



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IES LM-79-2019, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

Order Number
15885950
Test Number
15885950.05

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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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: 411.2 Lumens
 Luminaire Efficacy: 50.1 lm/w
 Maximum Candela: 443 Candela

Test Conditions

Test Temperature: 24.7 °C
 Voltage: 120.0 VAC
 Current: 0.1792 A
 Power: 8.211 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

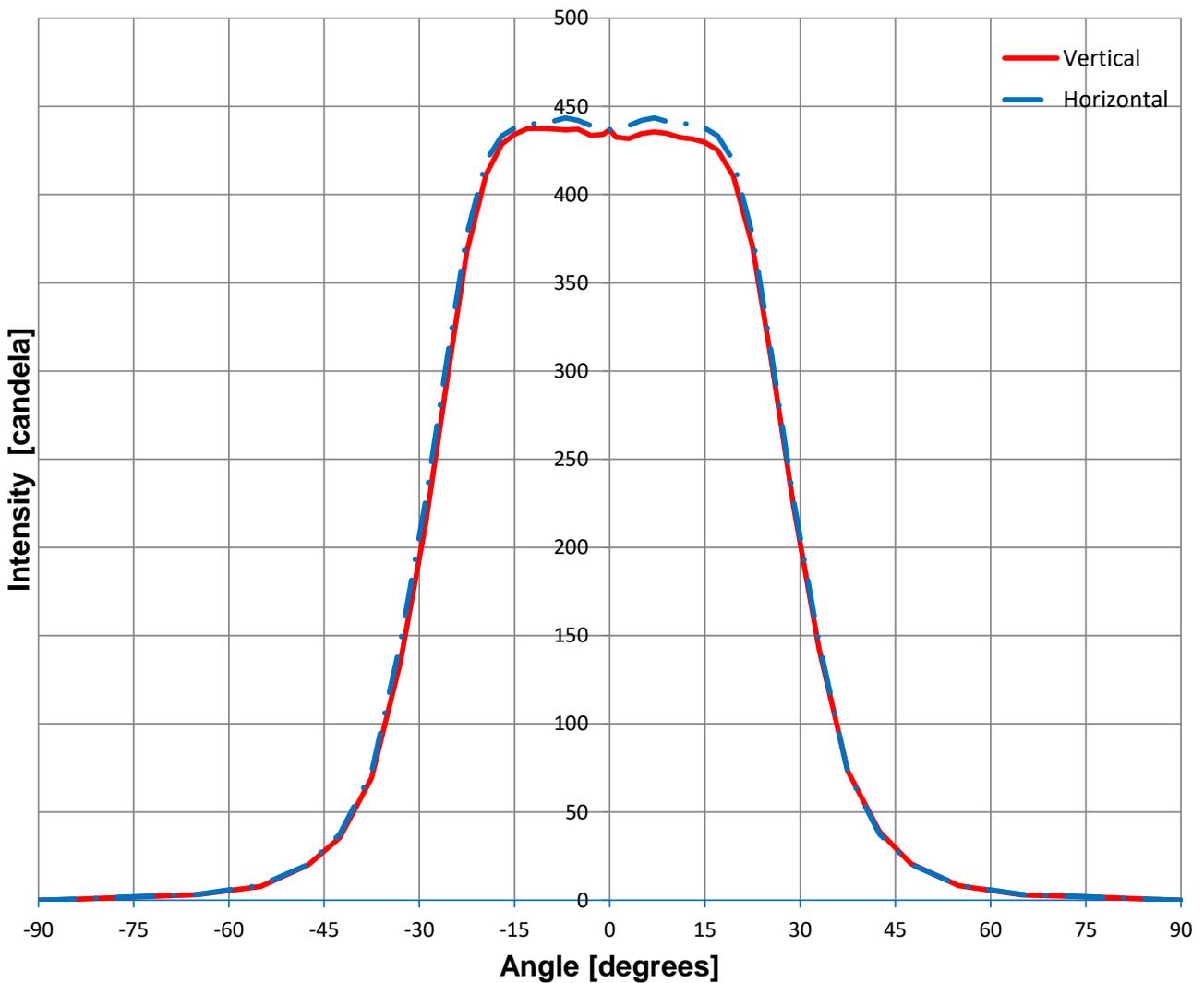
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.1792 A	8.211 W	0.382	60 Hz	81.0 %

Summary of Results

Total Lumen Output:	411.2 Lumens	Maximum Candela:	443.5 Candela
Luminaire Efficacy:	50.1 Lumens/Watt	Maximum Angle:	-7 H 0 V
Field Lumens:	378.7 Lumens	Field Angle :	83.0 H X 81.8 V
Beam Lumens:	290.5 Lumens	Beam Angle :	58.5 H X 56.2 V
Spill Light Lumens:	32.5 Lumens	IESNA Type:	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	0	0	0	0	0	0	0	0	0	0
75.0	2	2	2	2	2	2	2	2	2	2	2
65.0	3	3	3	3	3	3	3	3	3	3	3
55.0	8	8	8	8	8	7	7	7	7	7	6
47.5	21	20	20	19	19	18	18	17	16	15	14
42.5	39	38	37	36	35	34	32	30	29	27	25
37.5	73	71	67	65	63	60	57	53	50	46	42
33.0	142	139	131	128	122	115	107	97	87	77	66
29.0	223	219	211	206	199	189	176	163	148	131	109
25.5	306	301	292	286	275	262	245	227	208	188	162
22.5	371	368	362	355	345	331	312	290	266	240	206
19.5	410	410	409	404	398	386	371	352	326	295	254
17.0	425	425	425	424	420	415	406	390	367	339	296
15.0	430	431	430	430	430	427	421	411	394	369	326
13.0	432	432	433	434	434	432	430	424	412	392	353
11.0	432	432	434	435	435	436	434	431	423	408	375
9.0	435	433	435	436	437	438	437	434	429	418	391
7.0	436	436	436	437	438	438	439	436	433	424	402
5.0	435	436	437	437	438	439	438	437	434	429	411
3.0	432	433	438	439	440	439	439	439	437	432	417
1.0	433	436	439	441	443	440	440	440	438	434	419
0.0	437	438	439	442	443	441	441	440	438	433	419
-1.0	434	437	440	442	443	440	440	441	437	432	418
-3.0	434	436	439	441	442	441	440	440	437	430	415
-5.0	437	437	440	440	441	440	440	440	437	430	411
-7.0	437	438	439	439	440	440	441	438	434	427	405
-9.0	437	438	439	439	439	440	438	436	431	421	395
-11.0	437	437	438	439	440	438	436	433	426	412	380
-13.0	437	438	438	438	436	434	431	425	416	396	359
-15.0	434	434	435	434	433	429	424	414	399	375	333
-17.0	429	427	428	426	423	419	410	395	374	346	303
-19.5	411	411	411	408	402	392	378	358	332	302	261
-22.5	368	370	369	363	352	339	320	297	273	244	211
-25.5	298	301	301	293	283	269	252	232	212	193	166
-29.0	213	216	218	213	205	195	183	169	153	137	115
-33.0	135	137	139	136	130	122	113	103	92	81	69
-37.5	69	70	71	70	67	62	58	54	50	46	41
-42.5	36	36	36	36	35	34	32	31	29	28	25
-47.5	20	20	20	20	20	19	18	18	17	16	15
-55.0	8	8	8	8	8	8	8	7	7	7	6
-65.0	3	3	3	3	3	3	3	3	3	3	3
-75.0	2	2	2	2	2	2	2	2	2	2	2
-85.0	0	0	0	1	0	0	0	0	0	0	0

Vertical Angle (Degrees)

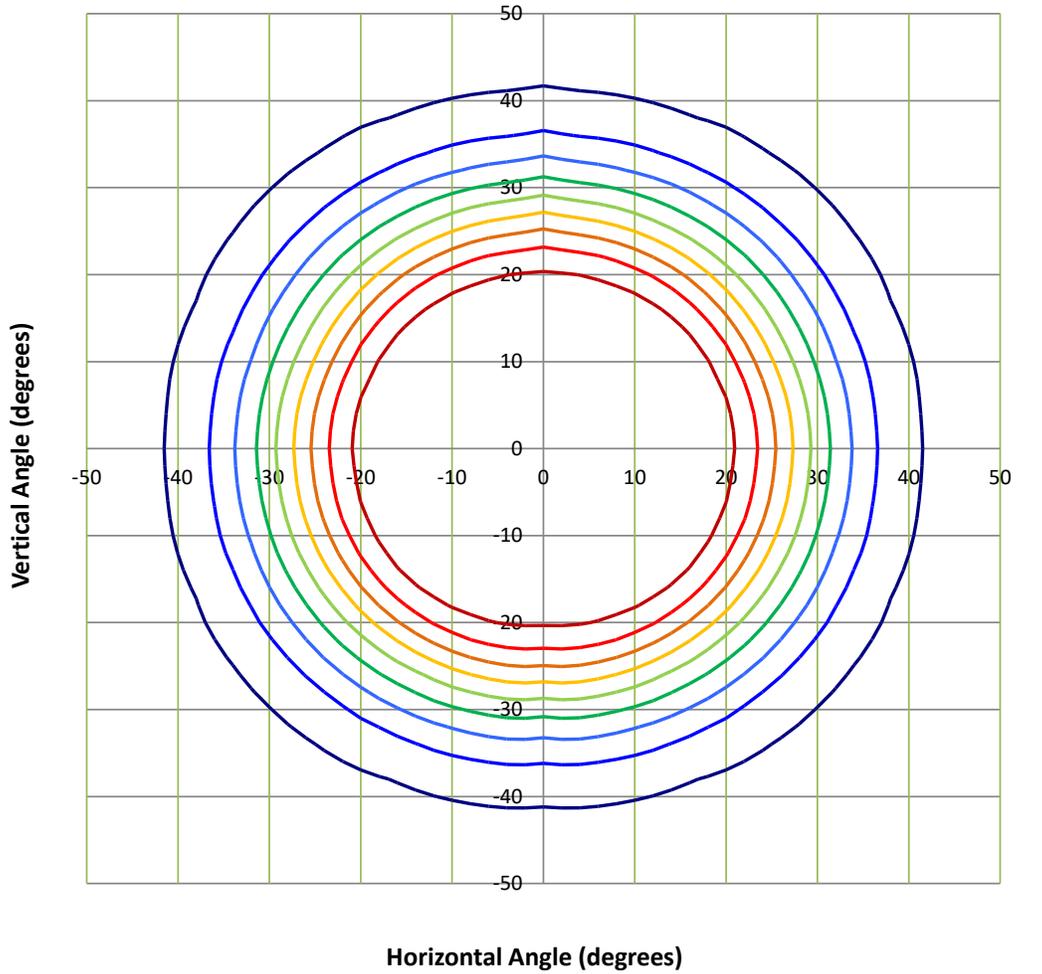


Candela Tabulation
Lateral Angle (Degrees)

	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	2	2	2	2	1	1	1	1	1	0	0
65.0	3	3	3	2	2	2	2	2	1	1	0
55.0	6	5	5	4	3	3	3	2	2	1	0
47.5	13	11	10	8	6	5	4	3	2	1	0
42.5	22	19	16	13	9	6	5	3	2	1	0
37.5	36	31	25	19	14	9	6	4	2	1	0
33.0	55	45	36	27	19	12	8	4	3	2	0
29.0	85	66	50	36	25	16	10	5	3	2	0
25.5	127	95	66	46	31	19	11	5	3	2	0
22.5	168	128	86	55	36	22	13	6	3	2	0
19.5	207	162	111	68	41	25	14	7	3	2	0
17.0	240	189	133	80	46	28	16	7	3	2	1
15.0	267	210	151	90	50	30	17	7	3	2	1
13.0	292	230	167	101	54	31	17	7	3	2	1
11.0	316	250	181	111	58	33	18	8	3	2	1
9.0	335	267	195	122	63	35	19	8	3	2	1
7.0	351	284	206	131	66	35	19	8	3	2	1
5.0	365	297	216	137	69	36	20	8	3	2	1
3.0	373	305	223	141	71	37	20	8	3	2	1
1.0	377	309	226	145	72	37	20	8	3	2	1
0.0	377	310	226	145	73	37	20	8	3	2	1
-1.0	376	309	225	145	72	37	20	8	3	2	1
-3.0	372	304	222	142	71	37	20	8	3	2	1
-5.0	366	298	217	138	69	36	20	8	3	2	1
-7.0	355	287	208	132	66	35	19	8	3	2	1
-9.0	340	273	198	125	63	34	19	8	3	2	1
-11.0	322	256	186	115	59	33	18	8	3	2	1
-13.0	300	236	172	104	55	31	17	8	3	2	1
-15.0	274	216	156	93	51	30	17	7	3	2	1
-17.0	245	195	139	82	47	28	16	7	3	2	1
-19.5	213	167	116	69	42	25	15	7	3	2	0
-22.5	173	133	89	56	36	22	13	6	3	2	0
-25.5	133	99	67	46	31	19	12	6	3	2	0
-29.0	88	67	50	36	25	16	10	5	3	2	0
-33.0	56	46	37	28	20	13	8	4	3	2	0
-37.5	36	31	25	20	14	9	6	4	2	1	0
42.5	22	20	16	13	9	7	5	3	2	1	0
-47.5	13	12	10	8	6	5	4	3	2	1	0
-55.0	6	5	5	4	4	3	3	2	2	1	0
-65.0	3	3	3	3	2	2	2	2	1	1	0
-75.0	2	2	2	2	1	1	1	1	1	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0

Vertical Angle (Degrees)

Isocandela Diagram (Percent of Maximum Intensity)



- | | | | | |
|----------------|----------------|----------------|----------------|----------------|
| — 399 cd (90%) | — 354 cd (80%) | — 310 cd (70%) | — 266 cd (60%) | — 221 cd (50%) |
| — 177 cd (40%) | — 133 cd (30%) | — 88 cd (20%) | — 44 cd (10%) | |