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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-A3-PC-8F

Order Number

13455531

Test Number

13455531.04A

Revision of Test# 13455531.04 on:

2020-09-03

Test Date

2020-08-12

Prepared By

Austin Duff, Technician

Approved By

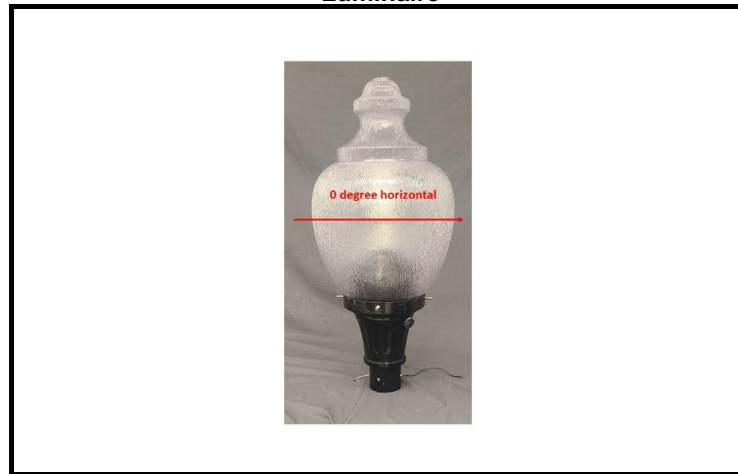
Eric Gaudreau, Engineering Leader

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, Medium
Cutoff Classification: Noncutoff
BUG Rating: B2 U5 G3

Test Conditions

Test Temperature: 24.6 °C
Voltage: 120.1 VAC
Current: 0.5830 A
Power: 69.71 W
Power Factor: 0.996
Frequency: 60 Hz
Current THD: 7.44 %

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

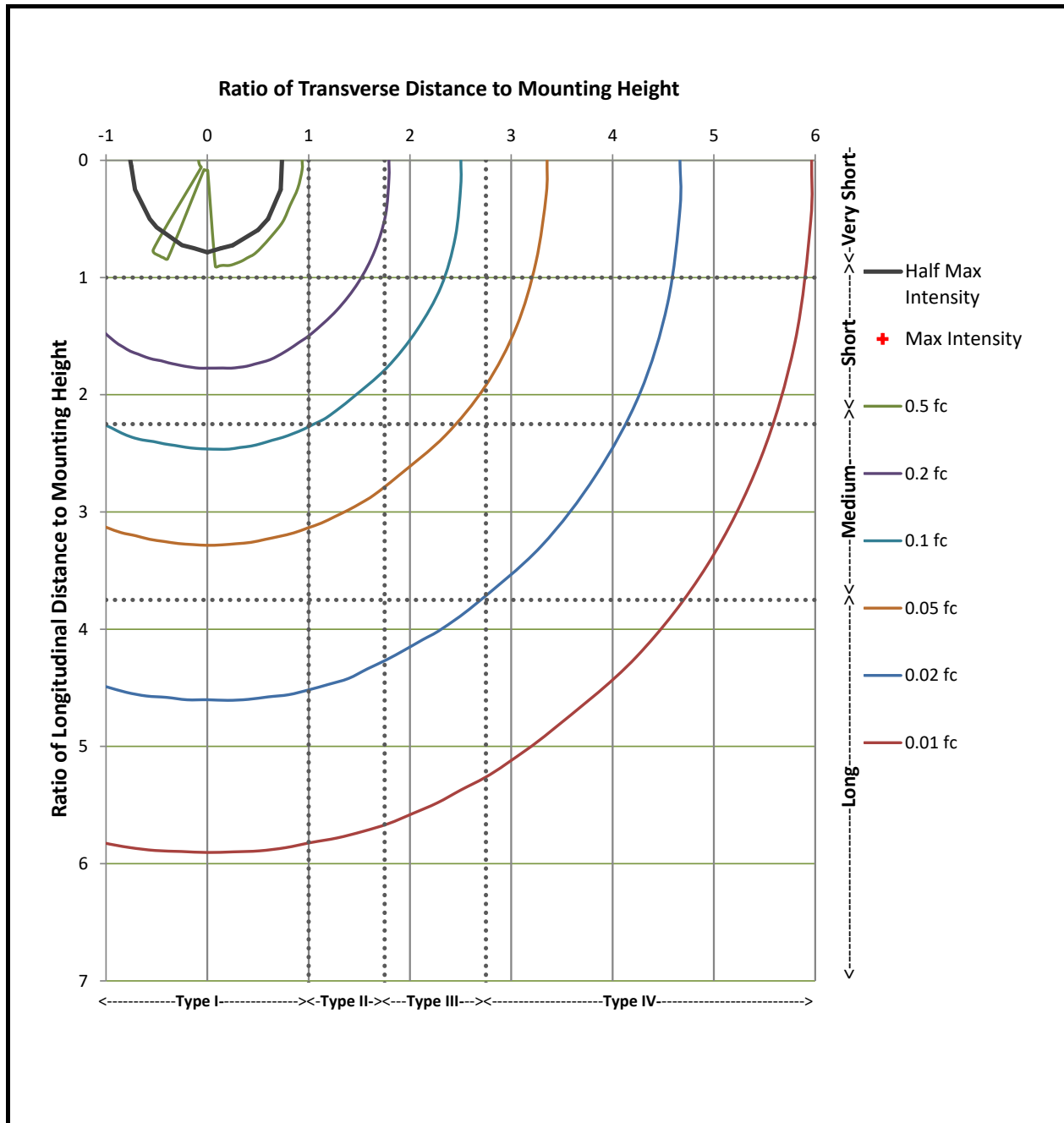
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.5830 A	69.71 W	0.996	60 Hz	7.44 %

Summary of Results

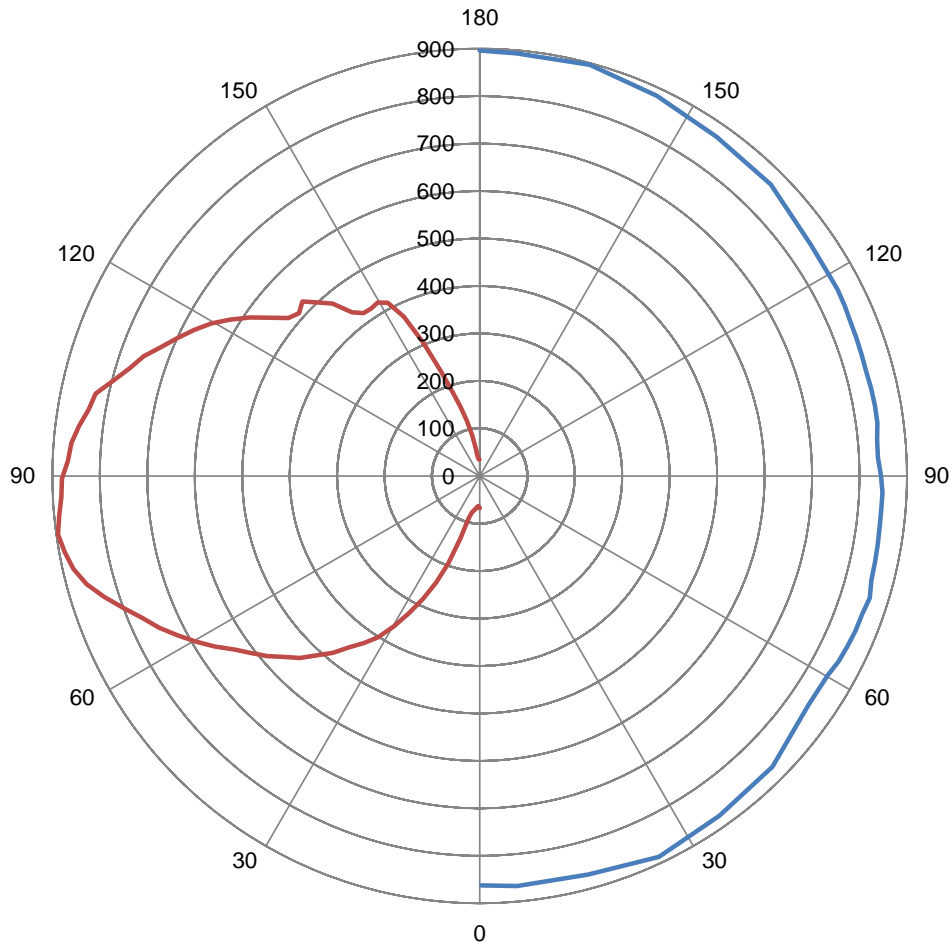
IES Roadway Classification:	Type VS, Med.	Total Lumen Output:	7754 Lumens
Cutoff Classification	Noncutoff B2	Luminaire Efficacy:	111.2 lm/w
BUG Rating:	U5 G3	Maximum Candela:	897 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

165 ° Lateral

Lateral Cone Through

82.5 ° Vertical

Maximum Intensity (Candlepower):

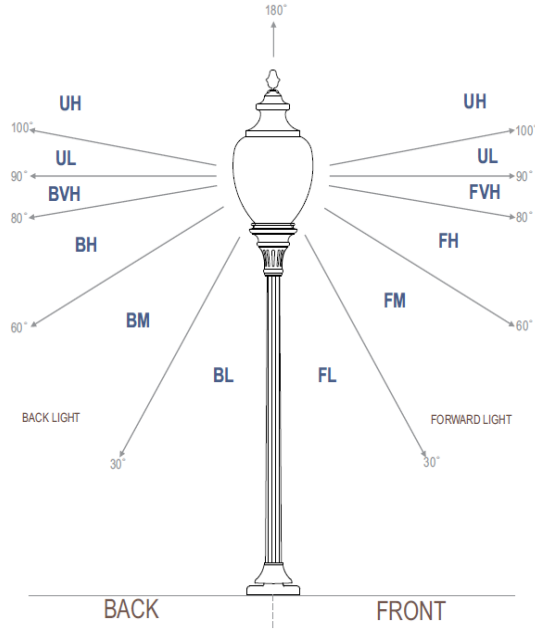
897 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.7	0.0%	60-65	346.7	4.5%	120-125	281.0	3.6%
5-10	5.0	0.1%	65-70	388.1	5.0%	125-130	238.9	3.1%
10-15	9.6	0.1%	70-75	426.9	5.5%	130-135	209.3	2.7%
15-20	23.9	0.3%	75-80	455.6	5.9%	135-140	181.3	2.3%
20-25	53.3	0.7%	80-85	469.2	6.1%	140-145	142.5	1.8%
25-30	84.4	1.1%	85-90	467.2	6.0%	145-150	118.4	1.5%
30-35	117.0	1.5%	90-95	459.6	5.9%	150-155	95.9	1.2%
35-40	150.2	1.9%	95-100	444.4	5.7%	155-160	60.0	0.8%
40-45	186.3	2.4%	100-105	422.4	5.4%	160-165	29.9	0.4%
45-50	224.3	2.9%	105-110	393.1	5.1%	165-170	13.3	0.2%
50-55	263.7	3.4%	110-115	359.1	4.6%	170-175	4.4	0.1%
55-60	304.7	3.9%	115-120	321.7	4.1%	175-180	0.9	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)	90.0	1.2%
FM	(30-60)	624.8	8.1%
FH	(60-80)	812.8	10.5%
FVH	(80-90)	467.5	6.0%
BL	(0-30)	87.9	1.1%
BM	(30-60)	621.4	8.0%
BH	(60-80)	804.6	10.4%
BVH	(80-90)	468.9	6.0%
UL	(90-100)	903.9	11.7%
UH	(100-180)	2872.3	37.0%
Total		7754.1	100.0%
BUG Rating		B2 U5 G3	

