



UL LLC  
1075 W Lambert Rd Suite B  
Brea, CA 92821

## 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**  
**APL-LED-L12-4000K**

Order Number

11609603

Test Number

11609603.04

Revised:

2017-06-05

Test Date

2017-05-18

Prepared By

Khang Nguyen, Technician

Approved By

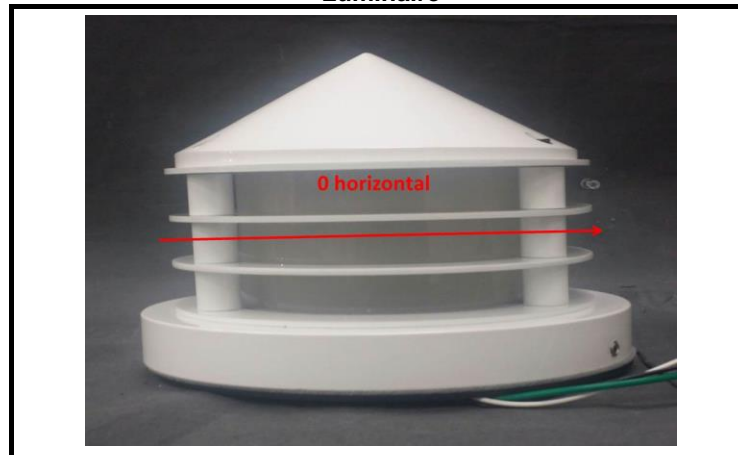
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Decorative white metal housing, reflector and diffuse lens.  
**Lamp:** 22 White LEDs  
**Mounting:** Base Down

**Luminaire**



**Luminaire Characteristics**

Luminous Diameter: 5.00 in.  
Luminous Height: 2.000 in.

**Summary of Results**

Roadway Classification: Type V, Very Long  
Cutoff Classification: Noncutoff  
BUG Rating: B0 U3 G1

**Test Conditions**

Test Temperature: 25.9 °C  
Voltage: 120.0 VAC  
Current: 0.08400 A  
Power: 9.847 W  
Power Factor: 0.977  
Frequency: 60 Hz  
Current THD: 19.7 %

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

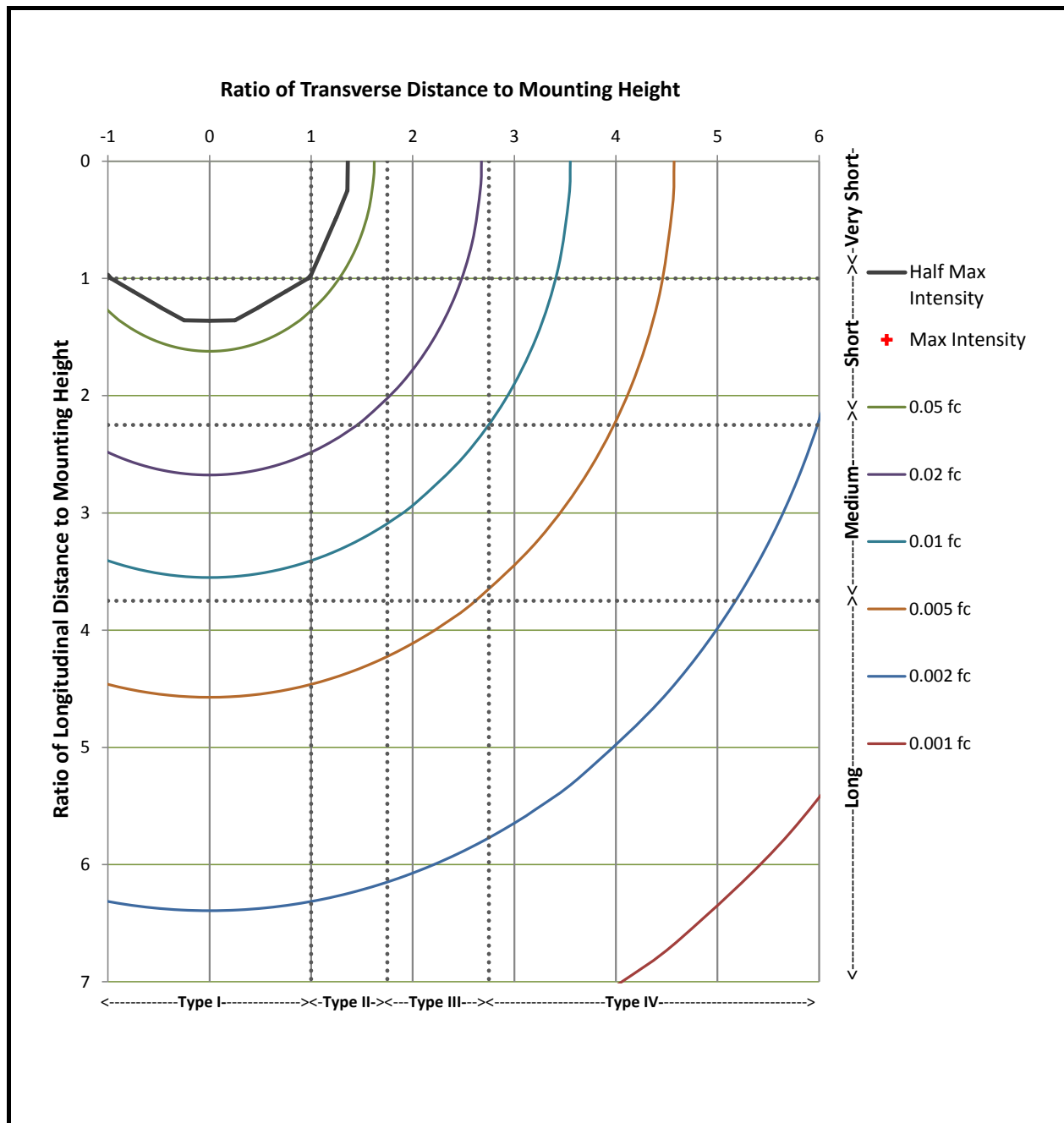
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.9 °C	120.0 VAC	0.08400 A	9.847 W	0.977	60 Hz	19.7 %

### Summary of Results

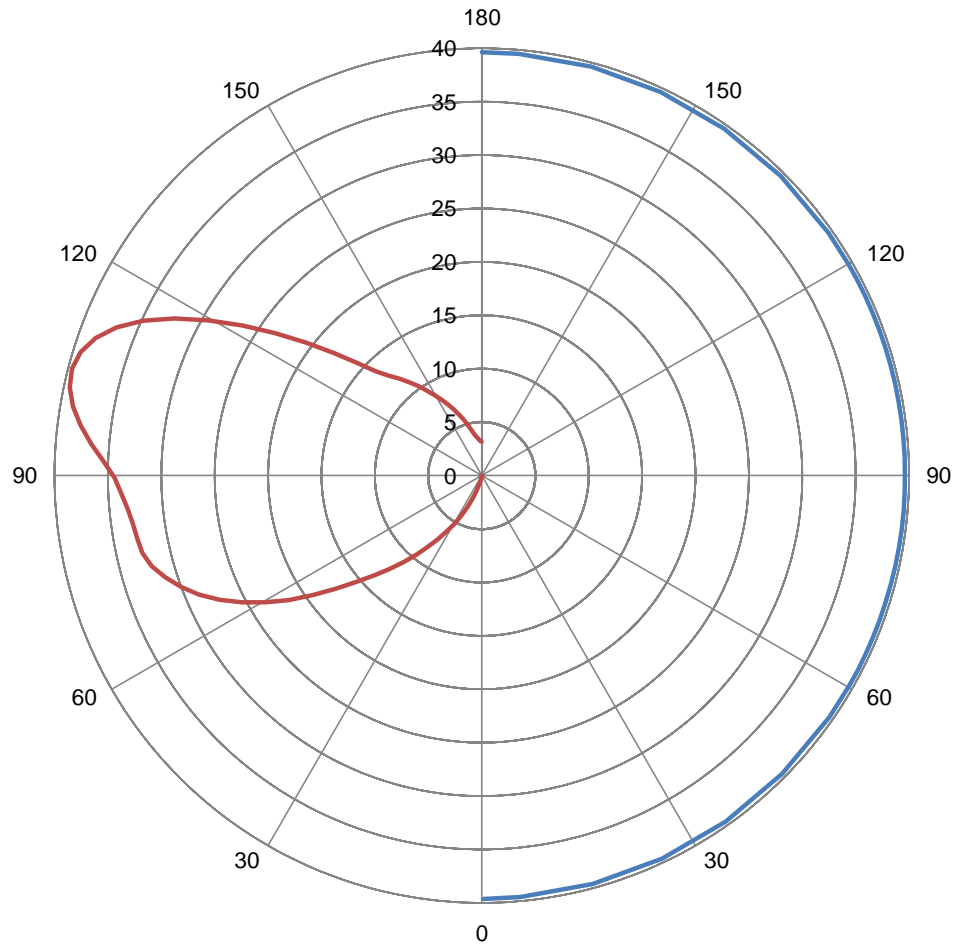
IES Roadway Classification:	Type V, Very Long	Total Lumen Output:	291 Lumens
Cutoff Classification:	Noncutoff	Luminaire Efficacy:	29.5 lm/w
BUG Rating:	B0 U3 G1	Maximum Candela:	40 Candela

### ISO FootCandle Plot at 8 Feet





### Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

105 ° Vertical

Maximum Intensity (Candlepower):

40 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.0	0.0%	60-65	12.3	4.2%	120-125	12.2	4.2%
5-10	0.0	0.0%	65-70	14.5	5.0%	125-130	9.0	3.1%
10-15	0.0	0.0%	70-75	16.2	5.6%	130-135	6.4	2.2%
15-20	0.2	0.1%	75-80	17.4	6.0%	135-140	4.8	1.6%
20-25	0.5	0.2%	80-85	17.9	6.2%	140-145	3.7	1.3%
25-30	1.1	0.4%	85-90	18.5	6.4%	145-150	2.8	1.0%
30-35	1.8	0.6%	90-95	19.4	6.7%	150-155	2.0	0.7%
35-40	2.8	1.0%	95-100	20.5	7.1%	155-160	1.4	0.5%
40-45	4.1	1.4%	100-105	21.0	7.2%	160-165	0.9	0.3%
45-50	5.6	1.9%	105-110	20.5	7.0%	165-170	0.5	0.2%
50-55	7.5	2.6%	110-115	18.6	6.4%	170-175	0.3	0.1%
55-60	9.9	3.4%	115-120	15.7	5.4%	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)	0.9	0.3%
FM	(30-60)	15.9	5.5%
FH	(60-80)	30.2	10.4%
FVH	(80-90)	18.2	6.3%
BL	(0-30)	0.9	0.3%
BM	(30-60)	15.9	5.5%
BH	(60-80)	30.2	10.4%
BVH	(80-90)	18.2	6.3%
UL	(90-100)	40.0	13.8%
UH	(100-180)	120.1	41.3%
Total		290.6	100.0%
<b>BUG Rating</b>	<b>B0 U3 G1</b>		