



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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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

Order Number  
13742921  
Test Number  
13742921.06

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.  
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.  
This report must not be used by the client to claim product certification, approval, or endorsement by  
NVLAP, NIST, or any agency of the Federal Government.



**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:	661.8 Lumens
Luminaire Efficacy:	50.3 lm/w
Maximum Candela:	2723 Candela

#### Test Conditions

Test Temperature:	25.5 °C
Voltage:	120.1 VAC
Current:	0.1114 A
Power:	13.15 W
Power Factor:	0.983
Frequency:	60 Hz
Current THD:	12.2 %

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



## Distribution - Goniophotometer

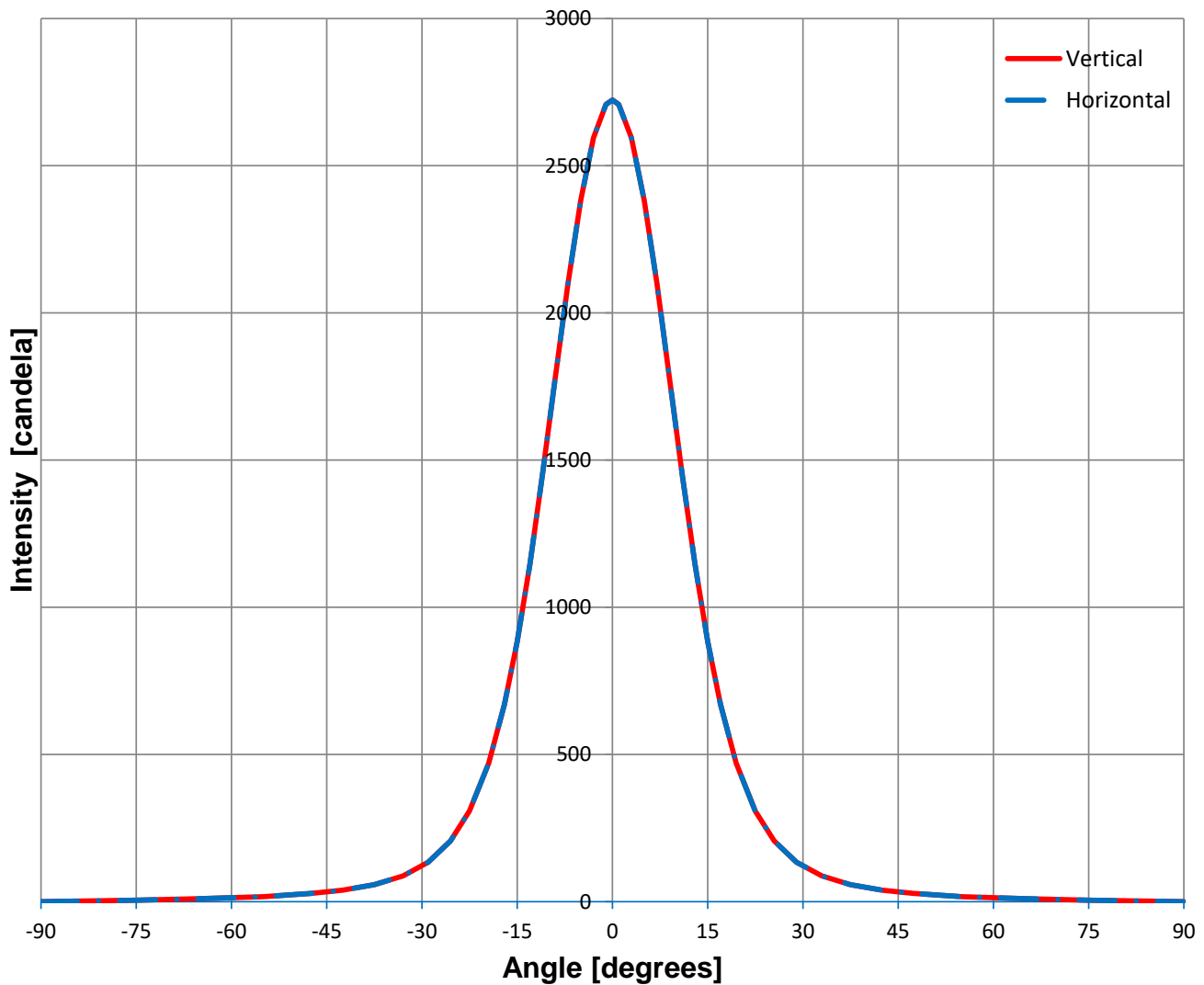
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.5 °C	120.1 VAC	0.1114 A	13.15 W	0.983	60 Hz	12.2 %

### Summary of Results

Total Lumen Output:	661.8 Lumens	Maximum Candela:	2723.4 Candela
Luminaire Efficacy:	50.3 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	499.5 Lumens	Field Angle :	47.1 H X 47.1 V
Beam Lumens:	260.7 Lumens	Beam Angle :	23.2 H X 23.2 V
Spill Light Lumens:	162.3 Lumens	IESNA Type:	4 H X 4 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	5	5	5	5	5	5	5	5	5	4	4
65.0	10	10	10	10	10	10	10	9	9	9	9
55.0	17	17	17	17	17	17	16	16	16	16	15
47.5	28	28	28	28	27	27	26	26	25	24	23
42.5	39	39	39	38	38	37	36	35	34	33	31
37.5	57	57	57	56	55	53	51	49	47	45	42
33.0	87	87	86	85	82	79	75	71	66	62	56
29.0	134	134	132	129	123	117	109	102	93	85	76
25.5	207	206	202	195	185	172	159	144	130	116	100
22.5	308	308	300	286	269	246	222	198	175	153	128
19.5	470	469	456	431	398	359	318	276	238	203	165
17.0	671	668	648	608	555	492	428	365	307	256	203
15.0	884	880	851	795	719	631	541	454	375	307	238
13.0	1147	1142	1101	1022	917	798	674	558	454	365	276
11.0	1451	1444	1389	1284	1145	987	827	674	541	428	318
9.0	1778	1769	1699	1567	1391	1191	987	798	631	492	359
7.0	2099	2088	2003	1845	1632	1391	1145	917	719	555	398
5.0	2383	2369	2271	2089	1845	1567	1284	1022	795	608	431
3.0	2594	2579	2471	2271	2003	1699	1389	1101	851	648	456
1.0	2708	2690	2579	2369	2088	1769	1444	1142	880	668	469
0.0	2723	2708	2594	2383	2099	1778	1451	1147	884	671	470
-1.0	2708	2690	2579	2369	2088	1769	1444	1142	880	668	469
-3.0	2594	2579	2471	2271	2003	1699	1389	1101	851	648	456
-5.0	2383	2369	2271	2089	1845	1567	1284	1022	795	608	431
-7.0	2099	2088	2003	1845	1632	1391	1145	917	719	555	398
-9.0	1778	1769	1699	1567	1391	1191	987	798	631	492	359
-11.0	1451	1444	1389	1284	1145	987	827	674	541	428	318
-13.0	1147	1142	1101	1022	917	798	674	558	454	365	276
-15.0	884	880	851	795	719	631	541	454	375	307	238
-17.0	671	668	648	608	555	492	428	365	307	256	203
-19.5	470	469	456	431	398	359	318	276	238	203	165
-22.5	308	308	300	286	269	246	222	198	175	153	128
-25.5	207	206	202	195	185	172	159	144	130	116	100
-29.0	134	134	132	129	123	117	109	102	93	85	76
-33.0	87	87	86	85	82	79	75	71	66	62	56
-37.5	57	57	57	56	55	53	51	49	47	45	42
-42.5	39	39	39	38	38	37	36	35	34	33	31
-47.5	28	28	28	28	27	27	26	26	25	24	23
-55.0	17	17	17	17	17	17	16	16	16	16	15
-65.0	10	10	10	10	10	10	10	9	9	9	9
-75.0	5	5	5	5	5	5	5	5	5	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	9	8	8	8	7	6	5	4	3	2	0
55.0	15	14	13	12	11	10	9	7	4	2	1
47.5	22	21	18	17	15	13	11	9	5	3	1
42.5	29	27	24	21	18	15	13	10	6	3	1
37.5	38	34	31	27	23	18	15	11	7	3	1
33.0	50	44	38	32	27	21	17	12	8	4	1
29.0	65	56	46	38	31	24	18	13	8	4	1
25.5	83	69	56	44	34	27	21	14	8	4	1
22.5	103	83	65	50	38	29	22	15	9	4	1
19.5	128	100	76	56	42	31	23	15	9	4	1
17.0	153	116	85	62	45	33	24	16	9	4	1
15.0	175	130	93	66	47	34	25	16	9	5	1
13.0	198	144	102	71	49	35	26	16	9	5	1
11.0	222	159	109	75	51	36	26	16	10	5	1
9.0	246	172	117	79	53	37	27	17	10	5	1
7.0	269	185	123	82	55	38	27	17	10	5	1
5.0	286	195	129	85	56	38	28	17	10	5	1
3.0	300	202	132	86	57	39	28	17	10	5	1
1.0	308	206	134	87	57	39	28	17	10	5	1
0.0	308	207	134	87	57	39	28	17	10	5	1
-1.0	308	206	134	87	57	39	28	17	10	5	1
-3.0	300	202	132	86	57	39	28	17	10	5	1
-5.0	286	195	129	85	56	38	28	17	10	5	1
-7.0	269	185	123	82	55	38	27	17	10	5	1
-9.0	246	172	117	79	53	37	27	17	10	5	1
-11.0	222	159	109	75	51	36	26	16	10	5	1
-13.0	198	144	102	71	49	35	26	16	9	5	1
-15.0	175	130	93	66	47	34	25	16	9	5	1
-17.0	153	116	85	62	45	33	24	16	9	4	1
-19.5	128	100	76	56	42	31	23	15	9	4	1
-22.5	103	83	65	50	38	29	22	15	9	4	1
-25.5	83	69	56	44	34	27	21	14	8	4	1
-29.0	65	56	46	38	31	24	18	13	8	4	1
-33.0	50	44	38	32	27	21	17	12	8	4	1
-37.5	38	34	31	27	23	18	15	11	7	3	1
-42.5	29	27	24	21	18	15	13	10	6	3	1
-47.5	22	21	18	17	15	13	11	9	5	3	1
-55.0	15	14	13	12	11	10	9	7	4	2	1
-65.0	9	8	8	8	7	6	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)

