



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IES LM-79-2019, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

Project Number  
15884175  
Test Number  
15884175.08

Test Date  
2025-12-19

Issue Date  
2025-12-26

Prepared By

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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 wide 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: 544.4 Lumens  
 Luminaire Efficacy: 55.2 lm/w  
 Maximum Candela: 589 Candela

**Test Conditions**

Test Temperature: 24.8 °C  
 Voltage: 120.1 VAC  
 Current: 0.09001 A  
 Power: 9.854 W  
 Power Factor: 0.912  
 Frequency: 60 Hz  
 Current THD: 44.0 %

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

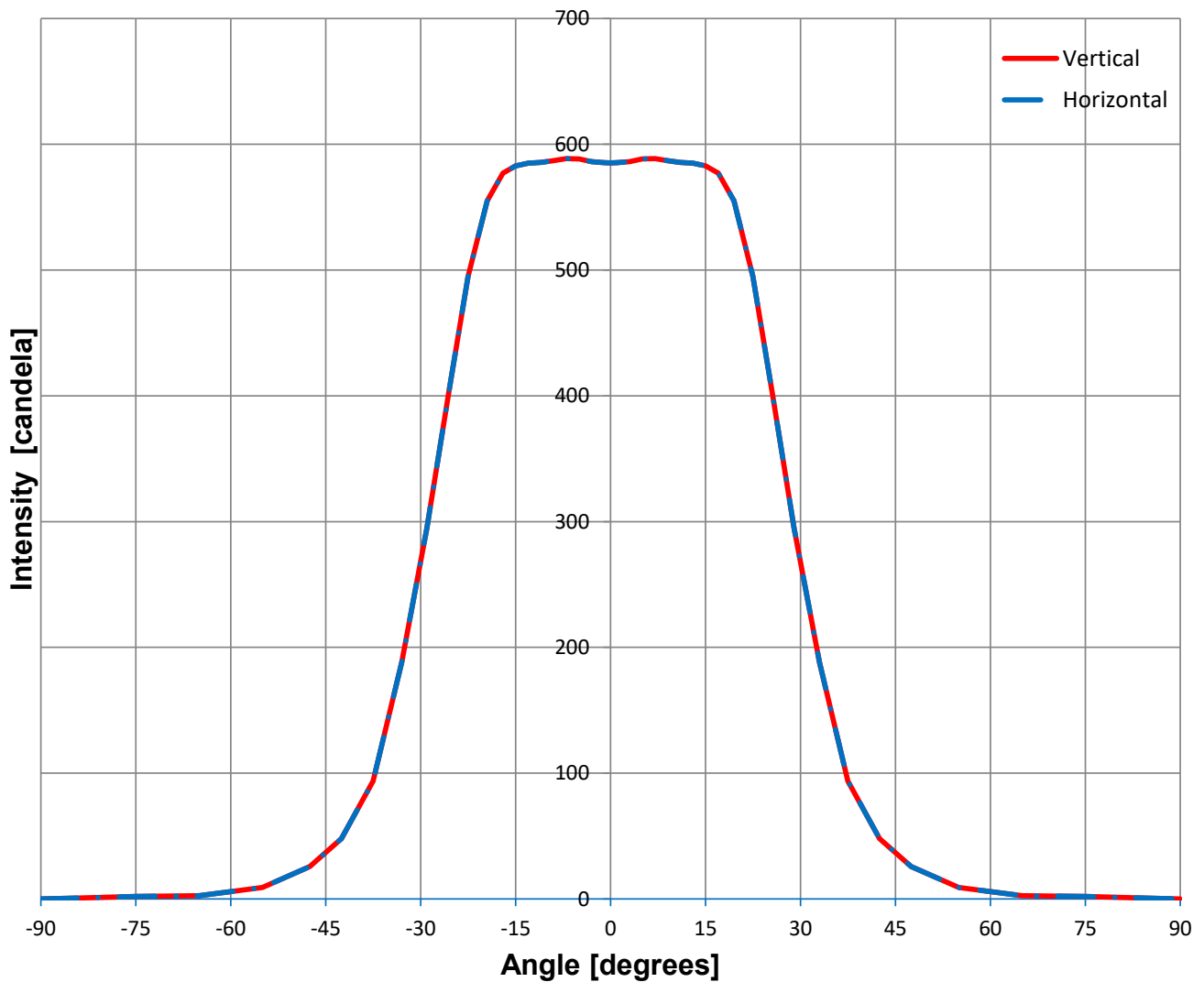
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.1 VAC	0.09001 A	9.854 W	0.912	60 Hz	44.0 %

### Summary of Results

<b>Total Lumen Output:</b>	544.4 Lumens	<b>Maximum Candela:</b>	588.6 Candela	
<b>Luminaire Efficacy:</b>	55.2 Lumens/Watt	<b>Maximum Angle:</b>	-7 H	-7 V
<b>Field Lumens:</b>	506.1 Lumens	<b>Field Angle :</b>	81.7 H	X 81.7 V
<b>Beam Lumens:</b>	389.3 Lumens	<b>Beam Angle :</b>	56.6 H	X 56.6 V
<b>Spill Light Lumens:</b>	38.3 Lumens	<b>IESNA Type:</b>	5 H	X 5 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	2	2	2	2	2	2	2	2	2	2	2
65.0	3	3	3	3	3	3	3	3	3	2	2
55.0	9	9	9	9	9	9	8	8	8	7	7
47.5	26	26	26	25	24	24	23	22	20	19	17
42.5	48	48	48	47	45	44	42	40	37	35	31
37.5	94	94	92	90	86	82	77	71	66	60	54
33.0	188	188	185	179	171	160	149	135	121	107	90
29.0	295	295	291	284	274	261	245	226	206	182	151
25.5	404	404	399	390	376	358	336	312	286	259	223
22.5	495	494	490	481	466	447	423	394	362	327	283
19.5	555	555	552	546	536	521	501	473	439	399	346
17.0	577	577	576	573	568	560	545	524	494	456	399
15.0	583	583	582	581	579	575	566	552	528	494	439
13.0	585	585	585	584	583	581	577	568	552	524	473
11.0	586	586	585	585	585	584	582	577	566	545	501
9.0	587	587	587	586	585	585	584	581	575	560	521
7.0	589	589	588	587	587	585	585	583	579	568	536
5.0	588	588	588	589	587	586	585	584	581	573	546
3.0	586	586	588	588	588	587	585	585	582	576	552
1.0	585	586	586	588	589	587	586	585	583	577	555
0.0	585	585	586	588	589	587	586	585	583	577	555
-1.0	585	586	586	588	589	587	586	585	583	577	555
-3.0	586	586	588	588	588	587	585	585	582	576	552
-5.0	588	588	588	589	587	586	585	584	581	573	546
-7.0	589	589	588	587	587	585	585	583	579	568	536
-9.0	587	587	587	586	585	585	584	581	575	560	521
-11.0	586	586	585	585	585	584	582	577	566	545	501
-13.0	585	585	585	584	583	581	577	568	552	524	473
-15.0	583	583	582	581	579	575	566	552	528	494	439
-17.0	577	577	576	573	568	560	545	524	494	456	399
-19.5	555	555	552	546	536	521	501	473	439	399	346
-22.5	495	494	490	481	466	447	423	394	362	327	283
-25.5	404	404	399	390	376	358	336	312	286	259	223
-29.0	295	295	291	284	274	261	245	226	206	182	151
-33.0	188	188	185	179	171	160	149	135	121	107	90
-37.5	94	94	92	90	86	82	77	71	66	60	54
-42.5	48	48	48	47	45	44	42	40	37	35	31
-47.5	26	26	26	25	24	24	23	22	20	19	17
-55.0	9	9	9	9	9	9	8	8	8	7	7
-65.0	3	3	3	3	3	3	3	3	3	2	2
-75.0	2	2	2	2	2	2	2	2	2	2	2
-85.0	1	1	1	1	1	1	1	1	1	1	1

Vertical Angle (Degrees)

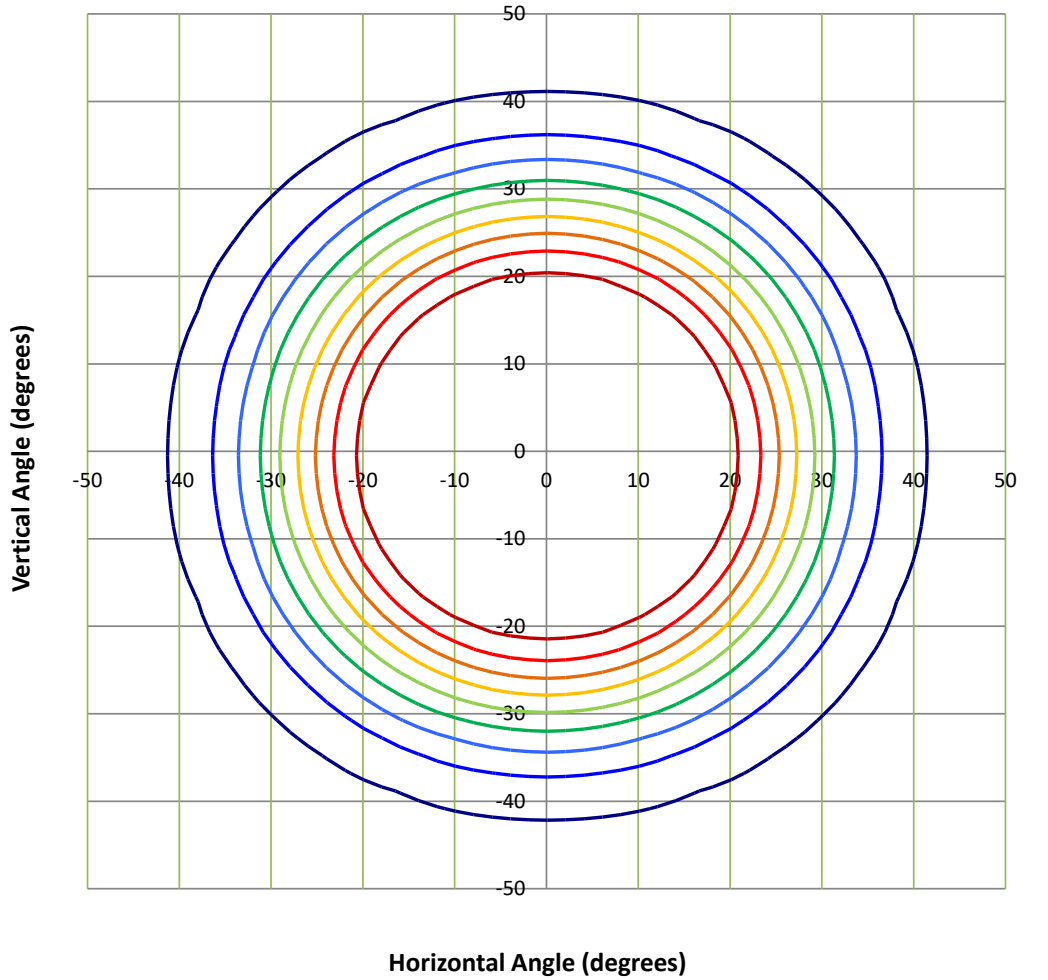
**Candela Tabulation**

Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	1	1	0	0	0	0	0	0	0	0	0
75.0	2	2	2	2	2	2	2	1	1	0	0
65.0	2	2	2	2	2	2	2	2	2	1	0
55.0	6	5	5	4	3	3	2	2	2	1	0
47.5	15	13	11	9	6	4	3	2	2	2	0
42.5	27	23	19	14	10	7	4	3	2	2	0
37.5	46	39	31	23	16	10	6	3	2	2	0
33.0	73	59	46	34	23	14	9	4	2	2	0
29.0	117	88	65	46	31	19	11	5	2	2	0
25.5	175	130	88	59	39	23	13	5	2	2	1
22.5	230	175	117	73	46	27	15	6	2	2	1
19.5	283	223	151	90	54	31	17	7	2	2	1
17.0	327	259	182	107	60	35	19	7	2	2	1
15.0	362	286	206	121	66	37	20	8	3	2	1
13.0	394	312	226	135	71	40	22	8	3	2	1
11.0	423	336	245	149	77	42	23	8	3	2	1
9.0	447	358	261	160	82	44	24	9	3	2	1
7.0	466	376	274	171	86	45	24	9	3	2	1
5.0	481	390	284	179	90	47	25	9	3	2	1
3.0	490	399	291	185	92	48	26	9	3	2	1
1.0	494	404	295	188	94	48	26	9	3	2	1
0.0	495	404	295	188	94	48	26	9	3	2	1
-1.0	494	404	295	188	94	48	26	9	3	2	1
-3.0	490	399	291	185	92	48	26	9	3	2	1
-5.0	481	390	284	179	90	47	25	9	3	2	1
-7.0	466	376	274	171	86	45	24	9	3	2	1
-9.0	447	358	261	160	82	44	24	9	3	2	1
-11.0	423	336	245	149	77	42	23	8	3	2	1
-13.0	394	312	226	135	71	40	22	8	3	2	1
-15.0	362	286	206	121	66	37	20	8	3	2	1
-17.0	327	259	182	107	60	35	19	7	2	2	1
-19.5	283	223	151	90	54	31	17	7	2	2	1
-22.5	230	175	117	73	46	27	15	6	2	2	1
-25.5	175	130	88	59	39	23	13	5	2	2	1
-29.0	117	88	65	46	31	19	11	5	2	2	0
-33.0	73	59	46	34	23	14	9	4	2	2	0
-37.5	46	39	31	23	16	10	6	3	2	2	0
-42.5	27	23	19	14	10	7	4	3	2	2	0
-47.5	15	13	11	9	6	4	3	2	2	2	0
-55.0	6	5	5	4	3	3	2	2	2	1	0
-65.0	2	2	2	2	2	2	2	2	2	1	0
-75.0	2	2	2	2	2	2	2	1	1	0	0
-85.0	1	1	0	0	0	0	0	0	0	0	0

Vertical Angle (Degrees)

### Isocandela Diagram (Percent of Maximum Intensity)



- 529 cd (90%)    — 470 cd (80%)    — 412 cd (70%)    — 353 cd (60%)    — 294 cd (50%)
- 235 cd (40%)    — 176 cd (30%)    — 117 cd (20%)    — 58 cd (10%)