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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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United States

Catalog Number  
**OLS-1-C1-PC-8F**

Order Number

13407956

Test Number

13407956.04A

Revision for Test# 13407956.03 on:

2020-09-11

Test Date

2020-07-04

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: 16.00 in.  
Luminous Height: 20.00 in.

### Summary of Results

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

### Test Conditions

Test Temperature: 24.5 °C  
Voltage: 120.0 VAC  
Current: 0.5842 A  
Power: 69.85 W  
Power Factor: 0.996  
Frequency: 60 Hz  
Current THD: 7.47 %

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

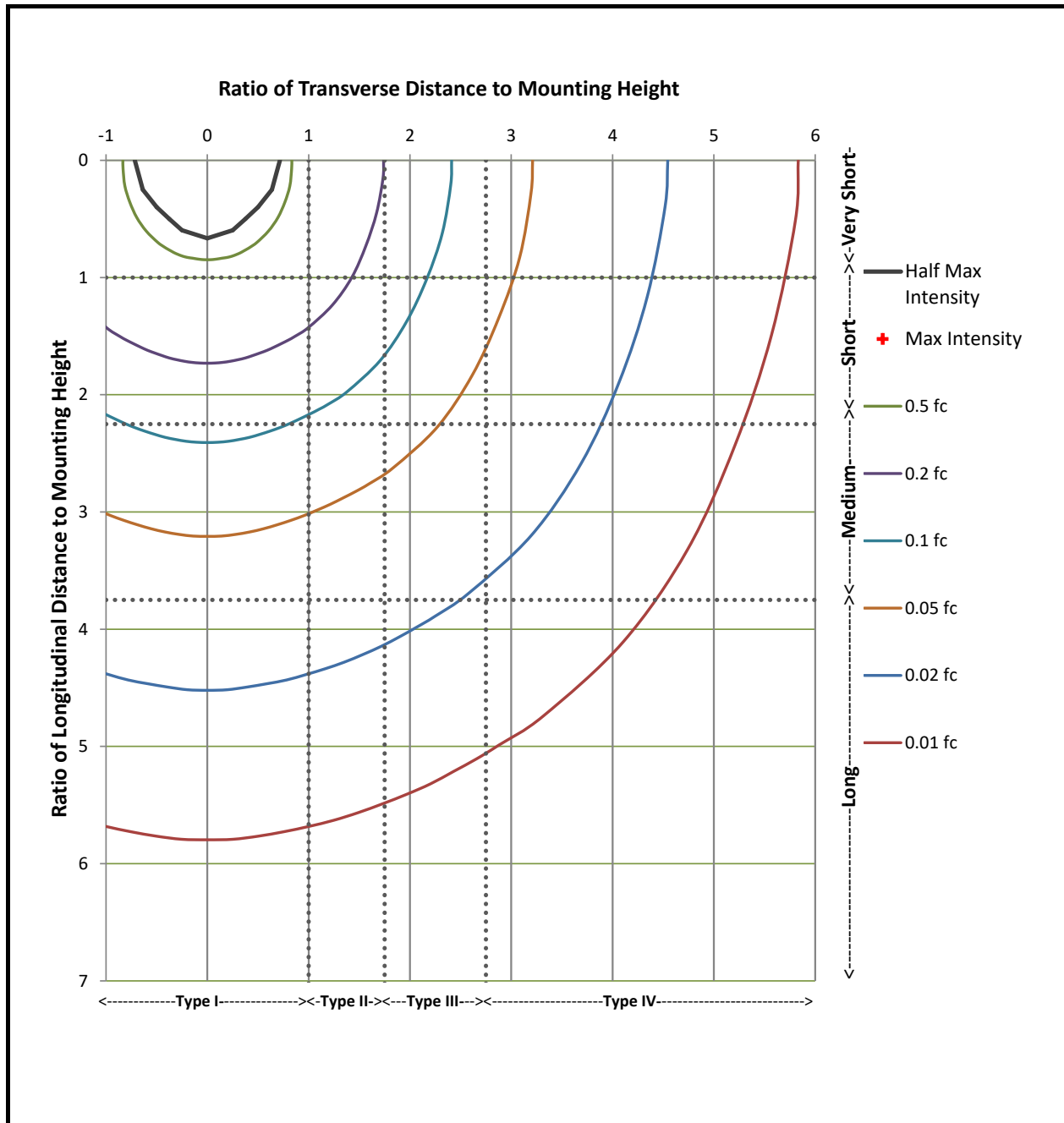
#### Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.0 VAC	0.5842 A	69.85 W	0.996	60 Hz	7.47 %

#### Summary of Results

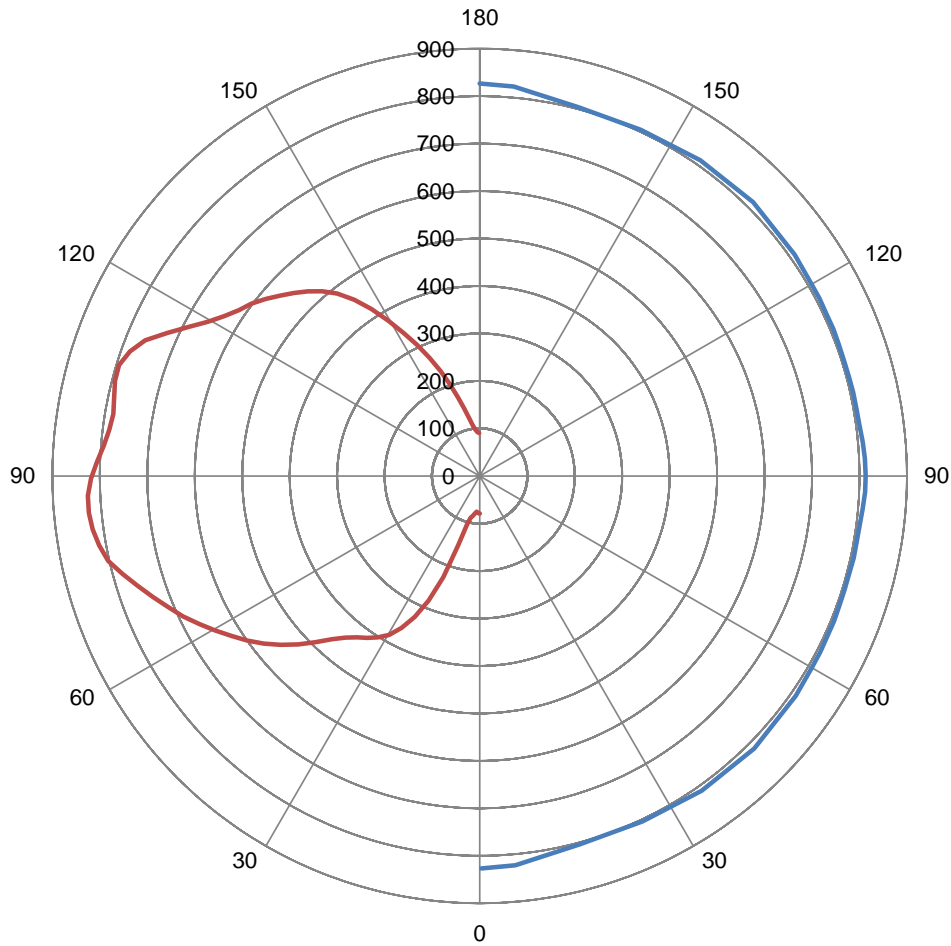
<b>IES Roadway Classification:</b> Type VS, Very Short	<b>Total Lumen Output:</b> 7620 Lumens
<b>Cutoff Classification:</b> Noncutoff	<b>Luminaire Efficacy:</b> 109.1 lm/w
<b>BUG Rating:</b> B2 U5 G3	<b>Maximum Candela:</b> 827 Candela

#### ISO FootCandle Plot at 20 Feet





**Maximum Plane and Cone Plots of Candela**



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

85 ° Vertical

**Maximum Intensity (Candlepower):**

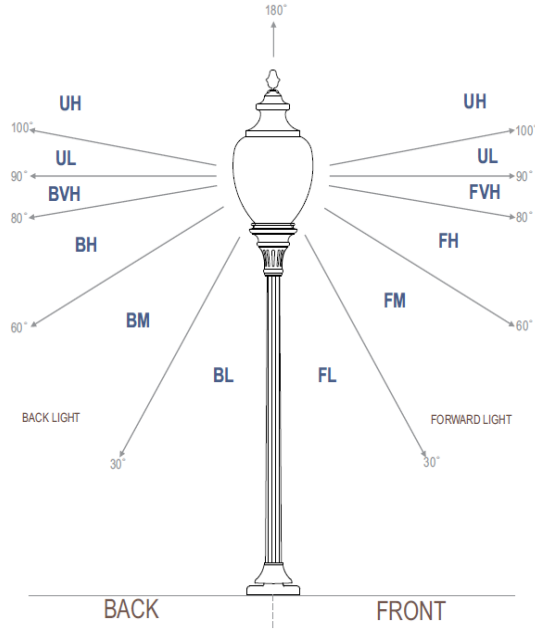
827 Candela

**Zonal Lumen Summary**

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.9	0.0%	60-65	322.1	4.2%	120-125	292.0	3.8%
5-10	5.7	0.1%	65-70	356.8	4.7%	125-130	259.6	3.4%
10-15	11.3	0.1%	70-75	390.5	5.1%	130-135	227.7	3.0%
15-20	27.9	0.4%	75-80	419.3	5.5%	135-140	195.4	2.6%
20-25	61.1	0.8%	80-85	437.3	5.7%	140-145	159.6	2.1%
25-30	93.5	1.2%	85-90	443.7	5.8%	145-150	120.2	1.6%
30-35	122.1	1.6%	90-95	439.4	5.8%	150-155	84.0	1.1%
35-40	146.3	1.9%	95-100	430.3	5.6%	155-160	54.3	0.7%
40-45	173.1	2.3%	100-105	423.2	5.6%	160-165	31.8	0.4%
45-50	208.2	2.7%	105-110	410.0	5.4%	165-170	16.8	0.2%
50-55	247.6	3.2%	110-115	378.1	5.0%	170-175	7.8	0.1%
55-60	286.0	3.8%	115-120	332.7	4.4%	175-180	2.4	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)	100.7	1.3%
FM	(30-60)	591.6	7.8%
FH	(60-80)	744.3	9.8%
FVH	(80-90)	440.5	5.8%
BL	(0-30)	100.7	1.3%
BM	(30-60)	591.6	7.8%
BH	(60-80)	744.3	9.8%
BVH	(80-90)	440.5	5.8%
UL	(90-100)	869.7	11.4%
UH	(100-180)	2995.6	39.3%
Total		7619.6	100.0%
<b>BUG Rating</b>		<b>B2 U5 G3</b>	

