



UL LLC
1075 W Lambert Rd Suite B
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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IES LM-79-2019, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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-WFL-WHP-9-E

Project Number
15884175
Test Number
15884175.14

Test Date
2025-12-22

Issue Date
2025-12-30

Prepared By

Jesse Reyna, Laboratory Leader

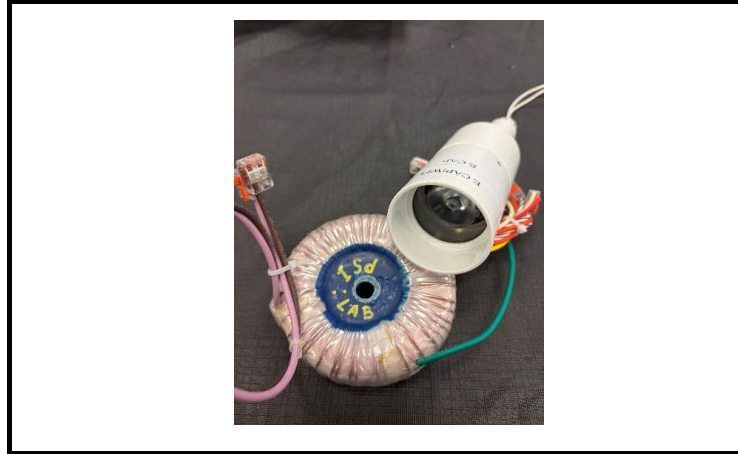
Approved By

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 tall clear lens cap
Lamp: 1 LED array
Mounting: Pendant
Ballast/Driver: Qtran QOM-60DC+CAP-120

Luminaire



Luminaire Characteristics
 Luminous Diameter: 1.75 in.

Summary of Results

Total Luminaire Output: 497.3 Lumens
 Luminaire Efficacy: 50.5 lm/w
 Maximum Candela: 592 Candela

Test Conditions

Test Temperature: 24.6 °C
 Voltage: 120.1 VAC
 Current: 0.09002 A
 Power: 9.854 W
 Power Factor: 0.912
 Frequency: 60 Hz
 Current THD: 44.0 %

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

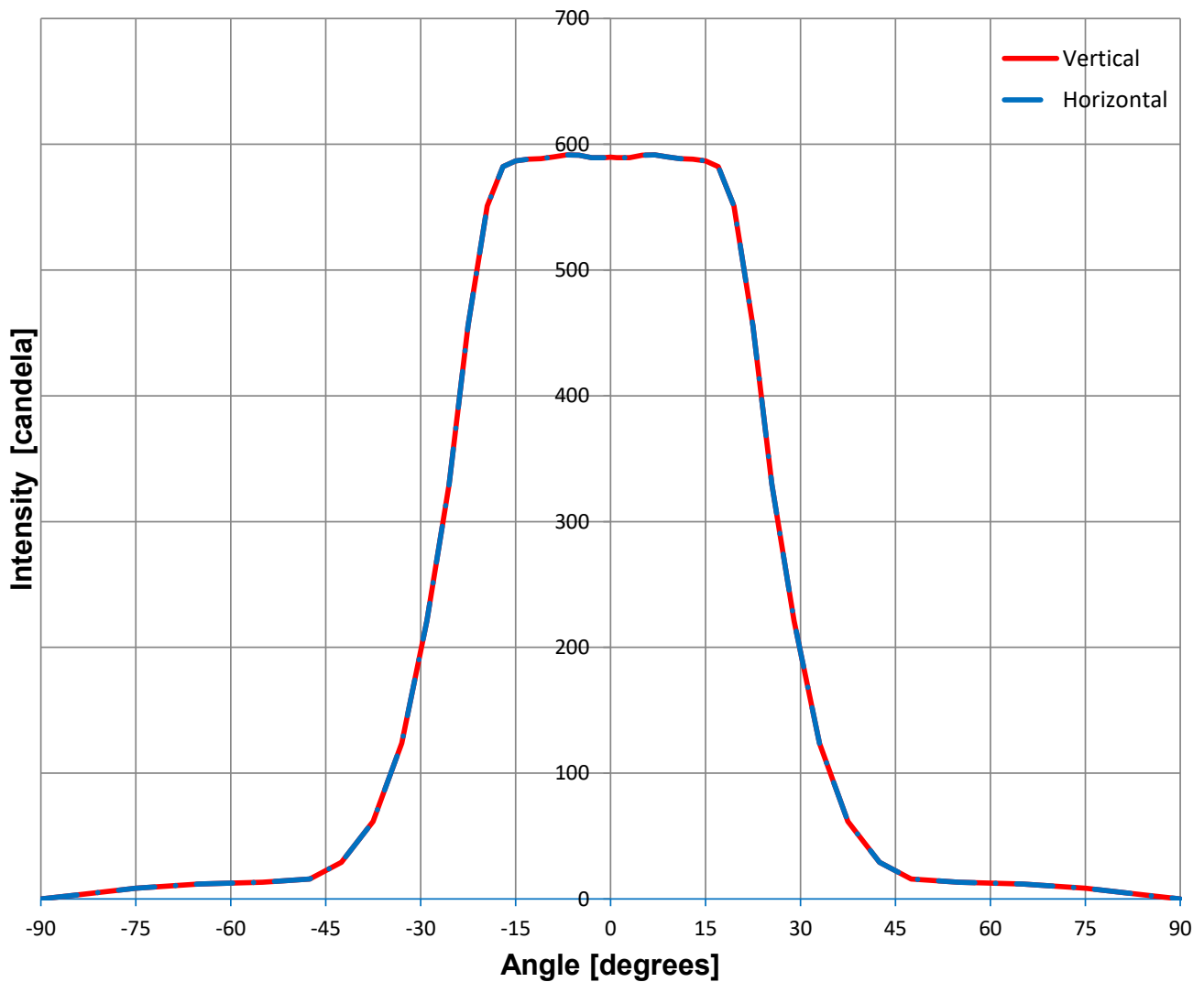
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.09002 A	9.854 W	0.912	60 Hz	44.0 %

Summary of Results

Total Lumen Output:	497.3 Lumens	Maximum Candela:	591.5 Candela	
Luminaire Efficacy:	50.5 Lumens/Watt	Maximum Angle:	-7 H	-7 V
Field Lumens:	436.0 Lumens	Field Angle :	74.6 H	X 74.6 V
Beam Lumens:	342.4 Lumens	Beam Angle :	51.2 H	X 51.2 V
Spill Light Lumens:	61.3 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	3	3	3	3	3	3	3	3	3	3	3
75.0	9	9	9	9	9	8	8	8	8	8	8
65.0	12	12	12	12	12	12	12	12	12	12	12
55.0	13	13	13	13	13	13	13	13	13	13	13
47.5	16	16	16	16	15	15	15	15	14	14	14
42.5	29	29	29	28	27	26	25	23	22	20	19
37.5	62	61	61	59	57	54	50	46	42	38	33
33.0	124	124	121	117	110	102	94	86	78	70	59
29.0	221	221	218	211	202	191	177	162	142	119	96
25.5	330	329	323	312	298	279	259	237	213	189	158
22.5	456	455	448	433	411	383	352	318	283	250	210
19.5	551	551	547	539	525	501	466	421	372	324	268
17.0	582	582	580	577	570	557	538	506	455	395	324
15.0	587	587	586	586	584	579	567	547	513	455	372
13.0	588	588	588	587	587	586	582	570	547	506	421
11.0	589	589	589	588	588	587	586	582	567	538	466
9.0	590	590	590	589	589	588	587	586	579	557	501
7.0	592	591	591	590	589	589	588	587	584	570	525
5.0	591	591	591	591	590	589	588	587	586	577	539
3.0	589	589	591	591	591	590	589	588	586	580	547
1.0	589	589	589	591	591	590	589	588	587	582	551
0.0	590	589	589	591	592	590	589	588	587	582	551
-1.0	589	589	589	591	591	590	589	588	587	582	551
-3.0	589	589	591	591	591	590	589	588	586	580	547
-5.0	591	591	591	591	590	589	588	587	586	577	539
-7.0	592	591	591	590	589	589	588	587	584	570	525
-9.0	590	590	590	589	589	588	587	586	579	557	501
-11.0	589	589	589	588	588	587	586	582	567	538	466
-13.0	588	588	588	587	587	586	582	570	547	506	421
-15.0	587	587	586	586	584	579	567	547	513	455	372
-17.0	582	582	580	577	570	557	538	506	455	395	324
-19.5	551	551	547	539	525	501	466	421	372	324	268
-22.5	456	455	448	433	411	383	352	318	283	250	210
-25.5	330	329	323	312	298	279	259	237	213	189	158
-29.0	221	221	218	211	202	191	177	162	142	119	96
-33.0	124	124	121	117	110	102	94	86	78	70	59
-37.5	62	61	61	59	57	54	50	46	42	38	33
-42.5	29	29	29	28	27	26	25	23	22	20	19
-47.5	16	16	16	16	15	15	15	15	14	14	14
-55.0	13	13	13	13	13	13	13	13	13	13	13
-65.0	12	12	12	12	12	12	12	12	12	12	12
-75.0	9	9	9	9	9	8	8	8	8	8	8
-85.0	3	3	3	3	3	3	3	3	3	3	3

Vertical Angle (Degrees)



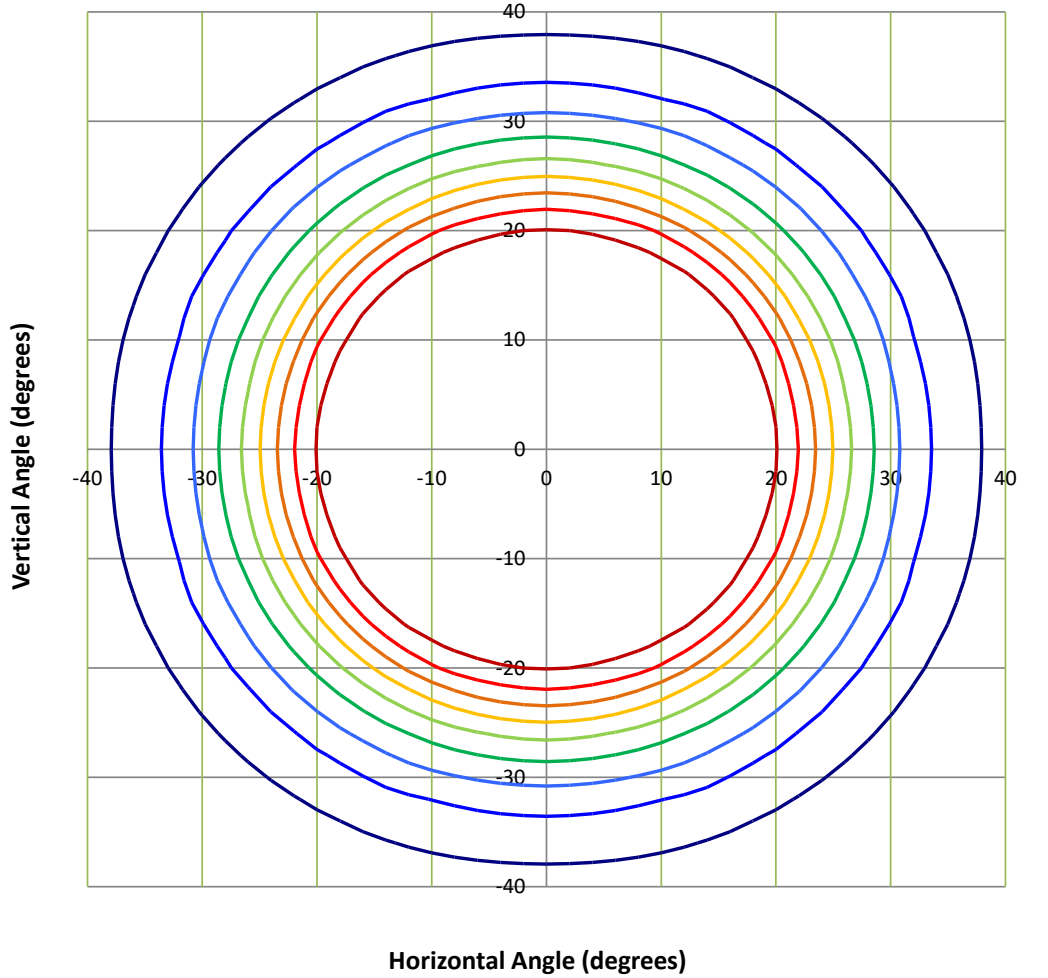
Candela Tabulation

Lateral Angle (Degrees)

	22.5	25.5	29	33	37.5	42.5	47.5	55	65	75	85
85.0	3	2	2	2	2	2	2	1	1	0	0
75.0	8	8	8	7	7	6	6	5	4	2	0
65.0	11	11	11	11	10	10	9	8	6	4	1
55.0	13	13	13	13	12	12	11	10	8	5	1
47.5	14	13	13	13	13	13	12	11	9	6	2
42.5	16	15	14	14	13	13	13	12	10	6	2
37.5	27	23	18	15	14	13	13	12	10	7	2
33.0	48	38	28	20	15	14	13	13	11	7	2
29.0	76	58	42	28	18	14	13	13	11	8	2
25.5	113	83	58	38	23	15	13	13	11	8	2
22.5	165	113	76	48	27	16	14	13	11	8	3
19.5	210	158	96	59	33	19	14	13	12	8	3
17.0	250	189	119	70	38	20	14	13	12	8	3
15.0	283	213	142	78	42	22	14	13	12	8	3
13.0	318	237	162	86	46	23	15	13	12	8	3
11.0	352	259	177	94	50	25	15	13	12	8	3
9.0	383	279	191	102	54	26	15	13	12	8	3
7.0	411	298	202	110	57	27	15	13	12	9	3
5.0	433	312	211	117	59	28	16	13	12	9	3
3.0	448	323	218	121	61	29	16	13	12	9	3
1.0	455	329	221	124	61	29	16	13	12	9	3
0.0	456	330	221	124	62	29	16	13	12	9	3
-1.0	455	329	221	124	61	29	16	13	12	9	3
-3.0	448	323	218	121	61	29	16	13	12	9	3
-5.0	433	312	211	117	59	28	16	13	12	9	3
-7.0	411	298	202	110	57	27	15	13	12	9	3
-9.0	383	279	191	102	54	26	15	13	12	8	3
-11.0	352	259	177	94	50	25	15	13	12	8	3
-13.0	318	237	162	86	46	23	15	13	12	8	3
-15.0	283	213	142	78	42	22	14	13	12	8	3
-17.0	250	189	119	70	38	20	14	13	12	8	3
-19.5	210	158	96	59	33	19	14	13	12	8	3
-22.5	165	113	76	48	27	16	14	13	11	8	3
-25.5	113	83	58	38	23	15	13	13	11	8	2
-29.0	76	58	42	28	18	14	13	13	11	8	2
-33.0	48	38	28	20	15	14	13	13	11	7	2
-37.5	27	23	18	15	14	13	13	12	10	7	2
42.5	16	15	14	14	13	13	13	12	10	6	2
-47.5	14	13	13	13	13	13	12	11	9	6	2
-55.0	13	13	13	13	12	12	11	10	8	5	1
-65.0	11	11	11	11	10	10	9	8	6	4	1
-75.0	8	8	8	7	7	6	6	5	4	2	0
-85.0	3	2	2	2	2	2	2	1	1	0	0

Vertical Angle (Degrees)

Isocandela Diagram (Percent of Maximum Intensity)



- 532 cd (90%)
- 473 cd (80%)
- 414 cd (70%)
- 354 cd (60%)
- 295 cd (50%)
- 236 cd (40%)
- 177 cd (30%)
- 118 cd (20%)
- 59 cd (10%)