



UL Solutions
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Allentown, PA 18106
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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IES LM-79-2019, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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-e221-SP-WHP-9-C

Order Number
15885950
Test Number
15885950.03

Test Date

2025-07-08

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 metal cylindrical housing with a clear lens cap
Lamp: One LED Array
Mounting: Pendant
Ballast/Driver: PowerSelect PS20B60M

Luminaire



Luminaire Characteristics

Luminous Diameter: 1.75 in.

Summary of Results

Total Luminaire Output: 401.8 Lumens
 Luminaire Efficacy: 48.9 lm/w
 Maximum Candela: 1815 Candela

Test Conditions

Test Temperature: 24.8 °C
 Voltage: 120.0 VAC
 Current: 0.1792 A
 Power: 8.213 W
 Power Factor: 0.382
 Frequency: 60 Hz
 Current THD: 80.9 %

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

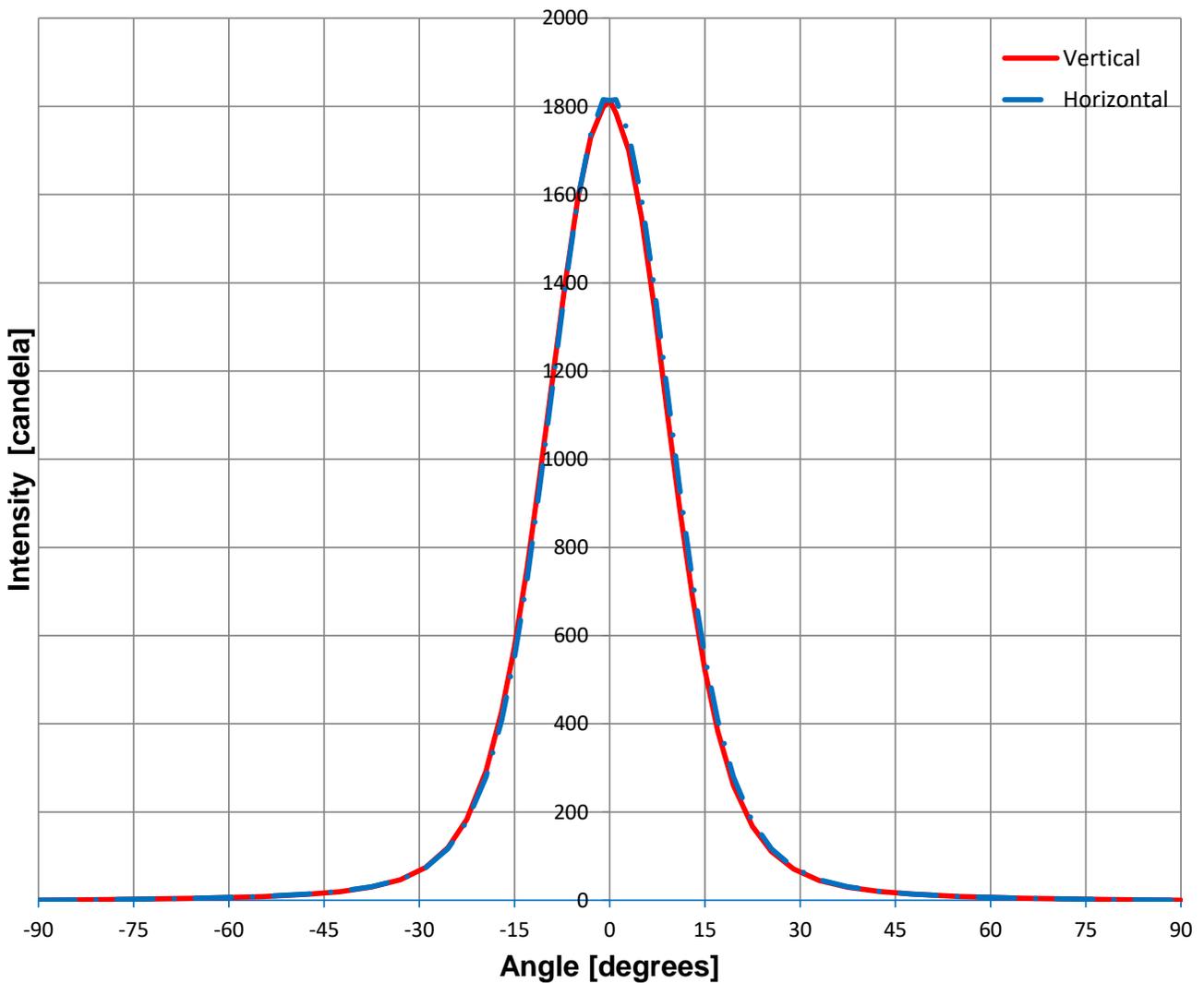
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.0 VAC	0.1792 A	8.213 W	0.382	60 Hz	80.9 %

Summary of Results

Total Lumen Output:	401.8 Lumens	Maximum Candela:	1815.3 Candela
Luminaire Efficacy:	48.9 Lumens/Watt	Maximum Angle:	-1 H 0 V
Field Lumens:	306.4 Lumens	Field Angle :	44.8 H X 44.7 V
Beam Lumens:	160.4 Lumens	Beam Angle :	22.6 H X 22.3 V
Spill Light Lumens:	95.4 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	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	5	4	4	4	4	4	4	4	4	4	4
55.0	9	8	8	8	8	8	8	8	8	7	7
47.5	14	14	14	13	13	13	13	13	12	12	11
42.5	20	20	19	19	19	18	18	17	17	16	15
37.5	29	29	28	28	27	27	26	25	24	22	21
33.0	45	44	43	42	41	39	38	36	34	31	28
29.0	70	69	67	65	62	59	56	53	49	45	41
25.5	110	108	104	100	95	89	83	76	69	62	55
22.5	167	163	156	149	140	129	117	105	94	83	71
19.5	261	254	242	227	211	191	169	149	129	111	91
17.0	384	370	353	329	301	266	232	199	168	141	113
15.0	521	499	476	441	399	348	299	250	206	170	133
13.0	692	662	631	584	520	454	380	311	253	205	155
11.0	891	852	815	752	671	576	474	383	308	241	179
9.0	1115	1073	1024	942	835	707	583	467	364	281	204
7.0	1344	1299	1244	1144	1001	849	692	546	422	322	228
5.0	1548	1508	1445	1325	1168	977	792	624	476	359	249
3.0	1700	1672	1609	1478	1292	1084	874	682	517	386	265
1.0	1785	1780	1715	1570	1371	1147	924	722	547	406	277
0.0	1814	1815	1737	1591	1390	1164	937	729	552	409	280
-1.0	1799	1807	1737	1592	1389	1159	931	726	550	408	279
-3.0	1730	1740	1677	1539	1345	1128	912	712	540	401	272
-5.0	1593	1611	1549	1423	1246	1054	849	663	505	378	260
-7.0	1400	1428	1372	1259	1113	935	761	602	459	345	239
-9.0	1181	1213	1166	1076	947	803	656	519	404	306	216
-11.0	961	990	957	882	778	664	548	436	342	265	191
-13.0	756	776	756	696	622	532	441	358	283	223	165
-15.0	575	592	579	536	482	416	350	288	233	186	140
-17.0	429	440	433	403	364	320	273	228	188	154	118
-19.5	293	299	296	278	253	228	198	169	143	120	95
-22.5	184	188	188	178	165	150	134	118	103	88	73
-25.5	119	121	122	117	110	101	93	83	74	65	55
-29.0	74	76	77	74	71	66	62	57	52	47	41
-33.0	46	47	48	47	45	43	41	38	36	33	30
-37.5	30	30	31	30	29	29	27	26	25	24	22
-42.5	19	20	20	20	19	19	18	18	17	16	15
-47.5	13	13	14	14	13	13	13	13	12	12	11
-55.0	8	8	8	8	8	8	8	8	8	7	7
-65.0	4	5	5	5	5	4	4	4	4	4	4
-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	1	1	1	1	0	0	0	0	0
75.0	2	2	2	2	2	2	1	1	1	1	0
65.0	4	4	4	3	3	3	2	2	1	1	0
55.0	7	6	6	6	5	4	4	3	2	1	0
47.5	11	10	9	8	7	6	5	4	3	1	0
42.5	14	13	12	10	9	7	6	4	3	2	1
37.5	19	17	15	13	11	9	7	5	3	2	1
33.0	25	22	19	16	13	10	8	6	3	2	1
29.0	34	28	24	19	15	12	9	6	4	2	1
25.5	46	37	29	23	17	13	10	6	4	2	1
22.5	57	47	35	26	19	14	11	7	4	2	1
19.5	72	57	42	29	21	15	11	7	4	2	1
17.0	86	65	48	33	23	16	12	7	4	2	1
15.0	98	73	52	36	24	17	12	8	4	2	1
13.0	111	81	56	38	26	18	13	8	4	2	1
11.0	125	89	61	40	27	18	13	8	4	2	1
9.0	139	96	64	42	28	19	13	8	4	2	1
7.0	152	103	67	44	29	19	14	8	4	2	1
5.0	162	108	70	45	29	20	14	8	4	2	1
3.0	171	113	72	46	30	20	14	8	5	2	1
1.0	177	116	73	47	30	20	14	8	5	2	1
0.0	178	116	74	47	30	20	14	8	5	2	1
-1.0	177	116	73	47	30	20	14	8	5	2	1
-3.0	173	114	72	46	30	20	14	8	5	2	1
-5.0	166	110	71	45	30	20	14	8	5	2	1
-7.0	157	105	68	44	29	19	14	8	4	2	1
-9.0	143	97	64	42	28	19	13	8	4	2	1
-11.0	129	89	60	40	27	19	13	8	4	2	1
-13.0	115	81	55	38	26	18	13	8	4	2	1
-15.0	100	73	51	35	25	17	12	8	4	2	1
-17.0	87	65	46	33	23	16	12	8	4	2	1
-19.5	72	55	41	30	22	16	11	7	4	2	1
-22.5	57	45	35	27	20	14	11	7	4	2	1
-25.5	45	37	30	23	18	13	10	7	4	2	1
-29.0	35	30	25	20	15	12	9	6	4	2	1
-33.0	27	23	20	16	13	10	8	6	3	2	1
-37.5	20	18	15	13	11	9	7	5	3	2	1
-42.5	14	13	12	10	9	7	6	5	3	2	1
-47.5	11	10	9	8	7	6	5	4	3	1	0
-55.0	7	7	6	6	5	5	4	3	2	1	0
-65.0	4	4	4	3	3	3	3	2	1	1	0
-75.0	2	2	2	2	2	2	1	1	1	1	0
-85.0	1	1	1	1	1	0	0	0	0	0	0

Vertical Angle (Degrees)

Isocandela Diagram (Percent of Maximum Intensity)

