



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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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-WFL-C**  
Order Number  
11913931  
Test Number  
11913931.09A  
Revised date:  
2017-08-28  
Test Date  
  
2017-08-28

Prepared By

Tony Rubio, Technician

Approved By

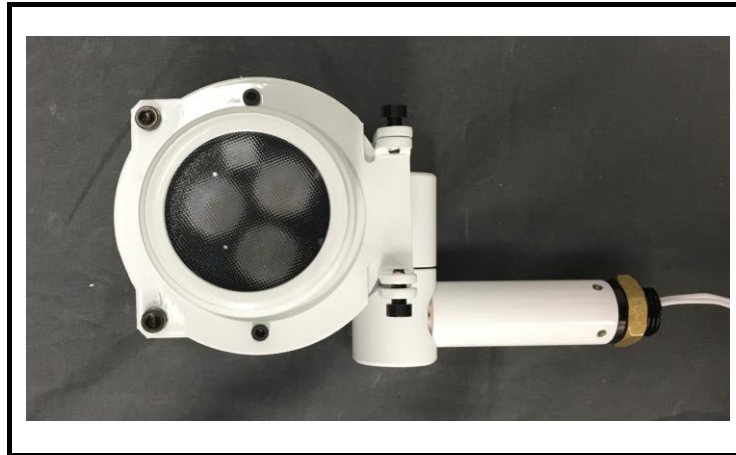
Eric Gaudreau, Senior Engineering Associate

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:** 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:	331.3 Lumens
Luminaire Efficacy:	40.1 lm/w
Maximum Candela:	888 Candela

#### Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.1120 A
Power:	8.258 W
Power Factor:	0.614
Frequency:	60 Hz
Current THD:	127 %

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



## Distribution - Goniophotometer

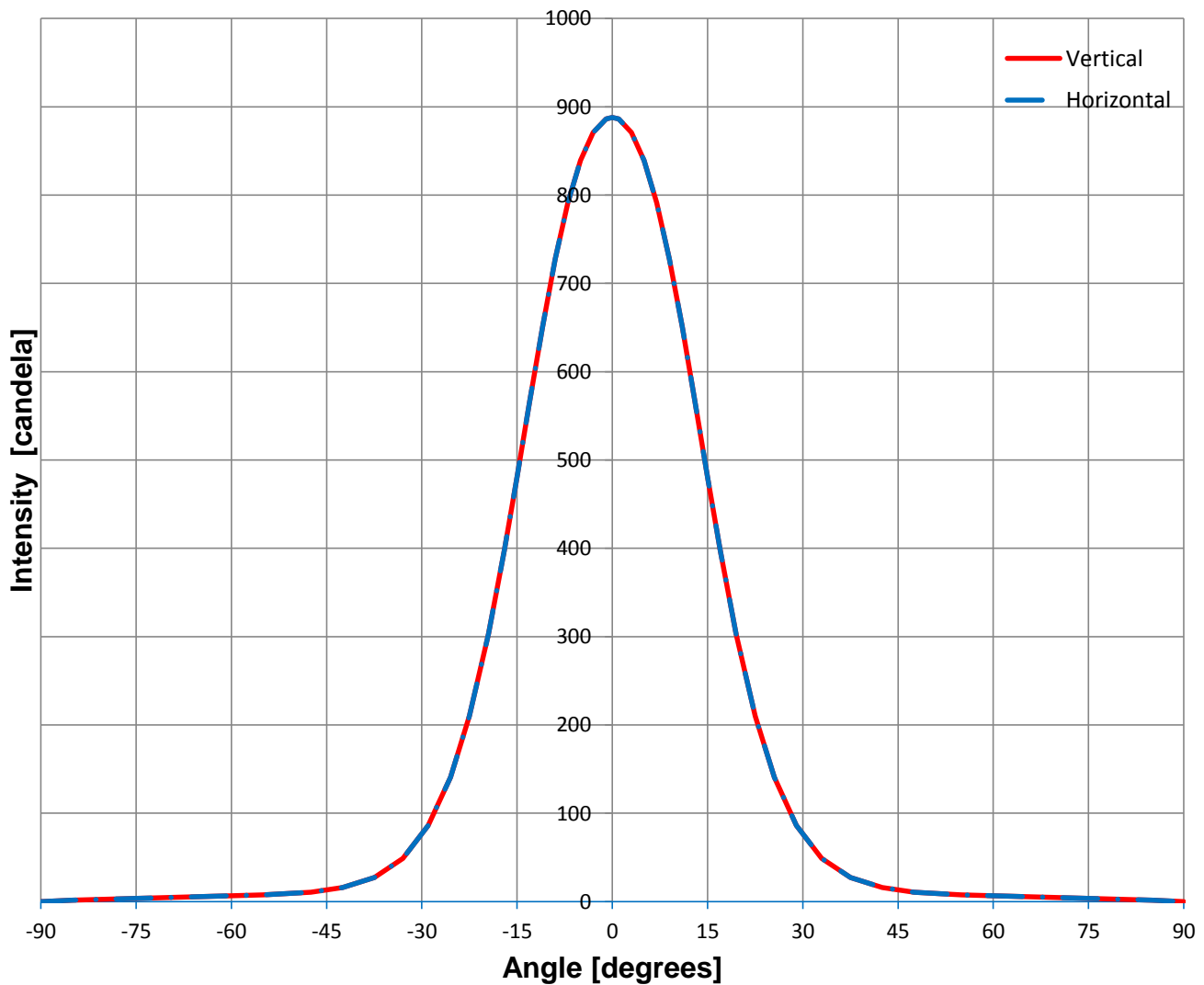
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.2 °C	120.0 VAC	0.1120 A	8.258 W	0.614	60 Hz	127 %

### Summary of Results

Total Lumen Output:	331.3 Lumens	Maximum Candela:	888.1 Candela
Luminaire Efficacy:	40.1 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	271.0 Lumens	Field Angle :	57.7 H X 57.7 V
Beam Lumens:	161.0 Lumens	Beam Angle :	31.8 H X 31.8 V
Spill Light Lumens:	60.3 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	2	2	2	2	2	2	2	2	2	2	1
75.0	4	4	4	4	4	4	4	4	3	3	3
65.0	6	6	6	6	6	6	6	6	5	5	5
55.0	7	7	7	7	7	7	7	7	7	7	7
47.5	11	10	10	10	10	10	10	10	9	9	9
42.5	16	16	16	15	15	15	14	14	13	12	12
37.5	27	27	27	26	26	24	23	22	20	19	17
33.0	49	49	48	47	45	42	40	37	33	30	26
29.0	86	86	85	82	78	72	66	60	54	48	40
25.5	141	141	138	132	125	115	105	94	82	72	59
22.5	210	209	205	196	184	169	152	135	117	100	81
19.5	303	302	295	282	264	241	216	189	163	138	110
17.0	398	397	388	370	345	315	280	245	209	176	138
15.0	481	479	468	447	417	380	338	294	250	209	163
13.0	566	565	552	527	492	448	399	347	294	245	189
11.0	651	649	634	606	566	516	459	399	338	280	216
9.0	728	726	710	679	635	579	516	448	380	315	241
7.0	792	789	773	741	695	635	566	492	417	345	264
5.0	839	837	821	790	741	679	606	527	447	370	282
3.0	871	869	853	821	773	710	634	552	468	388	295
1.0	886	884	869	837	789	726	649	565	479	397	302
0.0	888	886	871	839	792	728	651	566	481	398	303
-1.0	886	884	869	837	789	726	649	565	479	397	302
-3.0	871	869	853	821	773	710	634	552	468	388	295
-5.0	839	837	821	790	741	679	606	527	447	370	282
-7.0	792	789	773	741	695	635	566	492	417	345	264
-9.0	728	726	710	679	635	579	516	448	380	315	241
-11.0	651	649	634	606	566	516	459	399	338	280	216
-13.0	566	565	552	527	492	448	399	347	294	245	189
-15.0	481	479	468	447	417	380	338	294	250	209	163
-17.0	398	397	388	370	345	315	280	245	209	176	138
-19.5	303	302	295	282	264	241	216	189	163	138	110
-22.5	210	209	205	196	184	169	152	135	117	100	81
-25.5	141	141	138	132	125	115	105	94	82	72	59
-29.0	86	86	85	82	78	72	66	60	54	48	40
-33.0	49	49	48	47	45	42	40	37	33	30	26
-37.5	27	27	27	26	26	24	23	22	20	19	17
-42.5	16	16	16	15	15	15	14	14	13	12	12
-47.5	11	10	10	10	10	10	10	10	9	9	9
-55.0	7	7	7	7	7	7	7	7	7	7	7
-65.0	6	6	6	6	6	6	6	6	5	5	5
-75.0	4	4	4	4	4	4	4	4	3	3	3
-85.0	2	2	2	2	2	2	2	2	2	2	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	3	3	3	3	3	3	3	2	2	1	0
65.0	5	5	5	5	5	4	4	3	3	2	0
55.0	7	7	7	6	6	6	5	4	3	2	1
47.5	9	8	8	7	7	7	6	5	4	3	1
42.5	11	10	9	8	8	7	7	6	4	3	1
37.5	15	13	12	10	9	8	7	6	5	3	1
33.0	22	19	15	12	10	8	7	6	5	3	1
29.0	32	26	20	15	12	9	8	7	5	3	1
25.5	46	35	26	19	13	10	8	7	5	3	1
22.5	61	46	32	22	15	11	9	7	5	3	1
19.5	81	59	40	26	17	12	9	7	5	3	1
17.0	100	72	48	30	19	12	9	7	5	3	2
15.0	117	82	54	33	20	13	9	7	5	3	2
13.0	135	94	60	37	22	14	10	7	6	4	2
11.0	152	105	66	40	23	14	10	7	6	4	2
9.0	169	115	72	42	24	15	10	7	6	4	2
7.0	184	125	78	45	26	15	10	7	6	4	2
5.0	196	132	82	47	26	15	10	7	6	4	2
3.0	205	138	85	48	27	16	10	7	6	4	2
1.0	209	141	86	49	27	16	10	7	6	4	2
0.0	210	141	86	49	27	16	11	7	6	4	2
-1.0	209	141	86	49	27	16	10	7	6	4	2
-3.0	205	138	85	48	27	16	10	7	6	4	2
-5.0	196	132	82	47	26	15	10	7	6	4	2
-7.0	184	125	78	45	26	15	10	7	6	4	2
-9.0	169	115	72	42	24	15	10	7	6	4	2
-11.0	152	105	66	40	23	14	10	7	6	4	2
-13.0	135	94	60	37	22	14	10	7	6	4	2
-15.0	117	82	54	33	20	13	9	7	5	3	2
-17.0	100	72	48	30	19	12	9	7	5	3	2
-19.5	81	59	40	26	17	12	9	7	5	3	1
-22.5	61	46	32	22	15	11	9	7	5	3	1
-25.5	46	35	26	19	13	10	8	7	5	3	1
-29.0	32	26	20	15	12	9	8	7	5	3	1
-33.0	22	19	15	12	10	8	7	6	5	3	1
-37.5	15	13	12	10	9	8	7	6	5	3	1
-42.5	11	10	9	8	8	7	7	6	4	3	1
-47.5	9	8	8	7	7	7	6	5	4	3	1
-55.0	7	7	7	6	6	6	5	4	3	2	1
-65.0	5	5	5	5	5	4	4	3	3	2	0
-75.0	3	3	3	3	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)

