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## Outdoor Distribution Test Report

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

Prepared For  
**Express Imaging Systems LLC dba Evluma**

Blake Coudriet  
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Renton, WA 98057  
United States

Catalog Number  
**AX-70-50-3-C**

Order Number  
12698747

Test Number  
12698747.02A

Revised:  
2019-01-22  
Test Date

2019-01-18

Prepared By

Austin Duff, Technician

Approved By

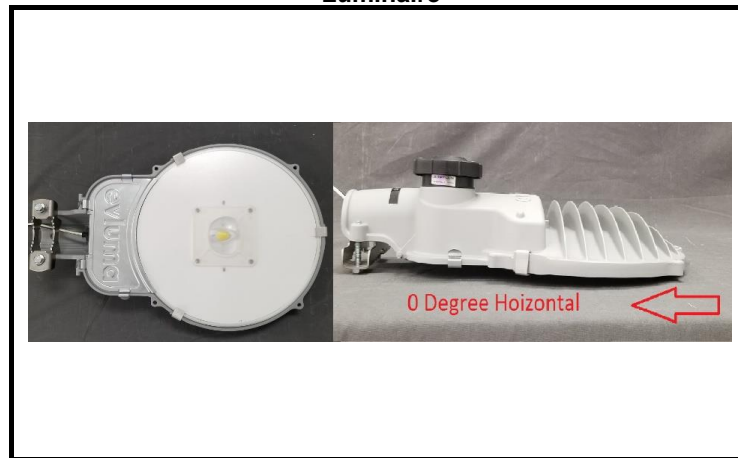
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Gray metal housing, white plastic reflector and cutoff glass lens  
**Lamp:** One (1) white LED with optic below  
**Mounting:** Pole/Arm

### Luminaire



### Luminaire Characteristics

Luminous Diameter: 11.00 in.

### Summary of Results

Roadway Classification: Type II, Short  
Cutoff Classification: Full Cutoff  
BUG Rating: B2 U0 G2

### Test Conditions

Test Temperature: 24.7 °C  
Voltage: 120.1 VAC  
Current: 0.5772 A  
Power: 69.15 W  
Power Factor: 0.997  
Frequency: 60 Hz  
Current THD: 6.82 %

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

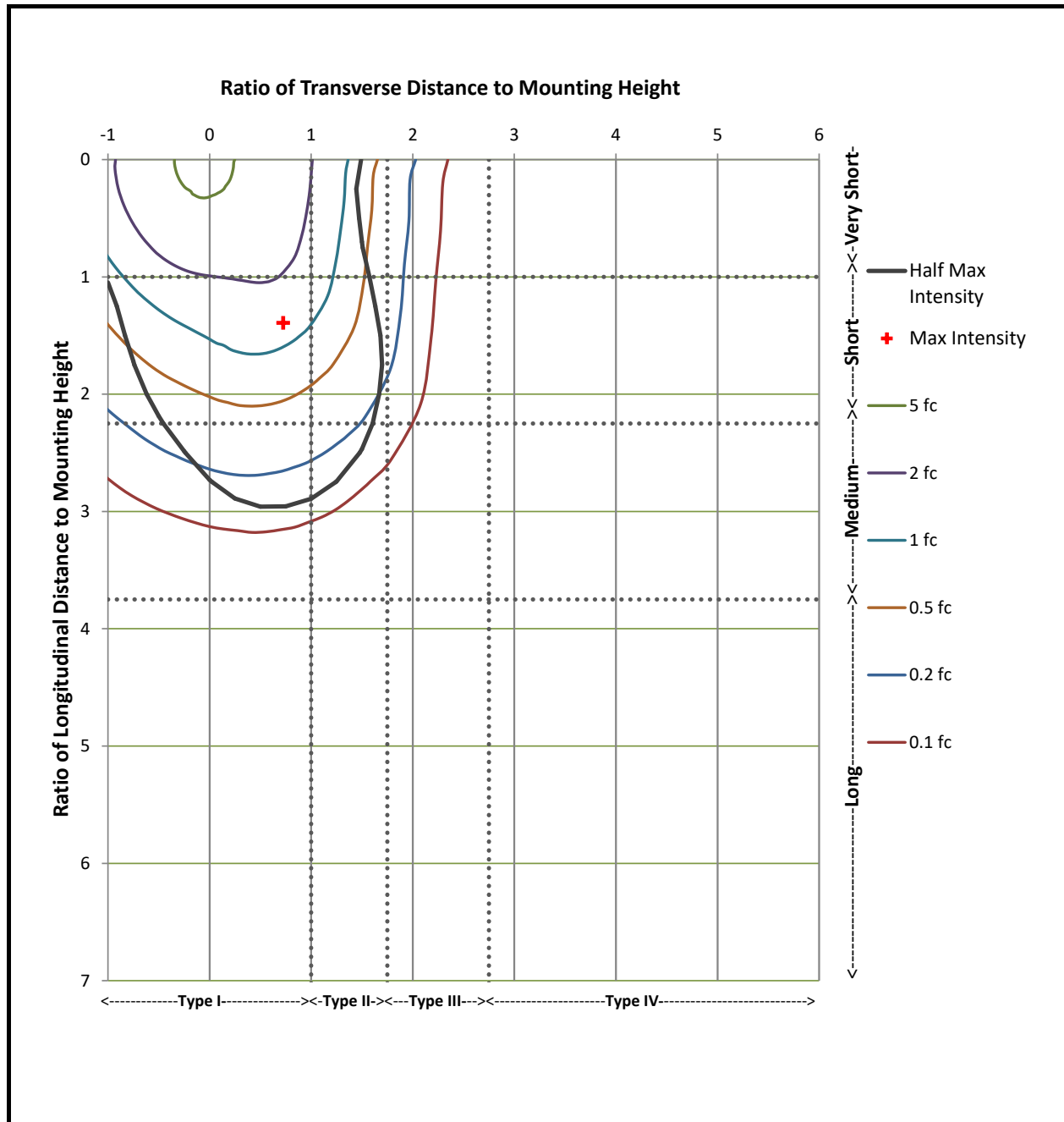
### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.5772 A	69.15 W	0.997	60 Hz	6.82 %

### Summary of Results

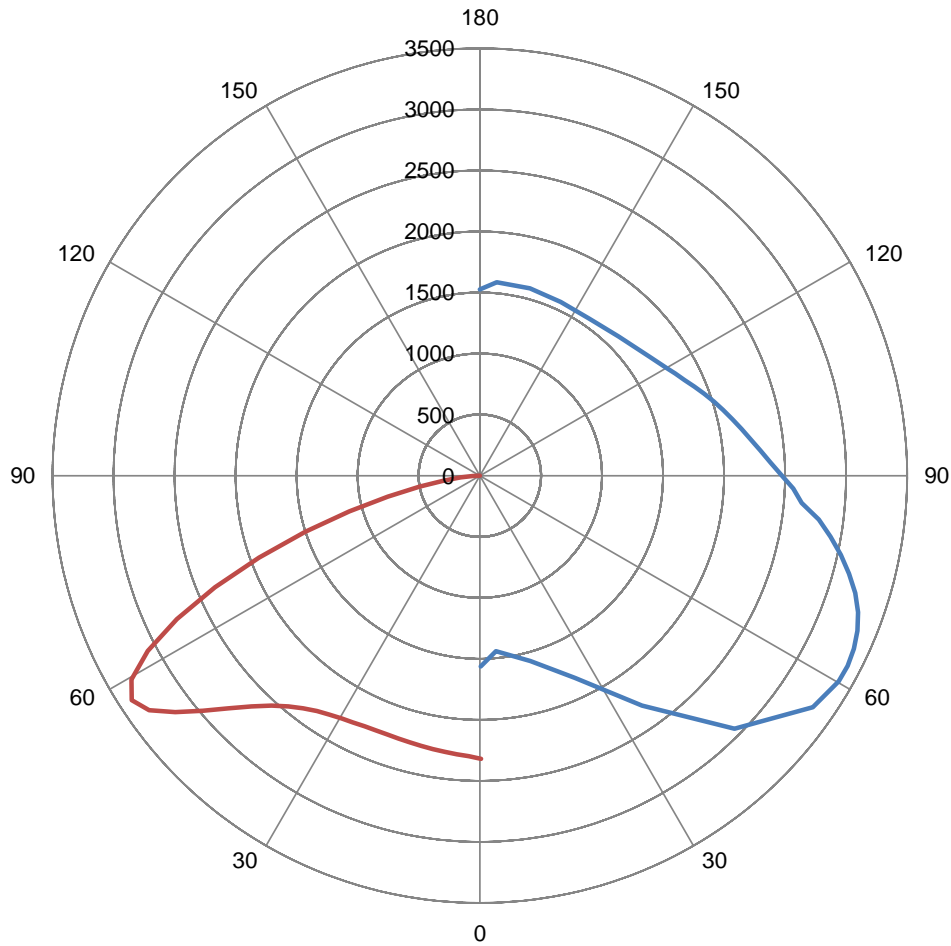
<b>IES Roadway Classification:</b>	Type II, Short	<b>Total Lumen Output:</b>	9485 Lumens
<b>Cutoff Classification</b>	Full Cutoff	<b>Luminaire Efficacy:</b>	137.2 lm/w
<b>BUG Rating:</b>	B2 U0 G2	<b>Maximum Candela:</b>	3393 Candela

### ISO FootCandle Plot at 20 Feet





**Maximum Plane and Cone Plots of Candela**



Vertical Plane Through

62.5 ° Lateral

Lateral Cone Through

57.5 ° Vertical

**Maximum Intensity (Candlepower):**

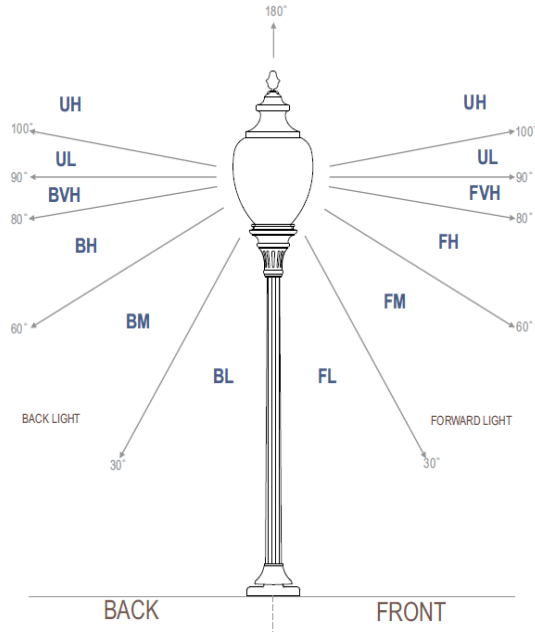
3393 Candela

**Zonal Lumen Summary**

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	58.9	0.6%	60-65	868.7	9.2%	120-125	0.0	0.0%
5-10	165.2	1.7%	65-70	676.8	7.1%	125-130	0.0	0.0%
10-15	272.6	2.9%	70-75	459.6	4.8%	130-135	0.0	0.0%
15-20	376.3	4.0%	75-80	262.3	2.8%	135-140	0.0	0.0%
20-25	476.0	5.0%	80-85	117.7	1.2%	140-145	0.0	0.0%
25-30	572.8	6.0%	85-90	29.5	0.3%	145-150	0.0	0.0%
30-35	667.6	7.0%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	759.2	8.0%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	844.4	8.9%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	920.2	9.7%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	977.5	10.3%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	979.9	10.3%	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)	936.5	9.9%
FM	(30-60)	2841.4	30.0%
FH	(60-80)	1292.3	13.6%
FVH	(80-90)	75.1	0.8%
BL	(0-30)	985.3	10.4%
BM	(30-60)	2307.4	24.3%
BH	(60-80)	975.3	10.3%
BVH	(80-90)	72.1	0.8%
UL	(90-100)	0.0	0.0%
UH	(100-180)	0.0	0.0%
Total		9485.3	100.0%
<b>BUG Rating</b>	<b>B2 U0 G2</b>		