



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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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**  
**RI-LED-TR-E137-WFL-WHP-9-C-INC-MT-PROTO-(4000K)**

Order Number  
13742921  
Test Number  
13742921.08

Test Date

2021-04-02

Prepared By

Khang Nguyen, Technician

Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White formed metal housing and clear glass lens  
**Lamp:** One (1) White LED with optic attached  
**Mounting:** Pole/Arm  
**Ballast/Driver:** One (1) PowerSelect PS60U100C14R

#### Luminaire



#### Luminaire Characteristics

Luminous Diameter: 1.75 in.

#### Summary of Results

Total Luminaire Output:	712.4 Lumens
Luminaire Efficacy:	54.1 lm/w
Maximum Candela:	778 Candela

#### Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.1 VAC
Current:	0.1116 A
Power:	13.17 W
Power Factor:	0.983
Frequency:	60 Hz
Current THD:	12.3 %

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



## Distribution - Goniophotometer

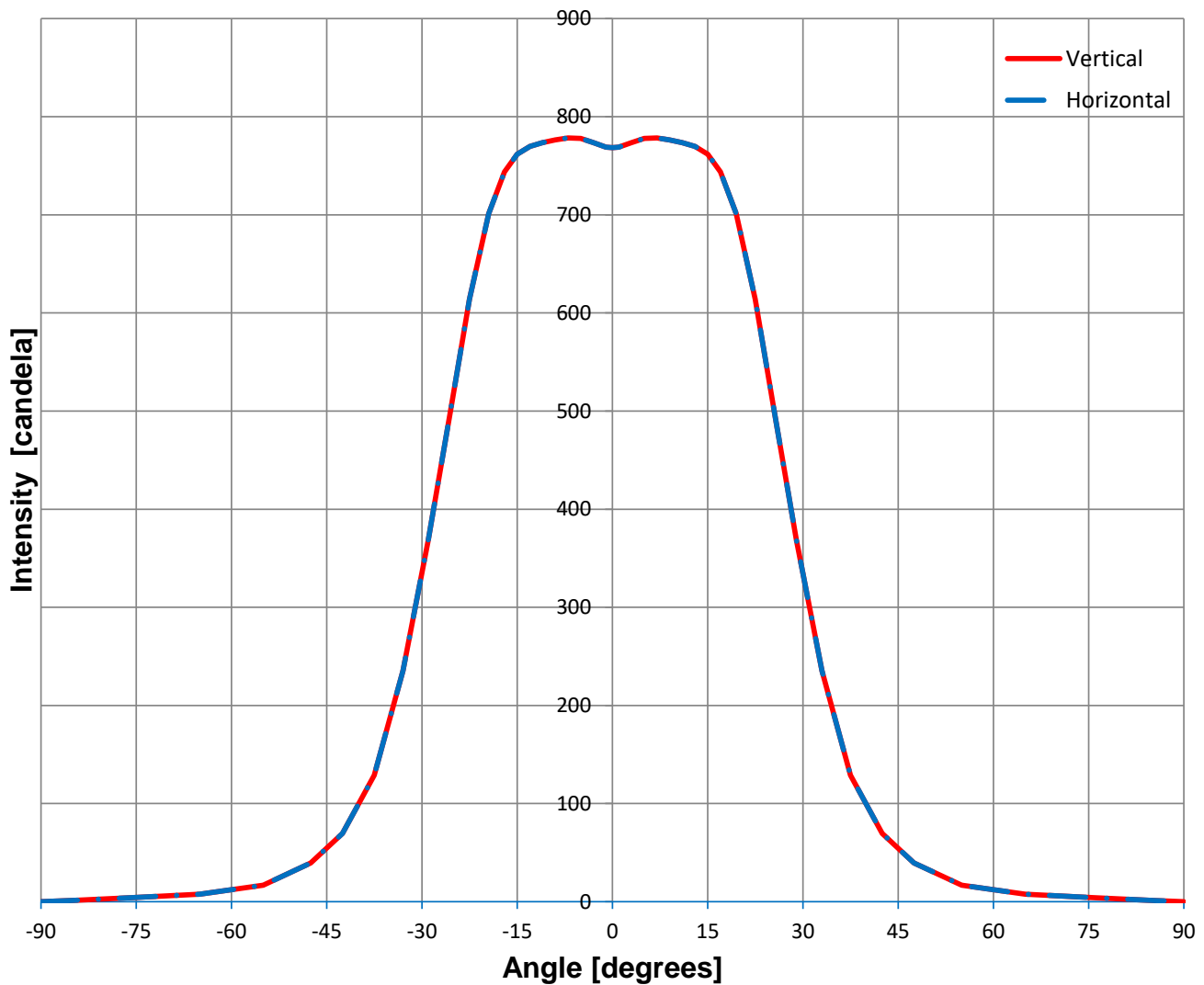
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.1 VAC	0.1116 A	13.17 W	0.983	60 Hz	12.3 %

### Summary of Results

Total Lumen Output:	712.4 Lumens	Maximum Candela:	778.4 Candela
Luminaire Efficacy:	54.1 Lumens/Watt	Maximum Angle:	-5 H -5 V
Field Lumens:	647.5 Lumens	Field Angle :	83.2 H X 83.2 V
Beam Lumens:	484.9 Lumens	Beam Angle :	56.1 H X 56.1 V
Spill Light Lumens:	64.9 Lumens	IESNA Type:	5 H X 5 V

### Maximum Candlepower Plot





### Candela Tabulation

Lateral Angle (Degrees)

Vertical Angle (Degrees)	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	8	8	8	8	8	8	7	7	7	7	7
55.0	17	17	17	16	16	16	15	15	14	14	13
47.5	40	39	39	39	38	37	35	34	32	31	28
42.5	69	69	69	68	66	64	61	58	55	51	47
37.5	129	129	127	124	120	114	107	100	93	86	77
33.0	235	235	232	225	215	203	189	174	158	143	124
29.0	368	368	363	355	342	326	306	283	257	228	192
25.5	500	499	493	482	465	443	418	389	357	323	278
22.5	614	613	607	595	577	553	523	487	448	406	353
19.5	701	701	696	687	672	650	622	585	542	494	429
17.0	744	743	740	734	724	709	686	654	613	564	494
15.0	762	762	760	756	749	738	721	696	660	613	542
13.0	770	770	769	766	763	756	744	725	696	654	585
11.0	773	773	773	772	770	765	758	744	721	686	622
9.0	776	776	776	774	773	771	765	756	738	709	650
7.0	778	778	778	777	775	773	770	763	749	724	672
5.0	778	778	778	778	777	774	772	766	756	734	687
3.0	774	774	777	778	778	776	773	769	760	740	696
1.0	769	770	774	778	778	776	773	770	762	743	701
0.0	768	769	774	778	778	776	773	770	762	744	701
-1.0	769	770	774	778	778	776	773	770	762	743	701
-3.0	774	774	777	778	778	776	773	769	760	740	696
-5.0	778	778	778	778	777	774	772	766	756	734	687
-7.0	778	778	778	777	775	773	770	763	749	724	672
-9.0	776	776	776	774	773	771	765	756	738	709	650
-11.0	773	773	773	772	770	765	758	744	721	686	622
-13.0	770	770	769	766	763	756	744	725	696	654	585
-15.0	762	762	760	756	749	738	721	696	660	613	542
-17.0	744	743	740	734	724	709	686	654	613	564	494
-19.5	701	701	696	687	672	650	622	585	542	494	429
-22.5	614	613	607	595	577	553	523	487	448	406	353
-25.5	500	499	493	482	465	443	418	389	357	323	278
-29.0	368	368	363	355	342	326	306	283	257	228	192
-33.0	235	235	232	225	215	203	189	174	158	143	124
-37.5	129	129	127	124	120	114	107	100	93	86	77
-42.5	69	69	69	68	66	64	61	58	55	51	47
-47.5	40	39	39	39	38	37	35	34	32	31	28
-55.0	17	17	17	16	16	16	15	15	14	14	13
-65.0	8	8	8	8	8	8	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



# Candela Tabulation

Lateral Angle (Degrees)

Vertical 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	3	3	3	2	2	1	0
65.0	7	7	6	6	6	5	5	4	3	2	0
55.0	12	11	10	10	9	8	7	6	4	2	1
47.5	26	23	19	16	13	10	9	7	5	3	1
42.5	41	36	30	24	18	13	10	8	5	3	1
37.5	67	57	46	36	27	18	13	9	6	3	1
33.0	102	84	67	51	36	24	16	10	6	4	1
29.0	154	123	91	67	46	30	19	10	6	4	1
25.5	220	168	123	84	57	36	23	11	7	4	1
22.5	288	220	154	102	67	41	26	12	7	4	1
19.5	353	278	192	124	77	47	28	13	7	4	1
17.0	406	323	228	143	86	51	31	14	7	4	1
15.0	448	357	257	158	93	55	32	14	7	4	1
13.0	487	389	283	174	100	58	34	15	7	4	1
11.0	523	418	306	189	107	61	35	15	7	4	1
9.0	553	443	326	203	114	64	37	16	8	4	1
7.0	577	465	342	215	120	66	38	16	8	4	1
5.0	595	482	355	225	124	68	39	16	8	4	1
3.0	607	493	363	232	127	69	39	17	8	4	1
1.0	613	499	368	235	129	69	39	17	8	4	1
0.0	614	500	368	235	129	69	40	17	8	4	1
-1.0	613	499	368	235	129	69	39	17	8	4	1
-3.0	607	493	363	232	127	69	39	17	8	4	1
-5.0	595	482	355	225	124	68	39	16	8	4	1
-7.0	577	465	342	215	120	66	38	16	8	4	1
-9.0	553	443	326	203	114	64	37	16	8	4	1
-11.0	523	418	306	189	107	61	35	15	7	4	1
-13.0	487	389	283	174	100	58	34	15	7	4	1
-15.0	448	357	257	158	93	55	32	14	7	4	1
-17.0	406	323	228	143	86	51	31	14	7	4	1
-19.5	353	278	192	124	77	47	28	13	7	4	1
-22.5	288	220	154	102	67	41	26	12	7	4	1
-25.5	220	168	123	84	57	36	23	11	7	4	1
-29.0	154	123	91	67	46	30	19	10	6	4	1
-33.0	102	84	67	51	36	24	16	10	6	4	1
-37.5	67	57	46	36	27	18	13	9	6	3	1
-42.5	41	36	30	24	18	13	10	8	5	3	1
-47.5	26	23	19	16	13	10	9	7	5	3	1
-55.0	12	11	10	10	9	8	7	6	4	2	1
-65.0	7	7	6	6	6	5	5	4	3	2	0
-75.0	4	4	4	4	3	3	3	2	2	1	0
-85.0	1	1	1	1	1	1	1	1	0	0	0



## Isocandela Diagram (Percent of Maximum Intensity)

