



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IES LM-79-2008, ANSI C82.77-2002, IES LM-35-2002 (Withdrawn)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-SP-C**  
Order Number  
11913931  
Test Number  
11913931.05A  
Revised Date:  
2017-08-25  
Test Date  
  
2017-08-18

Prepared By

Tony Rubio, Technician

Approved By

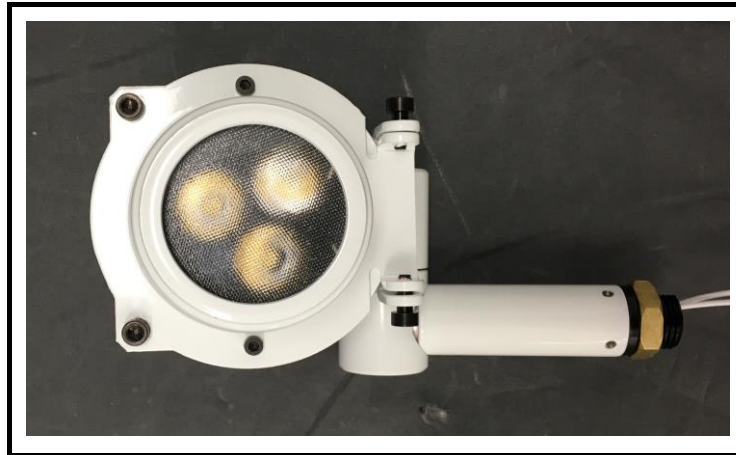
Eric Gaudreau, Senior Engineering Associate

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:	454.3 Lumens
Luminaire Efficacy:	54.9 lm/w
Maximum Candela:	4774 Candela

**Test Conditions**

Test Temperature:	24.5 °C
Voltage:	120.0 VAC
Current:	0.1120 A
Power:	8.269 W
Power Factor:	0.615
Frequency:	60 Hz
Current THD:	127 %

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



## Distribution - Goniophotometer

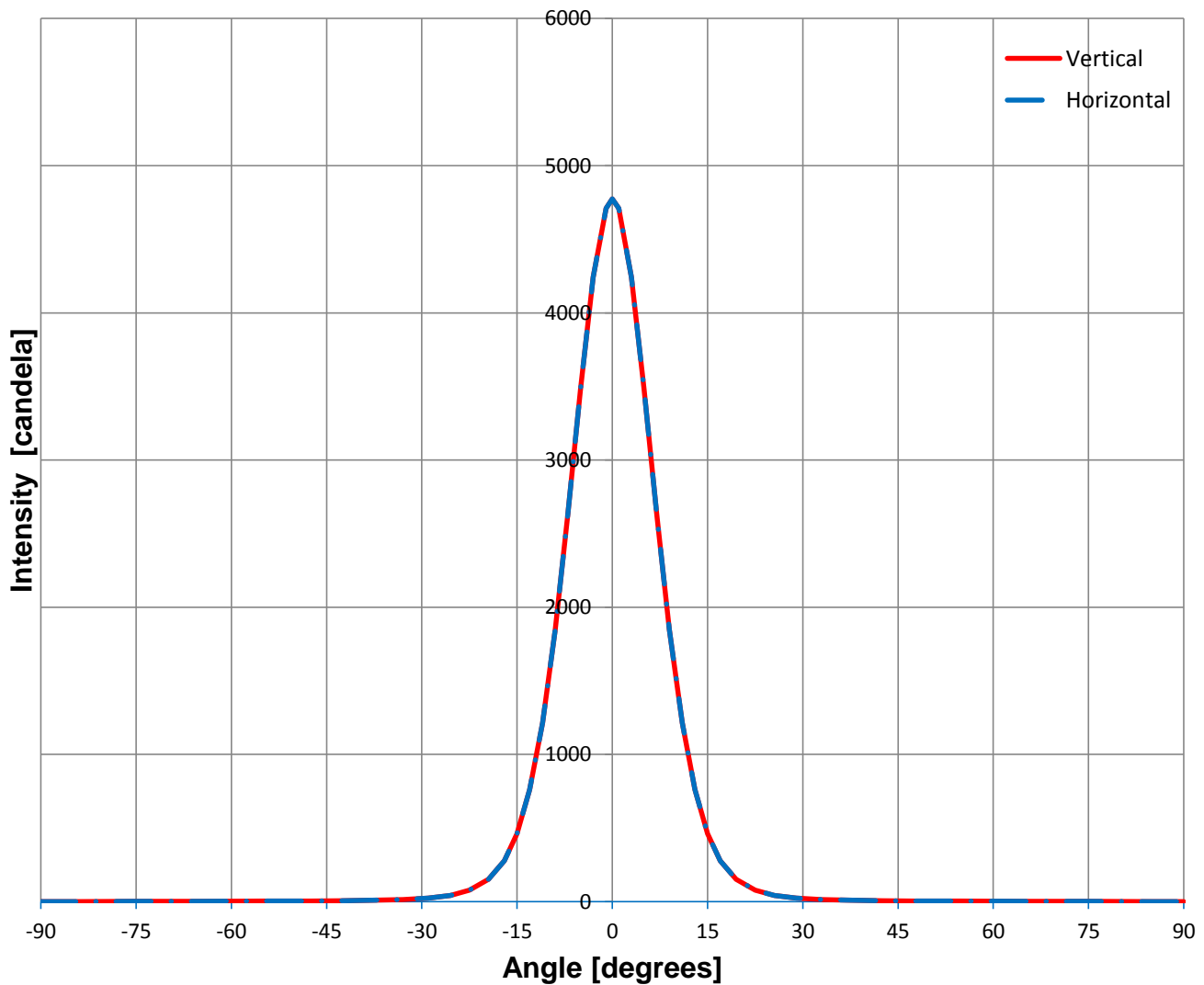
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.0 VAC	0.1120 A	8.269 W	0.615	60 Hz	127 %

### Summary of Results

Total Lumen Output:	454.3 Lumens	Maximum Candela:	4773.9 Candela
Luminaire Efficacy:	54.9 Lumens/Watt	Maximum Angle:	0 H 0 V
Field Lumens:	365.8 Lumens	Field Angle :	29.8 H X 29.8 V
Beam Lumens:	184.1 Lumens	Beam Angle :	15.3 H X 15.3 V
Spill Light Lumens:	88.5 Lumens	IESNA Type:	3 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	1	1	1	1	1	1	1	1	1	1	1
65.0	2	2	2	2	2	2	2	2	2	2	2
55.0	3	3	3	3	3	3	3	3	3	3	3
47.5	5	5	5	5	4	4	4	4	4	4	4
42.5	6	6	6	6	6	6	6	5	5	5	5
37.5	9	9	9	9	8	8	8	8	7	7	6
33.0	14	14	14	13	13	12	12	11	10	9	9
29.0	23	23	23	22	21	19	18	16	15	13	12
25.5	42	42	40	38	35	32	29	25	22	19	16
22.5	77	77	74	68	62	54	47	39	33	27	22
19.5	151	150	143	130	115	98	81	65	52	41	30
17.0	277	275	261	234	199	163	129	100	77	58	41
15.0	462	458	432	379	316	250	191	142	104	77	52
13.0	761	754	705	609	497	382	280	201	142	100	65
11.0	1215	1204	1116	952	758	571	409	280	191	129	81
9.0	1848	1830	1684	1425	1119	822	571	382	250	163	98
7.0	2635	2606	2385	2001	1547	1119	758	497	316	199	115
5.0	3482	3440	3132	2608	2001	1425	952	609	379	234	130
3.0	4242	4184	3788	3132	2385	1684	1116	705	432	261	143
1.0	4711	4635	4184	3440	2606	1830	1204	754	458	275	150
0.0	4774	4711	4242	3482	2635	1848	1215	761	462	277	151
-1.0	4711	4635	4184	3440	2606	1830	1204	754	458	275	150
-3.0	4242	4184	3788	3132	2385	1684	1116	705	432	261	143
-5.0	3482	3440	3132	2608	2001	1425	952	609	379	234	130
-7.0	2635	2606	2385	2001	1547	1119	758	497	316	199	115
-9.0	1848	1830	1684	1425	1119	822	571	382	250	163	98
-11.0	1215	1204	1116	952	758	571	409	280	191	129	81
-13.0	761	754	705	609	497	382	280	201	142	100	65
-15.0	462	458	432	379	316	250	191	142	104	77	52
-17.0	277	275	261	234	199	163	129	100	77	58	41
-19.5	151	150	143	130	115	98	81	65	52	41	30
-22.5	77	77	74	68	62	54	47	39	33	27	22
-25.5	42	42	40	38	35	32	29	25	22	19	16
-29.0	23	23	23	22	21	19	18	16	15	13	12
-33.0	14	14	14	13	13	12	12	11	10	9	9
-37.5	9	9	9	9	8	8	8	8	7	7	6
-42.5	6	6	6	6	6	6	6	5	5	5	5
-47.5	5	5	5	5	4	4	4	4	4	4	4
-55.0	3	3	3	3	3	3	3	3	3	3	3
-65.0	2	2	2	2	2	2	2	2	2	2	2
-75.0	1	1	1	1	1	1	1	1	1	1	1
-85.0	1	1	1	1	1	1	1	1	1	1	1

Vertical Angle (Degrees)



# 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	0	0	0	0	0	0	0	0	0	0	0
75.0	1	1	1	1	1	1	1	1	1	0	0
65.0	2	2	2	2	2	2	1	1	1	1	0
55.0	3	3	3	3	2	2	2	2	1	1	0
47.5	4	4	3	3	3	3	2	2	1	1	0
42.5	5	4	4	4	3	3	3	2	2	1	0
37.5	6	5	5	4	4	3	3	2	2	1	0
33.0	8	7	6	5	4	4	3	3	2	1	0
29.0	10	8	7	6	5	4	3	3	2	1	0
25.5	13	11	8	7	5	4	4	3	2	1	0
22.5	17	13	10	8	6	5	4	3	2	1	0
19.5	22	16	12	9	6	5	4	3	2	1	1
17.0	27	19	13	9	7	5	4	3	2	1	1
15.0	33	22	15	10	7	5	4	3	2	1	1
13.0	39	25	16	11	8	5	4	3	2	1	1
11.0	47	29	18	12	8	6	4	3	2	1	1
9.0	54	32	19	12	8	6	4	3	2	1	1
7.0	62	35	21	13	8	6	4	3	2	1	1
5.0	68	38	22	13	9	6	5	3	2	1	1
3.0	74	40	23	14	9	6	5	3	2	1	1
1.0	77	42	23	14	9	6	5	3	2	1	1
0.0	77	42	23	14	9	6	5	3	2	1	1
-1.0	77	42	23	14	9	6	5	3	2	1	1
-3.0	74	40	23	14	9	6	5	3	2	1	1
-5.0	68	38	22	13	9	6	5	3	2	1	1
-7.0	62	35	21	13	8	6	4	3	2	1	1
-9.0	54	32	19	12	8	6	4	3	2	1	1
-11.0	47	29	18	12	8	6	4	3	2	1	1
-13.0	39	25	16	11	8	5	4	3	2	1	1
-15.0	33	22	15	10	7	5	4	3	2	1	1
-17.0	27	19	13	9	7	5	4	3	2	1	1
-19.5	22	16	12	9	6	5	4	3	2	1	1
-22.5	17	13	10	8	6	5	4	3	2	1	0
-25.5	13	11	8	7	5	4	4	3	2	1	0
-29.0	10	8	7	6	5	4	3	3	2	1	0
-33.0	8	7	6	5	4	4	3	3	2	1	0
-37.5	6	5	5	4	4	3	3	2	2	1	0
-42.5	5	4	4	4	3	3	3	2	2	1	0
-47.5	4	4	3	3	3	3	2	2	1	1	0
-55.0	3	3	3	3	2	2	2	2	1	1	0
-65.0	2	2	2	2	2	2	1	1	1	1	0
-75.0	1	1	1	1	1	1	1	1	1	0	0
-85.0	0	0	0	0	0	0	0	0	0	0	0



## Isocandela Diagram (Percent of Maximum Intensity)

