



UL LLC  
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## Floodlight Distribution Test Report

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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)

Prepared For  
**B-K Lighting Inc**  
Daniel Carrejo  
40429 Brickyard Dr  
Madera, CA 93636-9515  
United States

Catalog Number  
**DE-LED-TR-X100-WFL-9-4000K**  
Order Number  
12439915  
Test Number  
12439915.05

Test Date

2018-09-11

Prepared By

William Escobar, 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 cylindrical metal housing with plastic prismatic reflector and clear glass lens  
**Lamp:** One (1) LED with optics below  
**Mounting:** Pendant  
**Ballast/Driver:** ERP EBR015U-0440-36

#### Luminaire



#### Luminaire Characteristics

Luminous Diameter: 2.50 in.

#### Summary of Results

Total Luminaire Output:	1285 Lumens
Luminaire Efficacy:	99.9 lm/w
Maximum Candela:	1610 Candela

#### Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.1089 A
Power:	12.87 W
Power Factor:	0.984
Frequency:	60 Hz
Current THD:	14.3 %

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



## Distribution - Goniophotometer

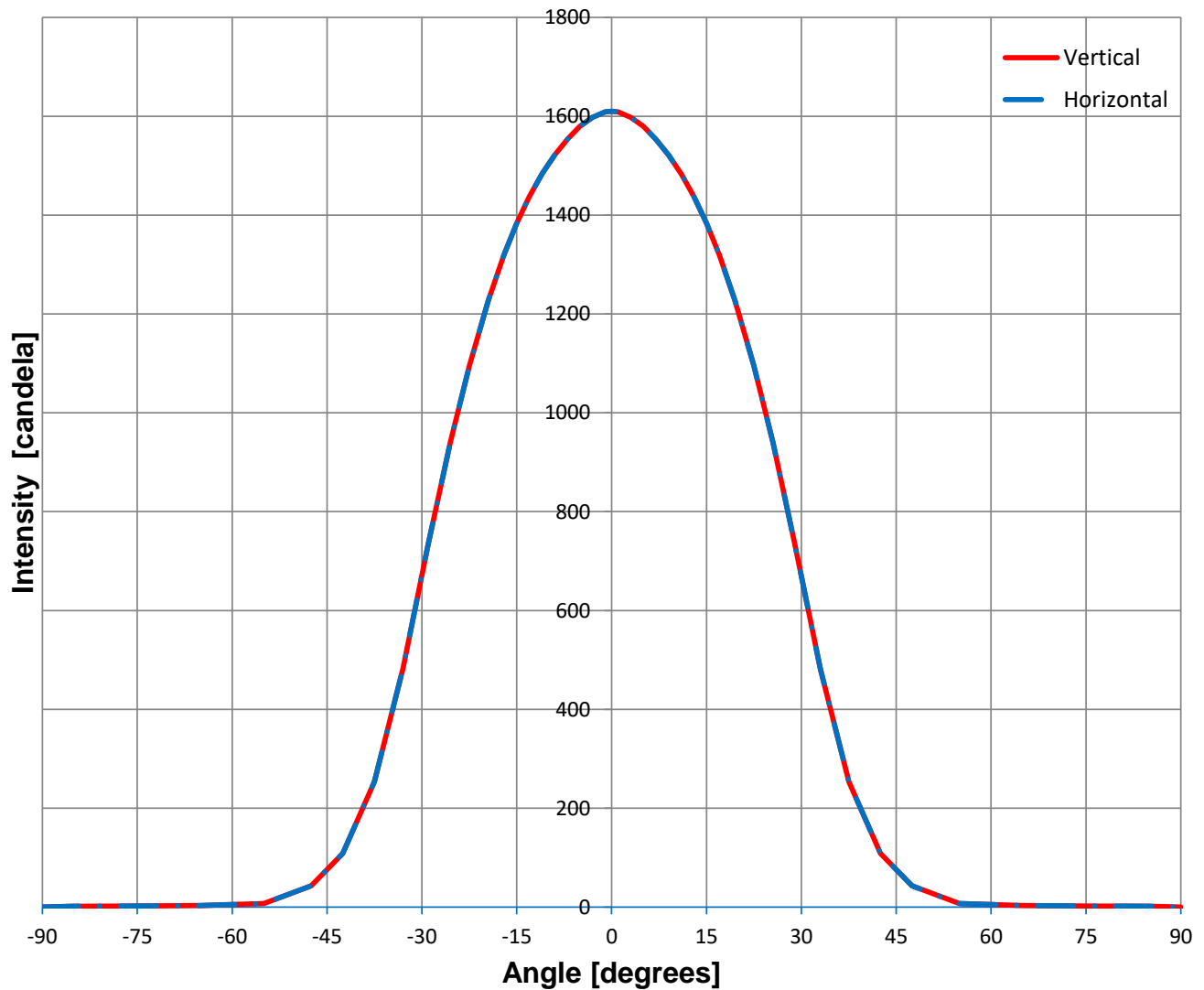
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.1089 A	12.87 W	0.984	60 Hz	14.3 %

### Summary of Results

Total Lumen Output:	1285.2 Lumens	Maximum Candela:	1610.0 Candela
Luminaire Efficacy:	99.9 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	1215.3 Lumens	Field Angle :	81.4 H X 81.4 V
Beam Lumens:	885.7 Lumens	Beam Angle :	55.6 H X 55.6 V
Spill Light Lumens:	70.0 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	2	2	2	2	2	2	2	2	2	2	2
75.0	2	2	2	2	2	2	2	2	2	2	2
65.0	3	3	3	3	3	3	3	3	3	3	3
55.0	7	7	7	7	7	7	6	6	6	5	5
47.5	43	43	42	41	40	38	35	33	30	27	23
42.5	108	108	107	104	100	95	89	82	75	67	58
37.5	254	253	249	242	232	219	204	187	168	150	127
33.0	483	482	476	463	444	420	391	359	324	288	243
29.0	733	732	724	709	685	655	617	573	523	469	398
25.5	940	939	931	914	890	858	817	769	713	650	563
22.5	1095	1094	1086	1070	1045	1013	972	922	864	799	706
19.5	1227	1226	1218	1203	1178	1146	1105	1056	998	931	836
17.0	1320	1319	1311	1295	1272	1240	1200	1152	1094	1027	931
15.0	1383	1382	1374	1359	1335	1304	1265	1217	1160	1094	998
13.0	1438	1437	1429	1414	1391	1360	1321	1273	1217	1152	1056
11.0	1483	1482	1475	1460	1437	1407	1368	1321	1265	1200	1105
9.0	1522	1521	1513	1498	1475	1445	1407	1360	1304	1240	1146
7.0	1554	1553	1544	1528	1505	1475	1437	1391	1335	1272	1178
5.0	1580	1579	1570	1553	1528	1498	1460	1414	1359	1295	1203
3.0	1598	1597	1587	1570	1544	1513	1475	1429	1374	1311	1218
1.0	1609	1607	1597	1579	1553	1521	1482	1437	1382	1319	1226
0.0	1610	1609	1598	1580	1554	1522	1483	1438	1383	1320	1227
-1.0	1609	1607	1597	1579	1553	1521	1482	1437	1382	1319	1226
-3.0	1598	1597	1587	1570	1544	1513	1475	1429	1374	1311	1218
-5.0	1580	1579	1570	1553	1528	1498	1460	1414	1359	1295	1203
-7.0	1554	1553	1544	1528	1505	1475	1437	1391	1335	1272	1178
-9.0	1522	1521	1513	1498	1475	1445	1407	1360	1304	1240	1146
-11.0	1483	1482	1475	1460	1437	1407	1368	1321	1265	1200	1105
-13.0	1438	1437	1429	1414	1391	1360	1321	1273	1217	1152	1056
-15.0	1383	1382	1374	1359	1335	1304	1265	1217	1160	1094	998
-17.0	1320	1319	1311	1295	1272	1240	1200	1152	1094	1027	931
-19.5	1227	1226	1218	1203	1178	1146	1105	1056	998	931	836
-22.5	1095	1094	1086	1070	1045	1013	972	922	864	799	706
-25.5	940	939	931	914	890	858	817	769	713	650	563
-29.0	733	732	724	709	685	655	617	573	523	469	398
-33.0	483	482	476	463	444	420	391	359	324	288	243
-37.5	254	253	249	242	232	219	204	187	168	150	127
-42.5	108	108	107	104	100	95	89	82	75	67	58
-47.5	43	43	42	41	40	38	35	33	30	27	23
-55.0	7	7	7	7	7	7	6	6	6	5	5
-65.0	3	3	3	3	3	3	3	3	3	3	3
-75.0	2	2	2	2	2	2	2	2	2	2	2
-85.0	2	2	2	2	2	2	2	2	2	2	2



### 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	2	2	2	2	2	1	1	1	1	1	0
75.0	2	2	2	2	2	2	2	2	2	2	1
65.0	3	3	3	3	2	2	2	2	2	2	1
55.0	5	4	4	4	3	3	3	2	2	2	1
47.5	18	14	10	7	5	4	3	3	2	2	1
42.5	47	37	26	16	9	5	4	3	2	2	1
37.5	101	79	57	37	20	9	5	3	2	2	2
33.0	192	146	102	66	37	16	7	4	3	2	2
29.0	314	239	165	102	57	26	10	4	3	2	2
25.5	453	346	239	146	79	37	14	4	3	2	2
22.5	582	453	314	192	101	47	18	5	3	2	2
19.5	706	563	398	243	127	58	23	5	3	2	2
17.0	799	650	469	288	150	67	27	5	3	2	2
15.0	864	713	523	324	168	75	30	6	3	2	2
13.0	922	769	573	359	187	82	33	6	3	2	2
11.0	972	817	617	391	204	89	35	6	3	2	2
9.0	1013	858	655	420	219	95	38	7	3	2	2
7.0	1045	890	685	444	232	100	40	7	3	2	2
5.0	1070	914	709	463	242	104	41	7	3	2	2
3.0	1086	931	724	476	249	107	42	7	3	2	2
1.0	1094	939	732	482	253	108	43	7	3	2	2
0.0	1095	940	733	483	254	108	43	7	3	2	2
-1.0	1094	939	732	482	253	108	43	7	3	2	2
-3.0	1086	931	724	476	249	107	42	7	3	2	2
-5.0	1070	914	709	463	242	104	41	7	3	2	2
-7.0	1045	890	685	444	232	100	40	7	3	2	2
-9.0	1013	858	655	420	219	95	38	7	3	2	2
-11.0	972	817	617	391	204	89	35	6	3	2	2
-13.0	922	769	573	359	187	82	33	6	3	2	2
-15.0	864	713	523	324	168	75	30	6	3	2	2
-17.0	799	650	469	288	150	67	27	5	3	2	2
-19.5	706	563	398	243	127	58	23	5	3	2	2
-22.5	582	453	314	192	101	47	18	5	3	2	2
-25.5	453	346	239	146	79	37	14	4	3	2	2
-29.0	314	239	165	102	57	26	10	4	3	2	2
-33.0	192	146	102	66	37	16	7	4	3	2	2
-37.5	101	79	57	37	20	9	5	3	2	2	2
-42.5	47	37	26	16	9	5	4	3	2	2	1
-47.5	18	14	10	7	5	4	3	3	2	2	1
-55.0	5	4	4	4	3	3	3	2	2	2	1
-65.0	3	3	3	3	2	2	2	2	2	2	1
-75.0	2	2	2	2	2	2	2	2	2	2	1
-85.0	2	2	2	2	2	1	1	1	1	1	0



### Isocandela Diagram (Percent of Maximum Intensity)

