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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-B-LED-E72-1-4000K**

Order Number

12592344

Test Number

12592344.06A

Revised Date:

2019-03-15

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; dome reflector and plastic diffuse lens  
**Lamp:** One (1) White LED  
**Mounting:** VBD  
**Ballast/Driver:** One (1) PowerSelect PS20U15K

#### Luminaire



#### Luminaire Characteristics

Luminous Diameter: 4.00 in.  
Luminous Height: 0.250 in.

#### Summary of Results

Roadway Classification:	Type I, Short
Cutoff Classification:	Noncutoff
BUG Rating:	B0 U1 G0

#### Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.05395 A
Power:	3.681 W
Power Factor:	0.568
Frequency:	60 Hz
Current THD:	144 %

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
24.9 °C	120.0 VAC	0.05395 A	3.681 W	0.568	60 Hz	144 %

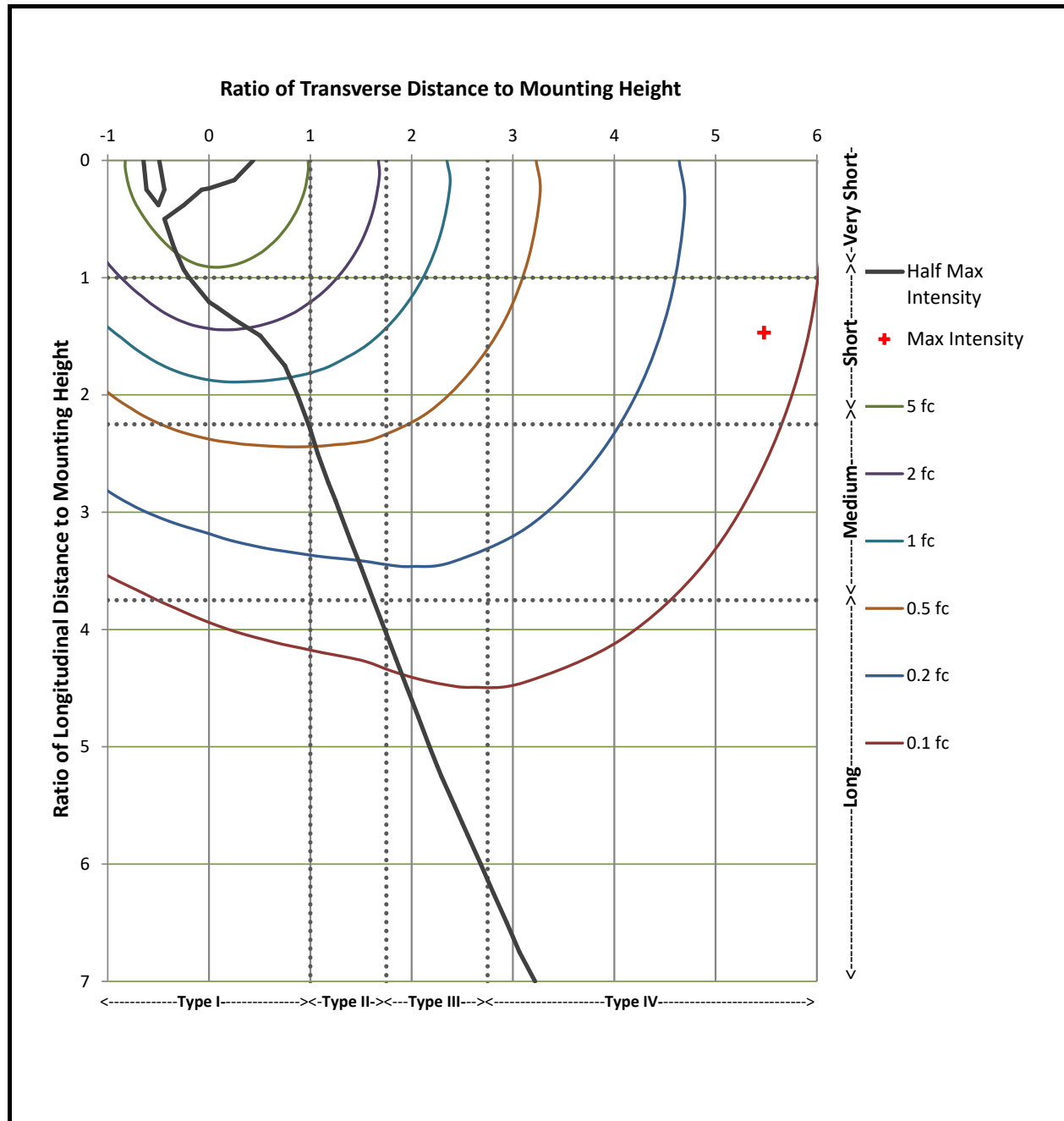
### Summary of Results

IES Roadway Classification:  
Cutoff Classification  
BUG Rating:

Type I, Short  
Noncutoff  
B0 U1 G0

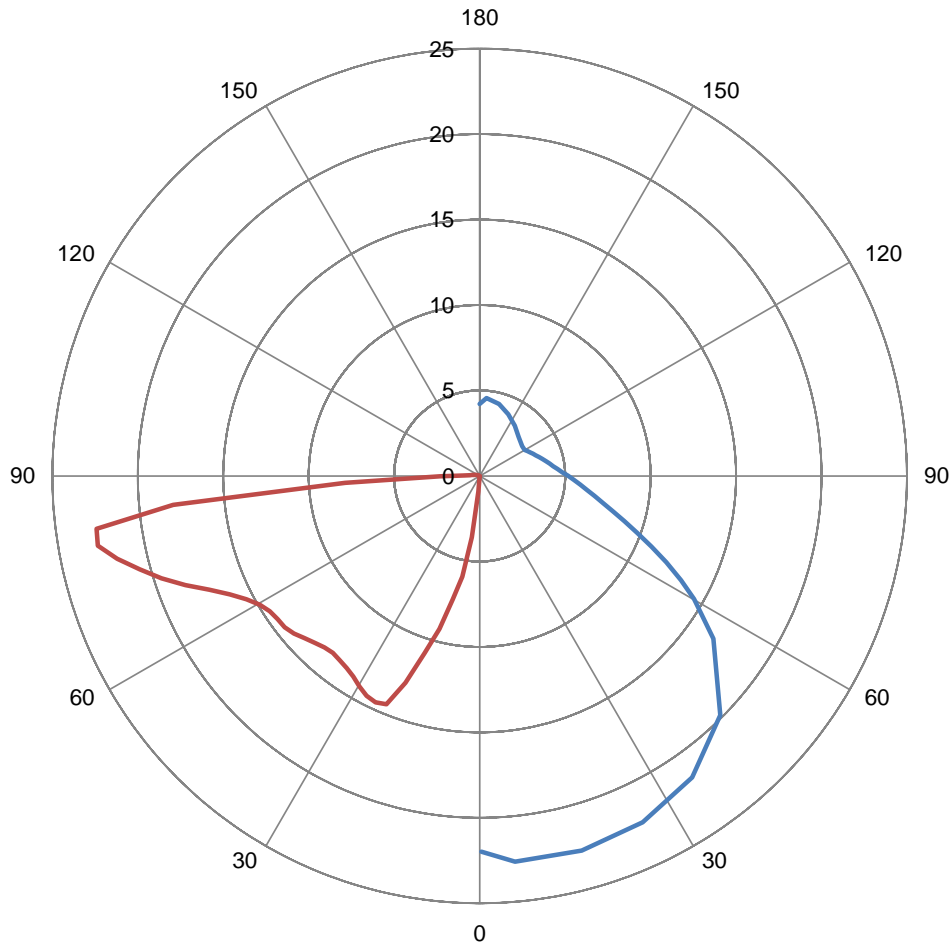
Total Lumen Output: 66 Lumens  
Luminaire Efficacy: 17.8 lm/w  
Maximum Candela: 23 Candela

### ISO FootCandle Plot at 1 Feet





### Maximum Plane and Cone Plots of Candela



Vertical Plane Through

15 ° Lateral

Lateral Cone Through

80 ° Vertical

Maximum Intensity (Candlepower):

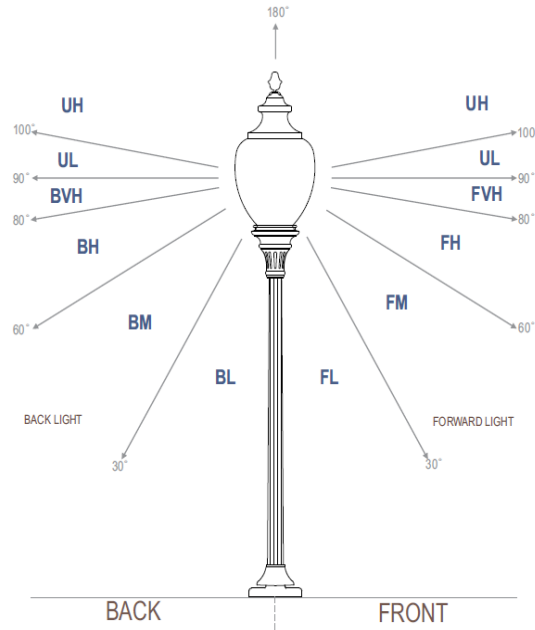
23 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	5.2	8.0%	120-125	0.0	0.0%
5-10	0.2	0.3%	65-70	5.4	8.3%	125-130	0.0	0.0%
10-15	0.9	1.4%	70-75	5.6	8.6%	130-135	0.0	0.0%
15-20	1.8	2.8%	75-80	5.6	8.6%	135-140	0.0	0.0%
20-25	2.8	4.2%	80-85	5.0	7.7%	140-145	0.0	0.0%
25-30	3.4	5.2%	85-90	2.1	3.2%	145-150	0.0	0.0%
30-35	3.8	5.8%	90-95	0.2	0.4%	150-155	0.0	0.0%
35-40	4.1	6.3%	95-100	0.1	0.1%	155-160	0.0	0.0%
40-45	4.4	6.7%	100-105	0.0	0.1%	160-165	0.0	0.0%
45-50	4.7	7.2%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	5.0	7.6%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	5.1	7.8%	115-120	0.0	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)	5.1	7.7%
FM	(30-60)	15.2	23.1%
FH	(60-80)	15.1	22.9%
FVH	(80-90)	6.1	9.4%
BL	(0-30)	4.0	6.1%
BM	(30-60)	12.0	18.2%
BH	(60-80)	6.9	10.4%
BVH	(80-90)	1.0	1.5%
UL	(90-100)	0.3	0.5%
UH	(100-180)	0.1	0.1%
Total		65.7	100.0%
<b>BUG Rating</b>	<b>B0 U1 G0</b>		