



UL LLC  
1075 W Lambert Rd Suite B  
Brea, CA 92821

## 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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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**  
Chris McCarthy  
40429 Brickyard Dr  
Madera, CA 93636-9515  
United States

**Catalog Number**  
**PNF-12-LED-e66-WHP-12-FL-C**  
Order Number  
11913931  
Test Number  
11913931.08A  
Revised date:  
2017-08-28  
Test Date  
  
2017-08-17

Prepared By

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Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Formed white metal housing with patterned lens  
**Lamp:** Three (3) white LEDs with optics  
**Mounting:** Pole/Arm  
**Ballast/Driver:** TRE20

**Luminaire**



**Luminaire Characteristics**

Luminous Diameter: 1.75 in.

**Summary of Results**

Total Luminaire Output:	445.8 Lumens
Luminaire Efficacy:	53.9 lm/w
Maximum Candela:	2311 Candela

**Test Conditions**

Test Temperature:	24.3 °C
Voltage:	120.1 VAC
Current:	0.1117 A
Power:	8.273 W
Power Factor:	0.616
Frequency:	60 Hz
Current THD:	127 %

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



## Distribution - Goniophotometer

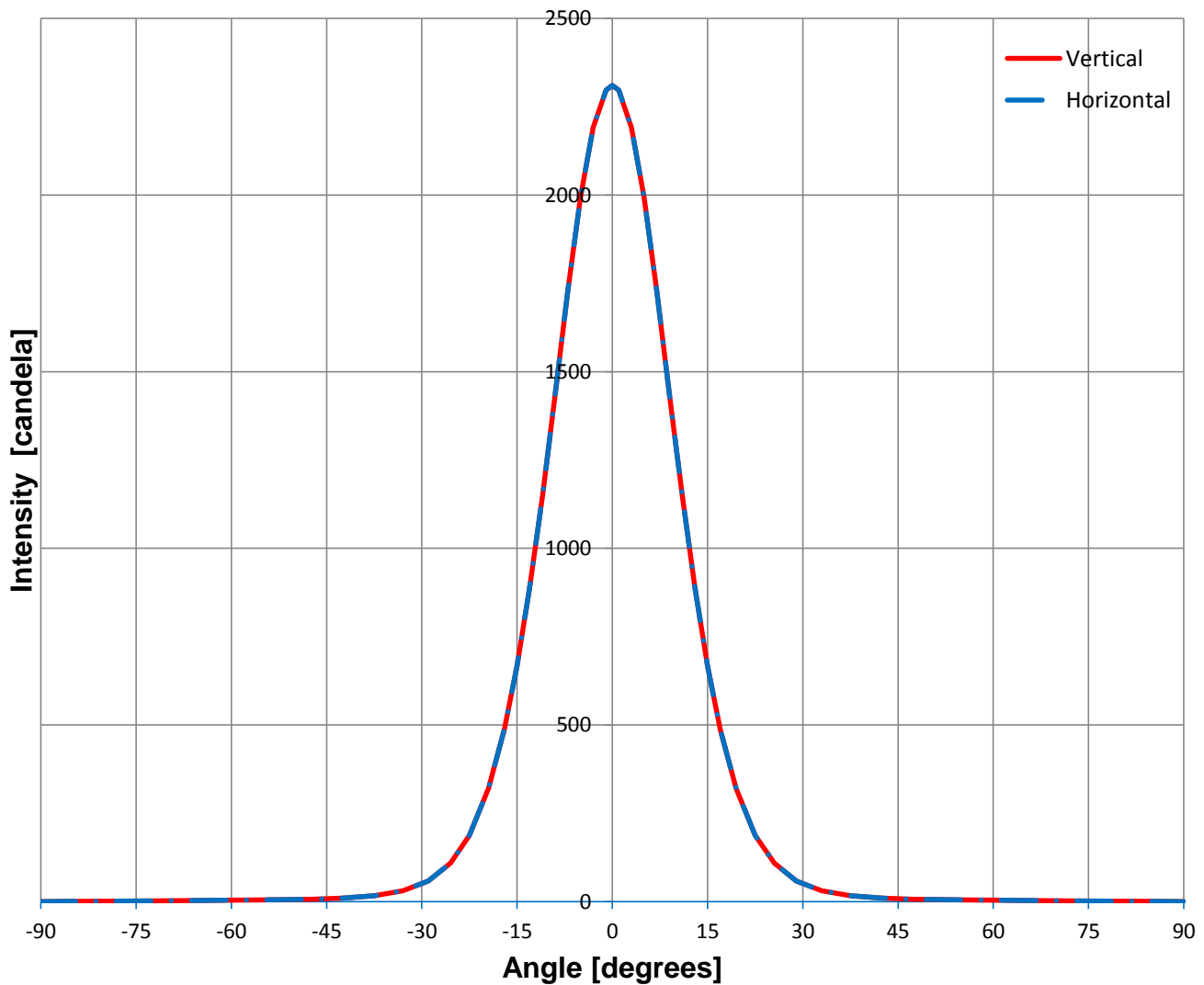
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	120.1 VAC	0.1117 A	8.273 W	0.616	60 Hz	127 %

### Summary of Results

Total Lumen Output:	445.8 Lumens	Maximum Candela:	2310.6 Candela
Luminaire Efficacy:	53.9 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	368.0 Lumens	Field Angle :	43.0 H X 43.0 V
Beam Lumens:	181.2 Lumens	Beam Angle :	21.9 H X 21.9 V
Spill Light Lumens:	77.9 Lumens	IESNA Type:	3 H X 3 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	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	4	4	4	4	4	4
47.5	7	7	7	7	7	6	6	6	6	6	6
42.5	10	10	10	10	9	9	9	9	8	8	7
37.5	17	17	16	16	16	15	14	13	13	12	11
33.0	30	30	30	29	28	26	24	22	20	18	16
29.0	58	58	57	55	51	47	43	38	34	29	25
25.5	109	108	105	100	93	84	74	65	55	47	37
22.5	187	187	181	170	156	138	120	102	85	70	54
19.5	320	319	308	287	260	228	195	162	132	106	79
17.0	487	485	468	435	391	339	285	233	186	146	106
15.0	667	664	639	591	528	455	379	306	241	186	132
13.0	888	884	849	782	695	594	490	393	306	233	162
11.0	1149	1143	1096	1006	887	753	618	490	379	285	195
9.0	1437	1429	1367	1251	1098	926	753	594	455	339	228
7.0	1730	1720	1641	1497	1308	1098	887	695	528	391	260
5.0	1994	1981	1889	1721	1497	1251	1006	782	591	435	287
3.0	2191	2177	2076	1889	1641	1367	1096	849	639	468	308
1.0	2297	2281	2177	1981	1720	1429	1143	884	664	485	319
0.0	2311	2297	2191	1994	1730	1437	1149	888	667	487	320
-1.0	2297	2281	2177	1981	1720	1429	1143	884	664	485	319
-3.0	2191	2177	2076	1889	1641	1367	1096	849	639	468	308
-5.0	1994	1981	1889	1721	1497	1251	1006	782	591	435	287
-7.0	1730	1720	1641	1497	1308	1098	887	695	528	391	260
-9.0	1437	1429	1367	1251	1098	926	753	594	455	339	228
-11.0	1149	1143	1096	1006	887	753	618	490	379	285	195
-13.0	888	884	849	782	695	594	490	393	306	233	162
-15.0	667	664	639	591	528	455	379	306	241	186	132
-17.0	487	485	468	435	391	339	285	233	186	146	106
-19.5	320	319	308	287	260	228	195	162	132	106	79
-22.5	187	187	181	170	156	138	120	102	85	70	54
-25.5	109	108	105	100	93	84	74	65	55	47	37
-29.0	58	58	57	55	51	47	43	38	34	29	25
-33.0	30	30	30	29	28	26	24	22	20	18	16
-37.5	17	17	16	16	16	15	14	13	13	12	11
-42.5	10	10	10	10	9	9	9	9	8	8	7
-47.5	7	7	7	7	7	6	6	6	6	6	6
-55.0	5	5	5	5	5	4	4	4	4	4	4
-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



# 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	0	0	0	0
75.0	2	2	2	2	2	2	1	1	1	1	0
65.0	3	3	3	3	2	2	2	2	1	1	0
55.0	4	4	4	4	3	3	3	2	2	1	0
47.5	5	5	5	4	4	4	3	3	2	1	1
42.5	7	6	6	5	5	4	4	3	2	2	1
37.5	10	8	7	6	5	5	4	3	2	2	1
33.0	14	12	10	8	6	5	4	4	3	2	1
29.0	20	16	12	10	7	6	5	4	3	2	1
25.5	28	22	16	12	8	6	5	4	3	2	1
22.5	39	28	20	14	10	7	5	4	3	2	1
19.5	54	37	25	16	11	7	6	4	3	2	1
17.0	70	47	29	18	12	8	6	4	3	2	1
15.0	85	55	34	20	13	8	6	4	3	2	1
13.0	102	65	38	22	13	9	6	4	3	2	1
11.0	120	74	43	24	14	9	6	4	3	2	1
9.0	138	84	47	26	15	9	6	4	3	2	1
7.0	156	93	51	28	16	9	7	5	3	2	1
5.0	170	100	55	29	16	10	7	5	3	2	1
3.0	181	105	57	30	16	10	7	5	3	2	1
1.0	187	108	58	30	17	10	7	5	3	2	1
0.0	187	109	58	30	17	10	7	5	3	2	1
-1.0	187	108	58	30	17	10	7	5	3	2	1
-3.0	181	105	57	30	16	10	7	5	3	2	1
-5.0	170	100	55	29	16	10	7	5	3	2	1
-7.0	156	93	51	28	16	9	7	5	3	2	1
-9.0	138	84	47	26	15	9	6	4	3	2	1
-11.0	120	74	43	24	14	9	6	4	3	2	1
-13.0	102	65	38	22	13	9	6	4	3	2	1
-15.0	85	55	34	20	13	8	6	4	3	2	1
-17.0	70	47	29	18	12	8	6	4	3	2	1
-19.5	54	37	25	16	11	7	6	4	3	2	1
-22.5	39	28	20	14	10	7	5	4	3	2	1
-25.5	28	22	16	12	8	6	5	4	3	2	1
-29.0	20	16	12	10	7	6	5	4	3	2	1
-33.0	14	12	10	8	6	5	4	4	3	2	1
-37.5	10	8	7	6	5	5	4	3	2	2	1
42.5	7	6	6	5	5	4	4	3	2	2	1
-47.5	5	5	5	4	4	4	3	3	2	1	1
-55.0	4	4	4	4	3	3	3	2	2	1	0
-65.0	3	3	3	3	2	2	2	2	1	1	0
-75.0	2	2	2	2	2	2	1	1	1	1	0
-85.0	1	1	1	1	1	1	1	0	0	0	0



## Isocandela Diagram (Percent of Maximum Intensity)

