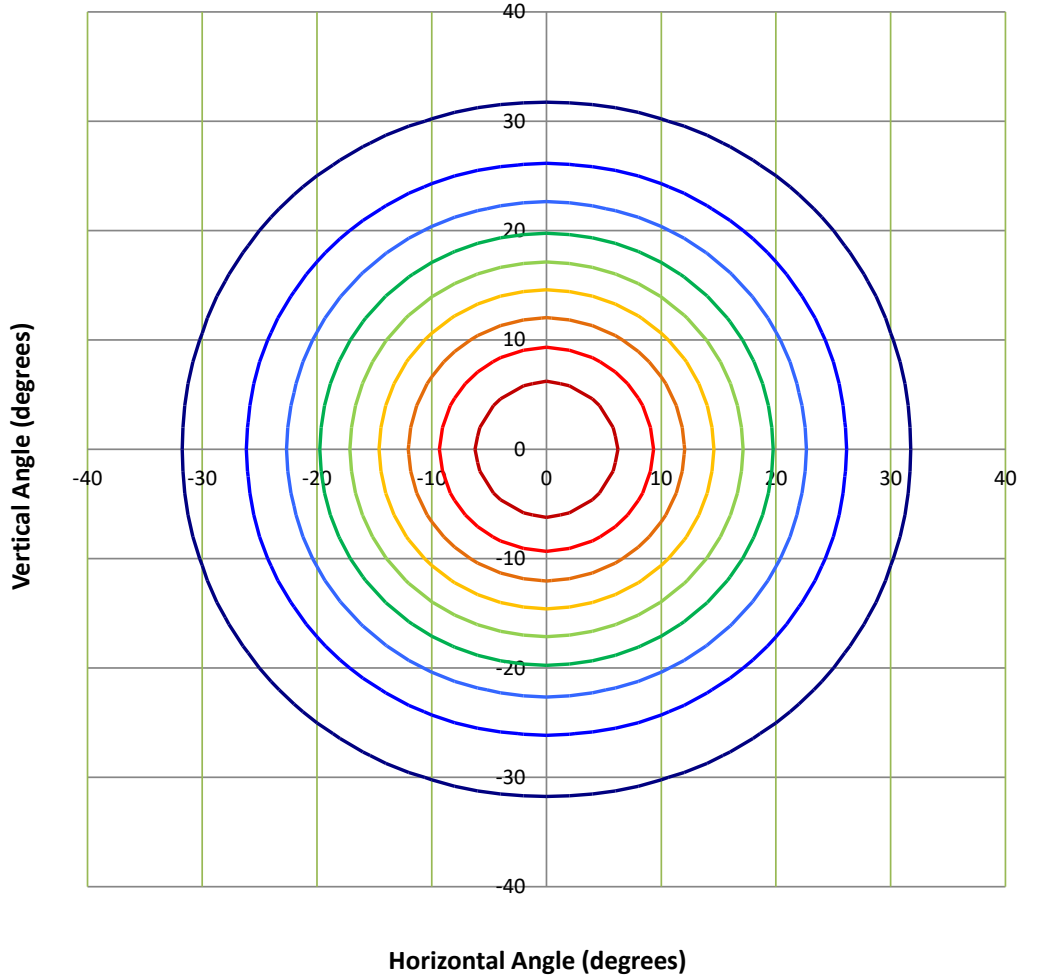
**Candela Tabulation**

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	0	0	0	0
75.0	3	3	3	3	3	2	2	2	1	1	0
65.0	4	4	4	4	4	3	3	3	2	1	0
55.0	7	6	6	5	5	5	4	4	3	2	0
47.5	12	11	9	8	7	6	5	4	3	2	1
42.5	19	17	14	11	9	7	6	5	3	2	1
37.5	30	26	21	17	12	9	7	5	4	3	1
33.0	45	37	30	23	17	11	8	5	4	3	1
29.0	66	53	40	30	21	14	9	6	4	3	1
25.5	92	71	53	37	26	17	11	6	4	3	1
22.5	120	92	66	45	30	19	12	7	4	3	1
19.5	154	115	81	53	34	22	13	7	4	3	1
17.0	186	137	95	61	38	23	14	7	4	3	1
15.0	214	156	106	67	41	25	15	8	4	3	1
13.0	243	175	117	74	44	26	16	8	4	3	1
11.0	270	194	128	80	47	28	16	8	4	3	1
9.0	296	211	138	85	49	29	17	8	4	3	1
7.0	319	227	147	90	51	30	17	8	5	3	1
5.0	336	239	155	93	53	30	18	8	5	3	1
3.0	349	247	160	96	54	31	18	8	5	3	1
1.0	355	252	162	97	55	31	18	8	5	3	1
0.0	356	252	162	97	55	31	18	8	5	3	1
-1.0	355	252	162	97	55	31	18	8	5	3	1
-3.0	349	247	160	96	54	31	18	8	5	3	1
-5.0	336	239	155	93	53	30	18	8	5	3	1
-7.0	319	227	147	90	51	30	17	8	5	3	1
-9.0	296	211	138	85	49	29	17	8	4	3	1
-11.0	270	194	128	80	47	28	16	8	4	3	1
-13.0	243	175	117	74	44	26	16	8	4	3	1
-15.0	214	156	106	67	41	25	15	8	4	3	1
-17.0	186	137	95	61	38	23	14	7	4	3	1
-19.5	154	115	81	53	34	22	13	7	4	3	1
-22.5	120	92	66	45	30	19	12	7	4	3	1
-25.5	92	71	53	37	26	17	11	6	4	3	1
-29.0	66	53	40	30	21	14	9	6	4	3	1
-33.0	45	37	30	23	17	11	8	5	4	3	1
-37.5	30	26	21	17	12	9	7	5	4	3	1
-42.5	19	17	14	11	9	7	6	5	3	2	1
-47.5	12	11	9	8	7	6	5	4	3	2	1
-55.0	7	6	6	5	5	5	4	4	3	2	0
-65.0	4	4	4	4	4	3	3	3	2	1	0
-75.0	3	3	3	3	3	2	2	2	1	1	0
-85.0	1	1	1	1	1	1	1	0	0	0	0

Vertical Angle (Degrees)

### Isocandela Diagram (Percent of Maximum Intensity)



- |                 |                |                |                |                |
|-----------------|----------------|----------------|----------------|----------------|
| — 1059 cd (90%) | — 941 cd (80%) | — 823 cd (70%) | — 706 cd (60%) | — 588 cd (50%) |
| — 470 cd (40%)  | — 353 cd (30%) | — 235 cd (20%) | — 117 cd (10%) |                |