



UL LLC  
1075 W Lambert Rd Suite B  
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## Floodlight Distribution Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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-SP-13(40°x1°)-4000K**  
Order Number  
12439915  
Test Number  
12439915.06

Test Date

2018-09-11

Prepared By

William Escobar, Technician

Approved By

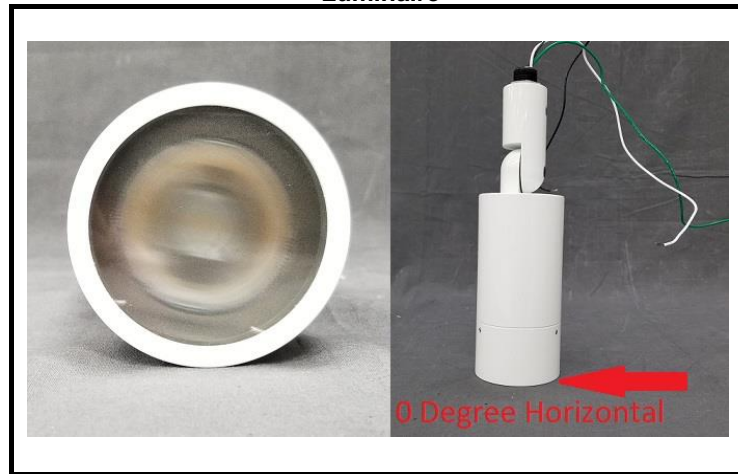
Eric Gaudreau, Engineering Leader

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, inner frosted lens, and outer 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:	892.5 Lumens
Luminaire Efficacy:	69.6 lm/w
Maximum Candela:	2970 Candela

#### Test Conditions

Test Temperature:	24.4 °C
Voltage:	120.0 VAC
Current:	0.1085 A
Power:	12.82 W
Power Factor:	0.985
Frequency:	60 Hz
Current THD:	13.6 %

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



## Distribution - Goniophotometer

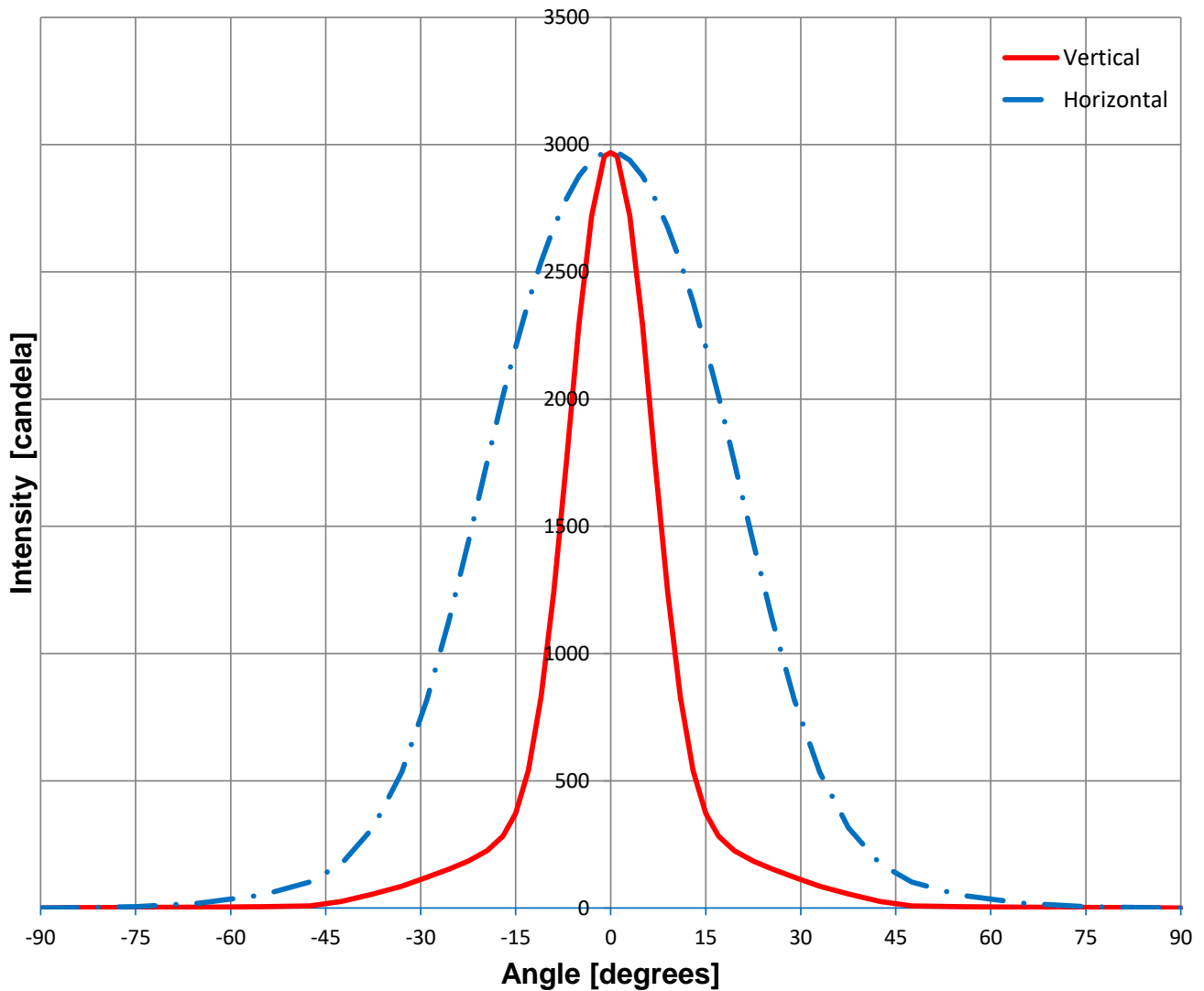
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.4 °C	120.0 VAC	0.1085 A	12.82 W	0.985	60 Hz	13.6 %

### Summary of Results

Total Lumen Output:	892.5 Lumens	Maximum Candela:	2970.2 Candela
Luminaire Efficacy:	69.6 Lumens/Watt	Maximum Angle:	1 H 0 V
Field Lumens:	686.9 Lumens	Field Angle :	76.3 H X 33.4 V
Beam Lumens:	373.5 Lumens	Beam Angle :	44.1 H X 16.0 V
Spill Light Lumens:	205.6 Lumens	IESNA Type:	5 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	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	5	5	5	5	5	5	5	5	5	5	5
47.5	8	8	8	8	9	9	9	10	10	11	12
42.5	26	26	26	26	26	26	26	27	27	27	28
37.5	55	55	54	54	54	53	53	53	53	52	51
33.0	86	86	85	85	85	84	83	82	81	80	78
29.0	121	121	120	120	118	117	116	114	111	109	105
25.5	153	152	151	150	148	147	144	142	139	135	129
22.5	185	184	182	181	180	177	174	171	167	162	156
19.5	226	225	224	223	221	218	215	211	206	201	193
17.0	282	283	283	282	280	276	274	269	264	257	246
15.0	371	373	375	374	370	367	363	357	347	336	322
13.0	539	541	544	540	534	527	518	506	489	474	446
11.0	829	825	830	818	806	792	772	741	712	678	624
9.0	1242	1232	1236	1212	1196	1162	1118	1070	1013	950	859
7.0	1755	1737	1733	1706	1665	1608	1541	1465	1375	1272	1131
5.0	2293	2268	2248	2215	2148	2074	1980	1865	1732	1590	1397
3.0	2720	2689	2672	2620	2542	2440	2323	2177	2019	1847	1611
1.0	2955	2929	2903	2843	2755	2645	2514	2357	2179	1986	1731
0.0	2968	2970	2938	2877	2788	2675	2539	2381	2204	2012	1754
-1.0	2955	2929	2903	2843	2755	2645	2514	2357	2179	1986	1731
-3.0	2720	2689	2672	2620	2542	2440	2323	2177	2019	1847	1611
-5.0	2293	2268	2248	2215	2148	2074	1980	1865	1732	1590	1397
-7.0	1755	1737	1733	1706	1665	1608	1541	1465	1375	1272	1131
-9.0	1242	1232	1236	1212	1196	1162	1118	1070	1013	950	859
-11.0	829	825	830	818	806	792	772	741	712	678	624
-13.0	539	541	544	540	534	527	518	506	489	474	446
-15.0	371	373	375	374	370	367	363	357	347	336	322
-17.0	282	283	283	282	280	276	274	269	264	257	246
-19.5	226	225	224	223	221	218	215	211	206	201	193
-22.5	185	184	182	181	180	177	174	171	167	162	156
-25.5	153	152	151	150	148	147	144	142	139	135	129
-29.0	121	121	120	120	118	117	116	114	111	109	105
-33.0	86	86	85	85	85	84	83	82	81	80	78
-37.5	55	55	54	54	54	53	53	53	53	52	51
-42.5	26	26	26	26	26	26	26	27	27	27	28
-47.5	8	8	8	8	9	9	9	10	10	11	12
-55.0	5	5	5	5	5	5	5	5	5	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	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	2	2	2	2	2	2	2	2	2	1	0
65.0	3	3	3	3	3	3	3	2	2	2	1
55.0	5	5	6	6	6	6	5	4	3	2	1
47.5	12	13	13	14	13	12	10	7	4	2	1
42.5	28	28	27	25	23	20	16	10	5	3	1
37.5	50	48	45	41	36	30	23	14	7	3	1
33.0	74	71	65	59	50	41	31	19	8	3	1
29.0	99	93	85	76	64	51	39	23	10	4	1
25.5	123	115	105	92	77	61	46	28	11	4	1
22.5	147	138	125	109	91	71	53	31	13	4	1
19.5	182	169	153	132	108	82	61	35	14	4	1
17.0	230	215	191	160	126	94	67	38	15	4	1
15.0	301	273	233	192	146	104	72	41	16	5	2
13.0	404	354	299	233	169	114	78	43	16	5	2
11.0	547	473	380	285	195	126	83	45	17	5	2
9.0	740	617	481	342	224	138	88	47	18	5	2
7.0	954	777	585	404	253	149	93	49	18	5	2
5.0	1158	930	684	459	280	161	97	50	18	5	2
3.0	1325	1052	769	506	300	167	99	51	19	5	2
1.0	1417	1115	806	526	311	172	101	51	19	5	2
0.0	1437	1132	819	534	315	173	102	52	19	5	2
-1.0	1417	1115	806	526	311	172	101	51	19	5	2
-3.0	1325	1052	769	506	300	167	99	51	19	5	2
-5.0	1158	930	684	459	280	161	97	50	18	5	2
-7.0	954	777	585	404	253	149	93	49	18	5	2
-9.0	740	617	481	342	224	138	88	47	18	5	2
-11.0	547	473	380	285	195	126	83	45	17	5	2
-13.0	404	354	299	233	169	114	78	43	16	5	2
-15.0	301	273	233	192	146	104	72	41	16	5	2
-17.0	230	215	191	160	126	94	67	38	15	4	1
-19.5	182	169	153	132	108	82	61	35	14	4	1
-22.5	147	138	125	109	91	71	53	31	13	4	1
-25.5	123	115	105	92	77	61	46	28	11	4	1
-29.0	99	93	85	76	64	51	39	23	10	4	1
-33.0	74	71	65	59	50	41	31	19	8	3	1
-37.5	50	48	45	41	36	30	23	14	7	3	1
-42.5	28	28	27	25	23	20	16	10	5	3	1
-47.5	12	13	13	14	13	12	10	7	4	2	1
-55.0	5	5	6	6	6	6	5	4	3	2	1
-65.0	3	3	3	3	3	3	3	2	2	2	1
-75.0	2	2	2	2	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)

