



UL LLC  
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## 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-X45-TYPEIV-18-WHP**  
Order Number  
12069227  
Test Number  
12069227.03

Test Date

2017-12-11

Prepared By

Austin Duff, Technician

Approved By

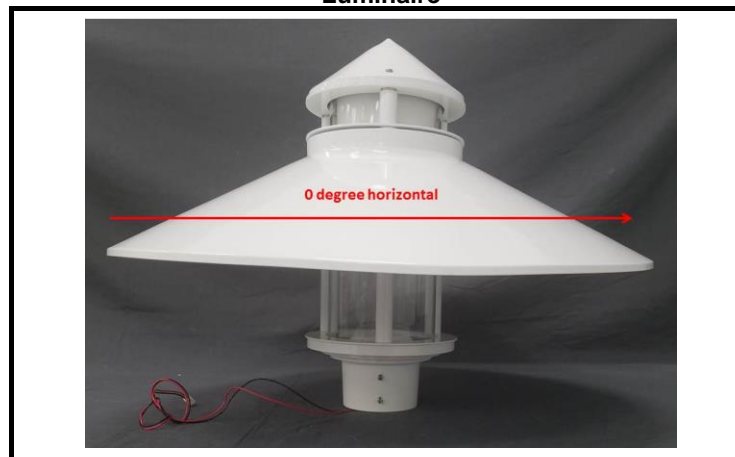
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Decorative white metal housing with shade, reflector, frosted plastic inner lens, clear outer lens, and standing pole base  
**Lamp:** One (1) white LED with optic  
**Mounting:** Post  
**Ballast/Driver:** One (1) ECOdrive 561/S

#### Luminaire



#### Luminaire Characteristics

Luminous Diameter: 27.00 in.  
Luminous Height: 11.00 in.

#### Summary of Results

Roadway Classification: Type III, Short  
Cutoff Classification: Cutoff  
BUG Rating: B2 U2 G1

#### Test Conditions

Test Temperature: 24.6 °C  
Voltage: 120.0 VAC  
Current: 0.2717 A  
Power: 32.12 W  
Power Factor: 0.985  
Frequency: 60 Hz  
Current THD: 8.69 %

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
24.6 °C	120.0 VAC	0.2717 A	32.12 W	0.985	60 Hz	8.69 %

### Summary of Results

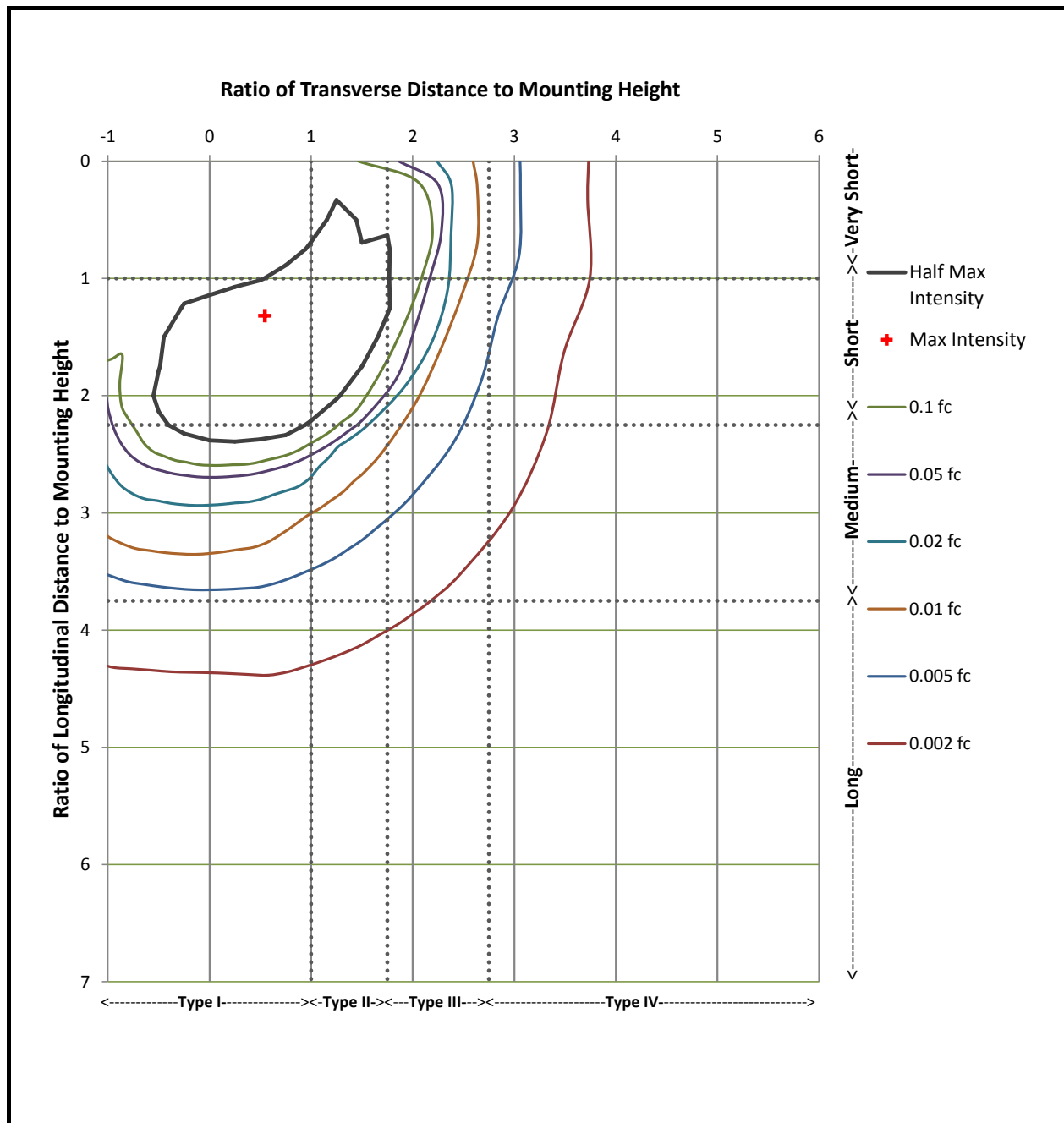
IES Roadway Classification:  
Cutoff Classification  
BUG Rating:

Type III, Short  
Cutoff  
B2 U2 G1

Total Lumen Output:  
Luminaire Efficacy:  
Maximum Candela:

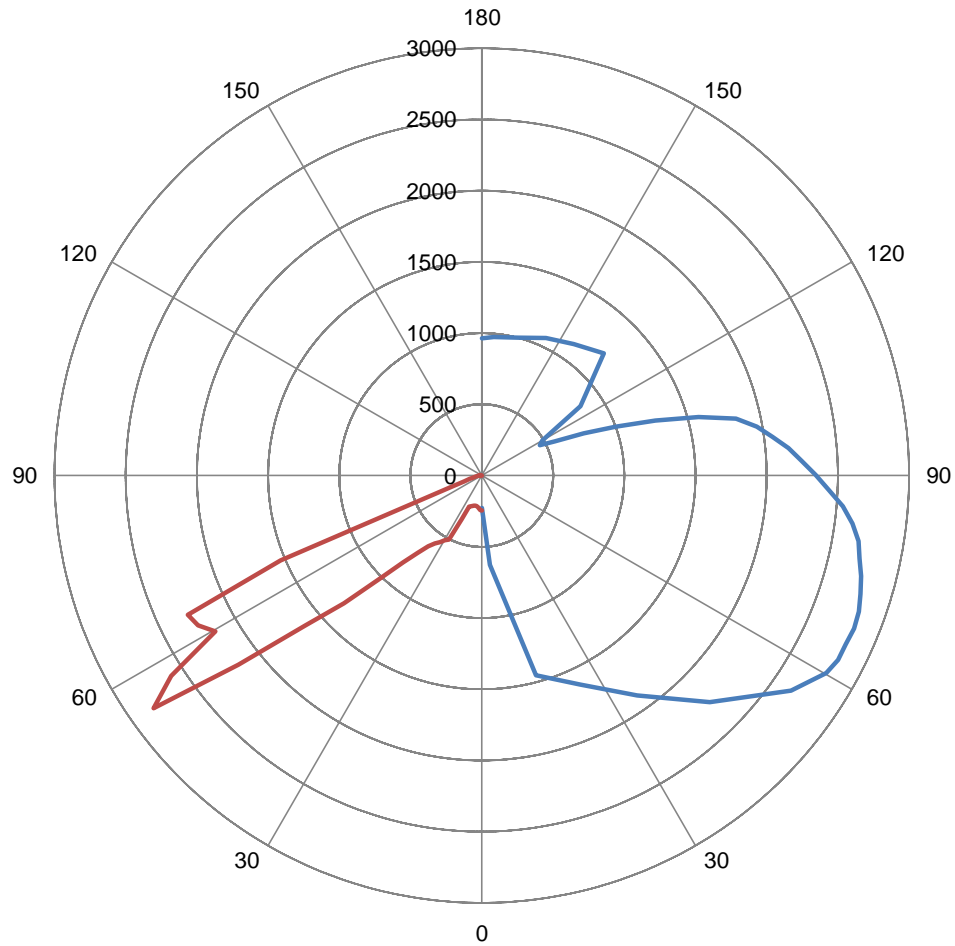
3720 Lumens  
115.8 lm/w  
2825 Candela

### ISO FootCandle Plot at 20 Feet





### Maximum Plane and Cone Plots of Candela



Vertical Plane Through

67.5 ° Lateral

Lateral Cone Through

55 ° Vertical

Maximum Intensity (Candlepower):

2825 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	6.0	0.2%	60-65	612.8	16.5%	120-125	0.7	0.0%
5-10	15.9	0.4%	65-70	333.0	8.9%	125-130	0.4	0.0%
10-15	25.5	0.7%	70-75	69.3	1.9%	130-135	0.1	0.0%
15-20	35.5	1.0%	75-80	33.4	0.9%	135-140	0.0	0.0%
20-25	54.7	1.5%	80-85	20.0	0.5%	140-145	0.0	0.0%
25-30	115.4	3.1%	85-90	10.9	0.3%	145-150	0.0	0.0%
30-35	157.2	4.2%	90-95	5.0	0.1%	150-155	0.0	0.0%
35-40	208.3	5.6%	95-100	6.9	0.2%	155-160	0.0	0.0%
40-45	285.7	7.7%	100-105	7.0	0.2%	160-165	0.0	0.0%
45-50	414.1	11.1%	105-110	2.3	0.1%	165-170	0.0	0.0%
50-55	619.2	16.6%	110-115	0.8	0.0%	170-175	0.0	0.0%
55-60	679.4	18.3%	115-120	0.8	0.0%	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)	121.7	3.3%
FM	(30-60)	1324.4	35.6%
FH	(60-80)	676.5	18.2%
FVH	(80-90)	12.6	0.3%
BL	(0-30)	131.4	3.5%
BM	(30-60)	1039.5	27.9%
BH	(60-80)	372.0	10.0%
BVH	(80-90)	18.2	0.5%
UL	(90-100)	11.9	0.3%
UH	(100-180)	12.2	0.3%
Total		3720.3	100.0%
<b>BUG Rating</b>	<b>B2 U2 G1</b>		