



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IES LM-79-2019, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

Project Number
15884175
Test Number
15884175.16

Test Date
2026-01-15

Issue Date
2026-01-26

Prepared By

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Approved By

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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 (spot 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: 453.0 Lumens
Luminaire Efficacy: 47.2 lm/w
Maximum Candela: 2332 Candela

Test Conditions

Test Temperature: 24.9 °C
Voltage: 120.1 VAC
Current: 0.08799 A
Power: 9.597 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

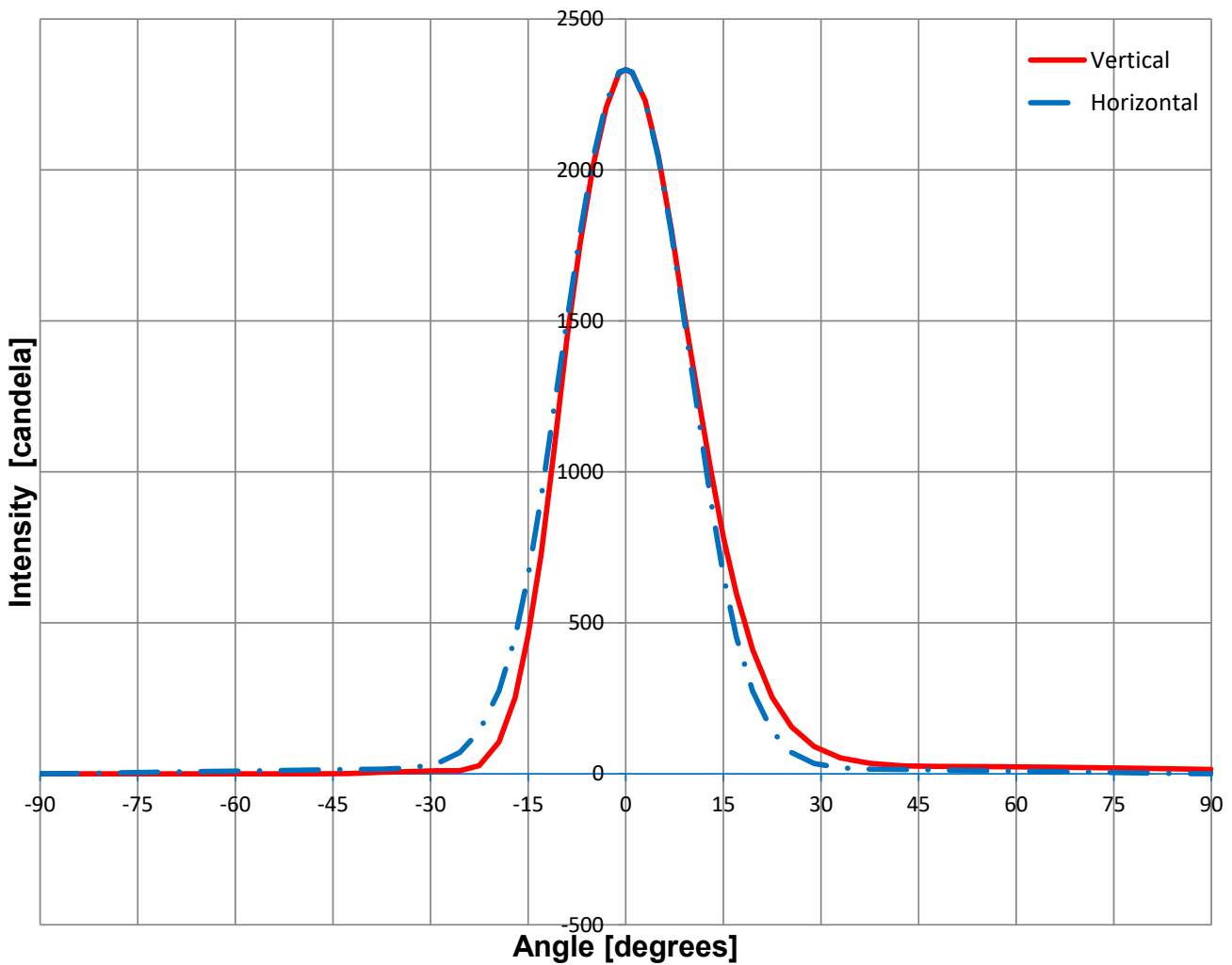
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.1 VAC	0.08799 A	9.597 W	0.908	60 Hz	45.2 %

Summary of Results

Total Lumen Output:	453.0 Lumens	Maximum Candela:	2332.4 Candela
Luminaire Efficacy:	47.2 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	359.0 Lumens	Field Angle :	40.8 H X 40.5 V
Beam Lumens:	206.7 Lumens	Beam Angle :	22.6 H X 22.3 V
Spill Light Lumens:	94.0 Lumens	IESNA Type:	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	16	16	16	16	16	16	16	16	16	15	15
75.0	19	19	19	19	19	19	19	19	19	18	18
65.0	22	22	22	22	22	22	22	21	21	21	21
55.0	24	24	24	24	23	23	23	23	23	23	22
47.5	25	25	25	24	24	24	24	24	23	23	23
42.5	27	27	26	26	26	26	25	25	24	24	23
37.5	35	34	34	33	33	32	30	29	27	26	25
33.0	53	53	52	50	48	45	42	39	36	33	29
29.0	90	90	88	85	80	74	66	59	51	45	38
25.5	155	154	149	141	132	118	105	91	77	64	51
22.5	254	252	243	229	209	184	159	135	112	92	69
19.5	412	409	394	370	332	290	245	202	164	130	94
17.0	596	594	570	536	481	416	348	283	222	171	122
15.0	784	780	750	698	629	545	454	362	278	212	147
13.0	1014	1011	968	893	800	694	574	454	347	258	175
11.0	1267	1258	1209	1118	995	858	705	558	422	308	204
9.0	1525	1511	1450	1339	1193	1020	851	668	500	357	231
7.0	1803	1783	1707	1566	1382	1188	981	770	567	402	256
5.0	2048	2027	1940	1780	1568	1327	1086	853	627	438	273
3.0	2229	2210	2114	1943	1706	1438	1171	912	667	463	284
1.0	2322	2302	2213	2030	1784	1495	1208	928	670	461	281
0.0	2332	2325	2225	2041	1792	1503	1212	916	657	452	274
-1.0	2321	2301	2206	2026	1778	1490	1198	903	641	439	265
-3.0	2208	2204	2105	1933	1693	1420	1134	839	590	404	239
-5.0	2017	2023	1931	1764	1544	1287	998	725	513	354	205
-7.0	1757	1769	1683	1538	1331	1083	825	601	426	286	164
-9.0	1445	1457	1378	1250	1055	842	642	469	328	218	125
-11.0	1070	1082	1020	911	771	616	471	338	233	155	89
-13.0	728	735	699	623	531	419	312	225	155	103	61
-15.0	459	464	443	388	327	257	191	137	95	65	39
-17.0	252	255	247	213	181	144	106	78	55	38	25
-19.5	106	107	102	88	75	61	46	34	26	20	16
-22.5	28	28	27	24	21	18	15	14	13	13	13
-25.5	10	10	10	11	11	11	11	11	11	12	12
-29.0	10	10	10	10	10	10	10	10	10	10	10
-33.0	8	8	8	8	8	8	8	8	8	8	7
-37.5	5	5	5	5	5	5	5	5	4	4	4
-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

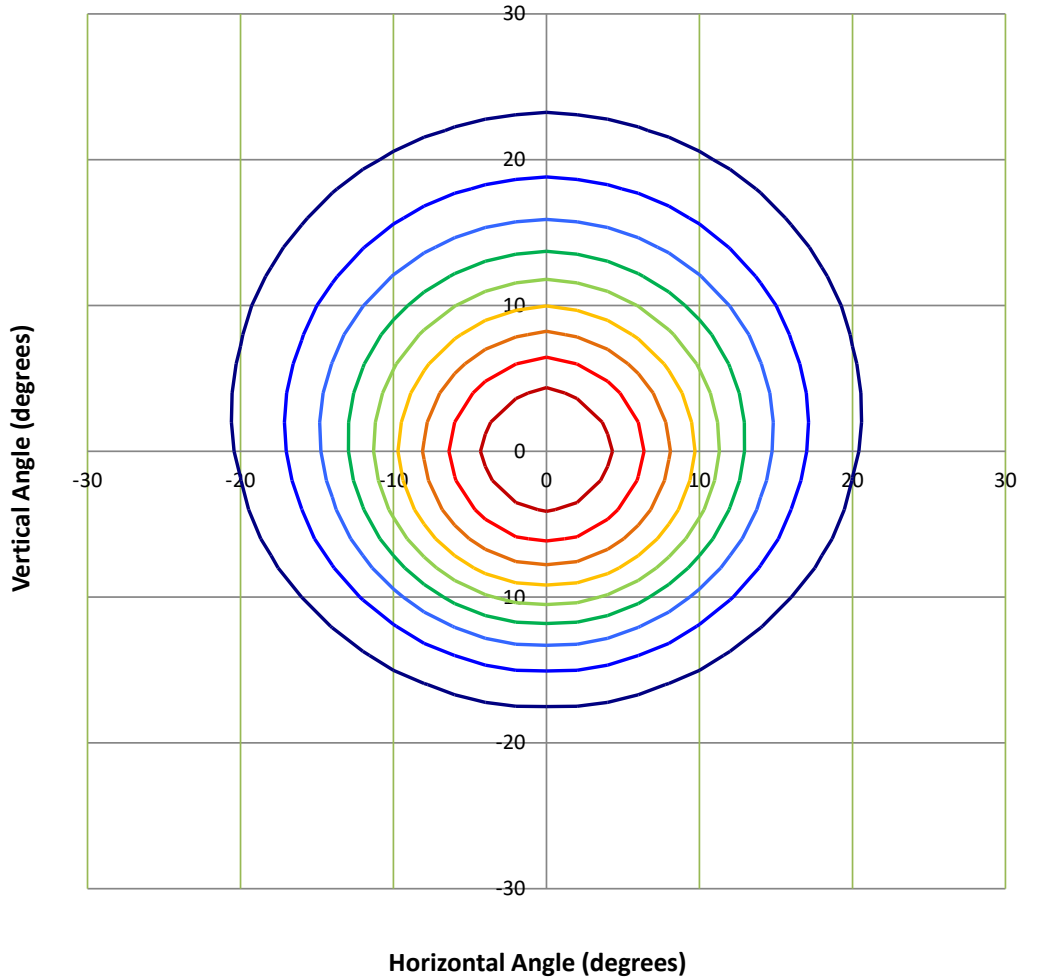
Vertical Angle (Degrees)

Candela Tabulation
Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	15	15	14	14	13	12	11	9	7	4	1
75.0	18	17	17	16	15	14	13	11	8	5	1
65.0	20	20	19	18	17	16	14	12	9	5	2
55.0	22	22	21	20	19	17	16	13	10	6	2
47.5	22	22	21	21	19	18	16	14	10	6	2
42.5	22	22	21	21	20	18	17	14	10	6	2
37.5	23	22	21	20	20	18	17	14	10	6	2
33.0	26	23	21	20	19	18	17	14	10	6	2
29.0	31	26	22	20	19	18	16	14	10	6	2
25.5	39	30	24	20	19	18	16	14	10	6	2
22.5	48	35	25	20	18	17	16	13	10	5	2
19.5	62	42	28	21	18	17	16	13	9	5	2
17.0	76	49	30	21	18	17	16	13	9	5	2
15.0	90	55	32	22	18	17	15	13	9	5	2
13.0	104	61	34	22	17	16	15	12	9	5	1
11.0	118	67	36	22	17	16	15	12	9	5	1
9.0	131	72	37	22	17	16	15	12	8	5	1
7.0	142	76	38	22	17	16	14	12	8	5	1
5.0	148	77	38	22	16	15	14	11	8	5	1
3.0	151	77	37	21	16	15	14	11	8	4	1
1.0	146	73	35	20	16	15	13	11	8	4	1
0.0	141	71	34	20	16	14	13	11	7	4	1
-1.0	134	67	33	19	15	14	13	10	7	4	1
-3.0	119	59	30	18	15	14	12	10	7	4	1
-5.0	101	50	26	17	15	14	12	10	7	4	1
-7.0	82	42	23	16	14	13	11	9	6	4	1
-9.0	62	34	20	15	14	13	11	9	6	3	1
-11.0	46	26	17	15	13	12	10	8	6	3	1
-13.0	33	21	16	14	13	11	10	8	6	3	1
-15.0	23	17	15	13	12	11	9	7	5	3	1
-17.0	17	15	14	13	12	10	9	7	5	3	1
-19.5	14	14	13	12	11	9	8	6	5	2	1
-22.5	13	12	12	11	9	8	7	6	4	2	1
-25.5	11	11	10	9	8	7	6	5	3	2	1
-29.0	9	9	8	7	6	6	5	4	3	1	1
-33.0	7	6	6	5	5	4	4	3	2	1	1
-37.5	4	4	3	3	3	2	2	2	1	1	0
42.5	1	1	1	1	1	1	1	1	1	1	0
-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)



- | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| — 2099 cd (90%) | — 1865 cd (80%) | — 1632 cd (70%) | — 1399 cd (60%) | — 1166 cd (50%) |
| — 932 cd (40%) | — 699 cd (30%) | — 466 cd (20%) | — 233 cd (10%) | |