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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
OMNIMAX 70W 4K CF8-NP OLS-1-A1-LD-8F

Order Number

12820891

Test Number

12820891.02A

Revised Date:

2020-02-26

Test Date

2019-04-25

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, inner reflector, and black metal base
Lamp: White LED array
Lamp Catalog Number: OMNI-70-4K-ME
Mounting: Post
Ballast/Driver: Intergraded

Luminaire



Luminaire Characteristics

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

Summary of Results

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

Test Conditions

Test Temperature: 24.2 °C
Voltage: 120.1 VAC
Current: 0.6059 A
Power: 71.75 W
Power Factor: 0.986
Frequency: 60 Hz
Current THD: 16.6 %

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

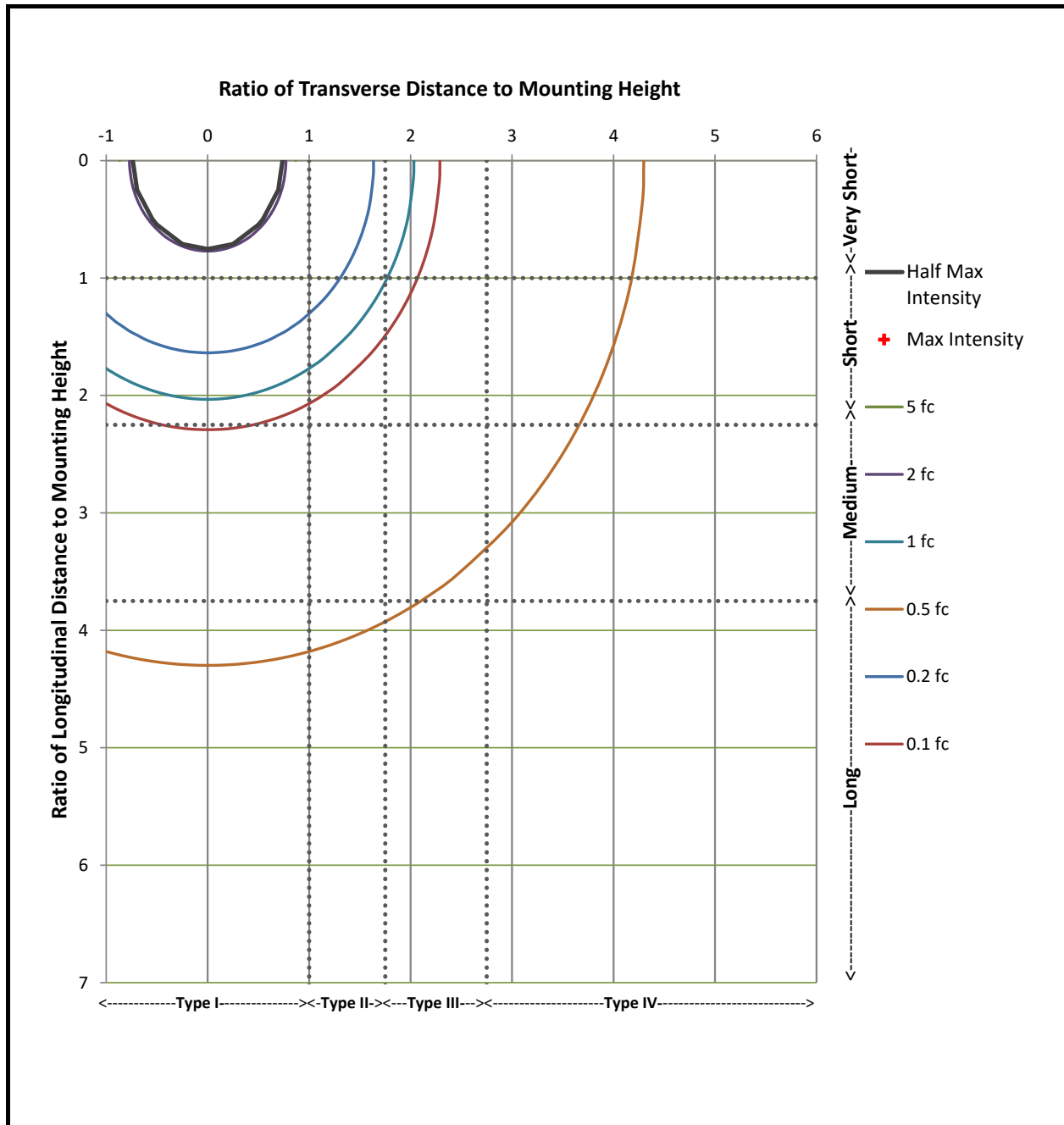
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.2 °C	120.1 VAC	0.6059 A	71.75 W	0.986	60 Hz	16.6 %

Summary of Results

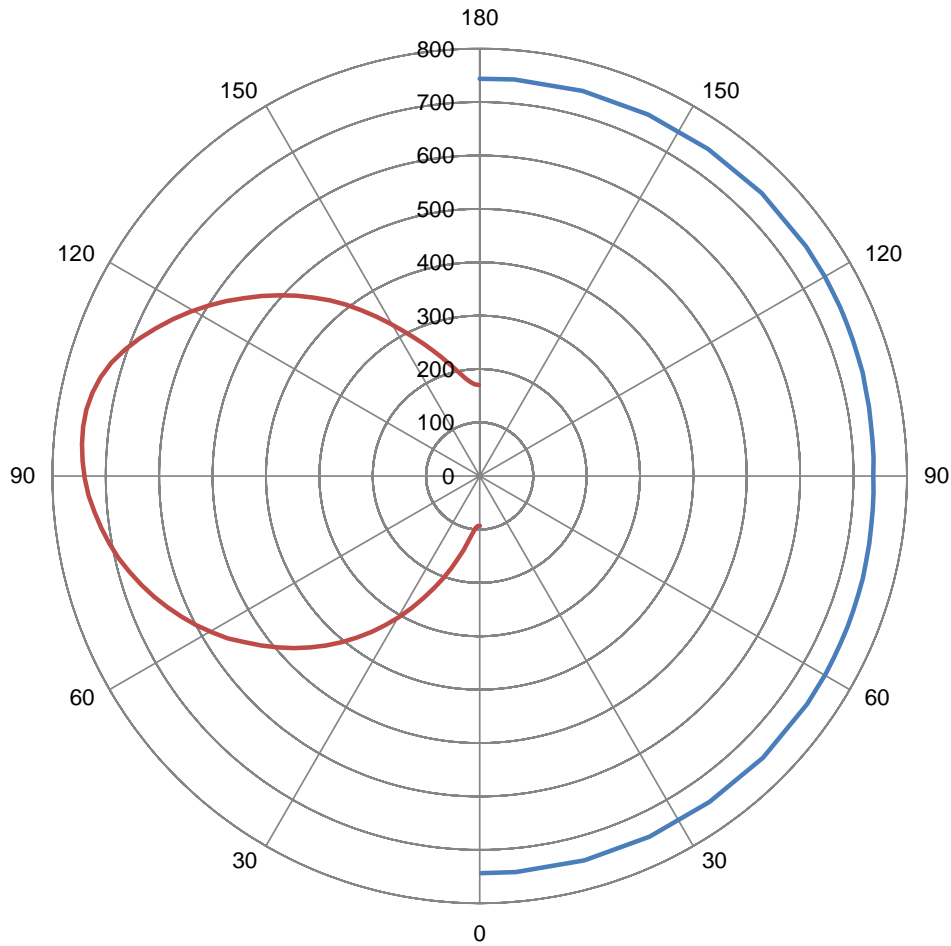
IES Roadway Classification: Type VS, Very Long	Total Lumen Output: 6925 Lumens
Cutoff Classification: Noncutoff	Luminaire Efficacy: 96.5 lm/w
BUG Rating: B2 U5 G3	Maximum Candela: 748 Candela

ISO FootCandle Plot at 20 Feet





Maximum Plane and Cone Plots of Candela



Vertical Plane Through

45 ° Lateral

Lateral Cone Through

97.5 ° Vertical

Maximum Intensity (Candlepower):

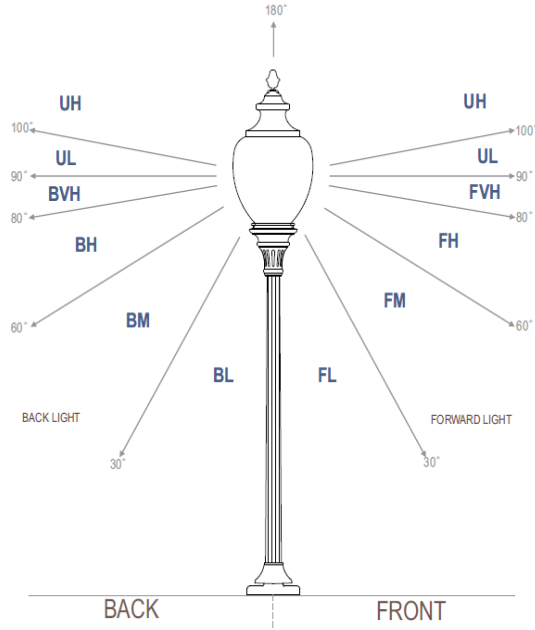
748 Candela

Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	2.4	0.0%	60-65	290.2	4.2%	120-125	276.2	4.0%
5-10	8.0	0.1%	65-70	320.0	4.6%	125-130	239.7	3.5%
10-15	17.1	0.2%	70-75	346.4	5.0%	130-135	203.6	2.9%
15-20	30.3	0.4%	75-80	368.9	5.3%	135-140	168.7	2.4%
20-25	48.0	0.7%	80-85	386.8	5.6%	140-145	135.4	2.0%
25-30	70.4	1.0%	85-90	399.5	5.8%	145-150	104.8	1.5%
30-35	97.0	1.4%	90-95	405.7	5.9%	150-155	78.2	1.1%
35-40	126.7	1.8%	95-100	404.4	5.8%	155-160	56.5	0.8%
40-45	158.3	2.3%	100-105	394.6	5.7%	160-165	38.9	0.6%
45-50	191.1	2.8%	105-110	374.7	5.4%	165-170	24.6	0.4%
50-55	224.5	3.2%	110-115	345.8	5.0%	170-175	13.3	0.2%
55-60	257.9	3.7%	115-120	312.2	4.5%	175-180	4.4	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)	88.1	1.3%
FM	(30-60)	527.7	7.6%
FH	(60-80)	662.8	9.6%
FVH	(80-90)	393.2	5.7%
BL	(0-30)	88.1	1.3%
BM	(30-60)	527.7	7.6%
BH	(60-80)	662.8	9.6%
BVH	(80-90)	393.2	5.7%
UL	(90-100)	810.1	11.7%
UH	(100-180)	2771.4	40.0%
Total		6925.1	100.0%
BUG Rating		B2 U5 G3	