



UL LLC  
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Brea, CA 92821

## Outdoor Distribution Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-2002

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

Catalog Number  
**LBP-LED-51X-BW-28**  
Order Number  
11996651  
Test Number  
11996651.06

Test Date

2017-10-19

Prepared By

William Escobar, Technician

Approved By

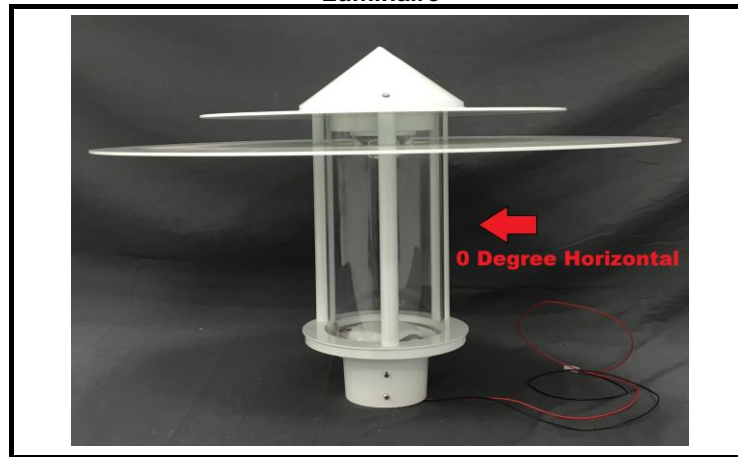
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Decorative white metal housing, reflector, clear plastic lens, and standing pole base  
**Lamp:** One (1) white LED with optic  
**Mounting:** Post  
**Ballast/Driver:** One (1) Thomas Research Products PLED75W-054-C1400-D

**Luminaire**



**Luminaire Characteristics**

Luminous Diameter: 27.75 in.  
Luminous Height: 11.00 in.

**Summary of Results**

Roadway Classification: Type III, Very Short  
Cutoff Classification: Cutoff  
BUG Rating: B3 U3 G2

**Test Conditions**

Test Temperature: 24.8 °C  
Voltage: 120.1 VAC  
Current: 0.4651 A  
Power: 55.51 W  
Power Factor: 0.994  
Frequency: 60 Hz  
Current THD: 6.41 %

Tested in 30 planes left side, 30 planes right side, left and right averaged  
Vertical test increments are 2.5 degrees  
Test distance exceeds five times the greatest luminous opening of luminaire

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



## Distribution - Goniophotometer

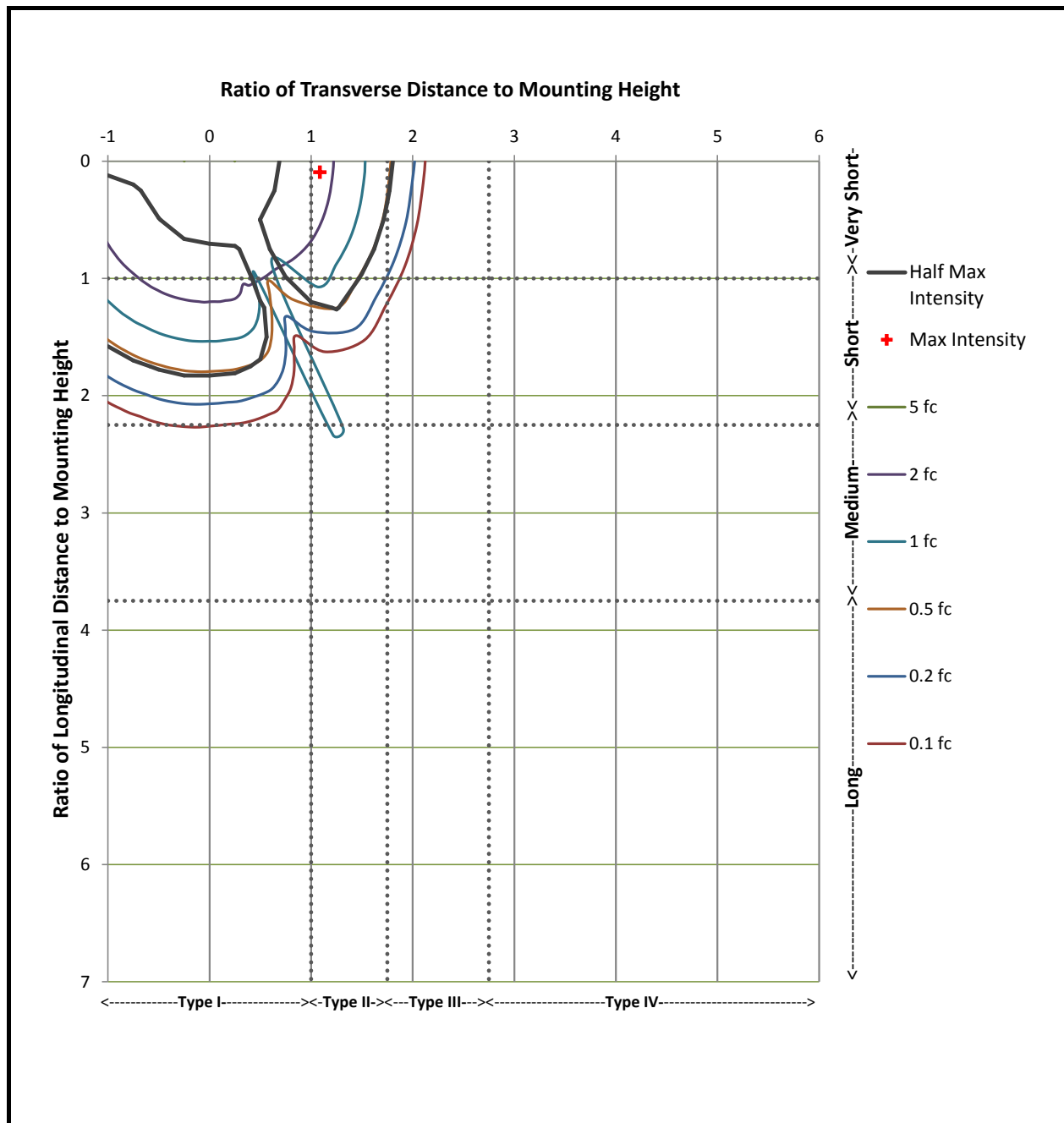
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.1 VAC	0.4651 A	55.51 W	0.994	60 Hz	6.41 %

### Summary of Results

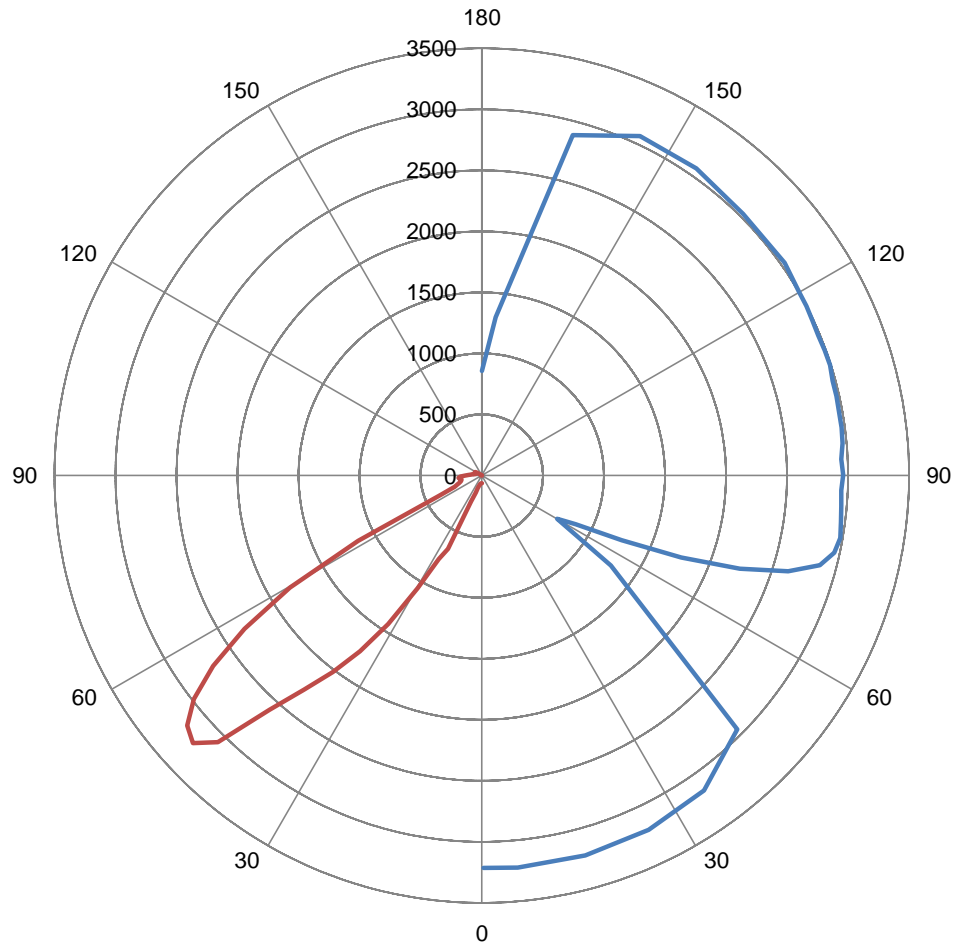
IES Roadway Classification:	Type III, Very Short	Total Lumen Output:	6568 Lumens
Cutoff Classification:	Cutoff	Luminaire Efficacy:	118.3 lm/w
BUG Rating:	B3 U3 G2	Maximum Candela:	3226 Candela

### ISO FootCandle Plot at 20 Feet





### Maximum Plane and Cone Plots of Candela



Vertical Plane Through

5 ° Lateral

Lateral Cone Through

47.5 ° Vertical

Maximum Intensity (Candlepower):

3226 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.6	0.0%	60-65	569.1	8.7%	120-125	22.6	0.3%
5-10	4.7	0.1%	65-70	170.0	2.6%	125-130	8.4	0.1%
10-15	9.1	0.1%	70-75	95.1	1.4%	130-135	1.6	0.0%
15-20	17.4	0.3%	75-80	84.3	1.3%	135-140	0.4	0.0%
20-25	57.5	0.9%	80-85	84.1	1.3%	140-145	0.3	0.0%
25-30	179.1	2.7%	85-90	81.4	1.2%	145-150	0.2	0.0%
30-35	353.1	5.4%	90-95	58.8	0.9%	150-155	0.1	0.0%
35-40	572.8	8.7%	95-100	42.7	0.7%	155-160	0.1	0.0%
40-45	822.9	12.5%	100-105	30.6	0.5%	160-165	0.1	0.0%
45-50	1089.6	16.6%	105-110	27.1	0.4%	165-170	0.0	0.0%
50-55	1148.6	17.5%	110-115	28.9	0.4%	170-175	0.0	0.0%
55-60	976.1	14.9%	115-120	29.6	0.5%	175-180	0.0	0.0%



**IES "BUG" Rating**  
(Back Light, Uplight, Glare)  
Per IES TM-15-11



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	135.1	2.1%
FM	(30-60)	2384.8	36.3%
FH	(60-80)	404.6	6.2%
FVH	(80-90)	82.1	1.2%
BL	(0-30)	134.3	2.0%
BM	(30-60)	2578.3	39.3%
BH	(60-80)	514.0	7.8%
BVH	(80-90)	83.4	1.3%
UL	(90-100)	101.5	1.5%
UH	(100-180)	150.1	2.3%
Total		6568.2	100.0%
<b>BUG Rating</b>	<b>B3 U3 G2</b>		