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IES LM-79-2019, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

Order Number
15885950
Test Number
15885950.02

Test Date

2025-07-08

Prepared By

Bhavik Shah, Operations Leader

Approved By

Shivani Vyas, Engineering Project Handler

The results contained in this report pertain only to the tested sample.
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NVLAP, NIST, or any agency of the Federal Government.

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: 463.5 Lumens
 Luminaire Efficacy: 56.4 lm/w
 Maximum Candela: 7717 Candela

Test Conditions

Test Temperature: 24.7 °C
 Voltage: 120.0 VAC
 Current: 0.1792 A
 Power: 8.214 W
 Power Factor: 0.382
 Frequency: 60 Hz
 Current THD: 81.0 %

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

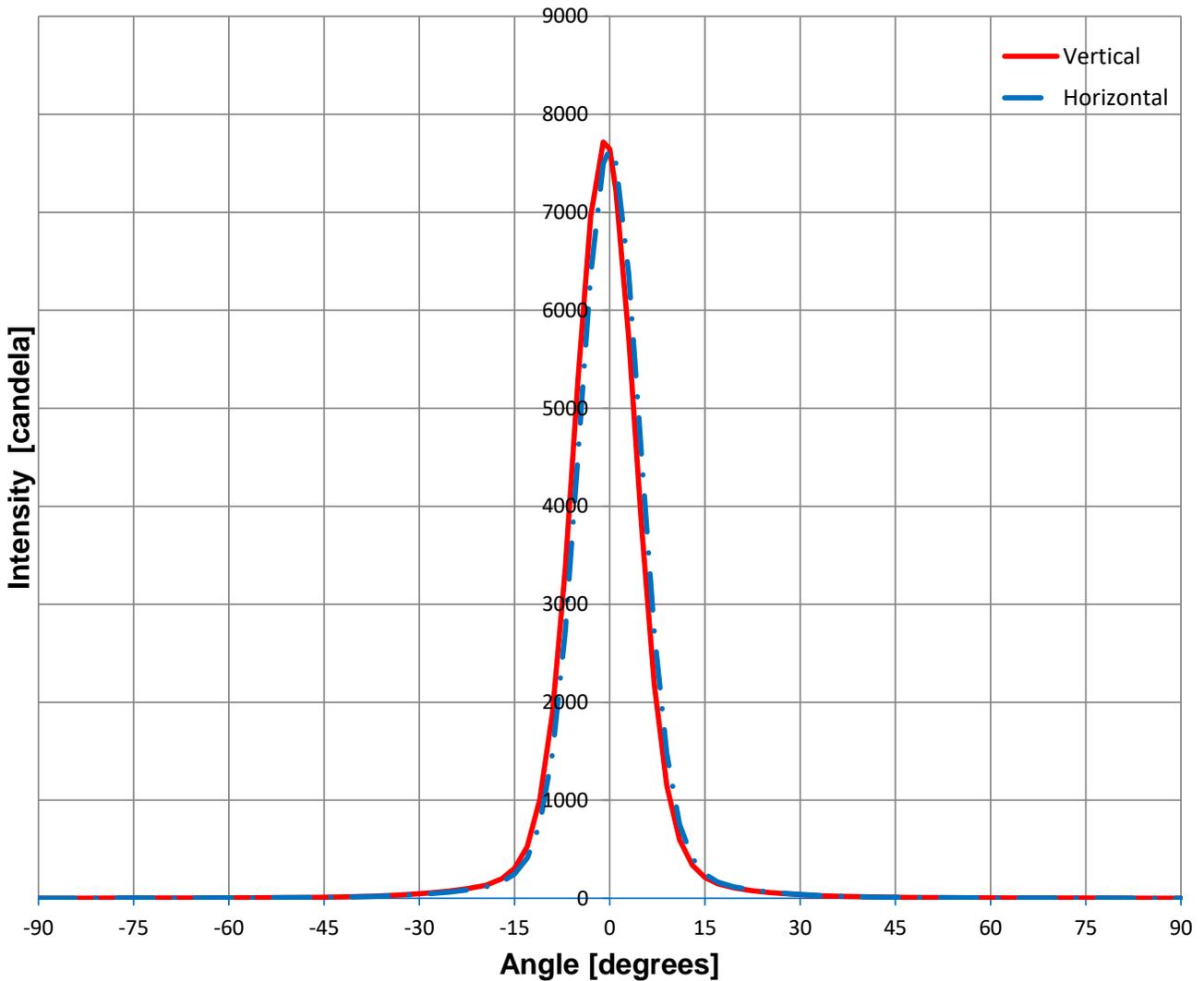
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.1792 A	8.214 W	0.382	60 Hz	81.0 %

Summary of Results

Total Lumen Output:	463.5 Lumens	Maximum Candela:	7717.5 Candela
Luminaire Efficacy:	56.4 Lumens/Watt	Maximum Angle:	0 H -1 V
Field Lumens:	331.6 Lumens	Field Angle :	21.9 H X 22.4 V
Beam Lumens:	178.6 Lumens	Beam Angle :	11.6 H X 11.4 V
Spill Light Lumens:	131.9 Lumens	IESNA Type:	2 H X 2 V

Maximum Candlepower Plot



Candela Tabulation
Lateral Angle (Degrees)

	0	1	3	5	7	9	11	13	15	17	19.5
85.0	0	0	0	0	0	0	0	0	0	0	0
75.0	1	1	1	1	1	1	1	1	1	1	1
65.0	2	2	2	2	2	2	2	2	2	2	2
55.0	4	4	4	4	4	4	4	4	4	4	4
47.5	8	8	8	8	7	7	7	7	7	6	6
42.5	11	11	11	11	11	10	10	10	9	9	8
37.5	18	17	17	17	16	16	15	14	14	13	12
33.0	26	26	25	25	24	23	22	21	20	18	16
29.0	40	39	38	37	35	34	32	30	27	25	22
25.5	56	55	54	52	51	48	45	41	37	34	29
22.5	77	76	74	71	68	64	59	54	49	43	37
19.5	107	105	102	98	93	87	79	71	63	56	47
17.0	148	145	140	132	123	112	100	89	78	68	56
15.0	212	206	196	180	160	139	122	106	92	79	64
13.0	338	325	304	265	223	183	151	126	106	90	73
11.0	600	572	517	427	333	256	195	152	124	102	82
9.0	1152	1093	963	751	545	373	262	191	145	115	90
7.0	2183	2070	1802	1356	898	573	356	239	170	129	98
5.0	3805	3620	3099	2250	1462	838	480	298	198	143	105
3.0	5719	5485	4692	3345	2075	1165	622	355	225	157	112
1.0	7215	7045	5998	4272	2600	1403	723	396	242	165	115
0.0	7646	7497	6367	4519	2720	1476	756	409	247	166	116
-1.0	7717	7615	6473	4593	2758	1473	759	412	249	167	116
-3.0	6963	6939	5899	4197	2529	1390	728	401	245	165	115
-5.0	5291	5314	4528	3224	1988	1126	599	350	223	156	111
-7.0	3360	3436	2949	2145	1374	807	468	293	196	142	105
-9.0	1893	1954	1715	1293	866	551	351	235	169	128	97
-11.0	1007	1037	923	722	518	361	259	187	144	114	90
-13.0	528	539	498	412	328	250	191	152	123	102	81
-15.0	307	310	292	257	219	181	150	126	107	91	73
-17.0	198	199	191	176	158	139	122	107	93	80	65
-19.5	134	134	130	124	118	109	100	89	79	68	55
-22.5	97	97	96	93	90	85	78	71	63	55	45
-25.5	73	73	72	70	67	64	60	55	50	44	37
-29.0	51	51	51	50	49	47	44	41	37	33	27
-33.0	34	34	34	34	33	31	29	26	23	21	18
-37.5	19	19	19	19	18	17	17	16	15	14	13
-42.5	12	12	12	11	11	11	11	10	10	9	9
-47.5	8	8	8	8	8	7	7	7	7	6	6
-55.0	4	4	4	4	4	4	4	4	4	4	4
-65.0	2	2	2	2	2	2	2	2	2	2	2
-75.0	1	1	1	1	1	1	1	1	1	1	1
-85.0	0	0	0	0	0	0	0	0	0	0	0

Vertical Angle (Degrees)

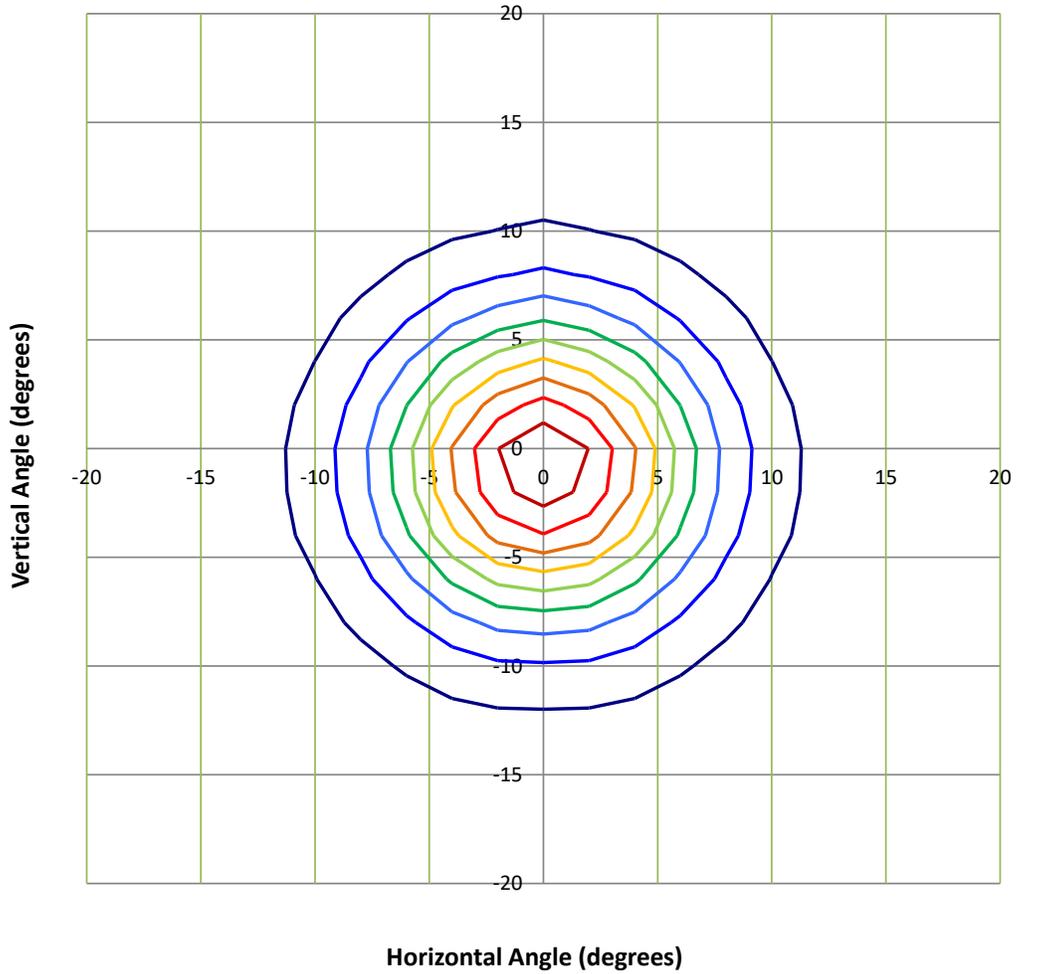


Candela Tabulation
Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	0	0	0	0	0	0	0	0	0	0	0
75.0	1	1	1	1	1	1	1	1	0	0	0
65.0	2	2	2	2	2	2	1	1	1	0	0
55.0	3	3	3	3	2	2	2	2	1	1	0
47.5	6	5	5	4	3	3	2	2	1	1	0
42.5	8	7	6	5	4	3	3	2	2	1	0
37.5	11	10	8	7	6	4	3	2	2	1	0
33.0	14	13	11	9	7	5	4	3	2	1	0
29.0	19	16	13	11	8	6	4	3	2	1	0
25.5	25	20	16	13	10	7	5	3	2	1	0
22.5	30	25	19	14	11	8	5	3	2	1	0
19.5	37	29	23	17	12	8	6	3	2	1	0
17.0	44	34	26	19	13	9	6	3	2	1	0
15.0	50	38	28	20	14	9	6	4	2	1	0
13.0	56	43	31	22	15	10	7	4	2	1	0
11.0	62	47	33	23	15	10	7	4	2	1	0
9.0	68	51	36	24	16	10	7	4	2	1	0
7.0	73	54	38	26	17	11	7	4	2	1	0
5.0	77	57	40	27	17	11	7	4	2	1	0
3.0	81	59	42	27	18	11	7	4	2	1	0
1.0	83	61	42	28	18	11	8	4	2	1	0
0.0	83	61	43	28	18	11	8	4	2	1	0
-1.0	83	61	43	28	18	11	8	4	2	1	0
-3.0	83	61	42	28	18	11	7	4	2	1	0
-5.0	80	59	41	27	18	11	7	4	2	1	0
-7.0	77	57	40	26	17	11	7	4	2	1	0
-9.0	72	53	38	25	17	11	7	4	2	1	0
-11.0	67	50	35	24	16	10	7	4	2	1	0
-13.0	61	46	33	23	15	10	7	4	2	1	0
-15.0	55	42	30	21	14	10	6	4	2	1	0
-17.0	50	38	28	20	13	9	6	3	2	1	0
-19.5	43	33	25	18	12	9	6	3	2	1	0
-22.5	36	28	21	15	11	8	5	3	2	1	0
-25.5	29	23	18	13	10	7	5	3	2	1	0
-29.0	22	18	14	11	9	6	4	3	2	1	0
-33.0	16	13	11	9	7	5	4	2	2	1	0
-37.5	11	10	9	7	6	4	3	2	2	1	0
42.5	8	7	6	5	4	3	3	2	2	1	0
-47.5	6	5	5	4	3	3	2	2	1	1	0
-55.0	3	3	3	3	2	2	2	2	1	1	0
-65.0	2	2	2	2	2	1	1	1	1	0	0
-75.0	1	1	1	1	1	1	1	1	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)



- 6945 cd (90%)
- 6173 cd (80%)
- 5402 cd (70%)
- 4630 cd (60%)
- 3858 cd (50%)
- 3086 cd (40%)
- 2315 cd (30%)
- 1543 cd (20%)
- 771 cd (10%)