



UL LLC
1075 W Lambert Rd Suite B
Brea, CA 92821

Outdoor Distribution Test Report

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

Prepared For
Express Imaging Systems LLC dba Evluma

Tara Holeman
3600 Lind Ave SW Suite 140
Renton, WA 98057
United States

Catalog Number
OLS-2-AA1-AC-8F-5

Order Number
13455531

Test Number
13455531.08A

Revision of Test# 13455531.08 on:

2020-09-03
Test Date

2020-08-14

Prepared By

Austin Duff, Technician

Approved By

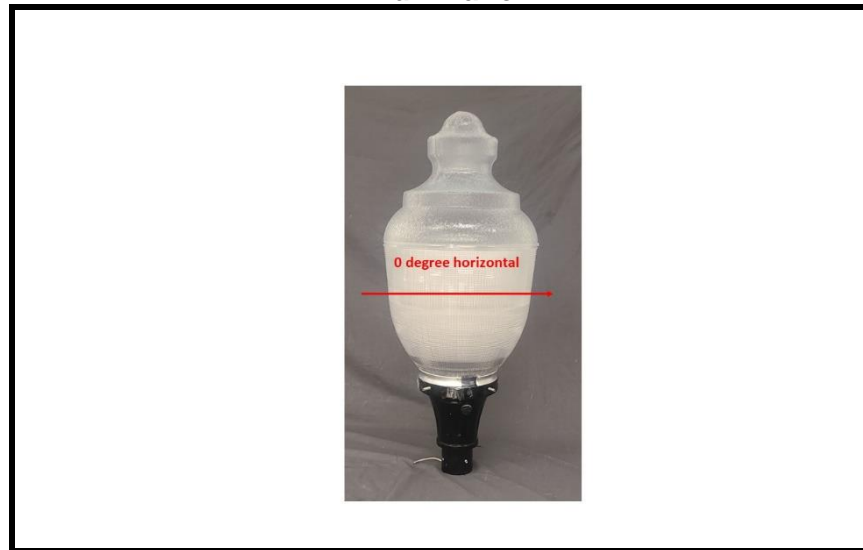
Eric Gaudreau, Engineering Leader

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: 12.00 in.

Summary of Results

Roadway Classification: Type VS, Very Short
Cutoff Classification: Noncutoff
BUG Rating: B2 U5 G5

Test Conditions

Test Temperature: 24.8 °C
Voltage: 120.1 VAC
Current: 0.5869 A
Power: 70.18 W
Power Factor: 0.996
Frequency: 60 Hz
Current THD: 7.50 %

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

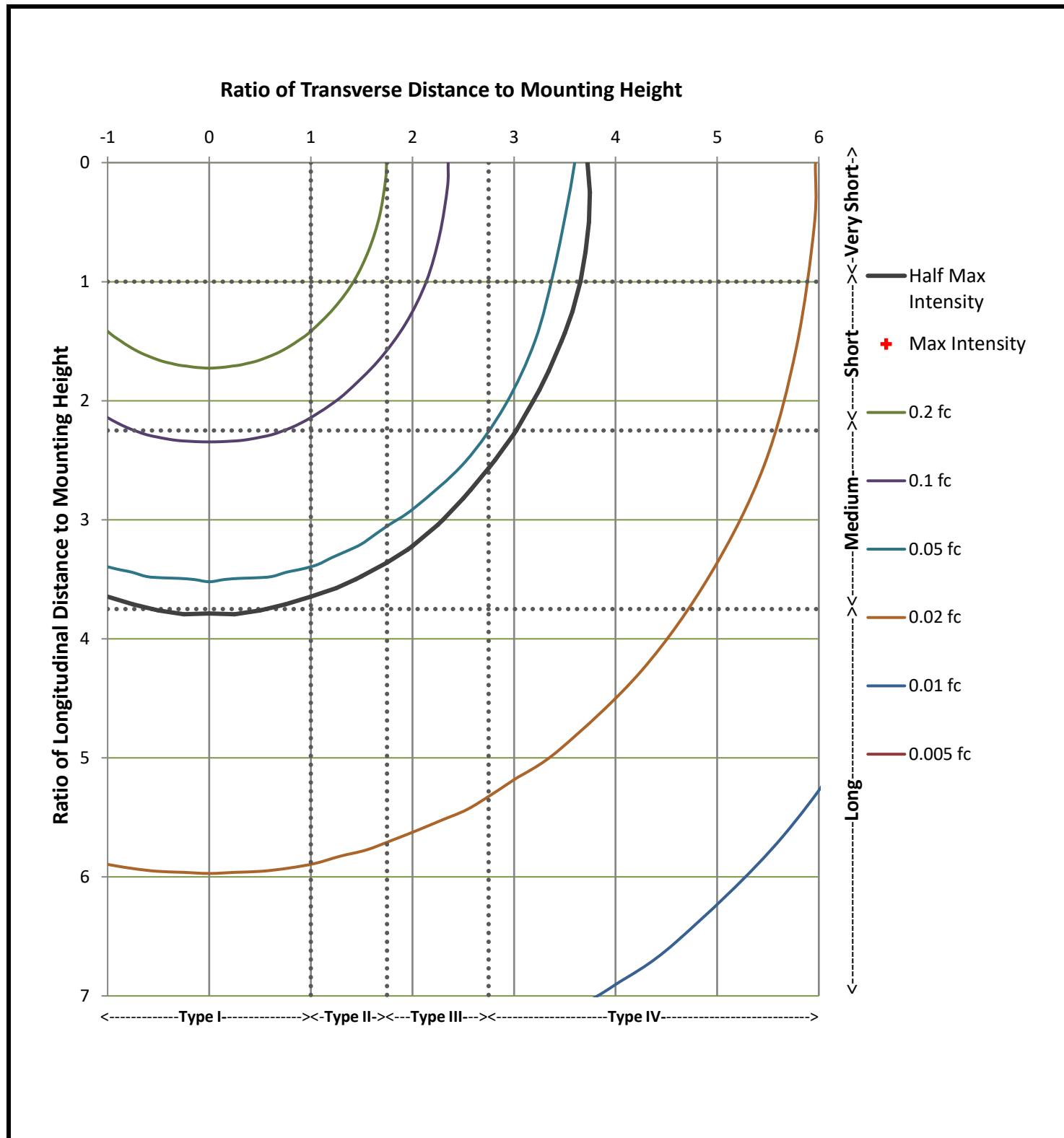
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.8 °C	120.1 VAC	0.5869 A	70.18 W	0.996	60 Hz	7.50 %

Summary of Results

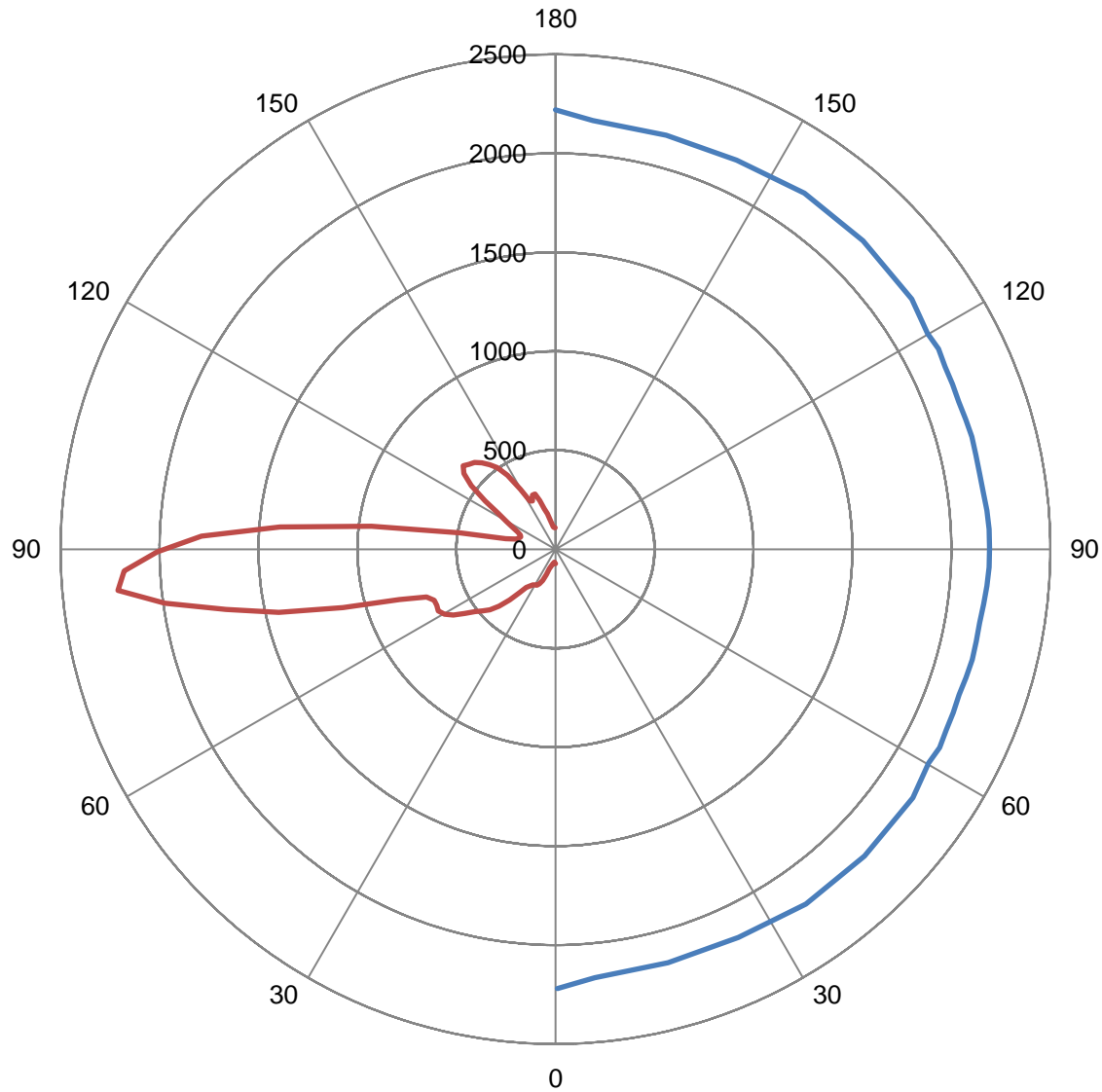
IES Roadway Classification: Type VS, Very Short	Total Lumen Output: 8534 Lumens
Cutoff Classification: Noncutoff	Luminaire Efficacy: 121.6 lm/w
BUG Rating: B2 U5 G5	Maximum Candela: 2220 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

0 ° Lateral

Lateral Cone Through

85 ° Vertical

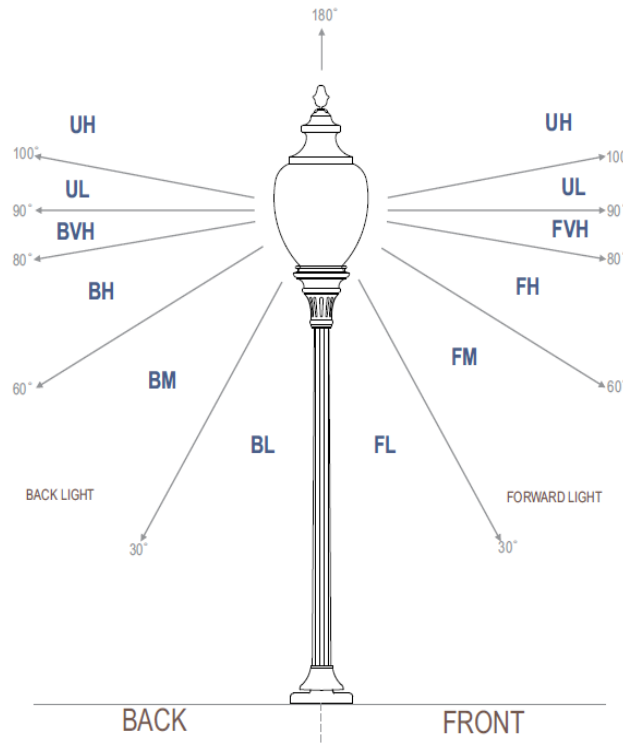
Maximum Intensity (Candlepower): 2220 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.8	0.0%	60-65	319.3	3.7%	120-125	157.7	1.8%
5-10	5.1	0.1%	65-70	342.3	4.0%	125-130	225.9	2.6%
10-15	9.8	0.1%	70-75	450.9	5.3%	130-135	249.2	2.9%
15-20	18.7	0.2%	75-80	754.2	8.8%	135-140	219.9	2.6%
20-25	35.8	0.4%	80-85	1069.1	12.5%	140-145	180.3	2.1%
25-30	51.5	0.6%	85-90	1173.2	13.7%	145-150	131.7	1.5%
30-35	64.8	0.8%	90-95	968.9	11.4%	150-155	75.9	0.9%
35-40	86.0	1.0%	95-100	512.9	6.0%	155-160	60.7	0.7%
40-45	129.7	1.5%	100-105	165.1	1.9%	160-165	43.7	0.5%
45-50	179.6	2.1%	105-110	102.1	1.2%	165-170	22.4	0.3%
50-55	222.2	2.6%	110-115	97.6	1.1%	170-175	9.8	0.1%
55-60	277.9	3.3%	115-120	115.6	1.4%	175-180	2.8	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)	61.4	0.7%
FM	(30-60)	480.1	5.6%
FH	(60-80)	933.4	10.9%
FVH	(80-90)	1121.2	13.1%
BL	(0-30)	61.4	0.7%
BM	(30-60)	480.1	5.6%
BH	(60-80)	933.4	10.9%
BVH	(80-90)	1121.2	13.1%
UL	(90-100)	1481.9	17.4%
UH	(100-180)	1860.5	21.8%
Total		8534.4	100.0%
BUG Rating	B2 U5 G5		

