

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: P368667

Luminaire Tested: **MSA-SA4D-760-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368667
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-SA4D-760-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28336 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

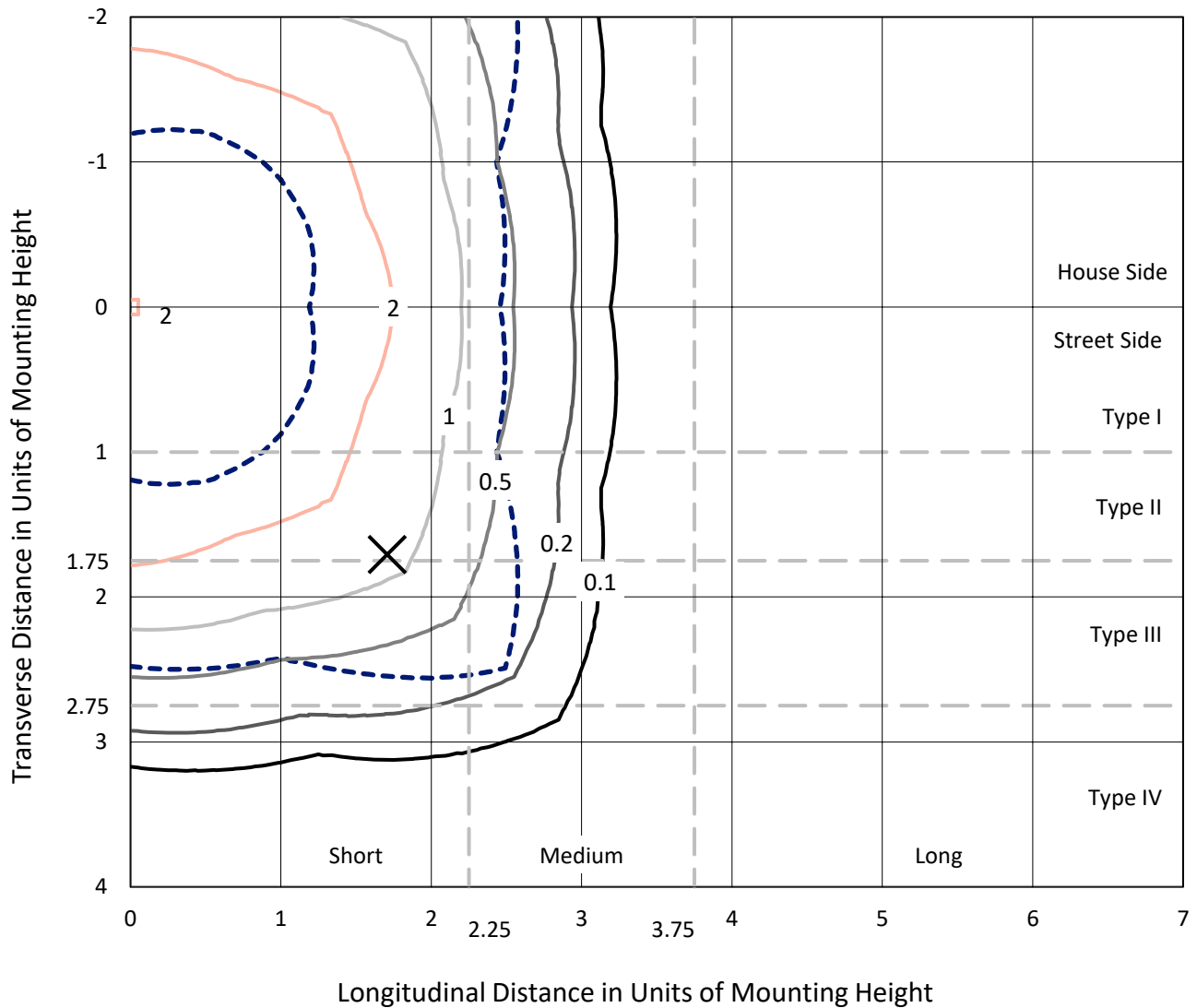
Input Watts (W): 259
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

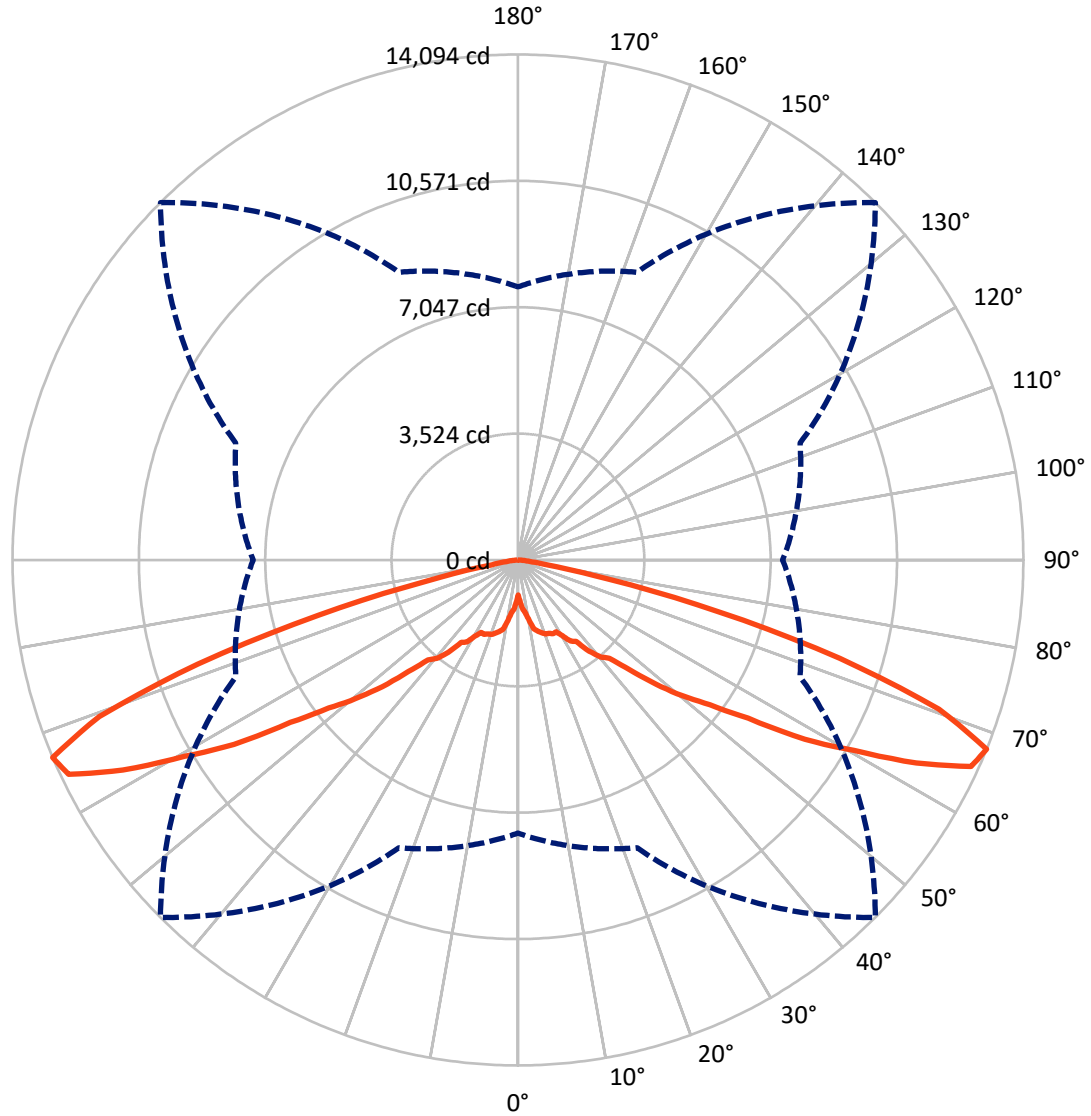
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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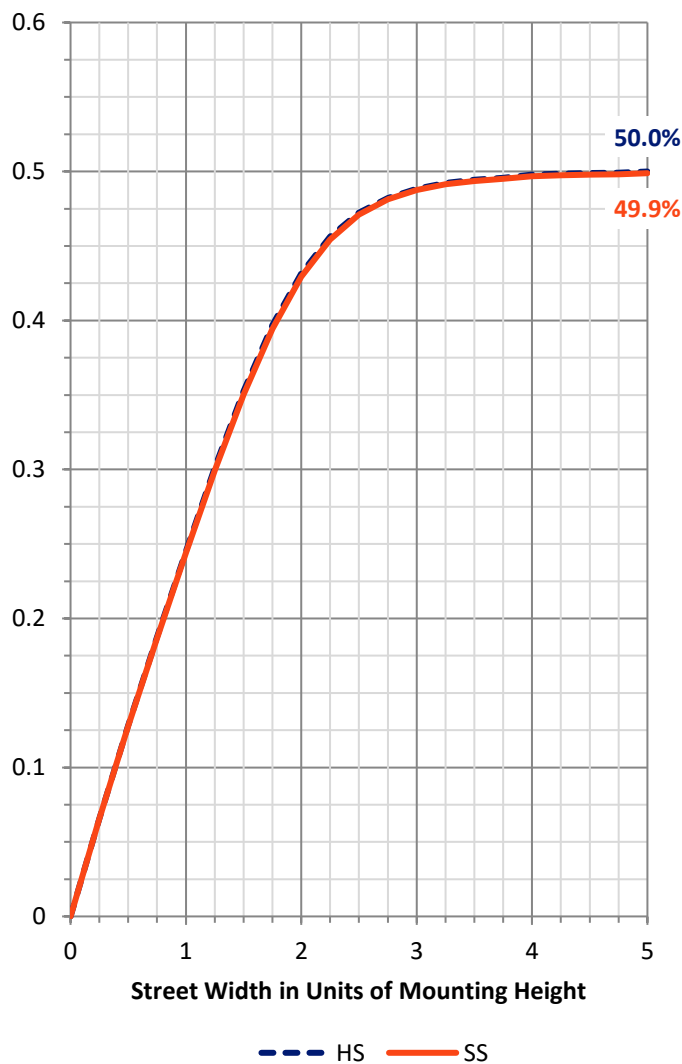
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14168.0	0.0	14168.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14168.0	0.0	14168.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28336.0	0.0	28336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	0.5
10°-20°	572.5	2.0
20°-30°	1092.4	3.9
30°-40°	1997.2	7.0
40°-50°	3872.4	13.7
50°-60°	7395.0	26.1
60°-70°	9991.4	35.3
70°-80°	3103.0	11.0
80°-90°	167.2	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°	28336.0	100.0
0°-180°	28336.0	100.0

Coefficient of Utilization



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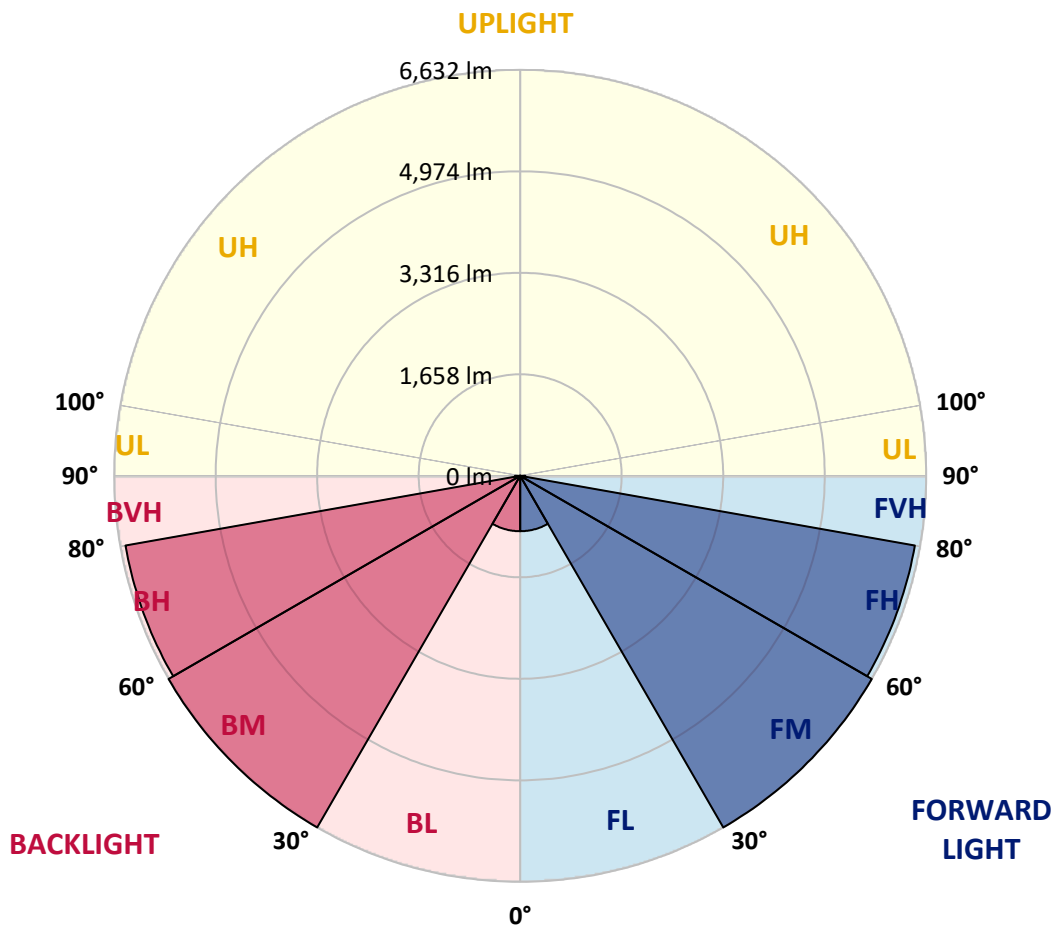
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	904.9	3.2			
FM (30°-60°)	6632.3	23.4			
FH (60°-80°)	6547.2	23.1			G3/7500
FVH (80°-90°)	83.6	0.3			G1/100
BL (0°-30°)	904.9	3.2	B2/1000		
BM (30°-60°)	6632.3	23.4	B4/8500		
BH (60°-80°)	6547.2	23.1	B5		G3/7500
BVH (80°-90°)	83.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.0	971.0	971.0	971.0	971.0
2.5°	1195.4	1118.8	1153.8	1118.8	1195.4
5°	1519.5	1439.5	1369.5	1419.8	1523.8
7.5°	1746.1	1626.7	1478.9	1613.6	1736.2
10°	1784.4	1717.6	1711.0	1709.9	1780.0
12.5°	1927.8	1882.9	1972.7	1887.3	1932.2
15°	2039.4	2014.3	2054.8	2046.0	2043.8
17.5°	2212.4	2041.6	2133.6	2031.8	2206.9
20°	2289.0	2047.1	2201.5	2035.1	2287.9
22.5°	2383.2	2176.3	2222.3	2181.8	2374.4
25°	2436.8	2259.5	2275.9	2261.7	2437.9
27.5°	2656.9	2443.4	2268.2	2472.9	2697.4
30°	2824.3	2562.7	2447.8	2566.0	2845.1
32.5°	3066.3	2741.1	2696.3	2784.9	3104.6
35°	3366.2	3041.1	2789.3	3042.2	3429.7
37.5°	3954.1	3313.7	3225.0	3410.0	3997.9
40°	4369.0	3743.9	3554.5	3812.9	4440.1
42.5°	5006.1	4226.7	3746.1	4261.7	5115.6
45°	5599.4	4812.3	4356.9	4852.8	5679.3
47.5°	6226.7	5349.8	5179.1	5400.2	6285.8
50°	6967.8	6077.8	5958.5	6134.7	6993.0
52.5°	7842.5	7052.1	6699.6	7084.9	7851.2
55°	8881.4	7869.8	7791.0	7959.6	8894.5
57.5°	9897.2	8929.5	9435.3	8939.4	9721.0
60°	10621.9	9906.0	10787.2	9654.2	10231.1
62.5°	10667.9	10629.6	12470.9	10202.7	10121.7
65°	9673.9	10337.3	13880.9	10003.4	9187.9
67.5°	7614.8	8684.3	14094.3	8515.7	7381.6
70°	4785.0	6013.2	12460.0	6244.2	4920.7
72.5°	2206.9	3240.3	9382.7	3647.6	2332.8
75°	790.4	1240.3	5788.8	1332.3	826.5
77.5°	448.8	502.5	2558.3	504.7	464.2
80°	289.0	313.1	738.9	330.6	281.3
82.5°	164.2	218.9	324.0	232.1	151.1
85°	88.7	139.0	143.4	142.3	88.7
87.5°	31.7	54.7	31.7	62.4	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)