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Outdoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002

Prepared For
Express Imaging Systems LLC dba Evluma

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United States

Catalog Number
AX-70-50-3-D-BRS

Order Number
12500748
Test Number
12500748.06

Test Date

2018-09-14

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: Gray metal housing, white plastic reflector and dome glass lens
Lamp: One (1) white LED with optic below
Mounting: Pole/Arm

Luminaire



Luminaire Characteristics

Luminous Diameter: 11.00 in.
Luminous Height: 1.25 in.

Summary of Results

Roadway Classification: Type III, Short
Cutoff Classification: Semicutoff
BUG Rating: B3 U3 G3

Test Conditions

Test Temperature: 24.6 °C
Voltage: 120.0 VAC
Current: 0.5778 A
Power: 69.18 W
Power Factor: 0.997
Frequency: 60 Hz
Current THD: 6.73 %

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

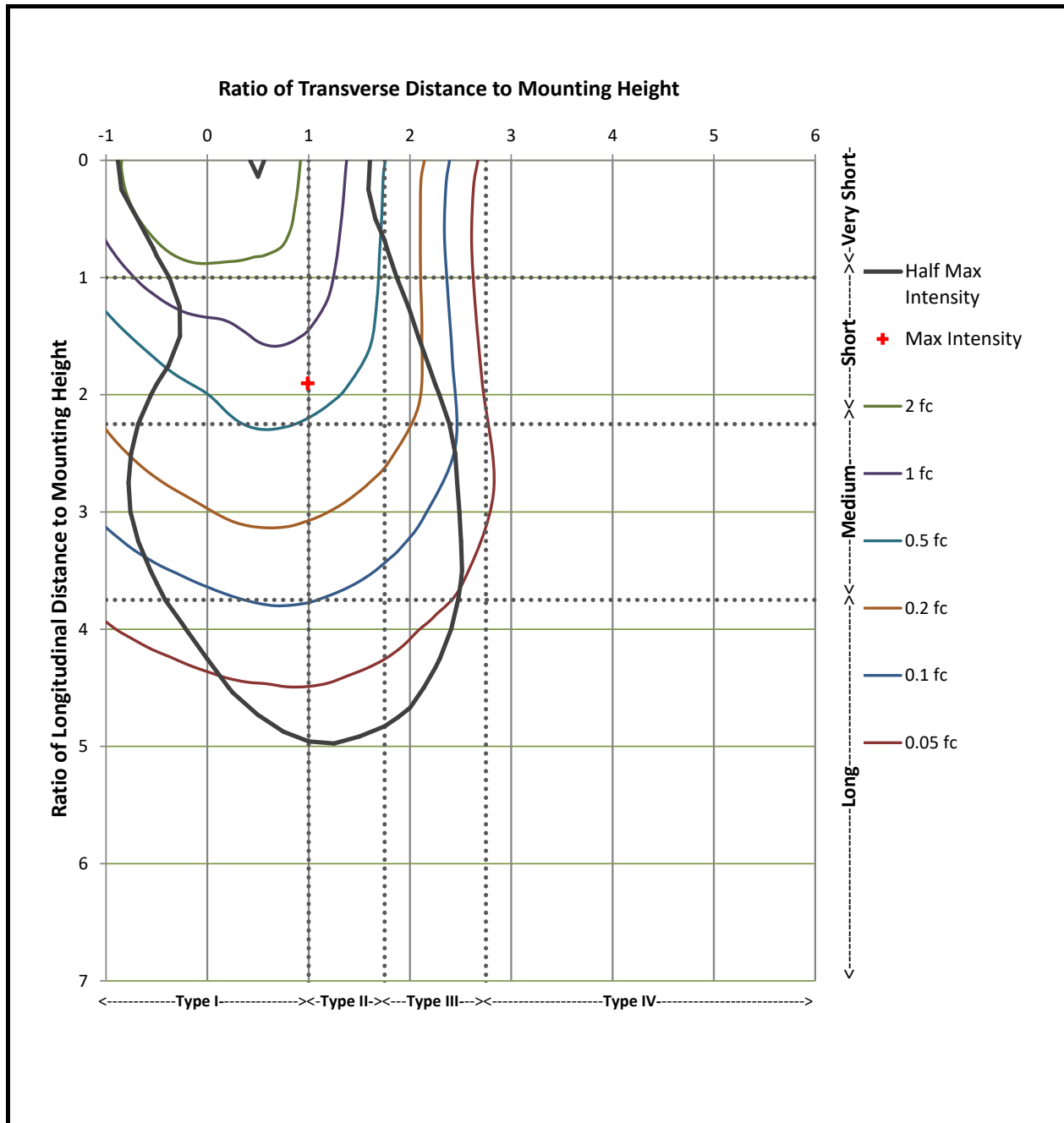
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.5778 A	69.18 W	0.997	60 Hz	6.73 %

Summary of Results

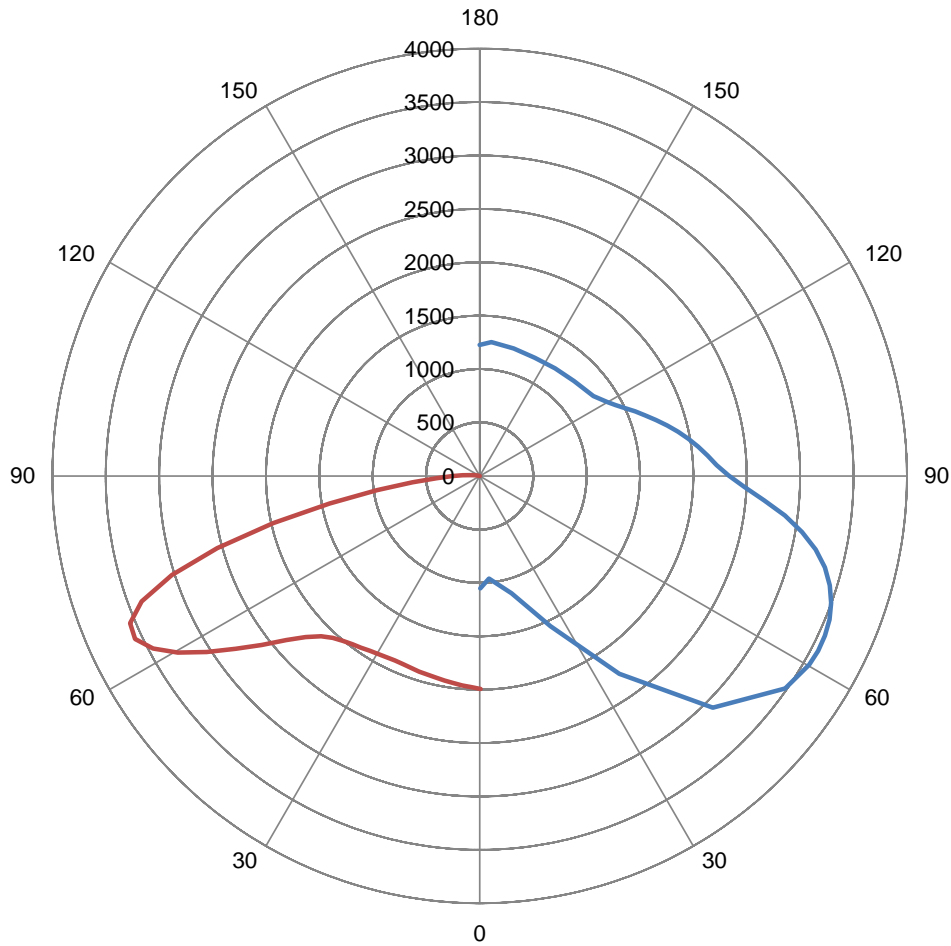
IES Roadway Classification:	Type III, Short	Total Lumen Output:	9595 Lumens
Cutoff Classification	Semicutoff	Luminaire Efficacy:	138.7 lm/w
BUG Rating:	B3 U3 G3	Maximum Candela:	3568 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

62.5 ° Lateral

Lateral Cone Through

65 ° Vertical

Maximum Intensity (Candlepower):

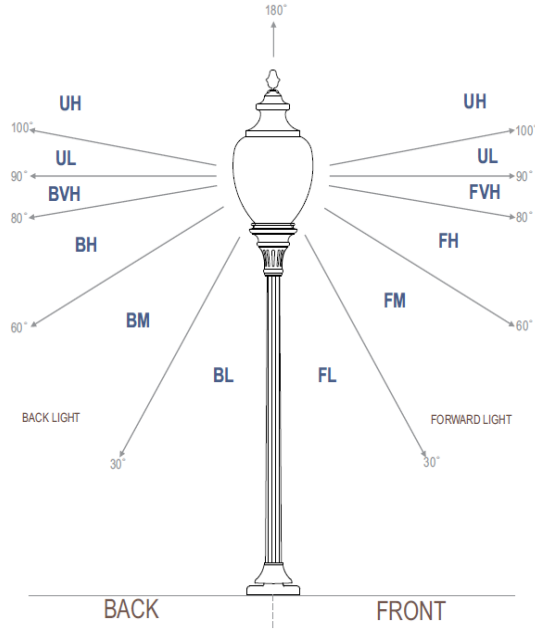
3568 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	50.6	0.5%	60-65	965.7	10.1%	120-125	0.1	0.0%
5-10	142.0	1.5%	65-70	918.4	9.6%	125-130	0.0	0.0%
10-15	234.3	2.4%	70-75	738.3	7.7%	130-135	0.0	0.0%
15-20	323.3	3.4%	75-80	471.5	4.9%	135-140	0.0	0.0%
20-25	407.1	4.2%	80-85	237.6	2.5%	140-145	0.0	0.0%
25-30	486.5	5.1%	85-90	102.3	1.1%	145-150	0.0	0.0%
30-35	564.1	5.9%	90-95	39.7	0.4%	150-155	0.0	0.0%
35-40	639.3	6.7%	95-100	12.5	0.1%	155-160	0.0	0.0%
40-45	712.7	7.4%	100-105	3.1	0.0%	160-165	0.0	0.0%
45-50	782.2	8.2%	105-110	0.5	0.0%	165-170	0.0	0.0%
50-55	847.0	8.8%	110-115	0.1	0.0%	170-175	0.0	0.0%
55-60	915.7	9.5%	115-120	0.1	0.0%	175-180	0.0	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)	791.8	8.3%
FM	(30-60)	2481.2	25.9%
FH	(60-80)	1909.8	19.9%
FVH	(80-90)	202.7	2.1%
BL	(0-30)	852.0	8.9%
BM	(30-60)	1979.8	20.6%
BH	(60-80)	1184.1	12.3%
BVH	(80-90)	137.2	1.4%
UL	(90-100)	52.1	0.5%
UH	(100-180)	4.0	0.0%
Total		9594.7	100.0%
BUG Rating	B3 U3 G3		