



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IES LM-79-2019, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

Order Number
15885950
Test Number
15885950.04

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: 390.7 Lumens
Luminaire Efficacy: 47.6 lm/w
Maximum Candela: 903 Candela

Test Conditions

Test Temperature: 24.9 °C
Voltage: 120.0 VAC
Current: 0.1791 A
Power: 8.212 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

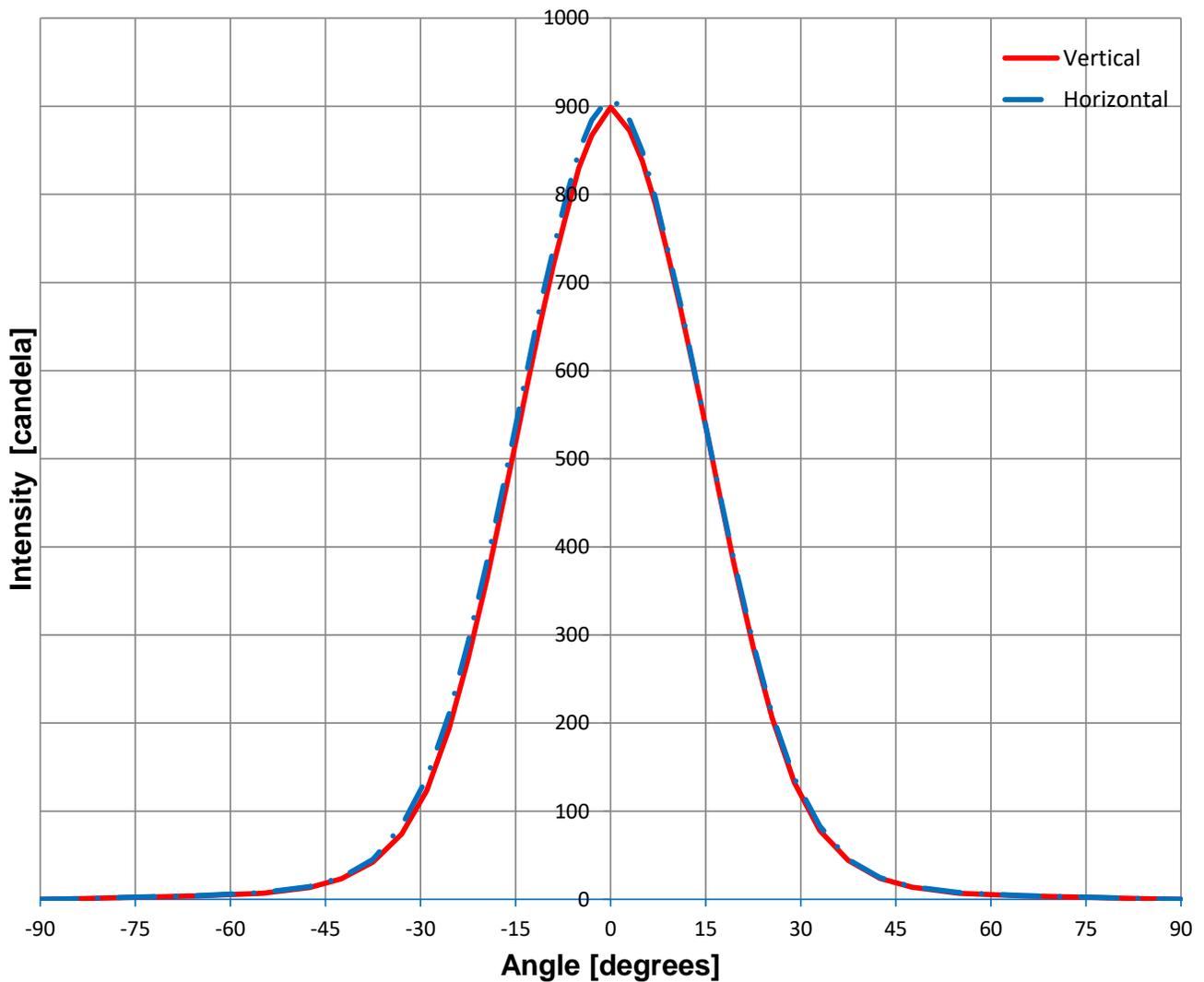
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.1791 A	8.212 W	0.382	60 Hz	81.0 %

Summary of Results

Total Lumen Output:	390.7 Lumens	Maximum Candela:	903.1 Candela
Luminaire Efficacy:	47.6 Lumens/Watt	Maximum Angle:	-1 H 0 V
Field Lumens:	332.2 Lumens	Field Angle :	65.0 H X 63.8 V
Beam Lumens:	184.4 Lumens	Beam Angle :	34.9 H X 34.3 V
Spill Light Lumens:	58.5 Lumens	IESNA Type:	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	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	4	4	4	4	4	4	4	4	4	4	4
55.0	7	7	7	7	7	7	6	6	6	6	6
47.5	14	14	13	13	13	13	12	12	11	11	10
42.5	24	24	23	22	22	21	20	19	18	17	16
37.5	44	44	42	41	40	39	36	34	32	29	26
33.0	78	77	74	72	70	66	62	57	53	48	42
29.0	133	131	126	121	116	109	100	92	83	74	63
25.5	206	203	196	189	181	167	153	139	123	108	90
22.5	287	283	275	267	254	236	216	195	172	148	122
19.5	380	376	368	358	338	316	291	261	229	199	163
17.0	466	460	451	438	415	389	357	321	284	248	201
15.0	537	528	519	502	478	448	411	371	330	286	234
13.0	605	595	588	568	542	506	464	421	372	325	266
11.0	671	661	654	631	602	560	517	466	414	362	297
9.0	733	723	712	692	656	614	563	508	452	395	325
7.0	790	781	767	741	707	658	605	545	484	423	348
5.0	838	831	819	789	745	697	637	574	509	444	366
3.0	872	869	858	826	777	721	660	595	527	460	377
1.0	890	894	881	846	795	735	672	605	535	466	383
0.0	899	903	884	849	797	738	677	607	537	467	384
-1.0	888	893	881	846	795	737	676	607	537	467	383
-3.0	867	868	856	825	777	724	663	596	527	458	376
-5.0	830	832	818	788	747	697	640	576	508	441	361
-7.0	777	783	768	743	706	660	605	544	481	419	343
-9.0	720	725	714	692	659	613	563	507	446	388	318
-11.0	656	665	652	632	601	562	512	462	411	354	289
-13.0	589	596	584	566	538	503	461	413	367	318	259
-15.0	518	524	515	499	474	442	406	365	321	279	227
-17.0	449	453	446	432	410	382	351	315	277	239	195
-19.5	364	368	363	350	334	309	284	254	225	194	157
-22.5	272	275	272	262	248	230	211	189	167	145	119
-25.5	193	196	195	186	177	165	151	136	121	106	89
-29.0	123	125	126	120	115	108	100	91	82	73	62
-33.0	74	75	75	73	70	66	62	57	52	47	42
-37.5	42	42	43	42	40	39	37	35	32	30	27
-42.5	23	23	24	23	22	22	21	20	19	18	16
-47.5	13	13	14	13	13	13	13	12	12	11	10
-55.0	7	7	7	7	7	7	7	6	6	6	6
-65.0	4	4	4	4	4	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)

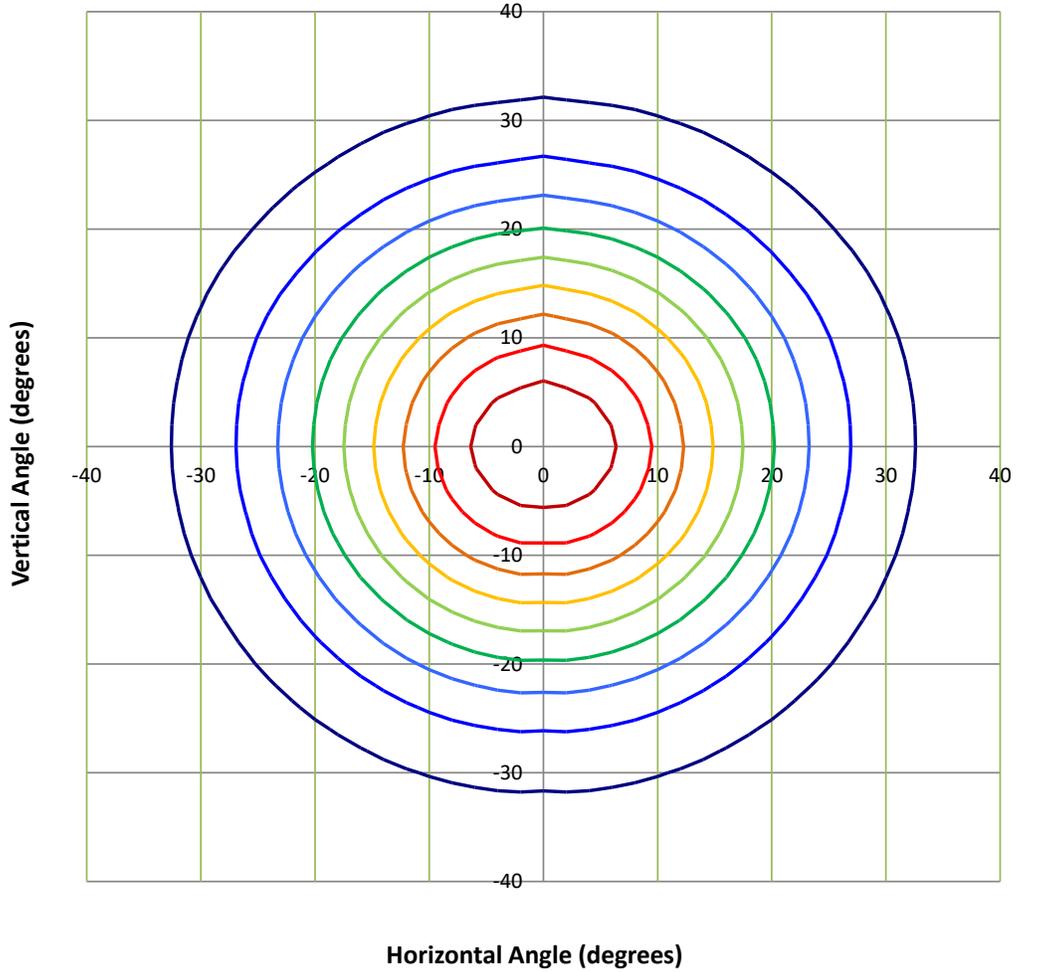


Candela Tabulation
Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	1	0	0	0	0	0	0	0	0	0	0
75.0	2	2	2	2	2	2	1	1	1	0	0
65.0	4	4	3	3	3	3	3	2	1	1	0
55.0	5	5	5	5	4	4	4	3	2	1	0
47.5	9	9	8	7	6	5	5	4	3	1	0
42.5	14	13	11	9	8	6	5	4	3	2	0
37.5	22	19	16	13	10	8	6	5	3	2	0
33.0	35	29	23	17	13	9	7	5	3	2	1
29.0	51	42	32	23	16	11	8	5	4	2	1
25.5	72	56	42	29	20	13	9	6	4	2	1
22.5	95	72	52	36	23	15	10	6	4	2	1
19.5	124	92	66	43	27	17	11	6	4	2	1
17.0	151	113	78	50	30	18	12	7	4	2	1
15.0	177	130	88	55	33	19	12	7	4	2	1
13.0	202	147	99	61	36	20	13	7	4	2	1
11.0	226	164	109	67	38	22	13	7	4	2	1
9.0	246	178	118	72	40	23	14	7	4	2	1
7.0	264	191	126	77	42	23	14	7	4	2	1
5.0	277	201	132	80	44	24	14	7	4	2	1
3.0	286	207	136	82	45	24	14	8	4	2	1
1.0	291	210	138	83	45	25	14	8	4	2	1
0.0	291	210	138	83	45	25	14	8	4	2	1
-1.0	291	210	137	83	45	25	15	8	4	2	1
-3.0	285	206	135	82	45	25	14	8	4	2	1
-5.0	273	197	130	79	44	24	14	8	4	2	1
-7.0	259	186	123	75	42	23	14	7	4	2	1
-9.0	240	173	114	70	40	23	14	7	4	2	1
-11.0	217	157	105	65	38	22	13	7	4	2	1
-13.0	193	140	95	60	36	21	13	7	4	2	1
-15.0	170	123	85	55	33	20	12	7	4	2	1
-17.0	147	108	75	49	31	18	12	7	4	2	1
-19.5	120	90	64	43	27	17	11	6	4	2	1
-22.5	92	71	52	36	23	15	10	6	4	2	1
-25.5	70	55	42	30	20	13	9	6	4	2	1
-29.0	51	41	32	23	16	11	8	6	4	2	1
-33.0	35	29	23	18	13	10	7	5	4	2	1
-37.5	23	20	16	13	10	8	6	5	3	2	0
42.5	14	13	11	9	8	6	5	4	3	2	0
-47.5	10	9	8	7	6	5	5	4	3	1	0
-55.0	6	5	5	5	5	4	4	3	2	1	0
-65.0	4	4	4	4	3	3	3	2	1	1	0
-75.0	2	2	2	2	2	2	1	1	1	0	0
-85.0	1	1	1	1	1	0	0	0	0	0	0

Vertical Angle (Degrees)

Isocandela Diagram (Percent of Maximum Intensity)



- | | | | | |
|--|--|--|--|--|
|  812 cd (90%) |  722 cd (80%) |  632 cd (70%) |  541 cd (60%) |  451 cd (50%) |
|  361 cd (40%) |  270 cd (30%) |  180 cd (20%) |  90 cd (10%) | |