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## Outdoor Distribution Test Report

Relevant Standards  
IES LM-79-2008, ANSI C82.77-10-2014

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

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Renton, WA 98057  
United States

Catalog Number  
**OLS-1-A3-AC-8F**

Order Number

13455531

Test Number

13455531.03A

Revision of Test# 13455531.03 on:

2020-09-03

Test Date

2020-08-12

Prepared By

Austin Duff, Technician

Approved By

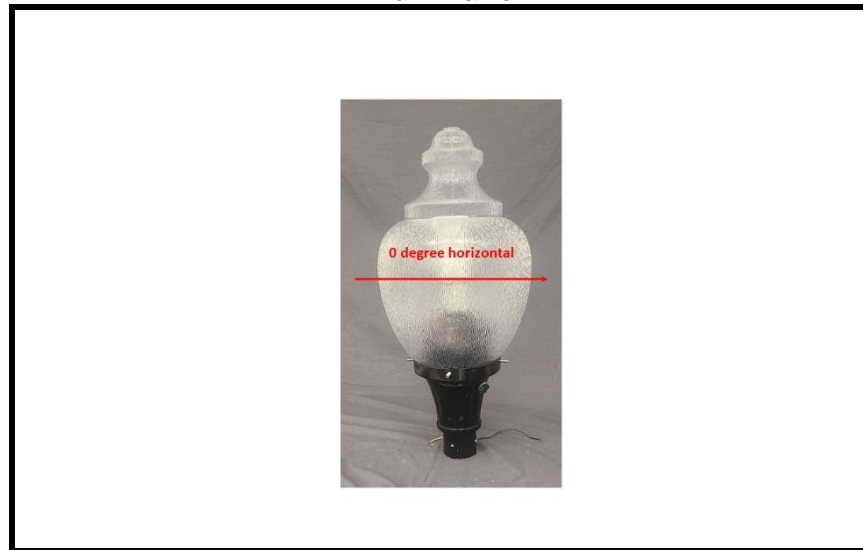
Eric Gaudreau, Engineering Leader

The results contained in this report pertain only to the tested sample.  
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**Luminaire Description:** Black metal base and diffuse patterned plastic lens  
**Lamp:** White LED array  
**Lamp Catalog Number:** OMNI-70-4K-MO  
**Mounting:** Post  
**Ballast/Driver:** Internal

**Luminaire**



**Luminaire Characteristics**

Luminous Diameter: 14.00 in.  
Luminous Height: 12.00 in.

**Summary of Results**

Roadway Classification: Type VS, Very Short  
Cutoff Classification: Noncutoff  
BUG Rating: B2 U5 G3

**Test Conditions**

Test Temperature: 25.6 °C  
Voltage: 120.1 VAC  
Current: 0.5826 A  
Power: 69.67 W  
Power Factor: 0.996  
Frequency: 60 Hz  
Current THD: 7.42 %

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

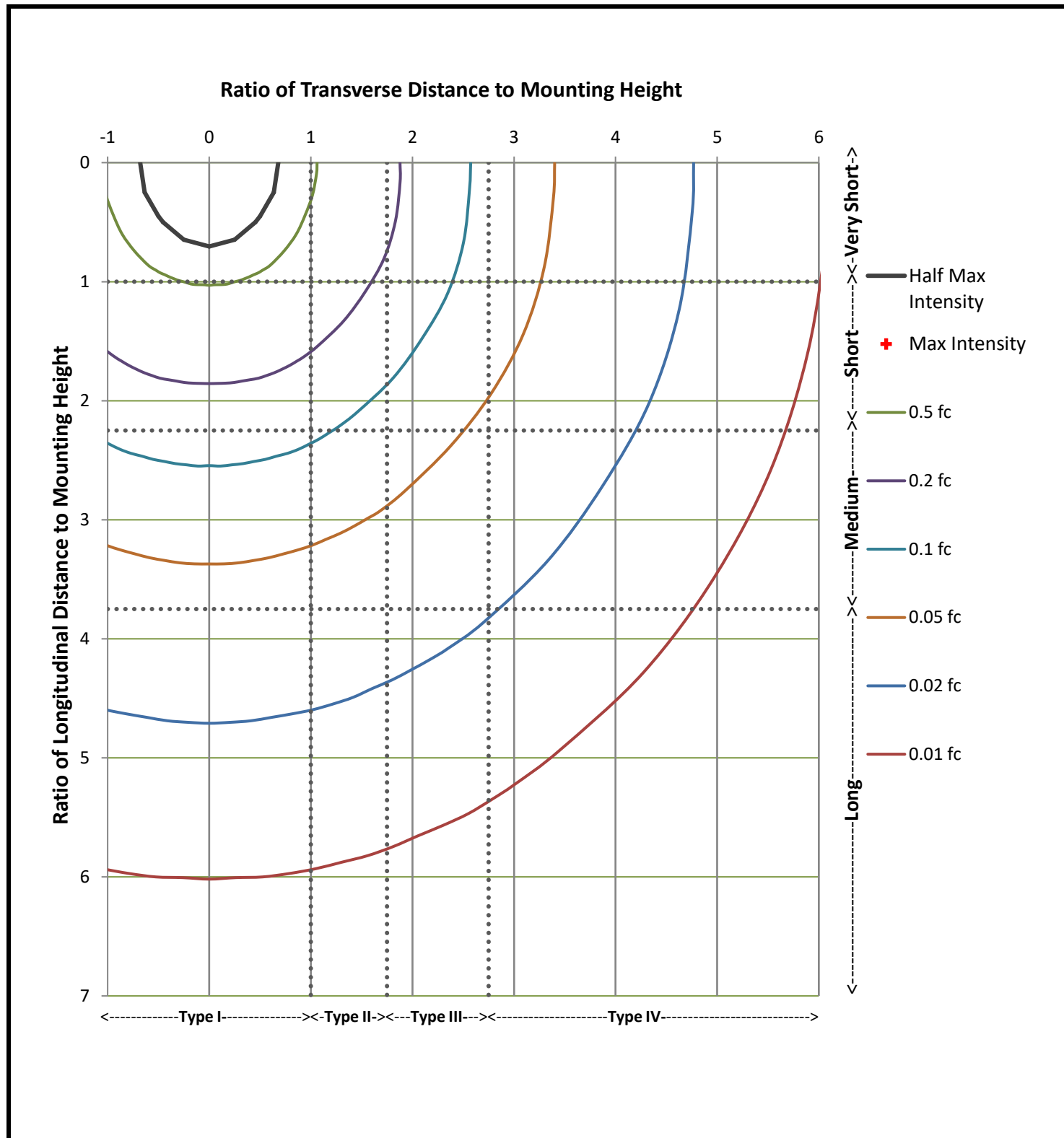
#### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.6 °C	120.1 VAC	0.5826 A	69.67 W	0.996	60 Hz	7.42 %

#### Summary of Results

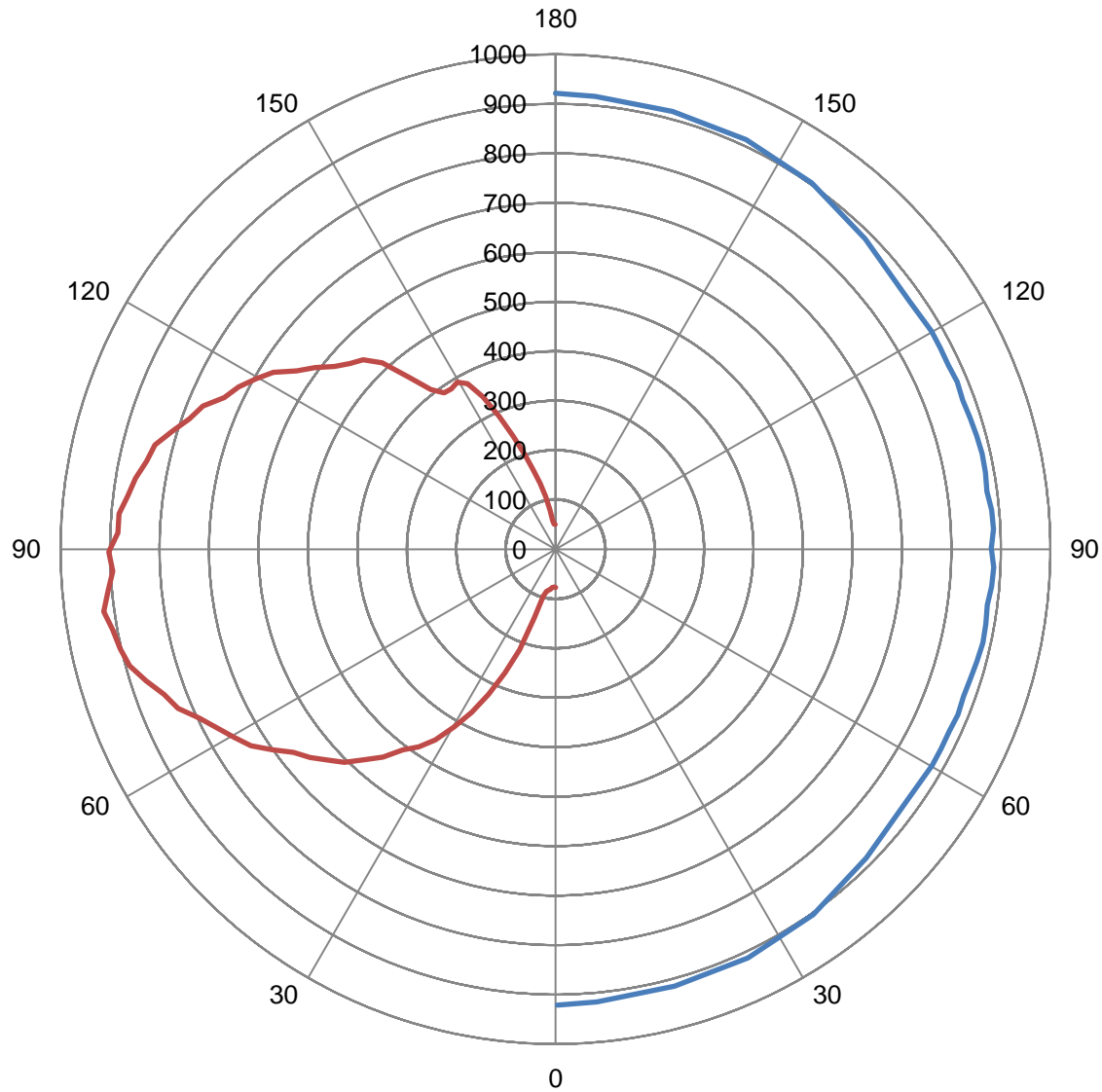
<b>IES Roadway Classification:</b> Type VS, Very Short	<b>Total Lumen Output:</b> 8260 Lumens
<b>Cutoff Classification:</b> Noncutoff	<b>Luminaire Efficacy:</b> 118.6 lm/w
<b>BUG Rating:</b> B2 U5 G3	<b>Maximum Candela:</b> 921 Candela

#### ISO FootCandle Plot at 20 Feet





**Maximum Plane and Cone Plots of Candela**



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

82.5 ° Vertical

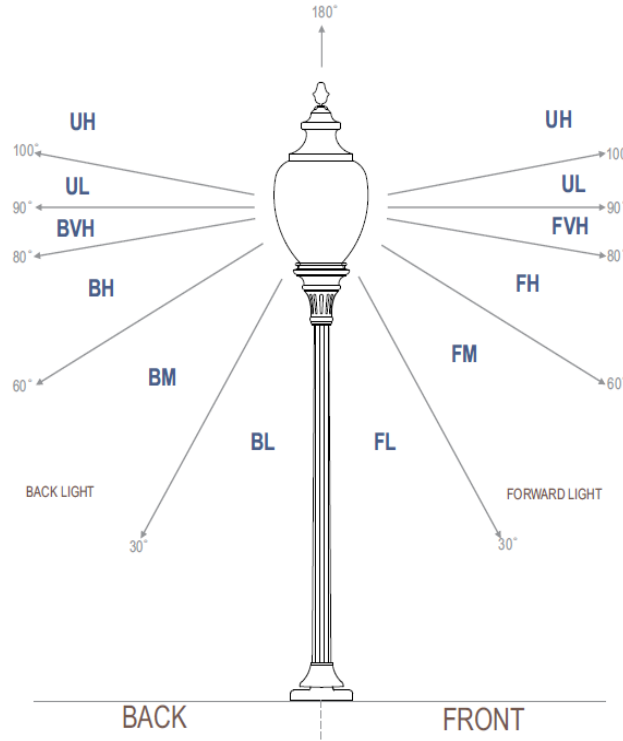
**Maximum Intensity (Candlepower):** 921 Candela

**Zonal Lumen Summary**

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.9	0.0%	60-65	377.0	4.6%	120-125	303.3	3.7%
5-10	5.8	0.1%	65-70	415.1	5.0%	125-130	263.4	3.2%
10-15	10.7	0.1%	70-75	449.4	5.4%	130-135	228.1	2.8%
15-20	25.8	0.3%	75-80	474.2	5.7%	135-140	190.5	2.3%
20-25	58.0	0.7%	80-85	485.3	5.9%	140-145	137.8	1.7%
25-30	92.6	1.1%	85-90	483.9	5.9%	145-150	111.9	1.4%
30-35	129.6	1.6%	90-95	480.3	5.8%	150-155	96.8	1.2%
35-40	168.4	2.0%	95-100	467.9	5.7%	155-160	64.9	0.8%
40-45	208.5	2.5%	100-105	447.3	5.4%	160-165	34.1	0.4%
45-50	250.3	3.0%	105-110	418.2	5.1%	165-170	16.2	0.2%
50-55	292.5	3.5%	110-115	383.1	4.6%	170-175	6.1	0.1%
55-60	335.2	4.1%	115-120	344.3	4.2%	175-180	1.4	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)	97.4	1.2%
FM	(30-60)	692.3	8.4%
FH	(60-80)	857.9	10.4%
FVH	(80-90)	484.6	5.9%
BL	(0-30)	97.4	1.2%
BM	(30-60)	692.3	8.4%
BH	(60-80)	857.9	10.4%
BVH	(80-90)	484.6	5.9%
UL	(90-100)	948.2	11.5%
UH	(100-180)	3047.4	36.9%
Total		8259.9	100.0%
<b>BUG Rating</b>	<b>B2 U5 G3</b>		

