



UL LLC  
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## 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IES LM-79-2008, IES LM-31-1995 (Withdrawn)  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-HS-11-LED-4000K**

Order Number  
11609579  
Test Number  
11609579.10

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:** Rectangular formed aluminum housing with white plastic diffuse lens.  
**Lamp:** Eight (8) white LEDs  
**Mounting:** Surface – Wall  
**Ballast/Driver:** FX95100

**Luminaire**



**Luminaire Characteristics**

Luminous Length: 2.00 in.  
Luminous Width: 3.750 in.  
Luminous Height: 9.00 in.

**Summary of Results**

Roadway Classification: Type I, Very Short  
Cutoff Classification: Noncutoff  
BUG Rating: B0 U2 G0

**Test Conditions**

Test Temperature: 25.0 °C  
Voltage: 120.1 VAC  
Current: 0.03580 A  
Power: 4.016 W  
Power Factor: 0.932  
Frequency: 60 Hz  
Current THD: 43.1 %

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

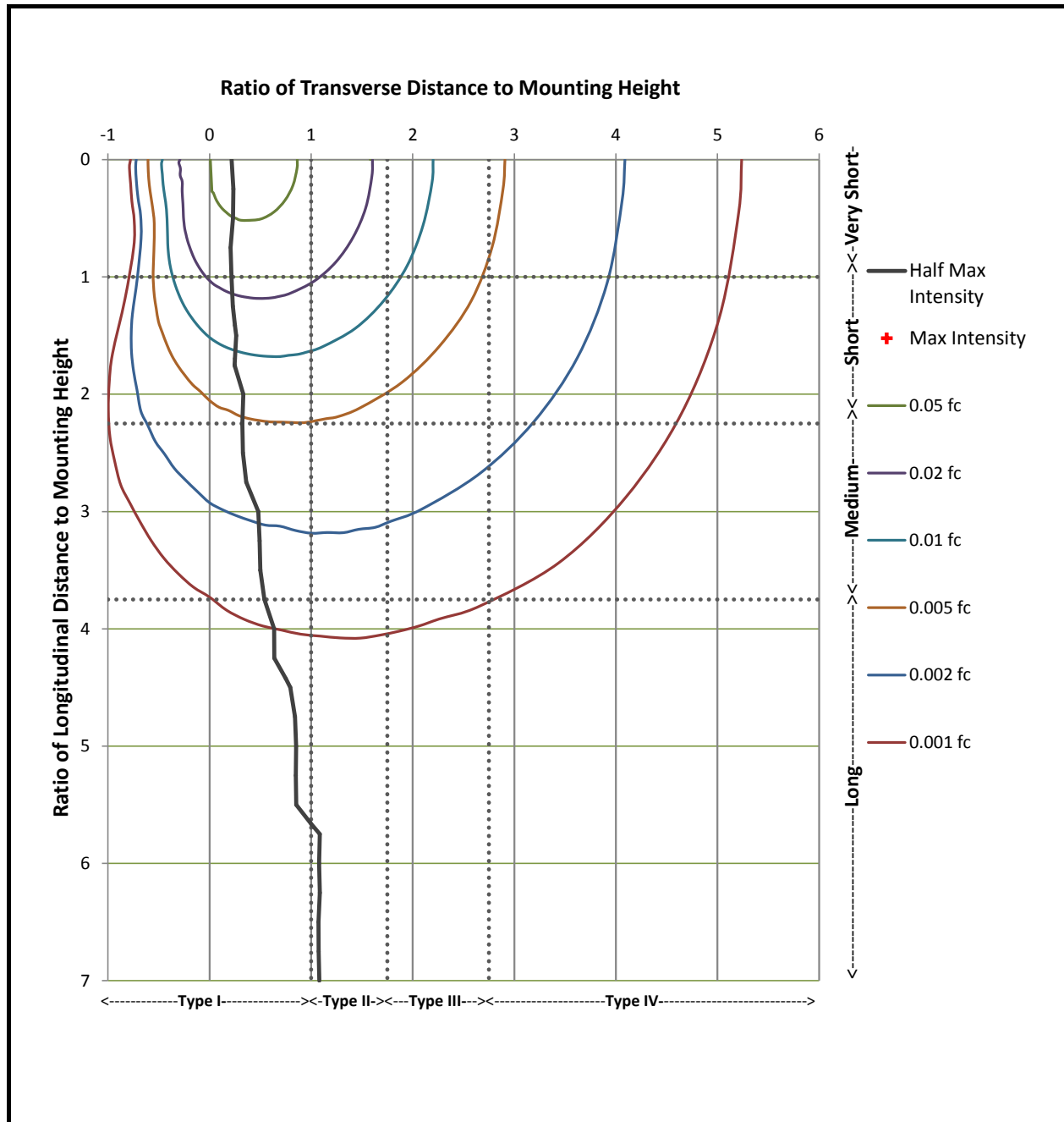
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.0 °C	120.1 VAC	0.03580 A	4.016 W	0.932	60 Hz	43.1 %

### Summary of Results

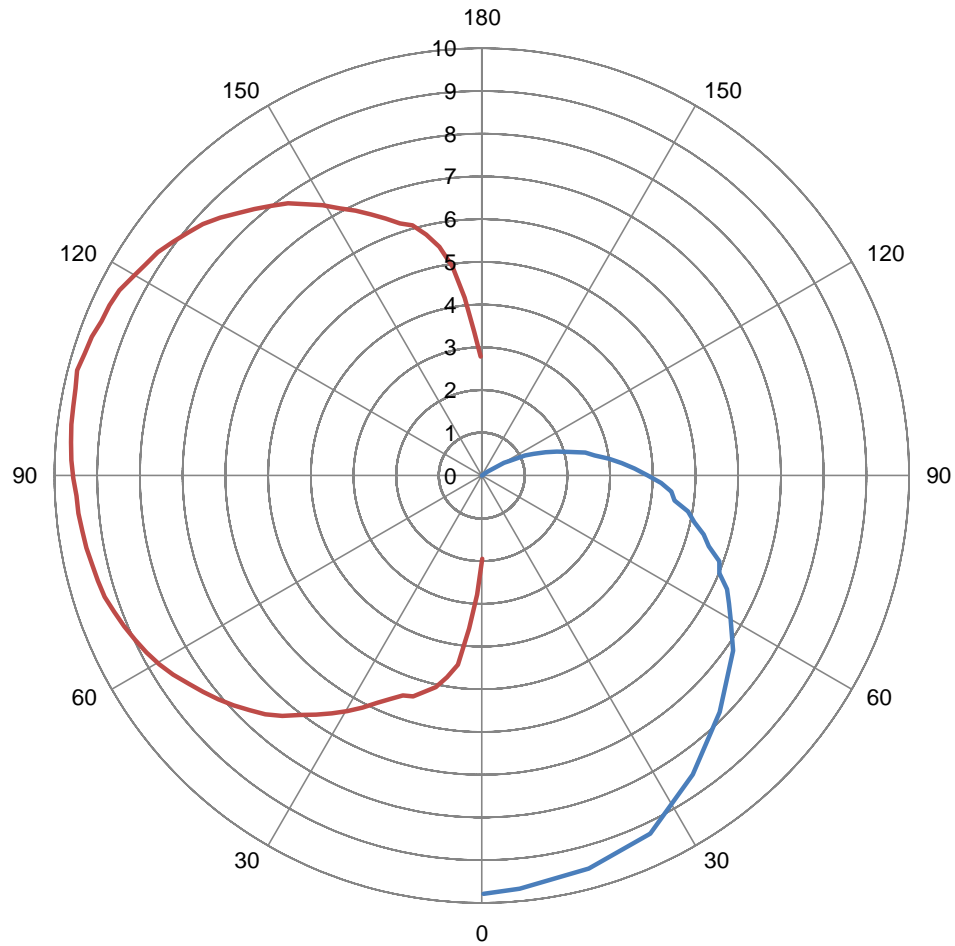
IES Roadway Classification:	Type I, Very Short	Total Lumen Output:	49 Lumens
Cutoff Classification	Noncutoff	Luminaire Efficacy:	12.2 lm/w
BUG Rating:	B0 U2 G0	Maximum Candela:	10 Candela

### 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):

10 Candela

### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0.1	0.1%	60-65	1.9	3.9%	120-125	1.9	3.9%
5-10	0.2	0.5%	65-70	2.0	4.1%	125-130	1.8	3.6%
10-15	0.4	0.8%	70-75	2.1	4.2%	130-135	1.6	3.3%
15-20	0.5	1.1%	75-80	2.1	4.3%	135-140	1.5	3.0%
20-25	0.7	1.4%	80-85	2.2	4.4%	140-145	1.3	2.7%
25-30	0.9	1.8%	85-90	2.2	4.4%	145-150	1.2	2.4%
30-35	1.0	2.1%	90-95	2.2	4.5%	150-155	1.0	2.0%
35-40	1.2	2.4%	95-100	2.2	4.5%	155-160	0.8	1.7%
40-45	1.3	2.7%	100-105	2.2	4.5%	160-165	0.6	1.3%
45-50	1.5	3.0%	105-110	2.2	4.4%	165-170	0.5	0.9%
50-55	1.6	3.3%	110-115	2.1	4.3%	170-175	0.3	0.5%
55-60	1.8	3.6%	115-120	2.0	4.1%	175-180	0.1	0.2%



**IES "BUG" Rating**  
(Back Light, Uplight, Glare)  
Per IES TM-15-11



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	2.0	4.1%
FM	(30-60)	7.3	14.8%
FH	(60-80)	7.3	14.9%
FVH	(80-90)	3.9	8.0%
BL	(0-30)	0.8	1.6%
BM	(30-60)	1.1	2.3%
BH	(60-80)	0.8	1.5%
BVH	(80-90)	0.4	0.8%
UL	(90-100)	4.4	9.0%
UH	(100-180)	21.0	42.9%
Total		49.0	100.0%
<b>BUG Rating</b>	<b>B0 U2 G0</b>		