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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**  
**TWB-LED-X82**  
Order Number  
12073427  
Test Number  
12073427.05

Test Date

2017-12-14

Prepared By

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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 louvers and frosted lens  
**Lamp:** One (1) white LED  
**Mounting:** Post  
**Ballast/Driver:** One (1) ECOdrive 261/S

#### Luminaire



#### Luminaire Characteristics

Luminous Diameter: 8.00 in.  
Luminous Height: 7.000 in.

#### Summary of Results

Roadway Classification: Type V, Medium  
Cutoff Classification: Noncutoff  
BUG Rating: B1 U3 G1

#### Test Conditions

Test Temperature: 25.1 °C  
Voltage: 120.0 VAC  
Current: 0.09024 A  
Power: 10.59 W  
Power Factor: 0.978  
Frequency: 60 Hz  
Current THD: 16.7 %

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
25.1 °C	120.0 VAC	0.09024 A	10.59 W	0.978	60 Hz	16.7 %

### Summary of Results

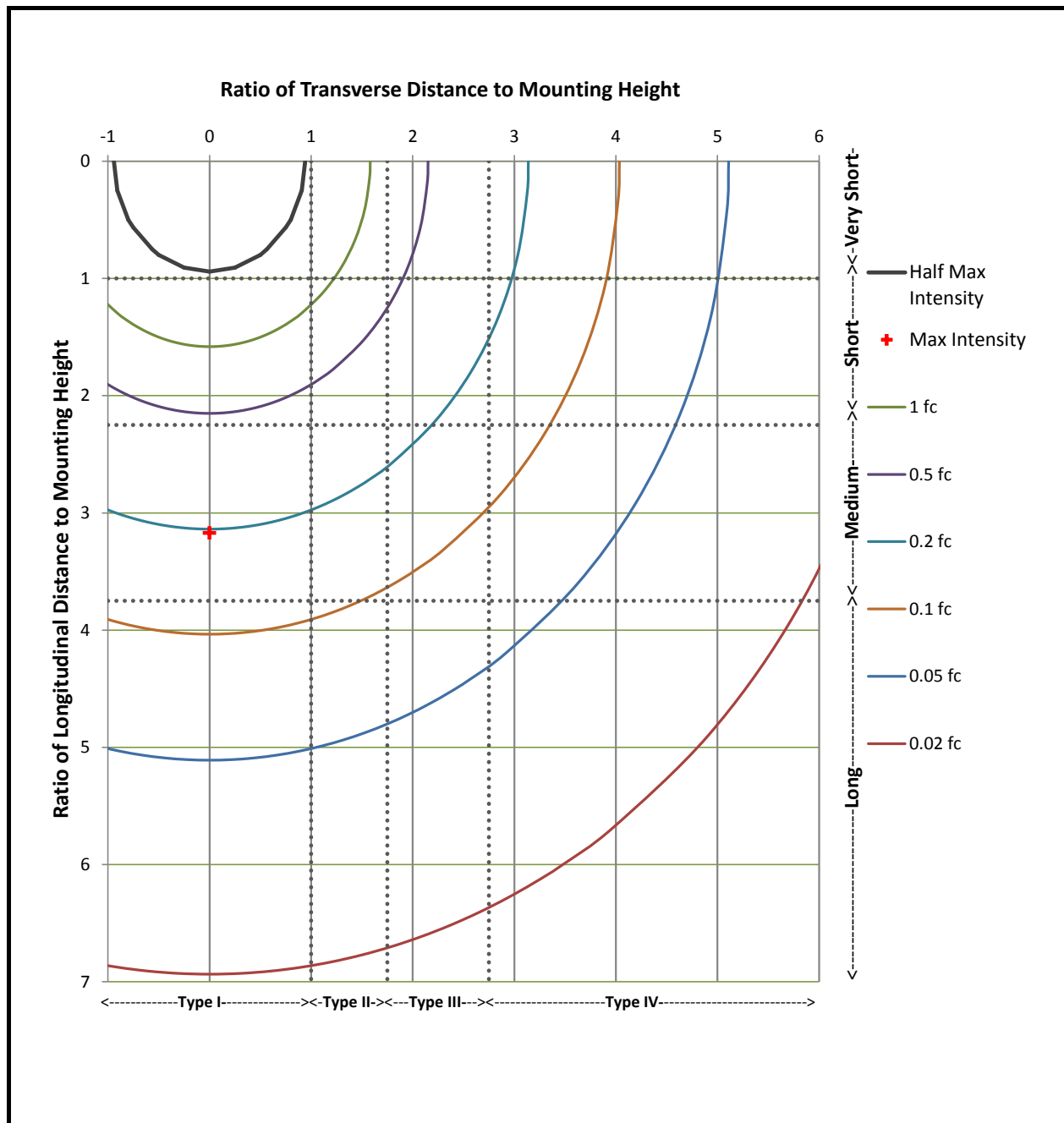
IES Roadway Classification:  
Cutoff Classification  
BUG Rating:

Type V, Medium  
Noncutoff  
B1 U3 G1

Total Lumen Output:  
Luminaire Efficacy:  
Maximum Candela:

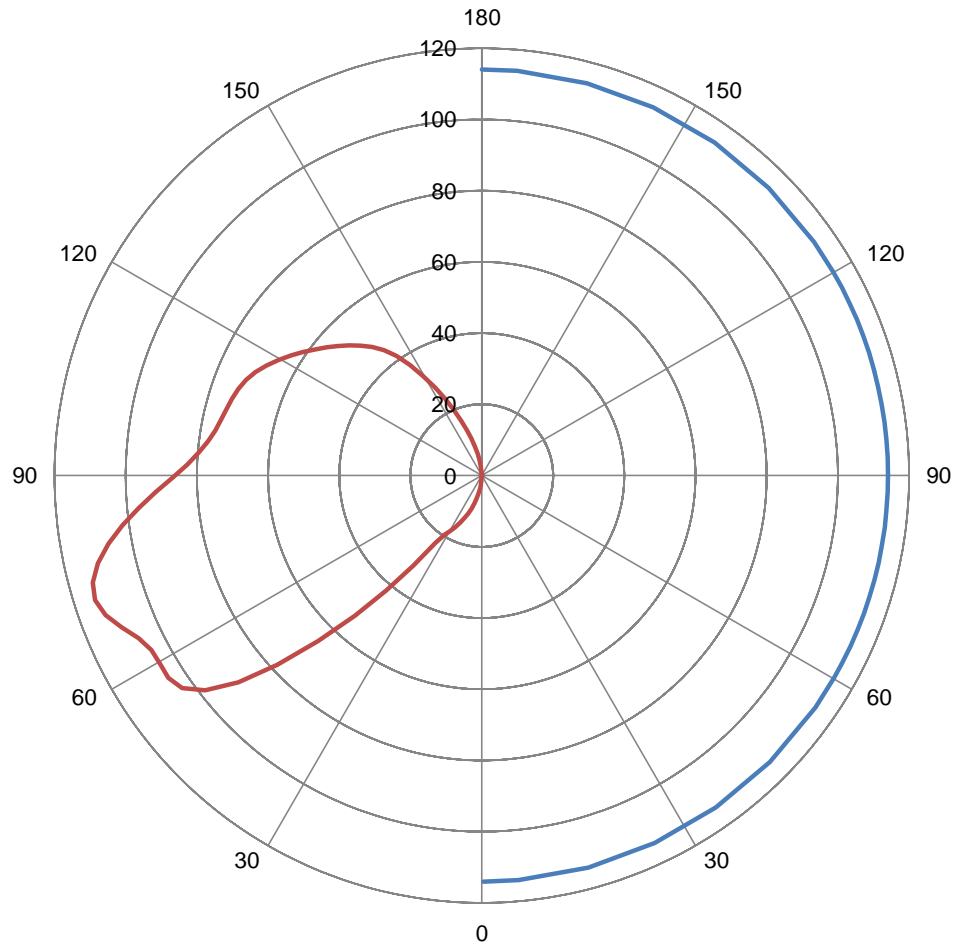
870 Lumens  
82.2 lm/w  
114 Candela

### ISO FootCandle Plot at 4 Feet





### Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

72.5 ° Vertical

Maximum Intensity (Candlepower):

114 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	51.2	5.9%	120-125	29.3	3.4%
5-10	0.3	0.0%	65-70	55.6	6.4%	125-130	25.6	2.9%
10-15	0.8	0.1%	70-75	59.3	6.8%	130-135	22.0	2.5%
15-20	1.6	0.2%	75-80	59.0	6.8%	135-140	18.5	2.1%
20-25	2.7	0.3%	80-85	55.3	6.4%	140-145	14.9	1.7%
25-30	4.1	0.5%	85-90	50.2	5.8%	145-150	10.9	1.3%
30-35	5.9	0.7%	90-95	45.4	5.2%	150-155	7.1	0.8%
35-40	10.8	1.2%	95-100	42.2	4.8%	155-160	4.2	0.5%
40-45	19.9	2.3%	100-105	40.1	4.6%	160-165	2.3	0.3%
45-50	31.6	3.6%	105-110	38.4	4.4%	165-170	1.0	0.1%
50-55	42.4	4.9%	110-115	36.1	4.2%	170-175	0.3	0.0%
55-60	48.2	5.5%	115-120	33.0	3.8%	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)	4.8	0.5%
FM	(30-60)	79.4	9.1%
FH	(60-80)	112.5	12.9%
FVH	(80-90)	52.7	6.1%
BL	(0-30)	4.8	0.5%
BM	(30-60)	79.4	9.1%
BH	(60-80)	112.5	12.9%
BVH	(80-90)	52.7	6.1%
UL	(90-100)	87.6	10.1%
UH	(100-180)	283.7	32.6%
Total		870.3	100.0%
<b>BUG Rating</b>	<b>B1 U3 G1</b>		