



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IES LM-79-2019, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

Project Number  
15884175  
Test Number  
15884175.17

Test Date  
2026-01-15

Issue Date  
2026-01-26

Prepared By

Jesse Reyna, Laboratory Leader

Approved By

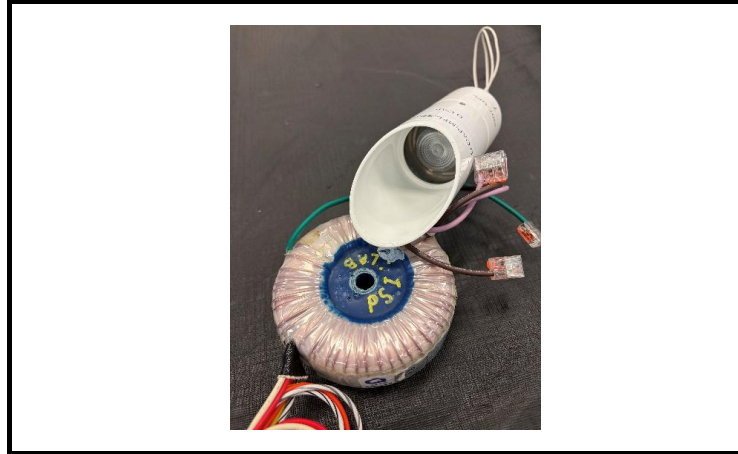
Shivani Vyas, Engineering Project Handler

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**Luminaire Description:** White aluminum cylindrical housing with tall ANGLED clear lens cap (flood optic)  
**Lamp:** 1 LED array  
**Mounting:** Pendant  
**Ballast/Driver:** Qtran QOM-60DC+CAP-120

**Luminaire**



**Luminaire Characteristics**

Luminous Diameter: 2.00 in.  
Luminous Height: 3.000 in.

**Summary of Results**

Total Luminaire Output: 422.9 Lumens  
Luminaire Efficacy: 43.6 lm/w  
Maximum Candela: 1201 Candela

**Test Conditions**

Test Temperature: 25.1 °C  
Voltage: 120.1 VAC  
Current: 0.08899 A  
Power: 9.699 W  
Power Factor: 0.908  
Frequency: 60 Hz  
Current THD: 45.2 %

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



## Distribution - Goniophotometer

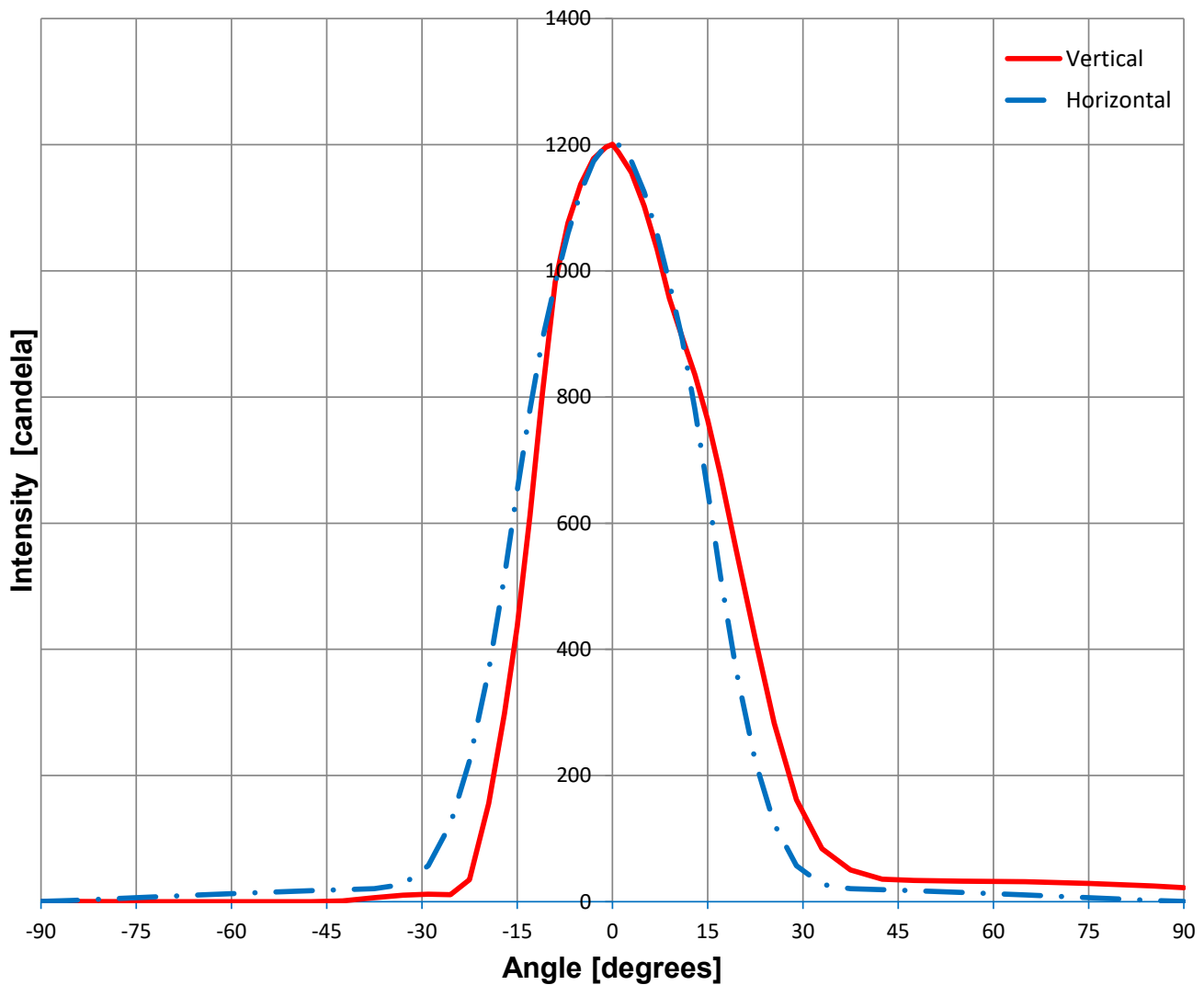
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.1 °C	120.1 VAC	0.08899 A	9.699 W	0.908	60 Hz	45.2 %

### Summary of Results

<b>Total Lumen Output:</b>	422.9 Lumens	<b>Maximum Candela:</b>	1200.7 Candela
<b>Luminaire Efficacy:</b>	43.6 Lumens/Watt	<b>Maximum Angle:</b>	0 H      0 V
<b>Field Lumens:</b>	332.5 Lumens	<b>Field Angle :</b>	51.3 H   X   51.5 V
<b>Beam Lumens:</b>	210.1 Lumens	<b>Beam Angle :</b>	31.5 H   X   31.7 V
<b>Spill Light Lumens:</b>	90.3 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	25	25	25	25	25	25	24	24	24	24	23
75.0	29	29	29	29	29	29	28	28	28	28	27
65.0	32	32	32	32	31	31	31	31	31	30	30
55.0	33	33	33	33	33	32	32	32	32	32	31
47.5	34	34	34	33	33	33	33	32	32	31	31
42.5	36	36	35	35	35	34	34	33	33	32	31
37.5	50	50	49	48	46	44	42	40	37	35	33
33.0	84	83	81	79	75	70	64	58	53	47	41
29.0	162	160	154	147	136	122	108	95	82	70	57
25.5	283	279	267	252	233	207	183	156	130	106	82
22.5	417	412	398	379	351	315	277	234	192	155	115
19.5	557	551	535	515	483	444	392	332	274	220	160
17.0	677	669	651	630	597	553	492	424	352	281	206
15.0	763	753	737	715	683	636	574	501	417	336	242
13.0	835	829	814	792	760	710	653	574	483	387	278
11.0	895	891	879	857	821	779	716	639	541	435	313
9.0	956	947	936	915	878	827	769	691	591	480	344
7.0	1035	1026	1010	977	929	871	810	735	634	513	367
5.0	1103	1096	1078	1040	982	914	846	768	658	532	381
3.0	1156	1153	1133	1089	1027	952	872	783	666	535	382
1.0	1187	1190	1165	1118	1054	974	888	784	658	526	374
0.0	1201	1200	1174	1125	1059	980	892	780	652	516	367
-1.0	1196	1199	1174	1125	1059	980	887	773	637	503	356
-3.0	1178	1178	1157	1109	1046	965	863	729	592	462	325
-5.0	1138	1137	1115	1073	1008	923	808	667	533	414	290
-7.0	1076	1078	1056	1012	944	837	711	584	463	357	249
-9.0	982	984	955	898	818	713	597	483	384	297	205
-11.0	807	813	784	735	659	571	476	384	304	235	155
-13.0	612	619	599	560	498	433	360	292	229	170	106
-15.0	436	444	432	402	359	312	263	210	156	109	65
-17.0	298	302	297	277	246	208	168	128	90	60	36
-19.5	156	158	153	136	117	93	71	51	36	26	20
-22.5	35	36	36	31	26	20	18	17	16	17	17
-25.5	11	11	11	12	12	13	14	14	15	15	15
-29.0	12	12	12	12	12	12	13	13	13	13	13
-33.0	10	10	10	10	10	10	10	10	10	10	9
-37.5	6	6	6	6	6	6	6	6	6	5	5
42.5	1	1	1	1	1	1	1	1	1	1	1
-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

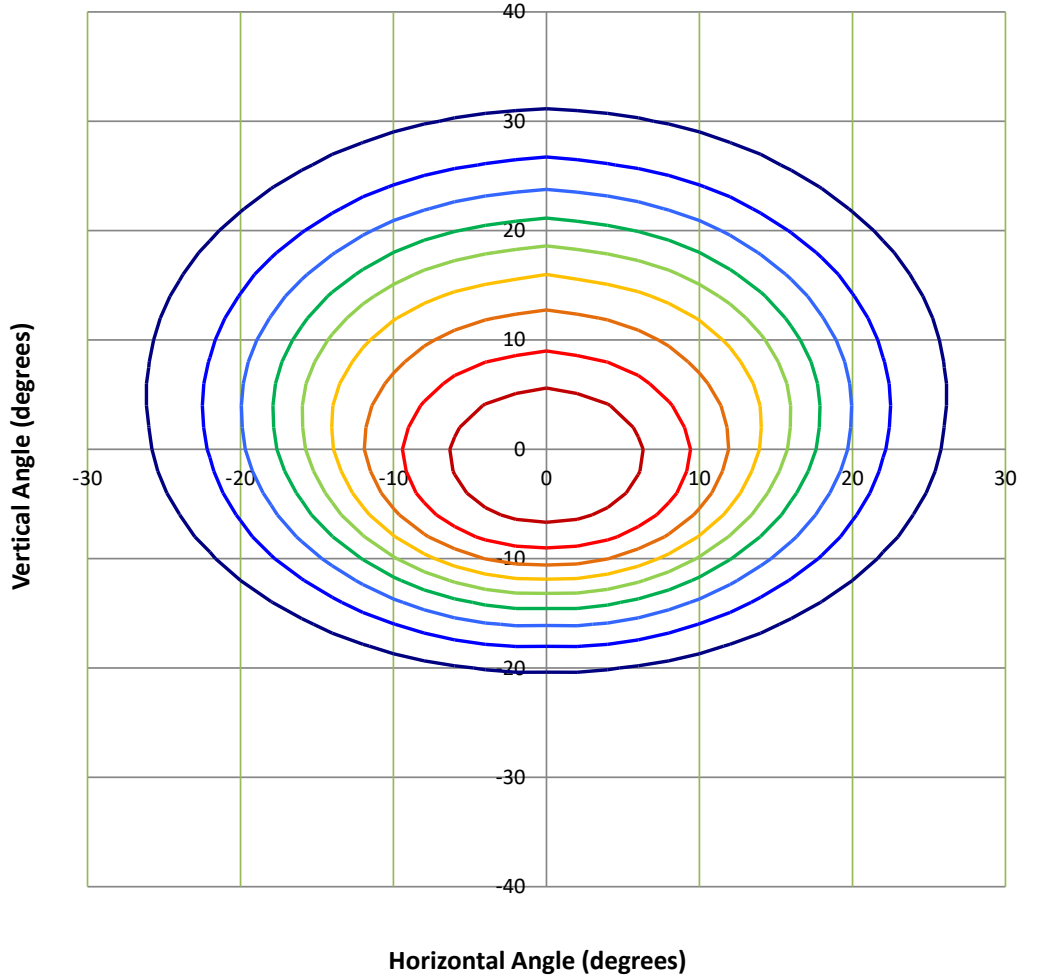
Vertical Angle (Degrees)

**Candela Tabulation**  
Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	23	22	22	21	20	18	17	14	10	6	2
75.0	27	26	25	24	23	21	20	16	12	7	2
65.0	29	29	28	27	25	23	22	18	13	8	2
55.0	31	30	29	28	27	25	23	19	14	8	3
47.5	30	30	29	28	27	25	23	20	14	9	3
42.5	30	29	29	28	27	25	23	20	15	9	3
37.5	32	30	28	27	27	25	23	20	14	9	3
33.0	35	32	29	27	26	25	23	20	14	8	3
29.0	45	36	30	27	25	24	23	19	14	8	3
25.5	60	44	33	27	25	24	22	19	14	8	3
22.5	79	54	37	28	25	23	22	19	14	8	2
19.5	105	68	42	29	24	23	21	18	13	8	2
17.0	132	81	47	30	24	22	21	18	13	8	2
15.0	154	93	51	31	24	22	21	18	13	8	2
13.0	176	105	56	32	23	22	20	17	13	7	2
11.0	197	116	60	32	23	21	20	17	12	7	2
9.0	214	125	63	33	23	21	19	17	12	7	2
7.0	228	132	65	32	22	21	19	16	12	7	2
5.0	234	134	65	32	22	20	19	16	12	7	2
3.0	234	132	63	30	21	20	18	15	11	7	2
1.0	228	127	59	29	21	19	18	15	11	6	2
0.0	223	123	57	27	21	19	17	15	11	6	2
-1.0	216	119	55	26	20	19	17	14	11	6	2
-3.0	197	106	49	25	20	18	16	14	10	6	2
-5.0	172	89	42	23	19	18	16	13	10	6	2
-7.0	143	73	34	22	19	17	15	13	9	5	2
-9.0	111	56	28	20	18	16	15	12	9	5	2
-11.0	81	41	23	20	17	16	14	12	8	5	1
-13.0	54	29	21	19	17	15	13	11	8	5	1
-15.0	34	23	20	18	16	14	12	10	7	4	1
-17.0	23	20	18	17	15	13	12	10	7	4	1
-19.5	19	18	17	15	14	12	11	9	6	4	1
-22.5	17	16	15	14	12	11	10	8	6	3	1
-25.5	15	14	13	12	10	9	8	7	5	3	1
-29.0	12	11	10	9	8	8	7	6	4	2	1
-33.0	9	8	7	7	6	6	5	4	3	2	1
-37.5	5	5	4	4	4	3	3	3	2	1	1
42.5	1	1	1	1	1	1	1	1	1	1	1
-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)

### Isocandela Diagram (Percent of Maximum Intensity)



- |                 |                |                |                |                |
|-----------------|----------------|----------------|----------------|----------------|
| — 1080 cd (90%) | — 960 cd (80%) | — 840 cd (70%) | — 720 cd (60%) | — 600 cd (50%) |
| — 480 cd (40%)  | — 360 cd (30%) | — 240 cd (20%) | — 120 cd (10%) |                |