



UL LLC  
1075 W Lambert Rd Suite B  
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## 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IES LM-79-2008, ANSI C82.77-10-2014, IES LM-35-2002 (Withdrawn)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**  
**DE-LED-TR-X125-WFL-9-C-PROTOTYPE(4000K)**

Order Number  
13583921  
Test Number  
13583921.07

Test Date

2021-02-05

Prepared By

Austin Duff, 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 metal cylindrical housing and clear glass lens  
**Lamp:** One (1) White LED  
**Mounting:** Pendant  
**Ballast/Driver:** One (1) ERP EBR020U-0700-30

#### Luminaire



#### Luminaire Characteristics

Luminous Diameter: 2.50 in.

#### Summary of Results

Total Luminaire Output:	1634 Lumens
Luminaire Efficacy:	75.0 lm/w
Maximum Candela:	2165 Candela

#### Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.1841 A
Power:	21.78 W
Power Factor:	0.986
Frequency:	60 Hz
Current THD:	15.7 %

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



## Distribution - Goniophotometer

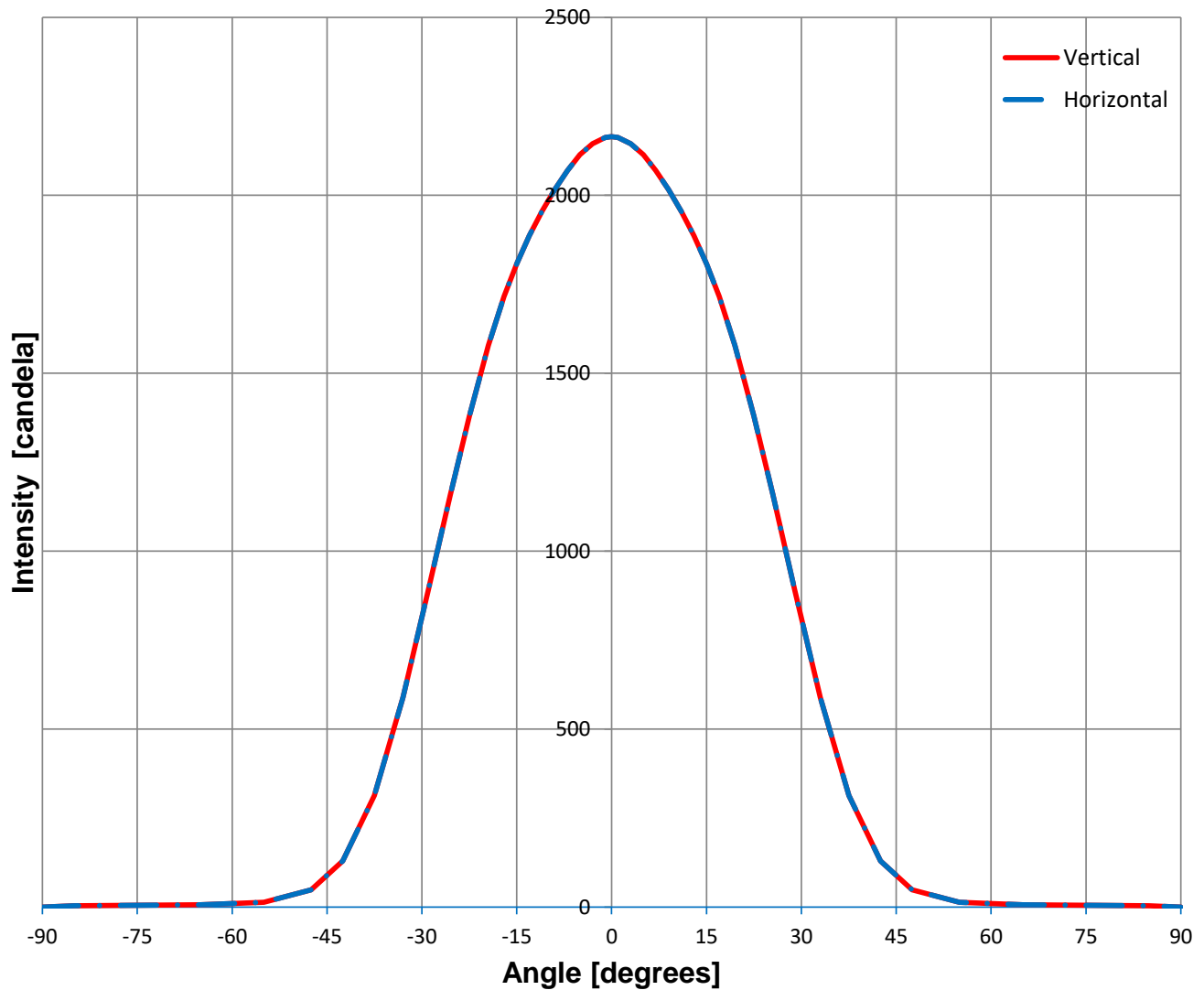
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.9 °C	120.0 VAC	0.1841 A	21.78 W	0.986	60 Hz	15.7 %

### Summary of Results

Total Lumen Output:	1634.1 Lumens	Maximum Candela:	2164.8 Candela
Luminaire Efficacy:	75.0 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	1534.7 Lumens	Field Angle :	80.3 H X 80.3 V
Beam Lumens:	1085.6 Lumens	Beam Angle :	53.0 H X 53.0 V
Spill Light Lumens:	99.4 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	4	4	4	4	4	4	4	4	4	4	4
75.0	5	5	5	5	5	5	5	5	5	5	5
65.0	7	7	7	7	7	7	7	6	6	6	6
55.0	13	13	13	13	13	12	12	12	11	11	10
47.5	49	48	48	47	45	43	40	37	34	31	27
42.5	129	129	127	124	118	112	104	95	87	77	66
37.5	313	313	308	299	286	270	250	229	206	182	153
33.0	589	588	581	566	544	515	482	443	400	356	300
29.0	888	887	877	858	829	792	747	695	636	573	490
25.5	1158	1156	1145	1123	1091	1048	994	932	863	786	684
22.5	1380	1378	1366	1343	1307	1261	1202	1134	1057	970	854
19.5	1578	1576	1565	1541	1505	1456	1395	1323	1240	1146	1019
17.0	1716	1714	1703	1679	1645	1598	1537	1464	1378	1282	1146
15.0	1807	1806	1794	1771	1738	1693	1634	1563	1478	1378	1240
13.0	1887	1886	1874	1852	1818	1772	1717	1647	1563	1464	1323
11.0	1955	1954	1943	1921	1886	1841	1784	1717	1634	1537	1395
9.0	2016	2015	2002	1978	1943	1898	1841	1772	1693	1598	1456
7.0	2070	2068	2054	2028	1991	1943	1886	1818	1738	1645	1505
5.0	2114	2112	2097	2068	2028	1978	1921	1852	1771	1679	1541
3.0	2145	2143	2127	2097	2054	2002	1943	1874	1794	1703	1565
1.0	2163	2160	2143	2112	2068	2015	1954	1886	1806	1714	1576
0.0	2165	2163	2145	2114	2070	2016	1955	1887	1807	1716	1578
-1.0	2163	2160	2143	2112	2068	2015	1954	1886	1806	1714	1576
-3.0	2145	2143	2127	2097	2054	2002	1943	1874	1794	1703	1565
-5.0	2114	2112	2097	2068	2028	1978	1921	1852	1771	1679	1541
-7.0	2070	2068	2054	2028	1991	1943	1886	1818	1738	1645	1505
-9.0	2016	2015	2002	1978	1943	1898	1841	1772	1693	1598	1456
-11.0	1955	1954	1943	1921	1886	1841	1784	1717	1634	1537	1395
-13.0	1887	1886	1874	1852	1818	1772	1717	1647	1563	1464	1323
-15.0	1807	1806	1794	1771	1738	1693	1634	1563	1478	1378	1240
-17.0	1716	1714	1703	1679	1645	1598	1537	1464	1378	1282	1146
-19.5	1578	1576	1565	1541	1505	1456	1395	1323	1240	1146	1019
-22.5	1380	1378	1366	1343	1307	1261	1202	1134	1057	970	854
-25.5	1158	1156	1145	1123	1091	1048	994	932	863	786	684
-29.0	888	887	877	858	829	792	747	695	636	573	490
-33.0	589	588	581	566	544	515	482	443	400	356	300
-37.5	313	313	308	299	286	270	250	229	206	182	153
-42.5	129	129	127	124	118	112	104	95	87	77	66
-47.5	49	48	48	47	45	43	40	37	34	31	27
-55.0	13	13	13	13	13	12	12	12	11	11	10
-65.0	7	7	7	7	7	7	7	6	6	6	6
-75.0	5	5	5	5	5	5	5	5	5	5	5
-85.0	4	4	4	4	4	4	4	4	4	4	4



### 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	3	3	3	3	3	3	3	2	2	1	0
75.0	5	5	5	5	5	4	4	4	4	3	1
65.0	6	6	6	6	6	5	5	5	4	4	2
55.0	10	9	9	8	7	7	6	5	5	4	2
47.5	23	19	16	12	10	8	7	6	5	4	3
42.5	53	42	31	21	15	11	8	7	5	4	3
37.5	121	92	64	42	25	15	10	7	6	5	3
33.0	235	177	122	75	42	21	12	8	6	5	3
29.0	389	295	201	122	64	31	16	9	6	5	3
25.5	554	428	295	177	92	42	19	9	6	5	3
22.5	706	554	389	235	121	53	23	10	6	5	3
19.5	854	684	490	300	153	66	27	10	6	5	4
17.0	970	786	573	356	182	77	31	11	6	5	4
15.0	1057	863	636	400	206	87	34	11	6	5	4
13.0	1134	932	695	443	229	95	37	12	6	5	4
11.0	1202	994	747	482	250	104	40	12	7	5	4
9.0	1261	1048	792	515	270	112	43	12	7	5	4
7.0	1307	1091	829	544	286	118	45	13	7	5	4
5.0	1343	1123	858	566	299	124	47	13	7	5	4
3.0	1366	1145	877	581	308	127	48	13	7	5	4
1.0	1378	1156	887	588	313	129	48	13	7	5	4
0.0	1380	1158	888	589	313	129	49	13	7	5	4
-1.0	1378	1156	887	588	313	129	48	13	7	5	4
-3.0	1366	1145	877	581	308	127	48	13	7	5	4
-5.0	1343	1123	858	566	299	124	47	13	7	5	4
-7.0	1307	1091	829	544	286	118	45	13	7	5	4
-9.0	1261	1048	792	515	270	112	43	12	7	5	4
-11.0	1202	994	747	482	250	104	40	12	7	5	4
-13.0	1134	932	695	443	229	95	37	12	6	5	4
-15.0	1057	863	636	400	206	87	34	11	6	5	4
-17.0	970	786	573	356	182	77	31	11	6	5	4
-19.5	854	684	490	300	153	66	27	10	6	5	4
-22.5	706	554	389	235	121	53	23	10	6	5	3
-25.5	554	428	295	177	92	42	19	9	6	5	3
-29.0	389	295	201	122	64	31	16	9	6	5	3
-33.0	235	177	122	75	42	21	12	8	6	5	3
-37.5	121	92	64	42	25	15	10	7	6	5	3
-42.5	53	42	31	21	15	11	8	7	5	4	3
-47.5	23	19	16	12	10	8	7	6	5	4	3
-55.0	10	9	9	8	7	7	6	5	5	4	2
-65.0	6	6	6	6	6	5	5	5	4	4	2
-75.0	5	5	5	5	5	4	4	4	4	3	1
-85.0	3	3	3	3	3	3	3	2	2	1	0



### Isocandela Diagram (Percent of Maximum Intensity)

