

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: P367237

Luminaire Tested: **MSA-SA2A-830-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367237
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-SA2A-830-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6803 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

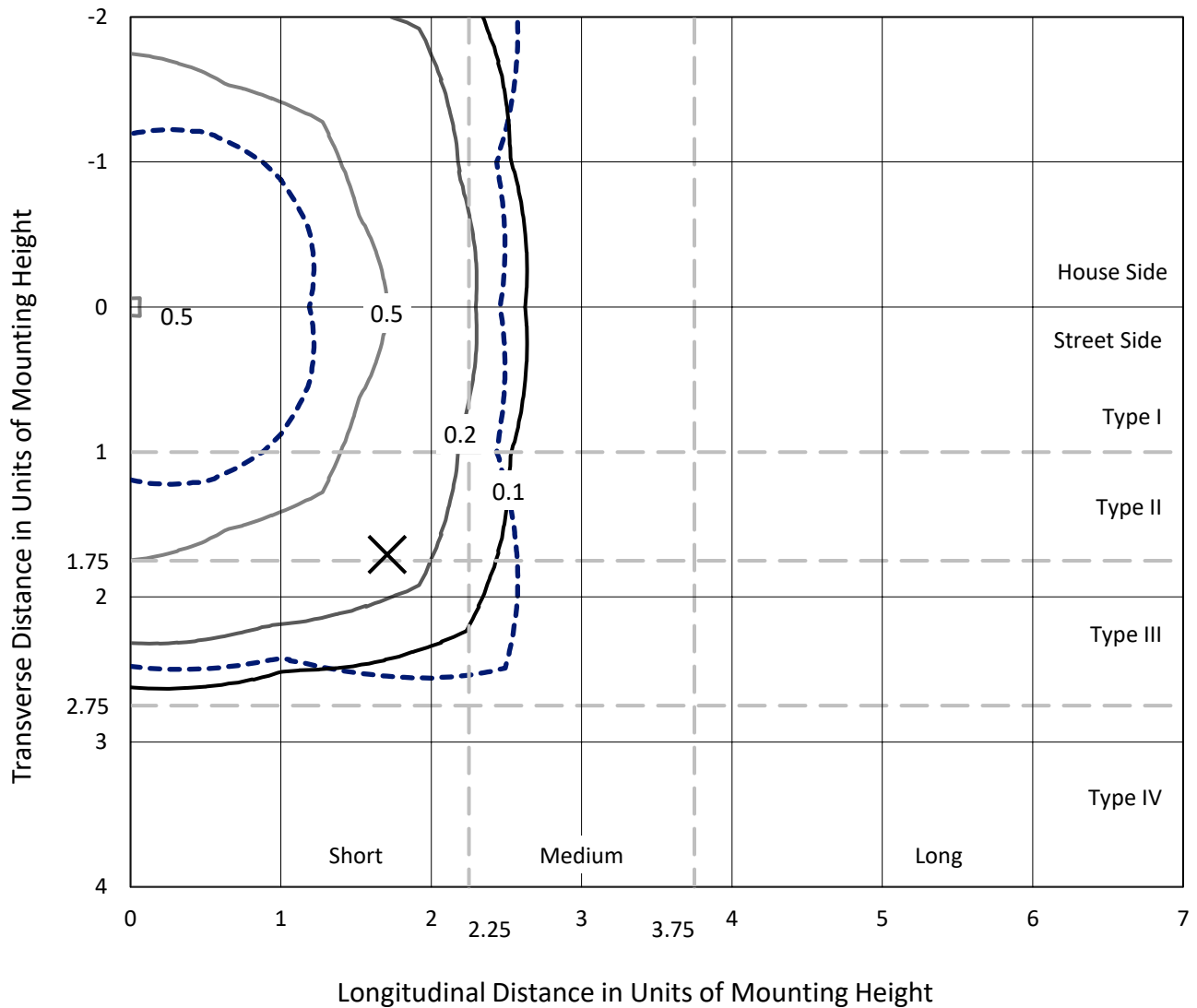
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

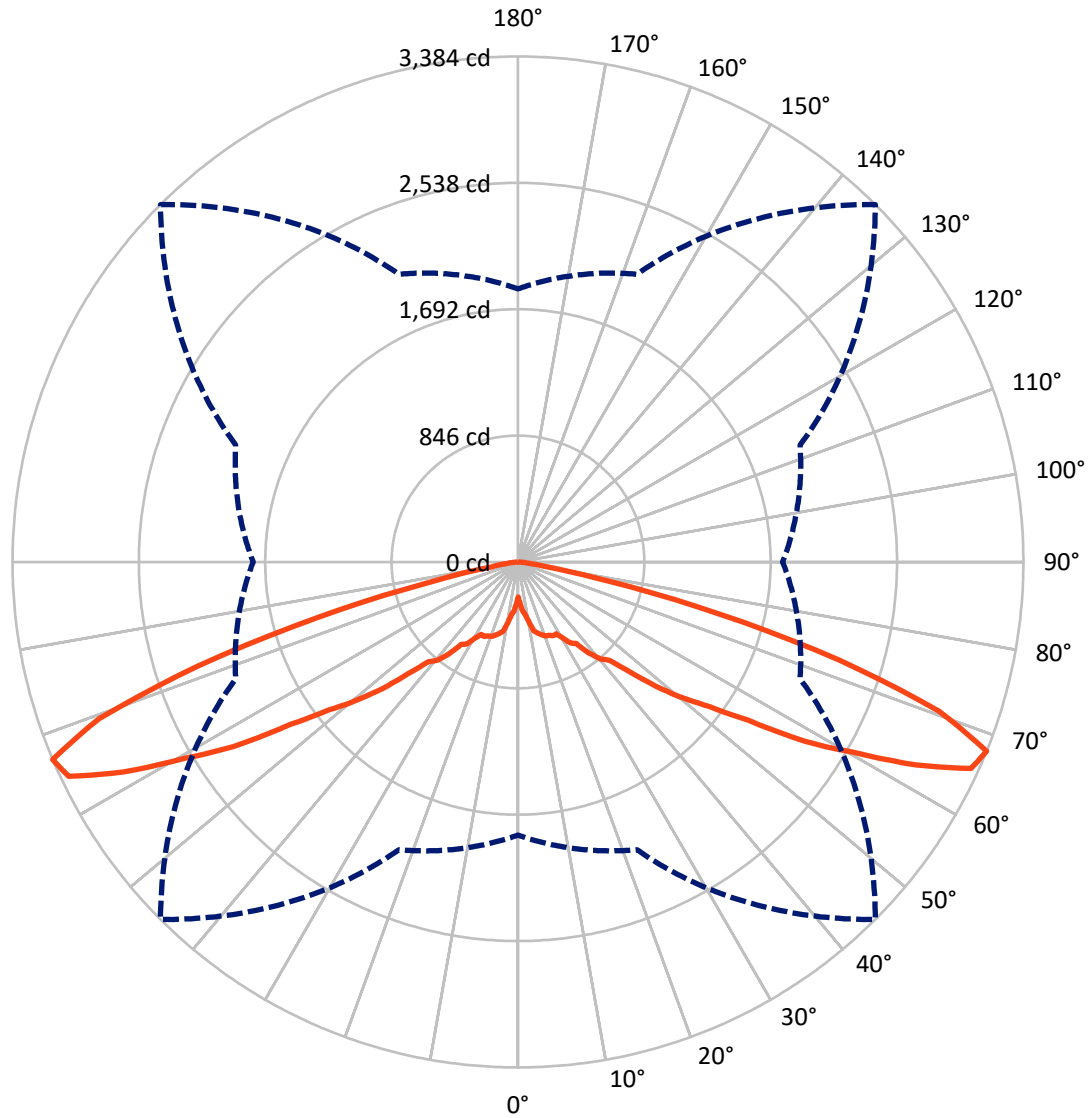
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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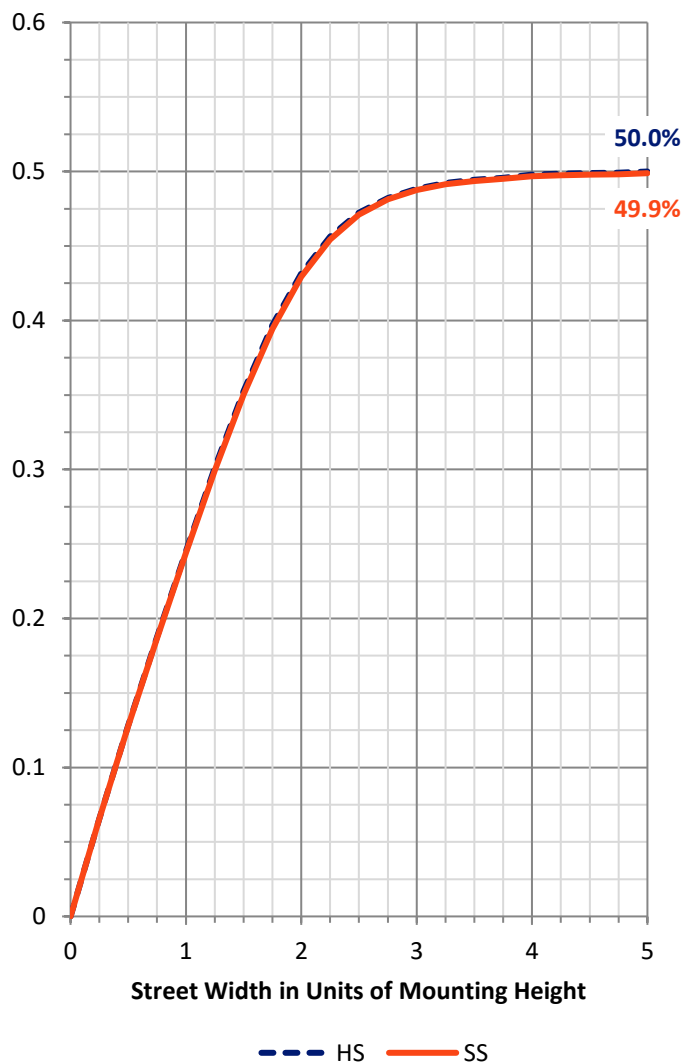
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3401.5	0.0	3401.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3401.5	0.0	3401.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6803.0	0.0	6803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	0.5
10°-20°	137.5	2.0
20°-30°	262.3	3.9
30°-40°	479.5	7.0
40°-50°	929.7	13.7
50°-60°	1775.4	26.1
60°-70°	2398.8	35.3
70°-80°	745.0	11.0
80°-90°	40.1	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°	6803.0	100.0
0°-180°	6803.0	100.0

Coefficient of Utilization



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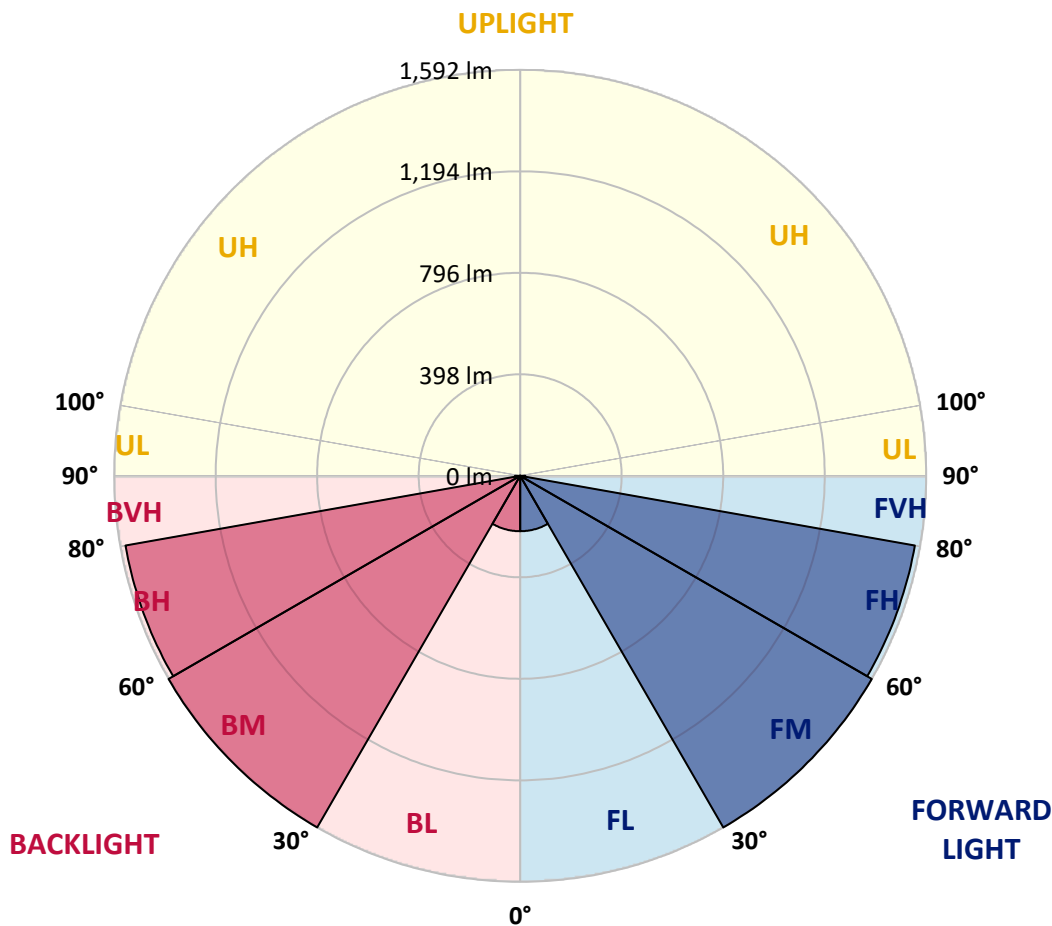
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	217.2	3.2			
FM (30°-60°)	1592.3	23.4			
FH (60°-80°)	1571.9	23.1			G1/1800
FVH (80°-90°)	20.1	0.3			G1/100
BL (0°-30°)	217.2	3.2	B1/500		
BM (30°-60°)	1592.3	23.4	B2/2500		
BH (60°-80°)	1571.9	23.1	B3/2500		G1/1800
BVH (80°-90°)	20.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	233.1	233.1	233.1	233.1	233.1
2.5°	287.0	268.6	277.0	268.6	287.0
5°	364.8	345.6	328.8	340.9	365.8
7.5°	419.2	390.6	355.1	387.4	416.8
10°	428.4	412.4	410.8	410.5	427.3
12.5°	462.8	452.1	473.6	453.1	463.9
15°	489.6	483.6	493.3	491.2	490.7
17.5°	531.2	490.2	512.2	487.8	529.8
20°	549.6	491.5	528.5	488.6	549.3
22.5°	572.2	522.5	533.5	523.8	570.1
25°	585.0	542.5	546.4	543.0	585.3
27.5°	637.9	586.6	544.6	593.7	647.6
30°	678.1	615.3	587.7	616.1	683.1
32.5°	736.2	658.1	647.3	668.6	745.4
35°	808.2	730.1	669.7	730.4	823.4
37.5°	949.3	795.6	774.3	818.7	959.8
40°	1048.9	898.8	853.4	915.4	1066.0
42.5°	1201.9	1014.8	899.4	1023.2	1228.2
45°	1344.3	1155.4	1046.0	1165.1	1363.5
47.5°	1494.9	1284.4	1243.4	1296.5	1509.1
50°	1672.9	1459.2	1430.5	1472.8	1678.9
52.5°	1882.8	1693.1	1608.5	1701.0	1885.0
55°	2132.3	1889.4	1870.5	1911.0	2135.4
57.5°	2376.2	2143.8	2265.3	2146.2	2333.8
60°	2550.1	2378.3	2589.8	2317.8	2456.3
62.5°	2561.2	2552.0	2994.1	2449.5	2430.0
65°	2322.5	2481.8	3332.6	2401.7	2205.9
67.5°	1828.2	2085.0	3383.8	2044.5	1772.2
70°	1148.8	1443.7	2991.4	1499.1	1181.4
72.5°	529.8	777.9	2252.6	875.7	560.1
75°	189.8	297.8	1389.8	319.9	198.4
77.5°	107.8	120.6	614.2	121.2	111.4
80°	69.4	75.2	177.4	79.4	67.5
82.5°	39.4	52.6	77.8	55.7	36.3
85°	21.3	33.4	34.4	34.2	21.3
87.5°	7.6	13.1	7.6	15.0	7.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)