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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IES LM-79-2019, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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
DE-LED-TR-x123-SP-BZP-9-A-ELV-120

Order Number
15083750
Test Number
15083750.01

Test Date
2023-12-08

Prepared By

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Approved By

Yilmaz Yucelidag, Engineering Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Gray metal housing with adjustable mount and clear glass lens
Lamp: One LED
Mounting: Pendant
Ballast/Driver: PS60U700C21R

Luminaire



Luminaire Characteristics

Luminous Diameter: 2.63 in.
Luminous Height: 3.000 in.

Summary of Results

Total Luminaire Output: 1206 Lumens
Luminaire Efficacy: 55.6 lm/w
Maximum Candela: 12116 Candela

Test Conditions

Test Temperature: 25.3 °C
Voltage: 120.0 VAC
Current: 0.1836 A
Power: 21.71 W
Power Factor: 0.985
Frequency: 60 Hz
Current THD: 14.1 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied

Distribution - Goniophotometer

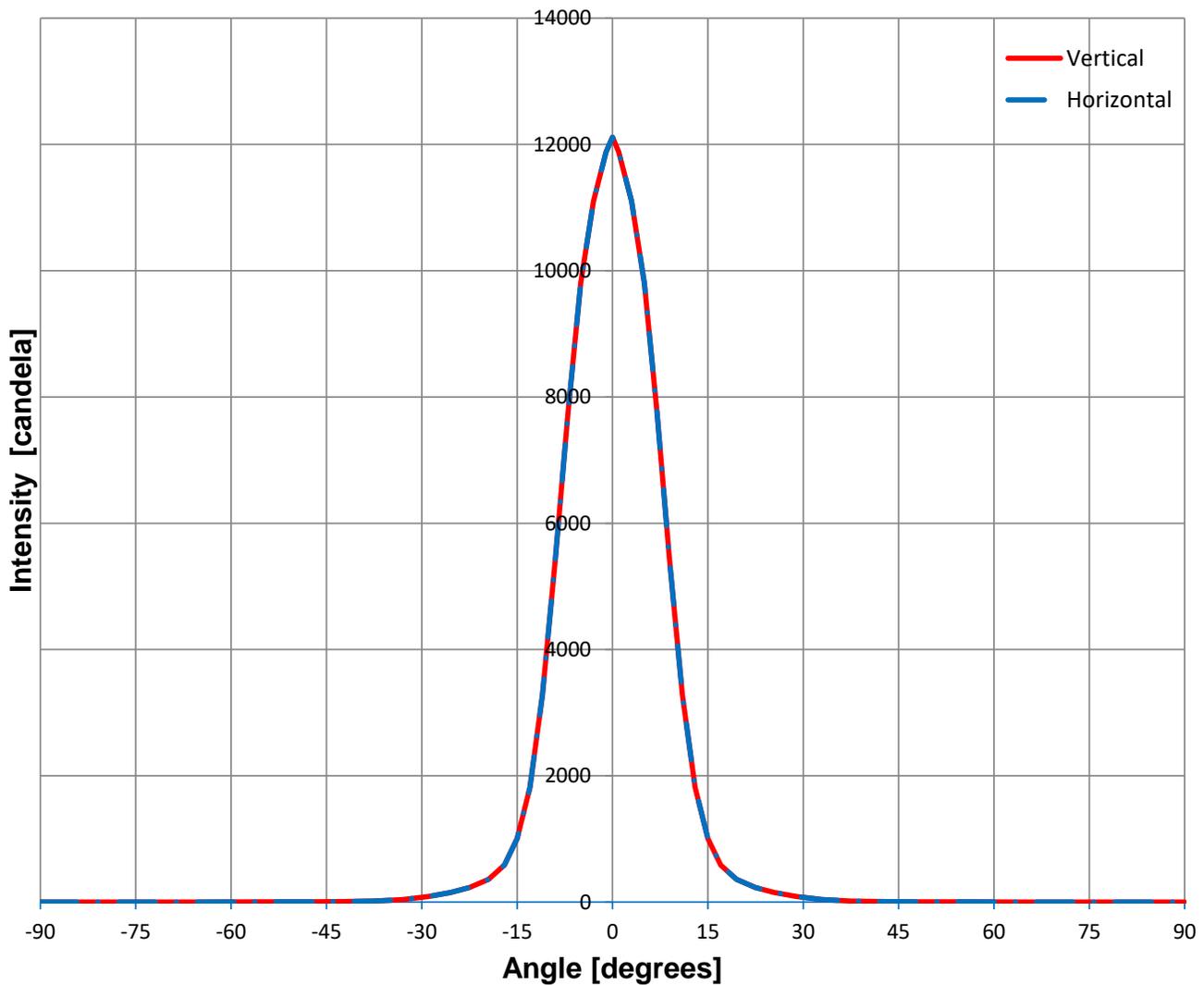
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.3 °C	120.0 VAC	0.1836 A	21.71 W	0.985	60 Hz	14.1 %

Summary of Results

Total Lumen Output:	1205.9 Lumens	Maximum Candela:	12116.2 Candela
Luminaire Efficacy:	55.6 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	991.1 Lumens	Field Angle :	29.0 H X 29.0 V
Beam Lumens:	577.7 Lumens	Beam Angle :	16.9 H X 16.9 V
Spill Light Lumens:	214.8 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	1	1	1	1	1	1	1	1	1	1	1
55.0	2	2	2	2	2	2	2	2	2	2	2
47.5	4	4	4	4	4	4	4	3	3	3	3
42.5	8	8	8	7	7	7	7	6	6	5	5
37.5	15	15	15	15	14	14	13	12	11	10	9
33.0	38	38	37	35	31	27	24	21	19	17	15
29.0	86	86	84	80	75	69	62	54	45	35	25
25.5	151	150	147	141	133	122	109	95	81	68	52
22.5	229	228	223	212	199	182	163	144	124	103	80
19.5	362	361	349	327	300	268	236	205	175	148	115
17.0	588	585	559	508	445	382	324	273	228	189	148
15.0	1006	998	935	812	672	537	431	347	280	228	175
13.0	1814	1796	1654	1378	1093	819	593	449	347	273	205
11.0	3280	3244	2956	2417	1807	1278	882	593	431	324	236
9.0	5405	5342	4856	3987	2966	2008	1278	819	537	382	268
7.0	7742	7661	7035	5884	4397	2966	1807	1093	672	445	300
5.0	9807	9710	8998	7666	5884	3987	2417	1378	812	508	327
3.0	11101	11013	10376	8998	7035	4856	2956	1654	935	559	349
1.0	11879	11712	11013	9710	7661	5342	3244	1796	998	585	361
0.0	12116	11879	11101	9807	7742	5405	3280	1814	1006	588	362
-1.0	11879	11712	11013	9710	7661	5342	3244	1796	998	585	361
-3.0	11101	11013	10376	8998	7035	4856	2956	1654	935	559	349
-5.0	9807	9710	8998	7666	5884	3987	2417	1378	812	508	327
-7.0	7742	7661	7035	5884	4397	2966	1807	1093	672	445	300
-9.0	5405	5342	4856	3987	2966	2008	1278	819	537	382	268
-11.0	3280	3244	2956	2417	1807	1278	882	593	431	324	236
-13.0	1814	1796	1654	1378	1093	819	593	449	347	273	205
-15.0	1006	998	935	812	672	537	431	347	280	228	175
-17.0	588	585	559	508	445	382	324	273	228	189	148
-19.5	362	361	349	327	300	268	236	205	175	148	115
-22.5	229	228	223	212	199	182	163	144	124	103	80
-25.5	151	150	147	141	133	122	109	95	81	68	52
-29.0	86	86	84	80	75	69	62	54	45	35	25
-33.0	38	38	37	35	31	27	24	21	19	17	15
-37.5	15	15	15	15	14	14	13	12	11	10	9
-42.5	8	8	8	7	7	7	7	6	6	5	5
-47.5	4	4	4	4	4	4	4	3	3	3	3
-55.0	2	2	2	2	2	2	2	2	2	2	2
-65.0	1	1	1	1	1	1	1	1	1	1	1
-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

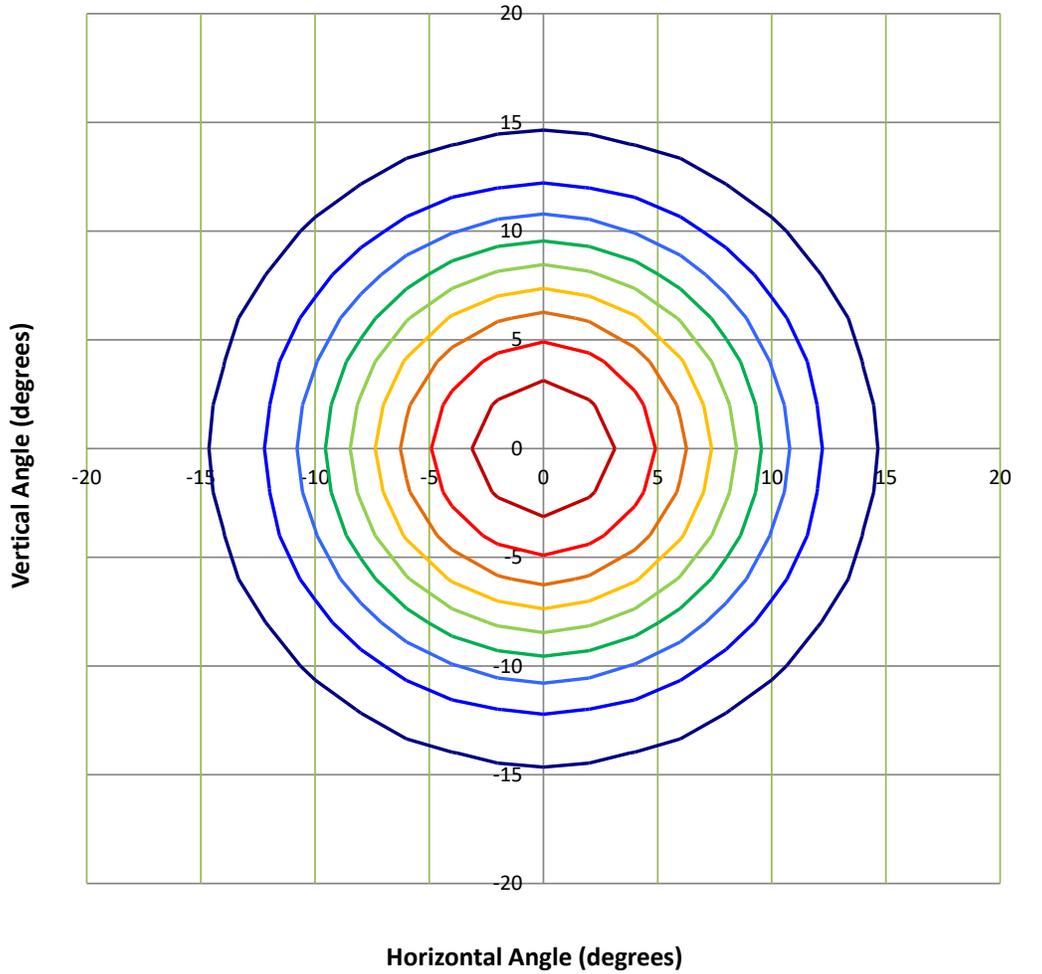
Vertical Angle (Degrees)

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	1	1	1	1	1	1	1	1	1	0	0
55.0	2	1	1	1	1	1	1	1	1	1	0
47.5	3	2	2	2	2	1	1	1	1	1	0
42.5	4	4	3	3	2	2	1	1	1	1	0
37.5	7	6	5	4	3	2	2	1	1	1	0
33.0	12	10	7	5	4	3	2	1	1	1	0
29.0	18	15	11	7	5	3	2	1	1	1	0
25.5	33	20	15	10	6	4	2	1	1	1	0
22.5	55	33	18	12	7	4	3	2	1	1	0
19.5	80	52	25	15	9	5	3	2	1	1	0
17.0	103	68	35	17	10	5	3	2	1	1	0
15.0	124	81	45	19	11	6	3	2	1	1	0
13.0	144	95	54	21	12	6	3	2	1	1	0
11.0	163	109	62	24	13	7	4	2	1	1	0
9.0	182	122	69	27	14	7	4	2	1	1	0
7.0	199	133	75	31	14	7	4	2	1	1	0
5.0	212	141	80	35	15	7	4	2	1	1	0
3.0	223	147	84	37	15	8	4	2	1	1	0
1.0	228	150	86	38	15	8	4	2	1	1	0
0.0	229	151	86	38	15	8	4	2	1	1	0
-1.0	228	150	86	38	15	8	4	2	1	1	0
-3.0	223	147	84	37	15	8	4	2	1	1	0
-5.0	212	141	80	35	15	7	4	2	1	1	0
-7.0	199	133	75	31	14	7	4	2	1	1	0
-9.0	182	122	69	27	14	7	4	2	1	1	0
-11.0	163	109	62	24	13	7	4	2	1	1	0
-13.0	144	95	54	21	12	6	3	2	1	1	0
-15.0	124	81	45	19	11	6	3	2	1	1	0
-17.0	103	68	35	17	10	5	3	2	1	1	0
-19.5	80	52	25	15	9	5	3	2	1	1	0
-22.5	55	33	18	12	7	4	3	2	1	1	0
-25.5	33	20	15	10	6	4	2	1	1	1	0
-29.0	18	15	11	7	5	3	2	1	1	1	0
-33.0	12	10	7	5	4	3	2	1	1	1	0
-37.5	7	6	5	4	3	2	2	1	1	1	0
42.5	4	4	3	3	2	2	1	1	1	1	0
-47.5	3	2	2	2	2	1	1	1	1	1	0
-55.0	2	1	1	1	1	1	1	1	1	1	0
-65.0	1	1	1	1	1	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)



— 10904 cd (90%)
 — 9692 cd (80%)
 — 8481 cd (70%)
 — 7269 cd (60%)
 — 6058 cd (50%)
— 4846 cd (40%)
— 3634 cd (30%)
— 2423 cd (20%)
— 1211 cd (10%)