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## Outdoor Distribution Test Report

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

**Prepared For**  
**B-K Lighting Inc**  
Daniel Carrejo  
40429 Brickyard Dr.  
Madera, CA 93636-9515  
United States

**Catalog Number**  
**LT-12-A-LED-E72-2-4000K**

Order Number  
12592344

Test Number  
12592344.13A

Revised Date:  
2019-03-18  
Test Date

2019-01-28

Prepared By

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Approved By

Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** White cylindrical metal housing with cylindrical mounting base and plastic diffuse lens  
**Lamp:** One (1) White LED  
**Lamp Catalog Number:**  
**Mounting:** VBD  
**Ballast/Driver:** One (1) PowerSelect PS20U15K

#### Luminaire



#### Luminaire Characteristics

Luminous Diameter: 1.00 in.  
Luminous Height: 0.750 in.

#### Summary of Results

Roadway Classification: Type VS, Very Long  
Cutoff Classification: Noncutoff  
BUG Rating: B0 U3 G0

#### Test Conditions

Test Temperature: 25.0 °C  
Voltage: 120.0 VAC  
Current: 0.05385 A  
Power: 3.673 W  
Power Factor: 0.568  
Frequency: 60 Hz  
Current THD: 145 %

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

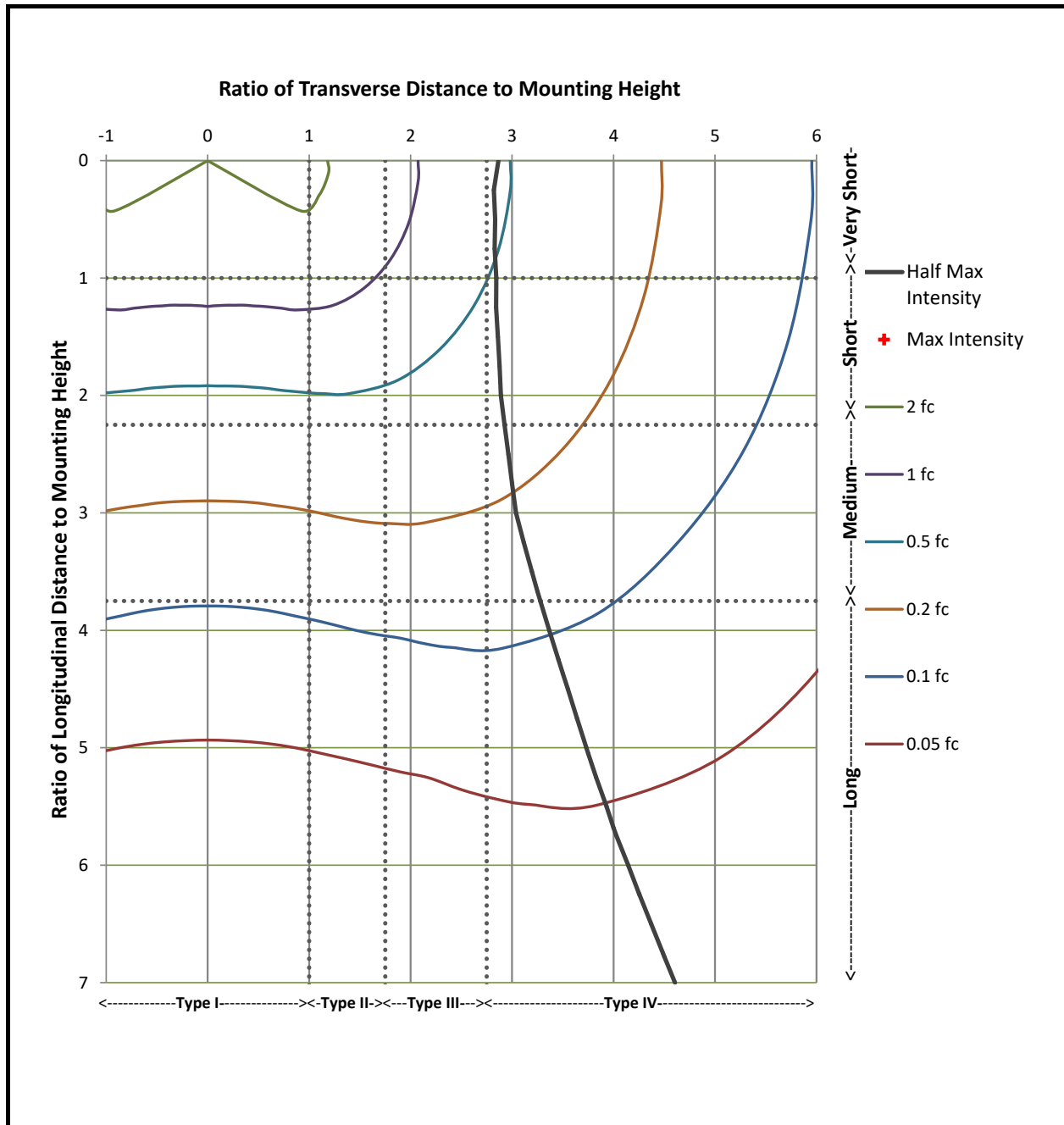
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.0 VAC	0.05385 A	3.673 W	0.568	60 Hz	145 %

### Summary of Results

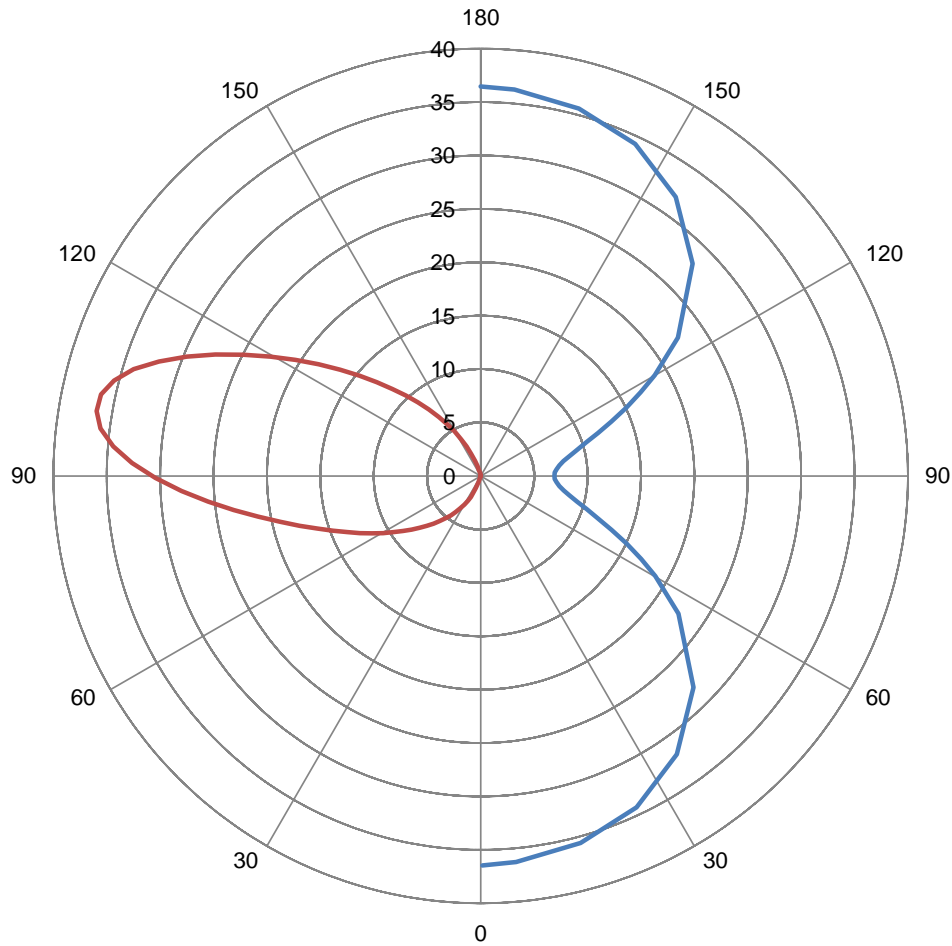
IES Roadway Classification:	Type VS, Very Long	Total Lumen Output:	146 Lumens
Cutoff Classification:	Noncutoff	Luminaire Efficacy:	39.9 lm/w
BUG Rating:	B0 U3 G0	Maximum Candela:	36 Candela

### ISO FootCandle Plot at 1 Feet





### Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

100 ° Vertical

Maximum Intensity (Candlepower):

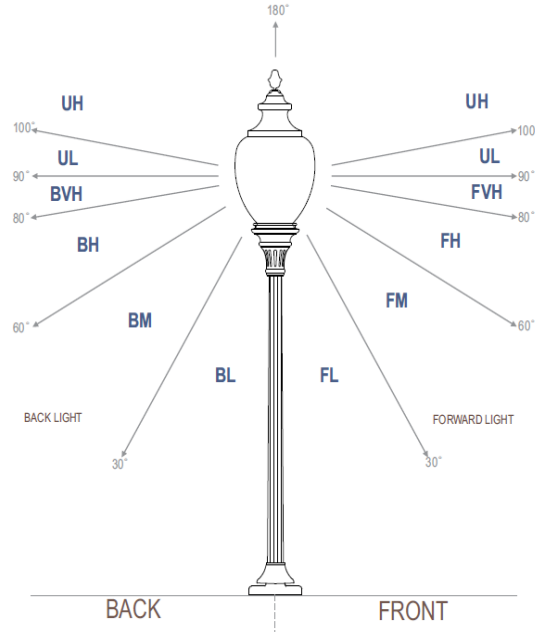
36 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	4.2	2.8%	120-125	6.5	4.5%
5-10	0.0	0.0%	65-70	5.1	3.5%	125-130	5.0	3.4%
10-15	0.0	0.0%	70-75	6.2	4.2%	130-135	3.7	2.6%
15-20	0.1	0.1%	75-80	7.5	5.1%	135-140	2.7	1.9%
20-25	0.3	0.2%	80-85	9.0	6.2%	140-145	1.9	1.3%
25-30	0.6	0.4%	85-90	10.7	7.3%	145-150	1.3	0.9%
30-35	0.9	0.6%	90-95	12.2	8.3%	150-155	0.7	0.5%
35-40	1.2	0.8%	95-100	13.0	8.9%	155-160	0.4	0.3%
40-45	1.6	1.1%	100-105	12.9	8.8%	160-165	0.1	0.1%
45-50	2.1	1.4%	105-110	11.8	8.1%	165-170	0.0	0.0%
50-55	2.7	1.8%	110-115	10.1	6.9%	170-175	0.0	0.0%
55-60	3.4	2.3%	115-120	8.3	5.6%	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)	0.5	0.4%
FM	(30-60)	5.9	4.0%
FH	(60-80)	11.4	7.8%
FVH	(80-90)	9.9	6.8%
BL	(0-30)	0.5	0.4%
BM	(30-60)	5.9	4.0%
BH	(60-80)	11.4	7.8%
BVH	(80-90)	9.9	6.8%
UL	(90-100)	25.3	17.3%
UH	(100-180)	65.6	44.8%
Total		146.4	100.0%
<b>BUG Rating</b>	<b>B0 U3 G0</b>		