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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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Catalog Number
OLS-1-B1-LD-8F

Order Number
13455531
Test Number
13455531.05A

Revision of Test# 13455531.05 on:

2020-09-03
Test Date

2020-08-13

Prepared By

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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: 15.00 in.
Luminous Height: 14.00 in.

Summary of Results

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

Test Conditions

Test Temperature: 24.7 °C
Voltage: 120.1 VAC
Current: 0.5856 A
Power: 70.03 W
Power Factor: 0.996
Frequency: 60 Hz
Current THD: 7.49 %

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

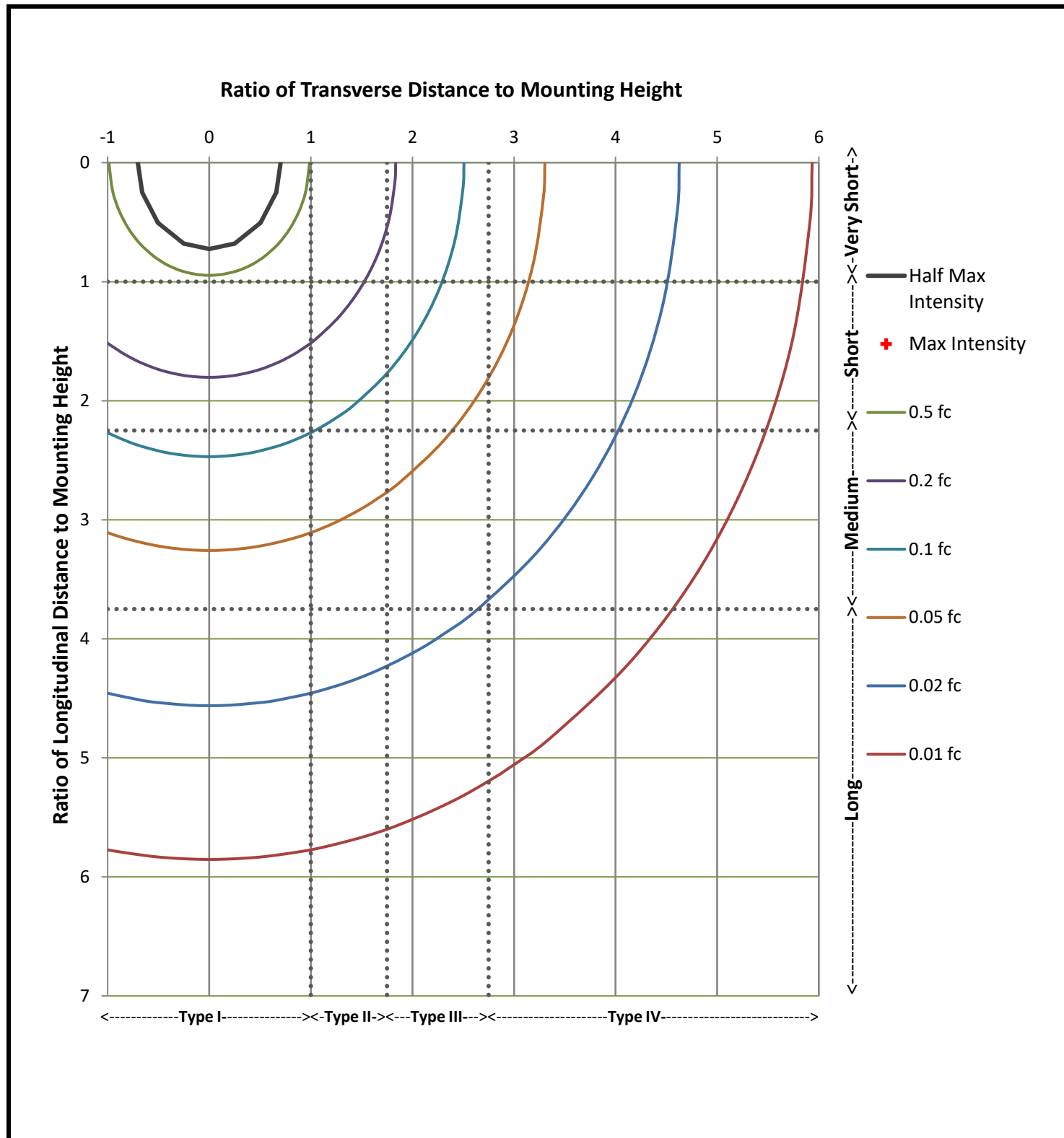
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.1 VAC	0.5856 A	70.03 W	0.996	60 Hz	7.49 %

Summary of Results

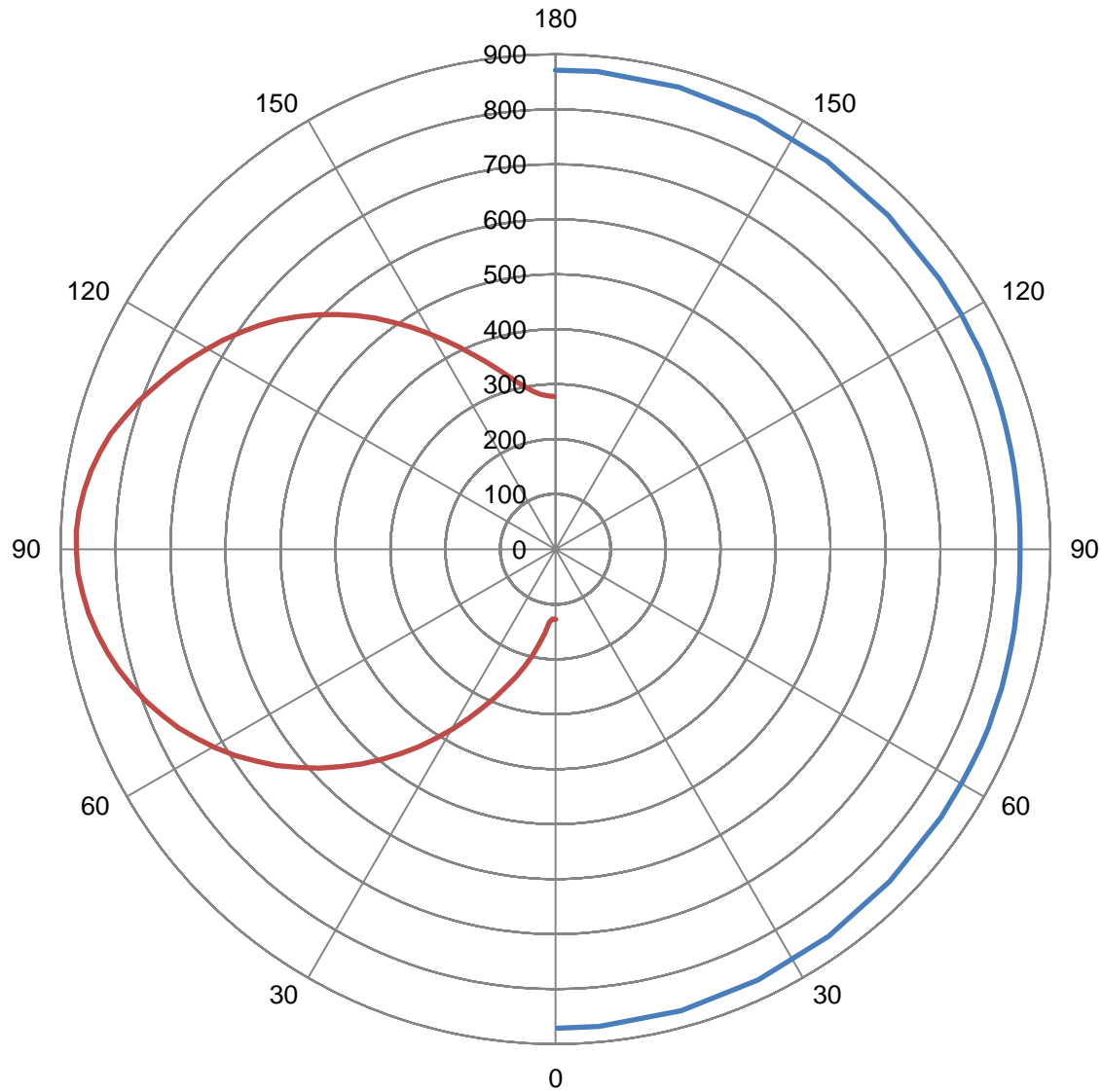
IES Roadway Classification: Type VS, Very Short	Total Lumen Output: 8289 Lumens
Cutoff Classification: Noncutoff	Luminaire Efficacy: 118.4 lm/w
BUG Rating: B2 U5 G3	Maximum Candela: 872 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

5 ° Lateral

Lateral Cone Through

92.5 ° Vertical

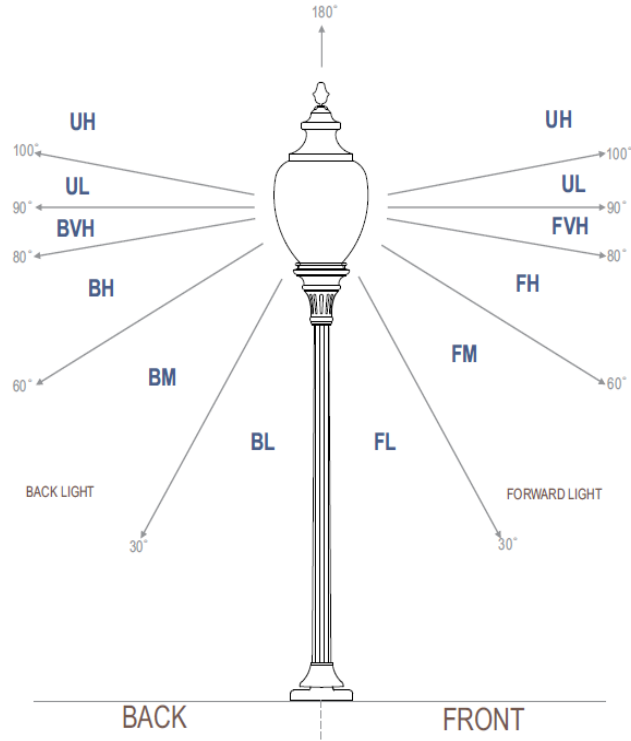
Maximum Intensity (Candlepower): 872 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	3.3	0.0%	60-65	352.7	4.3%	120-125	325.2	3.9%
5-10	11.2	0.1%	65-70	386.9	4.7%	125-130	288.9	3.5%
10-15	23.7	0.3%	70-75	416.7	5.0%	130-135	250.9	3.0%
15-20	40.1	0.5%	75-80	441.0	5.3%	135-140	212.6	2.6%
20-25	60.9	0.7%	80-85	458.5	5.5%	140-145	175.0	2.1%
25-30	87.2	1.1%	85-90	468.5	5.7%	145-150	139.7	1.7%
30-35	118.4	1.4%	90-95	469.7	5.7%	150-155	107.8	1.3%
35-40	154.0	1.9%	95-100	461.8	5.6%	155-160	80.1	1.0%
40-45	192.6	2.3%	100-105	445.6	5.4%	160-165	56.6	0.7%
45-50	233.0	2.8%	105-110	421.5	5.1%	165-170	37.1	0.4%
50-55	274.1	3.3%	110-115	391.8	4.7%	170-175	20.8	0.3%
55-60	314.6	3.8%	115-120	359.5	4.3%	175-180	7.1	0.1%



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



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	113.2	1.4%
FM	(30-60)	643.4	7.8%
FH	(60-80)	798.7	9.6%
FVH	(80-90)	463.5	5.6%
BL	(0-30)	113.2	1.4%
BM	(30-60)	643.4	7.8%
BH	(60-80)	798.7	9.6%
BVH	(80-90)	463.5	5.6%
UL	(90-100)	931.5	11.2%
UH	(100-180)	3320.2	40.1%
Total		8289.3	100.0%
BUG Rating	B2 U5 G3		

