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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
OMNIMAX 70W 40K OM-LTS-U1(SHIELD) CF8-NP OLS-1-A1-LD-8F

Order Number

12851094

Test Number

12851094.01B

Revised Date:

2020-03-19

Test Date

2019-05-09

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: Patterened plastic lens and black metal base
Lamp: White LED array with shield attached
Lamp Catalog Number: OMNI-70-3K-ME
Mounting: Post
Ballast/Driver: Integrated

Luminaire



Luminaire Characteristics

Luminous Diameter: 17.00 in.
Luminous Height: 18.00 in.

Summary of Results

Roadway Classification: Type VS, Short
Cutoff Classification: Noncutoff
BUG Rating: B2 U4 G3

Test Conditions

Test Temperature: 24.5 °C
Voltage: 120.1 VAC
Current: 0.5986 A
Power: 71.05 W
Power Factor: 0.988
Frequency: 60 Hz
Current THD: 15.4 %

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

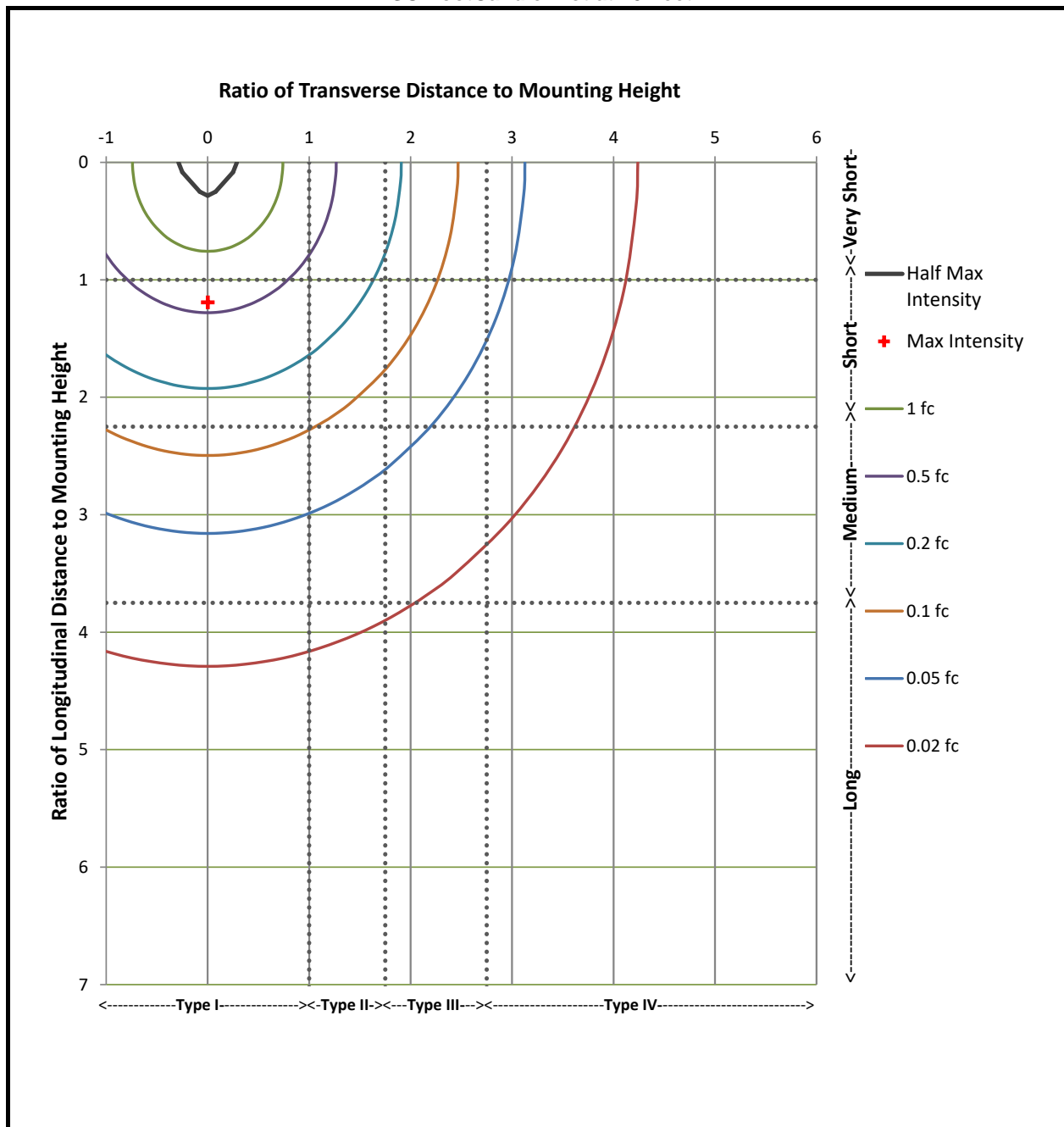
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	120.1 VAC	0.5986 A	71.05 W	0.988	60 Hz	15.4 %

Summary of Results

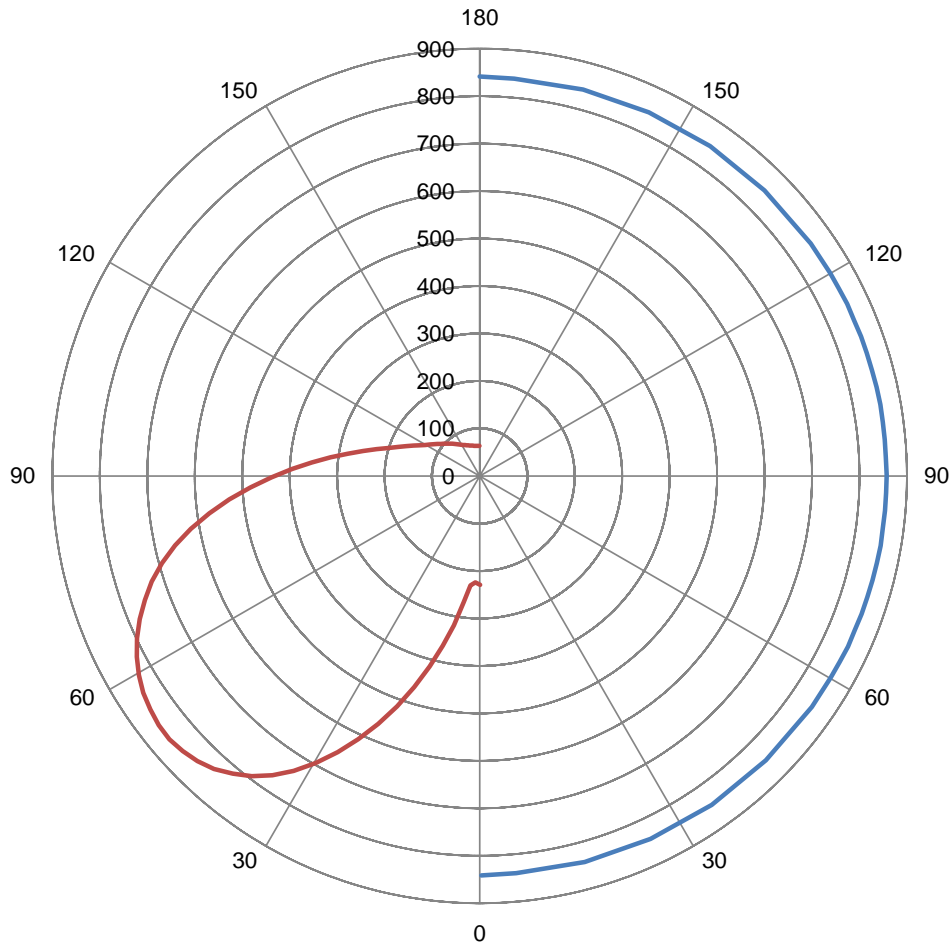
IES Roadway Classification:	Type VS, Short	Total Lumen Output:	5435 Lumens
Cutoff Classification	Noncutoff	Luminaire Efficacy:	76.5 lm/w
BUG Rating:	B2 U4 G3	Maximum Candela:	857 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

90 ° Lateral

Lateral Cone Through

50 ° Vertical

Maximum Intensity (Candlepower):

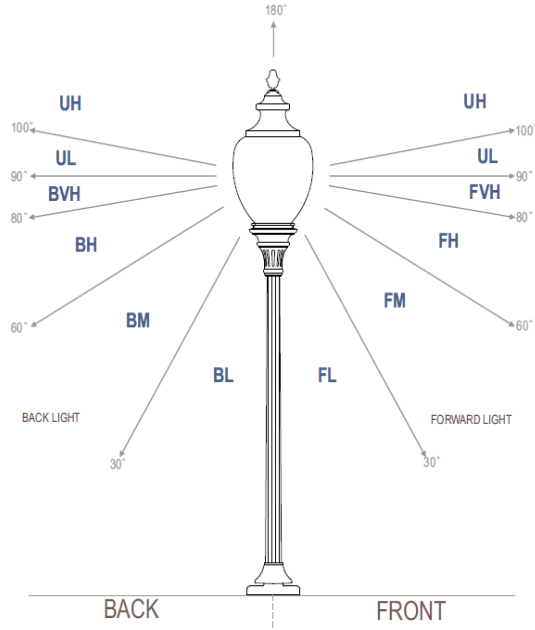
857 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	5.8	0.1%	60-65	392.2	7.2%	120-125	57.7	1.1%
5-10	20.0	0.4%	65-70	387.7	7.1%	125-130	48.6	0.9%
10-15	43.8	0.8%	70-75	371.8	6.8%	130-135	41.0	0.8%
15-20	76.9	1.4%	75-80	343.8	6.3%	135-140	34.5	0.6%
20-25	118.0	2.2%	80-85	304.6	5.6%	140-145	28.6	0.5%
25-30	165.0	3.0%	85-90	258.8	4.8%	145-150	23.4	0.4%
30-35	215.2	4.0%	90-95	212.7	3.9%	150-155	18.8	0.3%
35-40	262.9	4.8%	95-100	169.8	3.1%	155-160	14.8	0.3%
40-45	305.6	5.6%	100-105	133.5	2.5%	160-165	11.2	0.2%
45-50	341.6	6.3%	105-110	105.2	1.9%	165-170	7.8	0.1%
50-55	368.3	6.8%	110-115	84.4	1.6%	170-175	4.6	0.1%
55-60	385.3	7.1%	115-120	69.2	1.3%	175-180	1.6	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)	214.7	4.0%
FM	(30-60)	939.5	17.3%
FH	(60-80)	747.8	13.8%
FVH	(80-90)	281.7	5.2%
BL	(0-30)	214.7	4.0%
BM	(30-60)	939.5	17.3%
BH	(60-80)	747.8	13.8%
BVH	(80-90)	281.7	5.2%
UL	(90-100)	382.5	7.0%
UH	(100-180)	684.9	12.6%
Total		5434.9	100.0%
BUG Rating		B2 U4 G3	