



UL LLC
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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IES LM-79-2019, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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-e207-MFL-WHP-9-E

Project Number
15884175
Test Number
15884175.20

Test Date
2026-01-16

Issue Date
2026-01-26

Prepared By

Jesse Reyna, Laboratory Leader

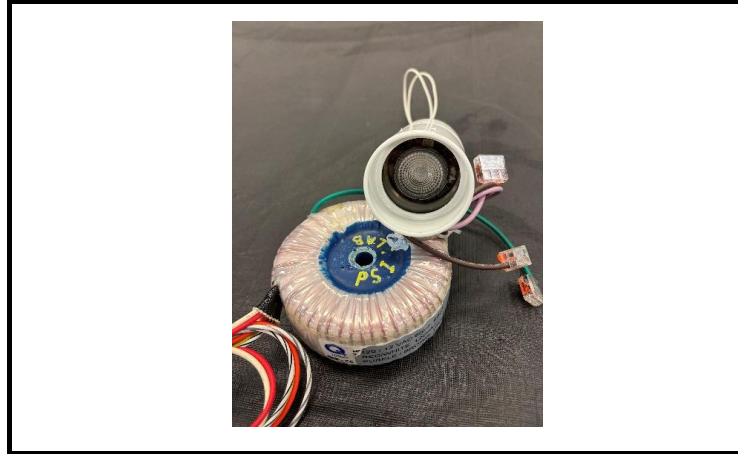
Approved By

Shivani Vyas, Engineering Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White aluminum cylindrical housing with clear lens cap (flood optic)
Lamp: 1 LED array
Mounting: Pendant
Ballast/Driver: Qtran QOM-60DC+CAP-120

Luminaire



Luminaire Characteristics
 Luminous Diameter: 2.00 in.

Summary of Results

Total Luminaire Output: 480.1 Lumens
 Luminaire Efficacy: 49.5 lm/w
 Maximum Candela: 1204 Candela

Test Conditions

Test Temperature: 25.0 °C
 Voltage: 120.1 VAC
 Current: 0.08901 A
 Power: 9.701 W
 Power Factor: 0.907
 Frequency: 60 Hz
 Current THD: 45.3 %

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

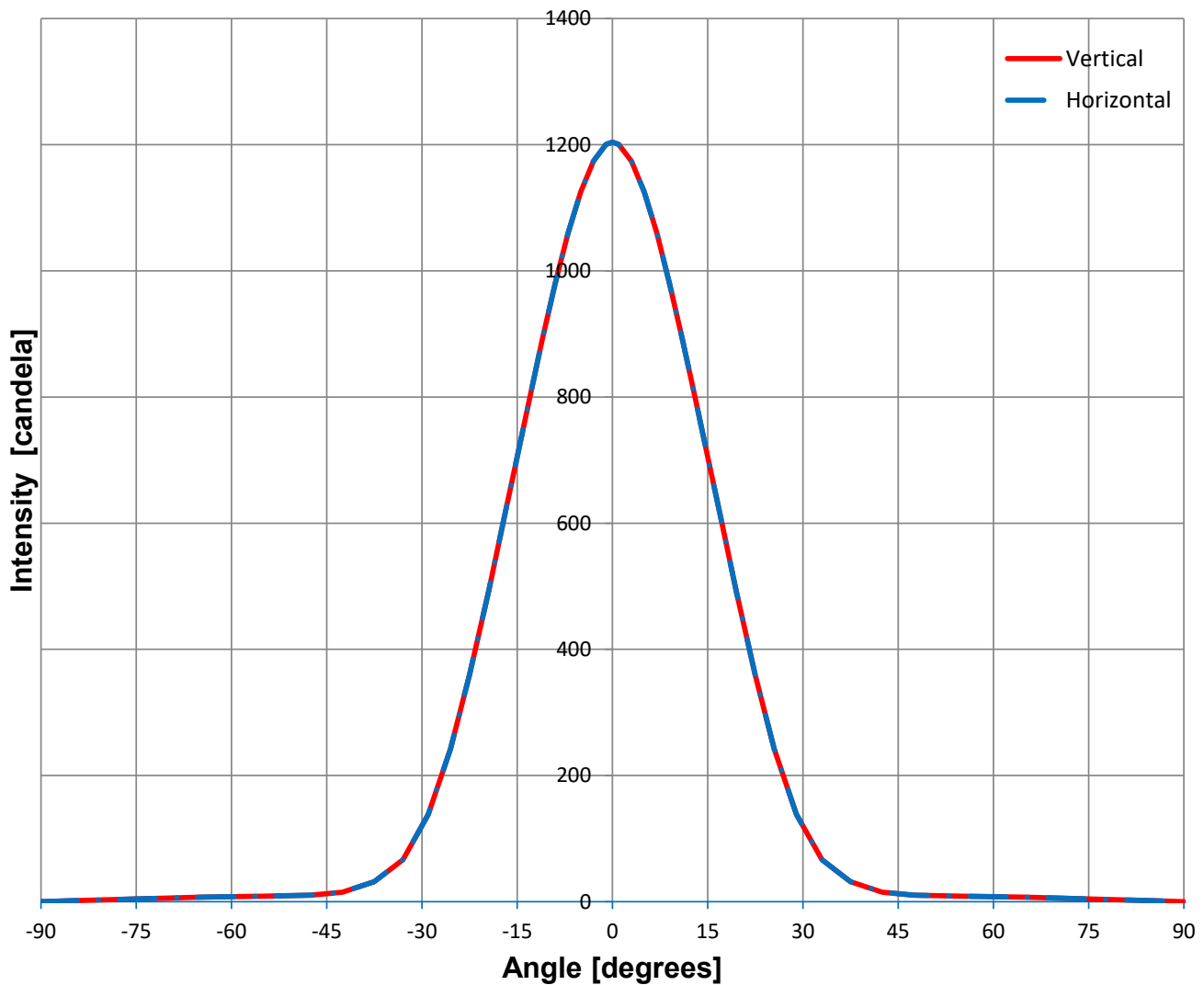
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.08901 A	9.701 W	0.907	60 Hz	45.3 %

Summary of Results

Total Lumen Output:	480.1 Lumens	Maximum Candela:	1204.0 Candela
Luminaire Efficacy:	49.5 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	417.4 Lumens	Field Angle :	60.0 H X 60.0 V
Beam Lumens:	241.4 Lumens	Beam Angle :	34.4 H X 34.4 V
Spill Light Lumens:	62.7 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	4	4	4	4	4	4	4	4	4	4	4
65.0	7	7	7	7	7	7	7	7	7	7	7
55.0	9	9	9	9	9	9	9	9	9	9	8
47.5	10	10	10	10	10	10	10	10	10	10	9
42.5	15	15	15	15	14	14	13	13	12	12	11
37.5	32	32	31	30	29	27	26	24	22	20	17
33.0	67	66	65	63	60	55	51	46	41	36	30
29.0	138	138	135	130	122	112	101	89	76	64	52
25.5	242	241	236	226	212	194	174	153	131	110	86
22.5	360	359	352	338	318	293	263	231	198	165	129
19.5	492	491	482	464	439	406	369	327	282	237	183
17.0	611	609	599	578	548	508	462	412	359	304	237
15.0	705	704	692	668	634	590	539	481	420	359	282
13.0	800	798	784	757	718	669	612	549	481	412	327
11.0	893	891	875	844	799	745	681	612	539	462	369
9.0	980	978	959	925	875	814	745	669	590	508	406
7.0	1059	1057	1036	997	942	875	799	718	634	548	439
5.0	1125	1122	1099	1057	997	925	844	757	668	578	464
3.0	1174	1170	1145	1099	1036	959	875	784	692	599	482
1.0	1201	1196	1170	1122	1057	978	891	798	704	609	491
0.0	1204	1201	1174	1125	1059	980	893	800	705	611	492
-1.0	1201	1196	1170	1122	1057	978	891	798	704	609	491
-3.0	1174	1170	1145	1099	1036	959	875	784	692	599	482
-5.0	1125	1122	1099	1057	997	925	844	757	668	578	464
-7.0	1059	1057	1036	997	942	875	799	718	634	548	439
-9.0	980	978	959	925	875	814	745	669	590	508	406
-11.0	893	891	875	844	799	745	681	612	539	462	369
-13.0	800	798	784	757	718	669	612	549	481	412	327
-15.0	705	704	692	668	634	590	539	481	420	359	282
-17.0	611	609	599	578	548	508	462	412	359	304	237
-19.5	492	491	482	464	439	406	369	327	282	237	183
-22.5	360	359	352	338	318	293	263	231	198	165	129
-25.5	242	241	236	226	212	194	174	153	131	110	86
-29.0	138	138	135	130	122	112	101	89	76	64	52
-33.0	67	66	65	63	60	55	51	46	41	36	30
-37.5	32	32	31	30	29	27	26	24	22	20	17
-42.5	15	15	15	15	14	14	13	13	12	12	11
-47.5	10	10	10	10	10	10	10	10	10	10	9
-55.0	9	9	9	9	9	9	9	9	9	9	8
-65.0	7	7	7	7	7	7	7	7	7	7	7
-75.0	4	4	4	4	4	4	4	4	4	4	4
-85.0	1	1	1	1	1	1	1	1	1	1	1

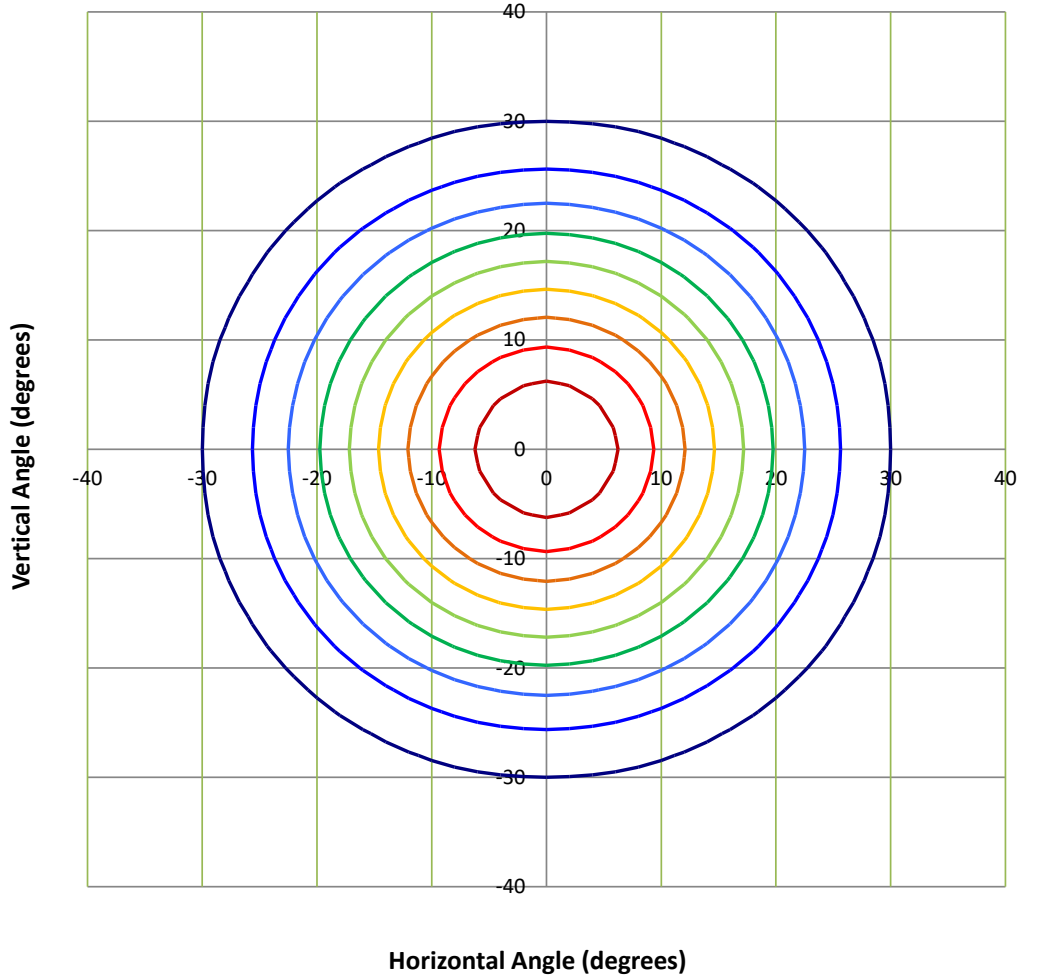
Vertical Angle (Degrees)

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	1	1	0	0	0
75.0	4	4	4	4	4	3	3	3	2	1	0
65.0	7	7	6	6	6	5	5	4	3	2	0
55.0	8	8	8	8	7	7	7	6	4	3	1
47.5	9	9	9	9	8	8	7	7	5	3	1
42.5	11	10	10	9	9	8	8	7	5	3	1
37.5	14	13	11	10	9	9	8	7	6	4	1
33.0	24	19	14	12	10	9	9	8	6	4	1
29.0	40	30	21	14	11	10	9	8	6	4	1
25.5	61	44	30	19	13	10	9	8	7	4	1
22.5	91	61	40	24	14	11	9	8	7	4	1
19.5	129	86	52	30	17	11	9	8	7	4	1
17.0	165	110	64	36	20	12	10	9	7	4	1
15.0	198	131	76	41	22	12	10	9	7	4	1
13.0	231	153	89	46	24	13	10	9	7	4	1
11.0	263	174	101	51	26	13	10	9	7	4	1
9.0	293	194	112	55	27	14	10	9	7	4	1
7.0	318	212	122	60	29	14	10	9	7	4	1
5.0	338	226	130	63	30	15	10	9	7	4	1
3.0	352	236	135	65	31	15	10	9	7	4	1
1.0	359	241	138	66	32	15	10	9	7	4	1
0.0	360	242	138	67	32	15	10	9	7	4	1
-1.0	359	241	138	66	32	15	10	9	7	4	1
-3.0	352	236	135	65	31	15	10	9	7	4	1
-5.0	338	226	130	63	30	15	10	9	7	4	1
-7.0	318	212	122	60	29	14	10	9	7	4	1
-9.0	293	194	112	55	27	14	10	9	7	4	1
-11.0	263	174	101	51	26	13	10	9	7	4	1
-13.0	231	153	89	46	24	13	10	9	7	4	1
-15.0	198	131	76	41	22	12	10	9	7	4	1
-17.0	165	110	64	36	20	12	10	9	7	4	1
-19.5	129	86	52	30	17	11	9	8	7	4	1
-22.5	91	61	40	24	14	11	9	8	7	4	1
-25.5	61	44	30	19	13	10	9	8	7	4	1
-29.0	40	30	21	14	11	10	9	8	6	4	1
-33.0	24	19	14	12	10	9	9	8	6	4	1
-37.5	14	13	11	10	9	9	8	7	6	4	1
42.5	11	10	10	9	9	8	8	7	5	3	1
-47.5	9	9	9	9	8	8	7	7	5	3	1
-55.0	8	8	8	8	7	7	7	6	4	3	1
-65.0	7	7	6	6	6	5	5	4	3	2	0
-75.0	4	4	4	4	4	3	3	3	2	1	0
-85.0	1	1	1	1	1	1	1	1	0	0	0

Vertical Angle (Degrees)

Isocandela Diagram (Percent of Maximum Intensity)



- 1083 cd (90%) 963 cd (80%) 842 cd (70%) 722 cd (60%) 602 cd (50%)
- 481 cd (40%) 361 cd (30%) 240 cd (20%) 120 cd (10%)