

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P367677

Luminaire Tested: **MSA-SA3A-730-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3A-730-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS
EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11506 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

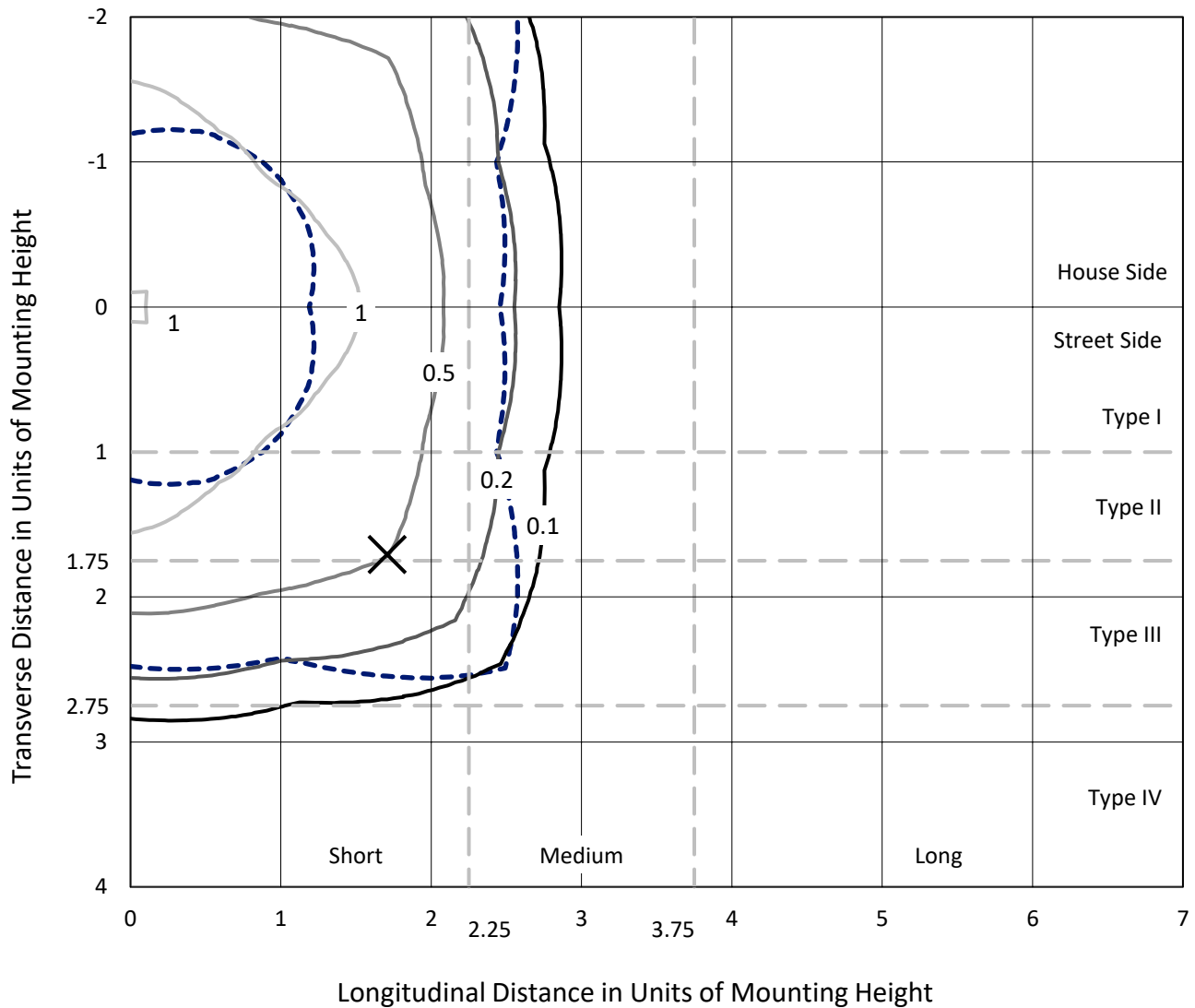


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

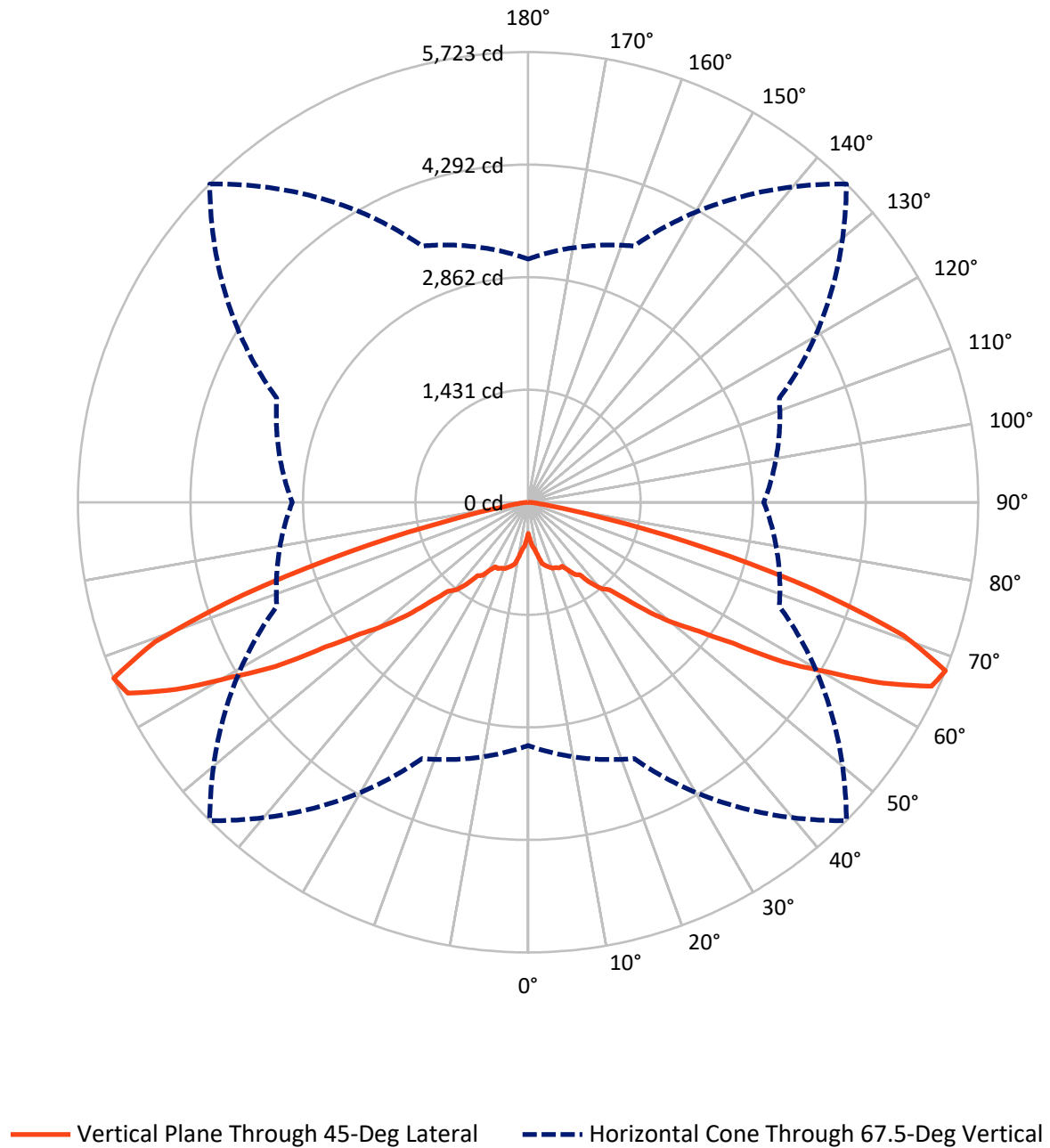


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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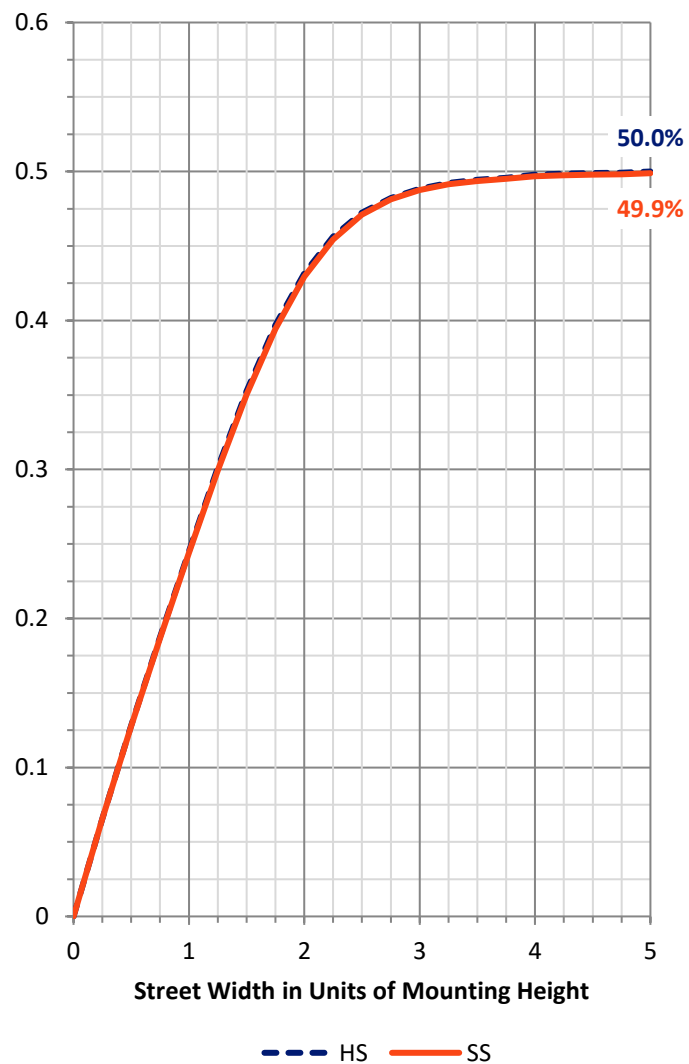
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5753.0	0.0	5753.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5753.0	0.0	5753.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11506.0	0.0	11506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	0.5
10°-20°	232.5	2.0
20°-30°	443.6	3.9
30°-40°	811.0	7.0
40°-50°	1572.4	13.7
50°-60°	3002.8	26.1
60°-70°	4057.1	35.3
70°-80°	1260.0	11.0
80°-90°	67.9	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11506.0	100.0
0°-180°	11506.0	100.0

Coefficient of Utilization



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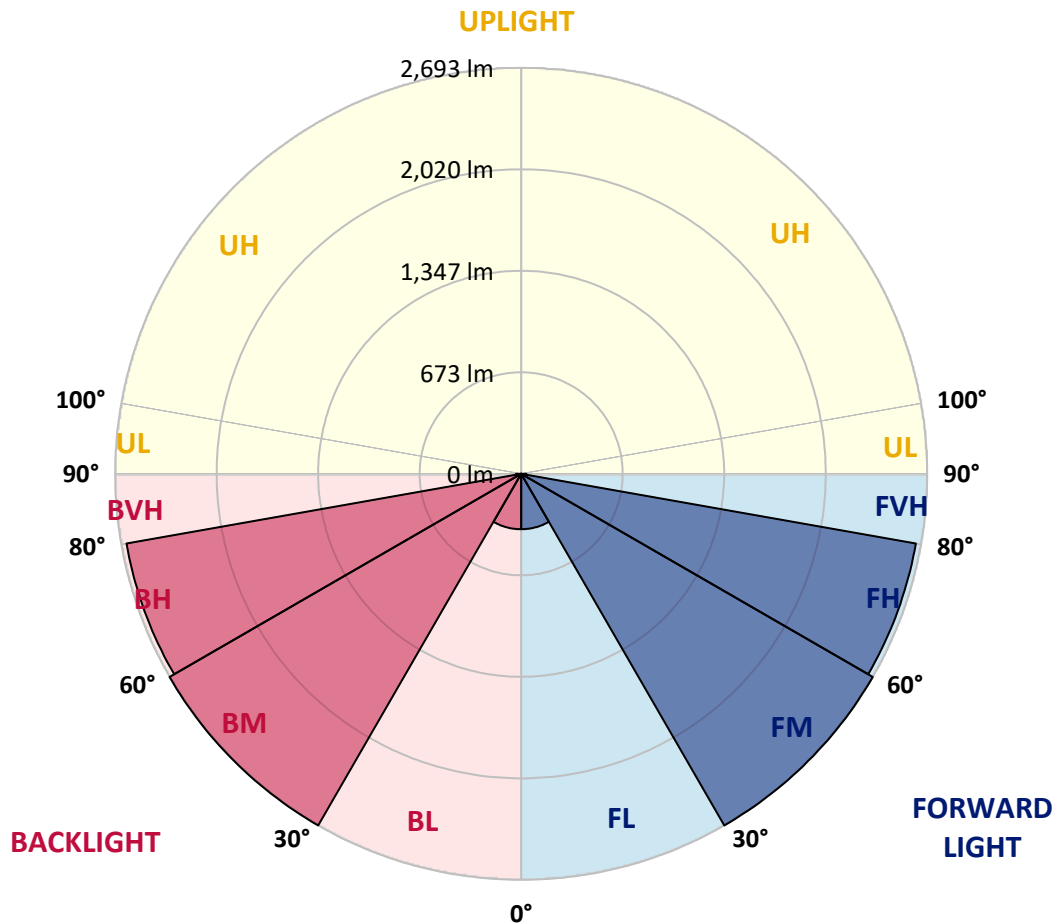
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.4	3.2			
FM	(30°-60°)	2693.1	23.4			
FH	(60°-80°)	2658.5	23.1			G2/5000
FVH	(80°-90°)	33.9	0.3			G1/100
BL	(0°-30°)	367.4	3.2	B1/500		
BM	(30°-60°)	2693.1	23.4	B3/5000		
BH	(60°-80°)	2658.5	23.1	B4/5000		G2/5000
BVH	(80°-90°)	33.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	394.3	394.3	394.3	394.3	394.3
2.5°	485.4	454.3	468.5	454.3	485.4
5°	617.0	584.5	556.1	576.5	618.8
7.5°	709.0	660.5	600.5	655.2	705.0
10°	724.6	697.4	694.8	694.3	722.8
12.5°	782.8	764.6	801.0	766.3	784.6
15°	828.1	817.9	834.3	830.8	829.9
17.5°	898.4	829.0	866.4	825.0	896.1
20°	929.5	831.2	893.9	826.3	929.0
22.5°	967.7	883.7	902.4	885.9	964.1
25°	989.5	917.5	924.1	918.4	989.9
27.5°	1078.8	992.2	921.0	1004.2	1095.3
30°	1146.8	1040.6	993.9	1041.9	1155.3
32.5°	1245.1	1113.1	1094.8	1130.8	1260.6
35°	1366.9	1234.9	1132.6	1235.3	1392.7
37.5°	1605.6	1345.5	1309.5	1384.7	1623.4
40°	1774.0	1520.2	1443.3	1548.2	1802.9
42.5°	2032.8	1716.3	1521.1	1730.5	2077.2
45°	2273.7	1954.1	1769.2	1970.5	2306.1
47.5°	2528.4	2172.3	2103.0	2192.8	2552.4
50°	2829.3	2467.9	2419.5	2491.0	2839.5
52.5°	3184.5	2863.5	2720.4	2876.9	3188.0
55°	3606.3	3195.6	3163.6	3232.0	3611.7
57.5°	4018.8	3625.9	3831.2	3629.9	3947.3
60°	4313.1	4022.4	4380.2	3920.2	4154.4
62.5°	4331.8	4316.2	5063.9	4142.9	4110.0
65°	3928.2	4197.5	5636.4	4062.0	3730.8
67.5°	3092.0	3526.3	5723.1	3457.9	2997.3
70°	1943.0	2441.7	5059.4	2535.5	1998.1
72.5°	896.1	1315.8	3809.9	1481.1	947.3
75°	320.9	503.6	2350.6	541.0	335.6
77.5°	182.2	204.0	1038.8	204.9	188.5
80°	117.4	127.1	300.0	134.2	114.2
82.5°	66.7	88.9	131.6	94.2	61.3
85°	36.0	56.5	58.2	57.8	36.0
87.5°	12.9	22.2	12.9	25.3	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)