



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**  
**LTP-LED-X45-BW**  
Order Number  
12023690  
Test Number  
12023690.01

Test Date

2017-11-02

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, frosted 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: 8.50 in.  
Luminous Height: 7.000 in.

#### Summary of Results

Roadway Classification: Type I, Very Short  
Cutoff Classification: Noncutoff  
BUG Rating: B1 U4 G2

#### Test Conditions

Test Temperature: 25.2 °C  
Voltage: 120.0 VAC  
Current: 0.2700 A  
Power: 31.90 W  
Power Factor: 0.984  
Frequency: 60 Hz  
Current THD: 8.88 %

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
25.2 °C	120.0 VAC	0.2700 A	31.90 W	0.984	60 Hz	8.88 %

### Summary of Results

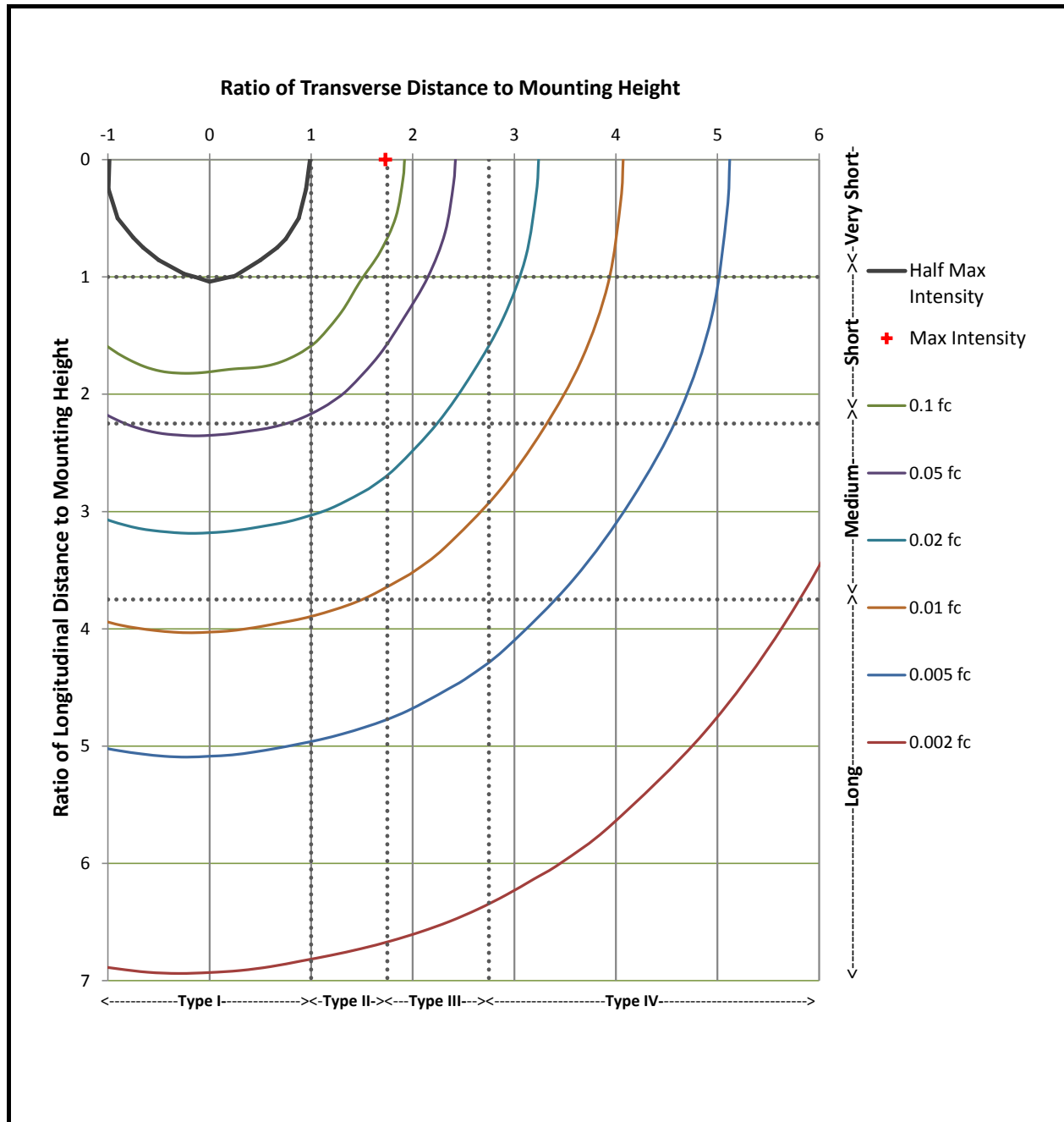
IES Roadway Classification:  
Cutoff Classification  
BUG Rating:

Type I, Very Short  
Noncutoff  
B1 U4 G2

Total Lumen Output:  
Luminaire Efficacy:  
Maximum Candela:

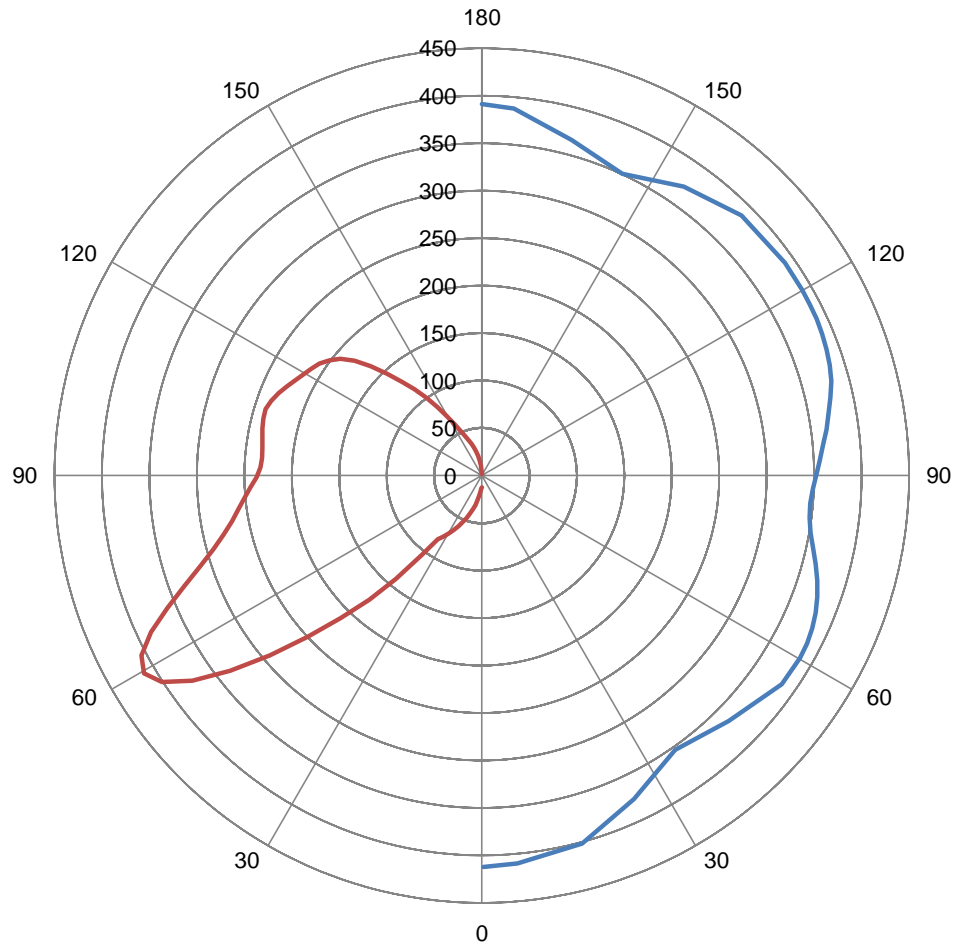
2619 Lumens  
82.1 lm/w  
412 Candela

### ISO FootCandle Plot at 20 Feet





### Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

60 ° Vertical

Maximum Intensity (Candlepower):

412 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.4	0.0%	60-65	179.4	6.9%	120-125	96.7	3.7%
5-10	1.6	0.1%	65-70	171.2	6.5%	125-130	84.3	3.2%
10-15	3.8	0.1%	70-75	157.7	6.0%	130-135	69.7	2.7%
15-20	6.9	0.3%	75-80	146.9	5.6%	135-140	54.1	2.1%
20-25	11.0	0.4%	80-85	139.3	5.3%	140-145	39.2	1.5%
25-30	16.1	0.6%	85-90	133.2	5.1%	145-150	25.5	1.0%
30-35	22.4	0.9%	90-95	128.4	4.9%	150-155	15.2	0.6%
35-40	37.1	1.4%	95-100	126.4	4.8%	155-160	8.8	0.3%
40-45	63.7	2.4%	100-105	125.3	4.8%	160-165	5.1	0.2%
45-50	96.5	3.7%	105-110	122.3	4.7%	165-170	2.6	0.1%
50-55	135.5	5.2%	110-115	115.8	4.4%	170-175	1.0	0.0%
55-60	168.3	6.4%	115-120	106.9	4.1%	175-180	0.1	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)	20.3	0.8%
FM	(30-60)	263.1	10.0%
FH	(60-80)	326.8	12.5%
FVH	(80-90)	135.6	5.2%
BL	(0-30)	19.6	0.7%
BM	(30-60)	260.5	9.9%
BH	(60-80)	328.4	12.5%
BVH	(80-90)	136.9	5.2%
UL	(90-100)	254.8	9.7%
UH	(100-180)	872.6	33.3%
Total		2618.6	100.0%
<b>BUG Rating</b>	<b>B1 U4 G2</b>		