



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

## Outdoor Distribution Test Report

Relevant Standards  
IES LM-79-2008, IES LM-31-1995 (Withdrawn)  
ANSI C82.77-2002

Prepared For  
**B-K LIGHTING INC**

Chris McCarthy  
40429 Brickyard Dr  
Madera, CA 93636-9515  
United States

Catalog Number  
**AR-SM-HS-12-LED-4000K**

Order Number  
11609579  
Test Number  
11609579.17

Test Date

2017-01-28

Prepared By

Austin Duff, Technician

Approved By

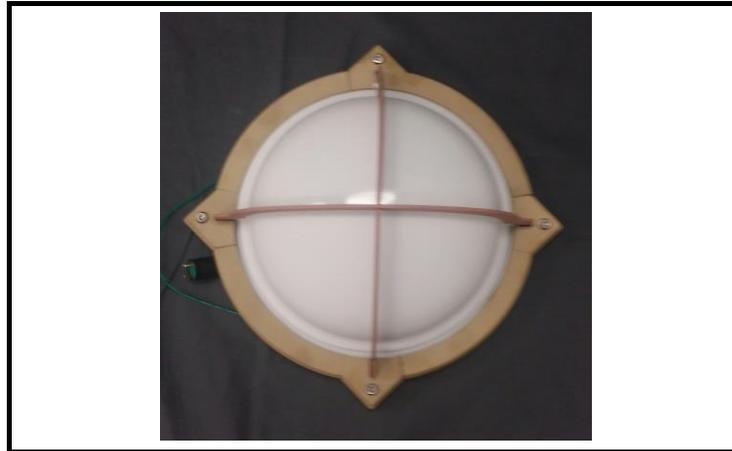
Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Circular formed aluminum housing, white upright shield, cross louver reflectors, and white plastic diffuse lens  
**Lamp:** 16 White LEDs  
**Mounting:** Surface – Wall  
**Ballast/Driver:** FX95100

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 2.50 in.  
Luminous Width: 10.50 in.  
Luminous Height: 5.50 in.

**Summary of Results**

Roadway Classification: Type I, Very Short  
Cutoff Classification: Noncutoff  
BUG Rating: B0 U2 G1

**Test Conditions**

Test Temperature: 24.7 °C  
Voltage: 120.1 VAC  
Current: 0.06103 A  
Power: 6.787 W  
Power Factor: 0.926  
Frequency: 60 Hz  
Current THD: 39.3 %

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

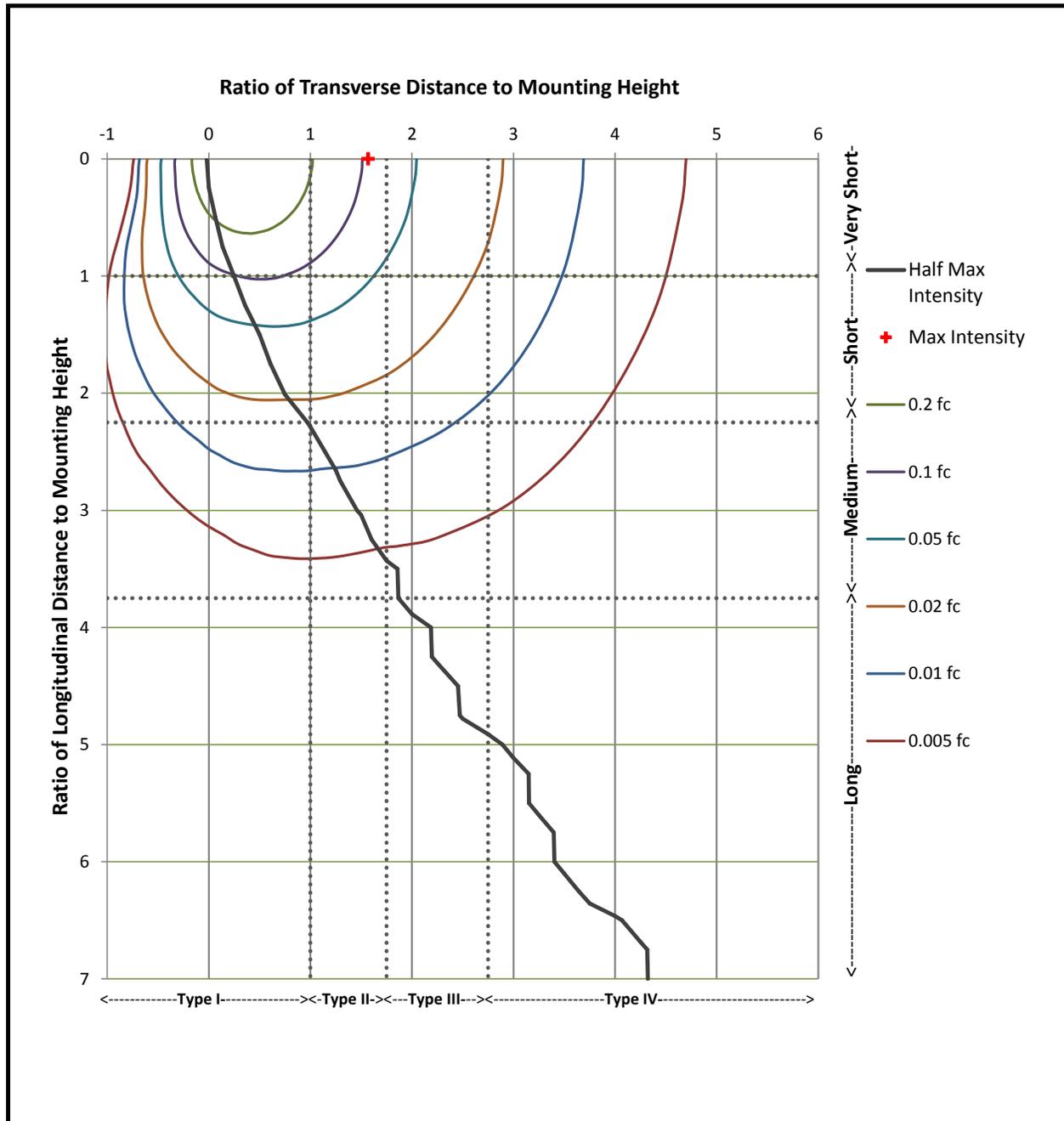
#### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.06103 A	6.787 W	0.926	60 Hz	39.3 %

#### Summary of Results

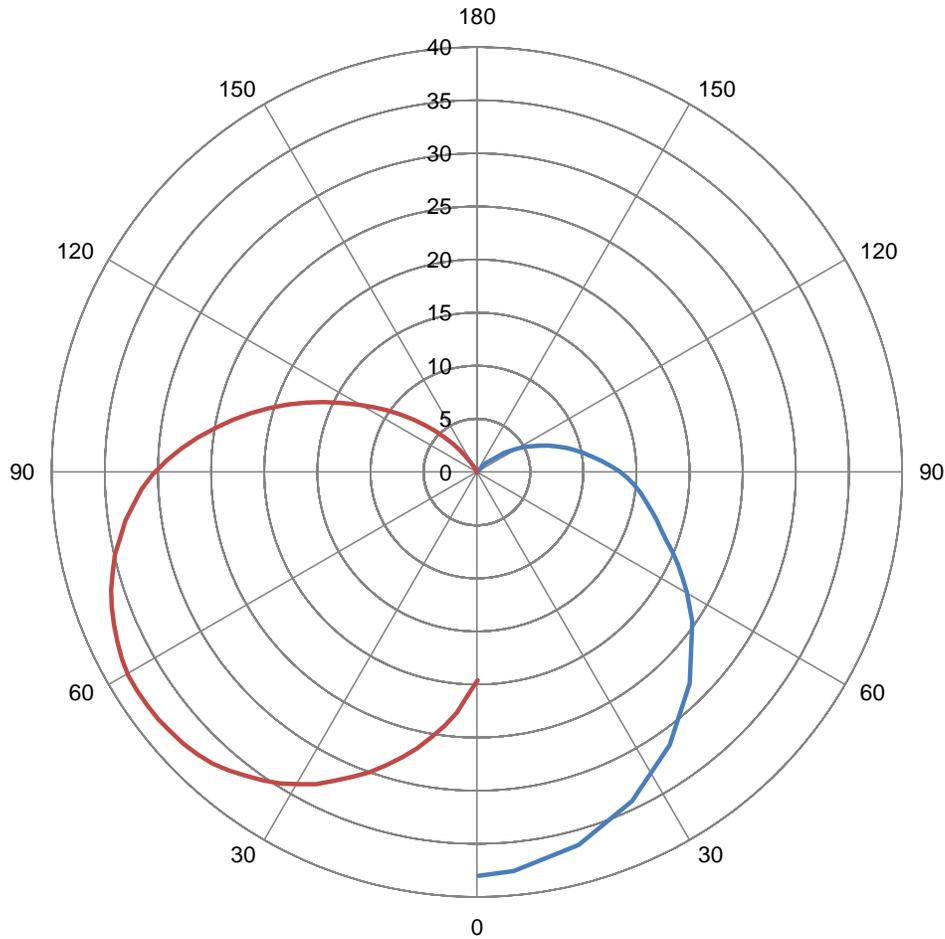
<b>IES Roadway Classification:</b>	Type I, Very Short	<b>Total Lumen Output:</b>	122 Lumens
<b>Cutoff Classification</b>	Noncutoff	<b>Luminaire Efficacy:</b>	18.0 lm/w
<b>BUG Rating:</b>	B0 U2 G1	<b>Maximum Candela:</b>	38 Candela

#### ISO FootCandle Plot at 8 Feet





**Maximum Plane and Cone Plots of Candela**



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

57.5 ° Vertical

**Maximum Intensity (Candlepower):**

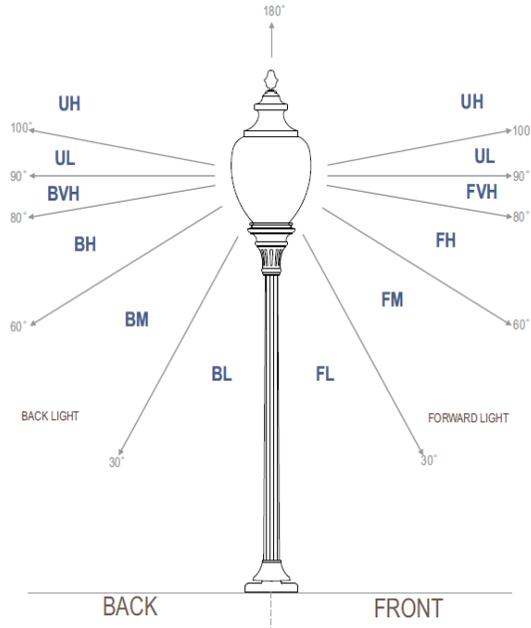
38 Candela

**Zonal Lumen Summary**

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.5	0.4%	60-65	7.2	5.9%	120-125	1.7	1.4%
5-10	1.4	1.1%	65-70	7.2	5.9%	125-130	1.2	1.0%
10-15	2.2	1.8%	70-75	7.1	5.9%	130-135	0.8	0.6%
15-20	3.0	2.5%	75-80	6.9	5.7%	135-140	0.4	0.4%
20-25	3.7	3.1%	80-85	6.6	5.4%	140-145	0.2	0.2%
25-30	4.4	3.6%	85-90	6.2	5.1%	145-150	0.1	0.0%
30-35	5.0	4.1%	90-95	5.7	4.6%	150-155	0.0	0.0%
35-40	5.6	4.5%	95-100	5.0	4.1%	155-160	0.0	0.0%
40-45	6.1	5.0%	100-105	4.3	3.5%	160-165	0.0	0.0%
45-50	6.5	5.3%	105-110	3.6	3.0%	165-170	0.0	0.0%
50-55	6.8	5.6%	110-115	3.0	2.4%	170-175	0.0	0.0%
55-60	7.1	5.8%	115-120	2.3	1.9%	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)	10.6	8.7%
FM	(30-60)	31.7	26.0%
FH	(60-80)	25.9	21.2%
FVH	(80-90)	11.9	9.7%
BL	(0-30)	4.7	3.8%
BM	(30-60)	5.3	4.4%
BH	(60-80)	2.6	2.2%
BVH	(80-90)	0.9	0.8%
UL	(90-100)	10.7	8.8%
UH	(100-180)	17.7	14.5%
Total		122.1	100.0%
<b>BUG Rating</b>	<b>B0 U2 G1</b>		