



UL, LLC  
1075 W Lambert Rd Suite B  
Brea, CA 92821

## Floodlight Distribution Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)

**Prepared For**  
**B-K Lighting INC**

Daniel Carrejo  
40429 Brickyard Dr.  
Madera, CA 93636  
United States

**Catalog Number**

**DI-LED-TR-e153-17.5°-SP-WHP-C-INC-MT**

Order Number  
14327079  
Test Number  
14327079.20

Test Date

2022-12-13

Prepared By

Austin Duff, Technician

Approved By

Yilmaz Yucelidag, Project Handler

The results contained in this report pertain only to the tested sample.  
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NVLAP, NIST, or any agency of the Federal Government.

**Luminaire Description:** Circular white metal housing with glass lens  
**Lamp:** One (1) LED  
**Mounting:** Pendant  
**Ballast/Driver:** Integrated

**Luminaire**



**Luminaire Characteristics**  
 Luminous Diameter: 2.50 in.

**Summary of Results**

Total Luminaire Output:	462.9 Lumens
Luminaire Efficacy:	49.6 lm/w
Maximum Candela:	2863 Candela

**Test Conditions**

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.07980 A
Power:	9.323 W
Power Factor:	0.973
Frequency:	60 Hz
Current THD:	19.4 %

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

## Distribution - Goniophotometer

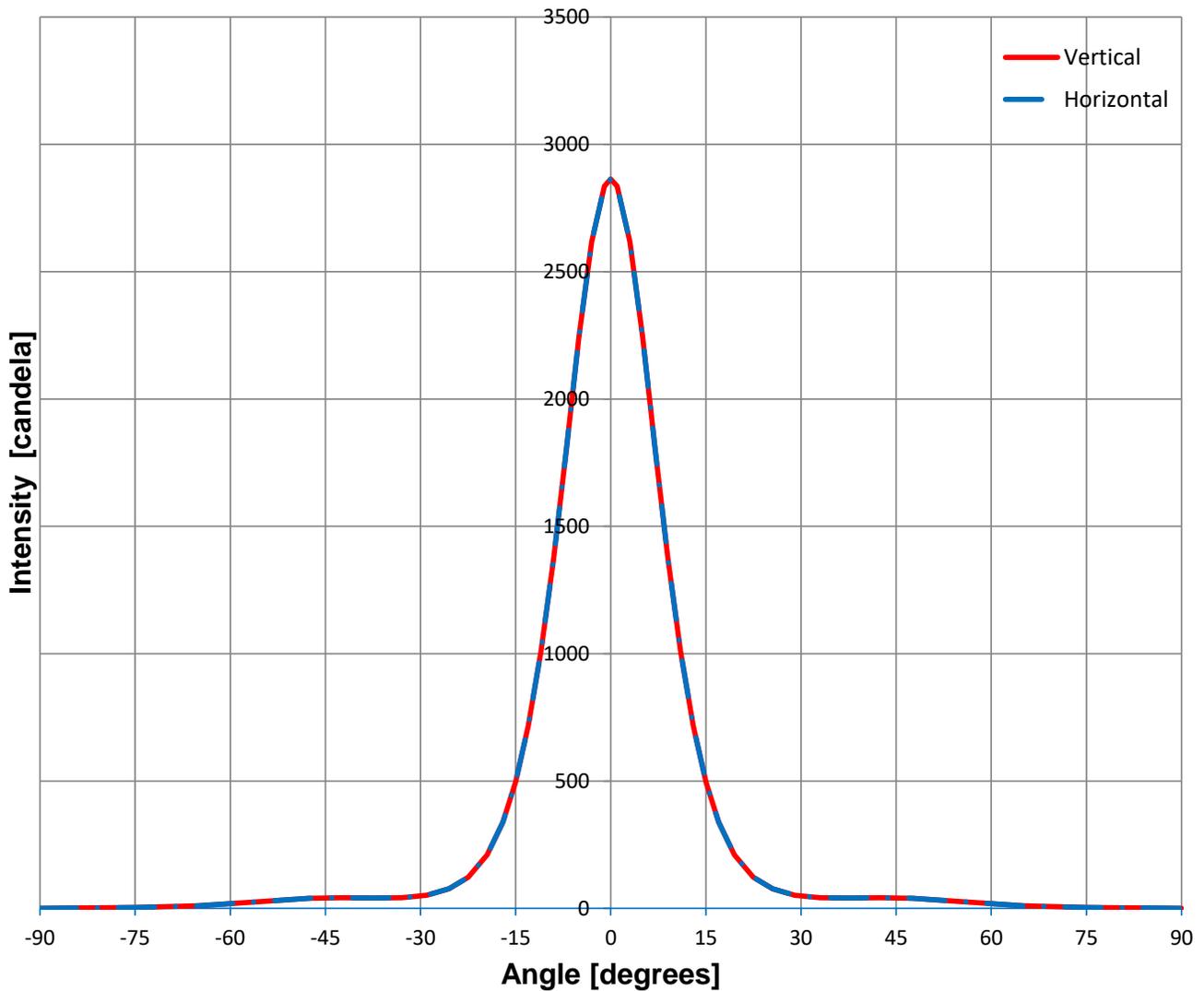
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.07980 A	9.323 W	0.973	60 Hz	19.4 %

### Summary of Results

<b>Total Lumen Output:</b>	462.9 Lumens	<b>Maximum Candela:</b>	2863.5 Candela
<b>Luminaire Efficacy:</b>	49.6 Lumens/Watt	<b>Maximum Angle:</b>	0 H      0 V
<b>Field Lumens:</b>	307.4 Lumens	<b>Field Angle :</b>	36.0 H   X   36.0 V
<b>Beam Lumens:</b>	148.9 Lumens	<b>Beam Angle :</b>	17.5 H   X   17.5 V
<b>Spill Light Lumens:</b>	155.4 Lumens	<b>IESNA Type:</b>	3 H    X    3 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	3	3	3	3	3	3	3	3	3	3	3
65.0	10	10	10	10	10	10	10	10	9	9	9
55.0	27	27	27	27	27	26	26	25	24	24	23
47.5	40	40	40	39	39	39	39	38	38	37	36
42.5	41	41	41	41	42	42	42	41	41	41	41
37.5	40	40	40	40	40	40	40	41	41	41	41
33.0	41	41	41	41	41	41	40	40	40	40	40
29.0	52	52	51	50	49	47	45	44	42	41	40
25.5	77	76	75	72	68	64	59	55	50	47	44
22.5	122	122	118	111	103	93	83	73	65	57	50
19.5	210	209	201	187	169	148	126	107	90	75	61
17.0	338	336	323	296	262	223	185	151	121	97	75
15.0	496	493	471	427	372	312	253	200	156	121	90
13.0	717	712	677	608	522	430	340	263	200	151	107
11.0	1010	1003	948	844	715	579	452	340	253	185	126
9.0	1377	1367	1284	1134	950	758	579	430	312	223	148
7.0	1804	1789	1671	1462	1206	950	715	522	372	262	169
5.0	2244	2223	2065	1790	1462	1134	844	608	427	296	187
3.0	2617	2589	2396	2065	1671	1284	948	677	471	323	201
1.0	2836	2801	2589	2223	1789	1367	1003	712	493	336	209
0.0	2863	2836	2617	2244	1804	1377	1010	717	496	338	210
-1.0	2836	2801	2589	2223	1789	1367	1003	712	493	336	209
-3.0	2617	2589	2396	2065	1671	1284	948	677	471	323	201
-5.0	2244	2223	2065	1790	1462	1134	844	608	427	296	187
-7.0	1804	1789	1671	1462	1206	950	715	522	372	262	169
-9.0	1377	1367	1284	1134	950	758	579	430	312	223	148
-11.0	1010	1003	948	844	715	579	452	340	253	185	126
-13.0	717	712	677	608	522	430	340	263	200	151	107
-15.0	496	493	471	427	372	312	253	200	156	121	90
-17.0	338	336	323	296	262	223	185	151	121	97	75
-19.5	210	209	201	187	169	148	126	107	90	75	61
-22.5	122	122	118	111	103	93	83	73	65	57	50
-25.5	77	76	75	72	68	64	59	55	50	47	44
-29.0	52	52	51	50	49	47	45	44	42	41	40
-33.0	41	41	41	41	41	41	40	40	40	40	40
-37.5	40	40	40	40	40	40	40	41	41	41	41
42.5	41	41	41	41	42	42	42	41	41	41	41
-47.5	40	40	40	39	39	39	39	38	38	37	36
-55.0	27	27	27	27	27	26	26	25	24	24	23
-65.0	10	10	10	10	10	10	10	10	9	9	9
-75.0	3	3	3	3	3	3	3	3	3	3	3
-85.0	1	1	1	1	1	1	1	1	1	1	1

Vertical Angle (Degrees)

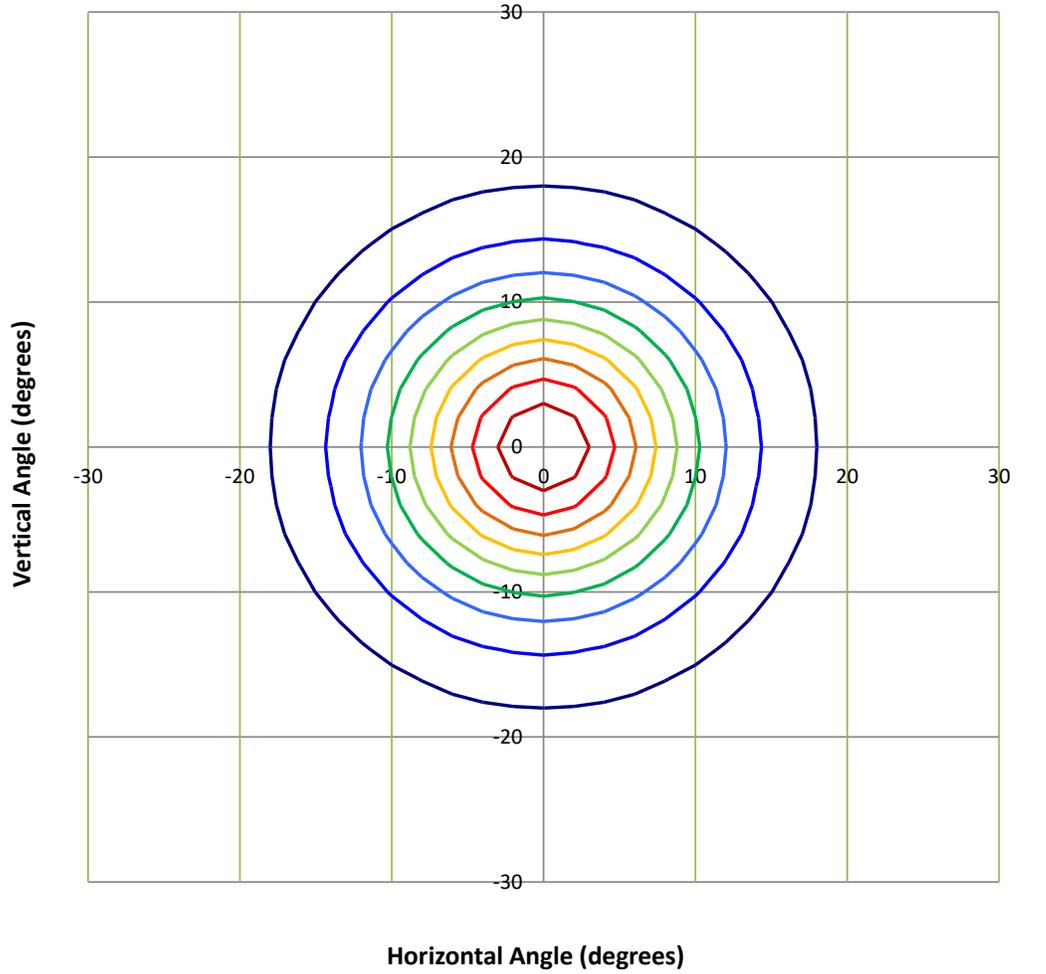


**Candela Tabulation**  
Lateral Angle (Degrees)

	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	1	0	0
75.0	3	3	3	3	2	2	2	2	2	1	0
65.0	8	8	7	7	6	5	4	3	2	2	1
55.0	21	20	18	16	13	10	8	5	3	2	1
47.5	34	32	30	26	22	17	13	8	4	2	1
42.5	40	39	37	34	29	23	17	10	5	2	1
37.5	42	41	41	39	35	29	22	13	6	2	1
33.0	41	41	42	41	39	34	26	16	7	3	1
29.0	40	40	41	42	41	37	30	18	7	3	1
25.5	41	40	40	41	41	39	32	20	8	3	1
22.5	44	41	40	41	42	40	34	21	8	3	1
19.5	50	44	40	40	41	41	36	23	9	3	1
17.0	57	47	41	40	41	41	37	24	9	3	1
15.0	65	50	42	40	41	41	38	24	9	3	1
13.0	73	55	44	40	41	41	38	25	10	3	1
11.0	83	59	45	40	40	42	39	26	10	3	1
9.0	93	64	47	41	40	42	39	26	10	3	1
7.0	103	68	49	41	40	42	39	27	10	3	1
5.0	111	72	50	41	40	41	39	27	10	3	1
3.0	118	75	51	41	40	41	40	27	10	3	1
1.0	122	76	52	41	40	41	40	27	10	3	1
0.0	122	77	52	41	40	41	40	27	10	3	1
-1.0	122	76	52	41	40	41	40	27	10	3	1
-3.0	118	75	51	41	40	41	40	27	10	3	1
-5.0	111	72	50	41	40	41	39	27	10	3	1
-7.0	103	68	49	41	40	42	39	27	10	3	1
-9.0	93	64	47	41	40	42	39	26	10	3	1
-11.0	83	59	45	40	40	42	39	26	10	3	1
-13.0	73	55	44	40	41	41	38	25	10	3	1
-15.0	65	50	42	40	41	41	38	24	9	3	1
-17.0	57	47	41	40	41	41	37	24	9	3	1
-19.5	50	44	40	40	41	41	36	23	9	3	1
-22.5	44	41	40	41	42	40	34	21	8	3	1
-25.5	41	40	40	41	41	39	32	20	8	3	1
-29.0	40	40	41	42	41	37	30	18	7	3	1
-33.0	41	41	42	41	39	34	26	16	7	3	1
-37.5	42	41	41	39	35	29	22	13	6	2	1
-42.5	40	39	37	34	29	23	17	10	5	2	1
-47.5	34	32	30	26	22	17	13	8	4	2	1
-55.0	21	20	18	16	13	10	8	5	3	2	1
-65.0	8	8	7	7	6	5	4	3	2	2	1
-75.0	3	3	3	3	2	2	2	2	2	1	0
-85.0	1	1	1	1	1	1	1	1	1	0	0

Vertical Angle (Degrees)

### Isocandela Diagram (Percent of Maximum Intensity)



- 2577 cd (90%)    — 2290 cd (80%)    — 2004 cd (70%)    — 1718 cd (60%)    — 1431 cd (50%)
- 1145 cd (40%)    — 859 cd (30%)    — 572 cd (20%)    — 286 cd (10%)