

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: P366687

Luminaire Tested: **MSA-SA1A-760-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366687  
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-SA1A-760-U-5MQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4353 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

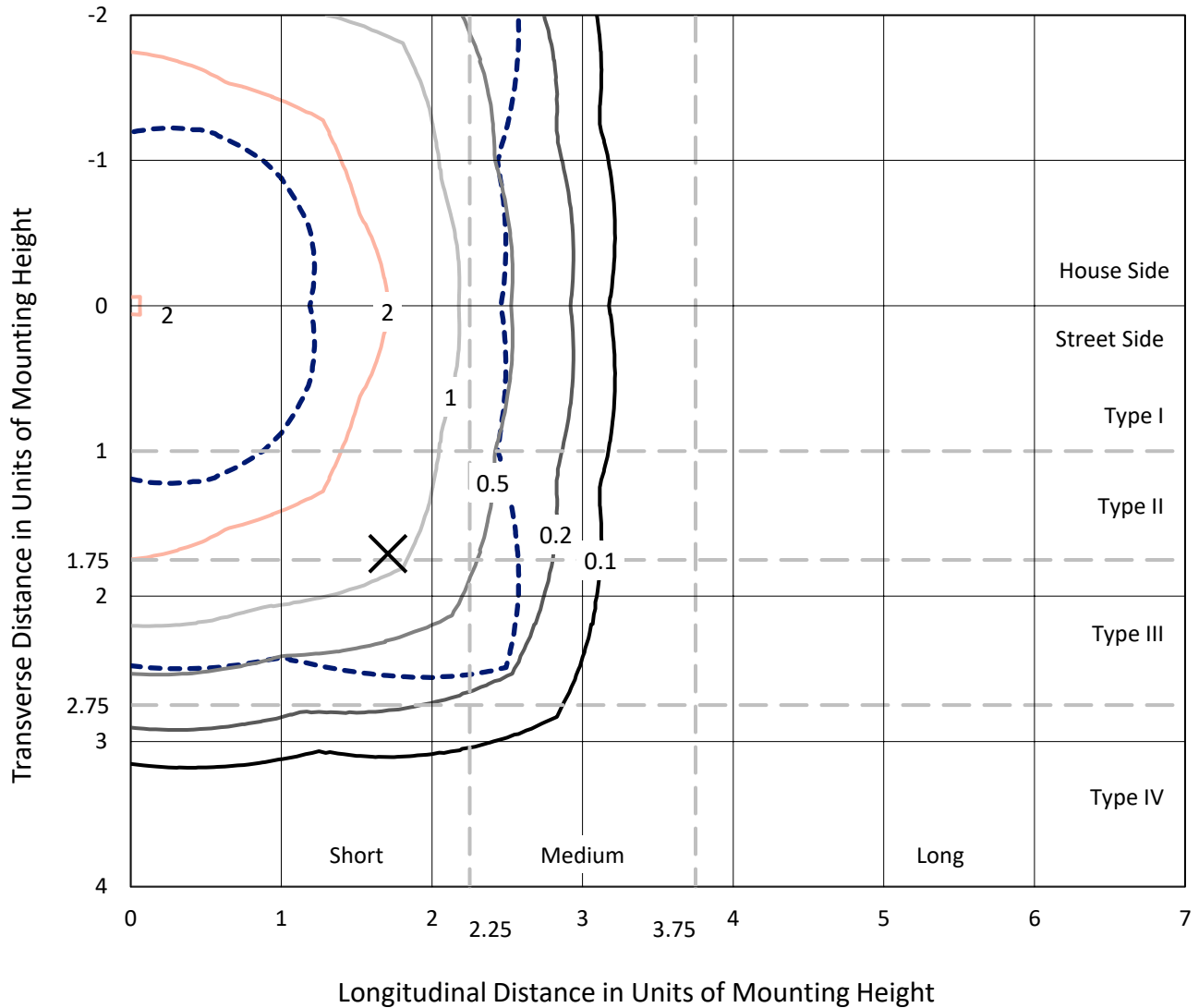
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

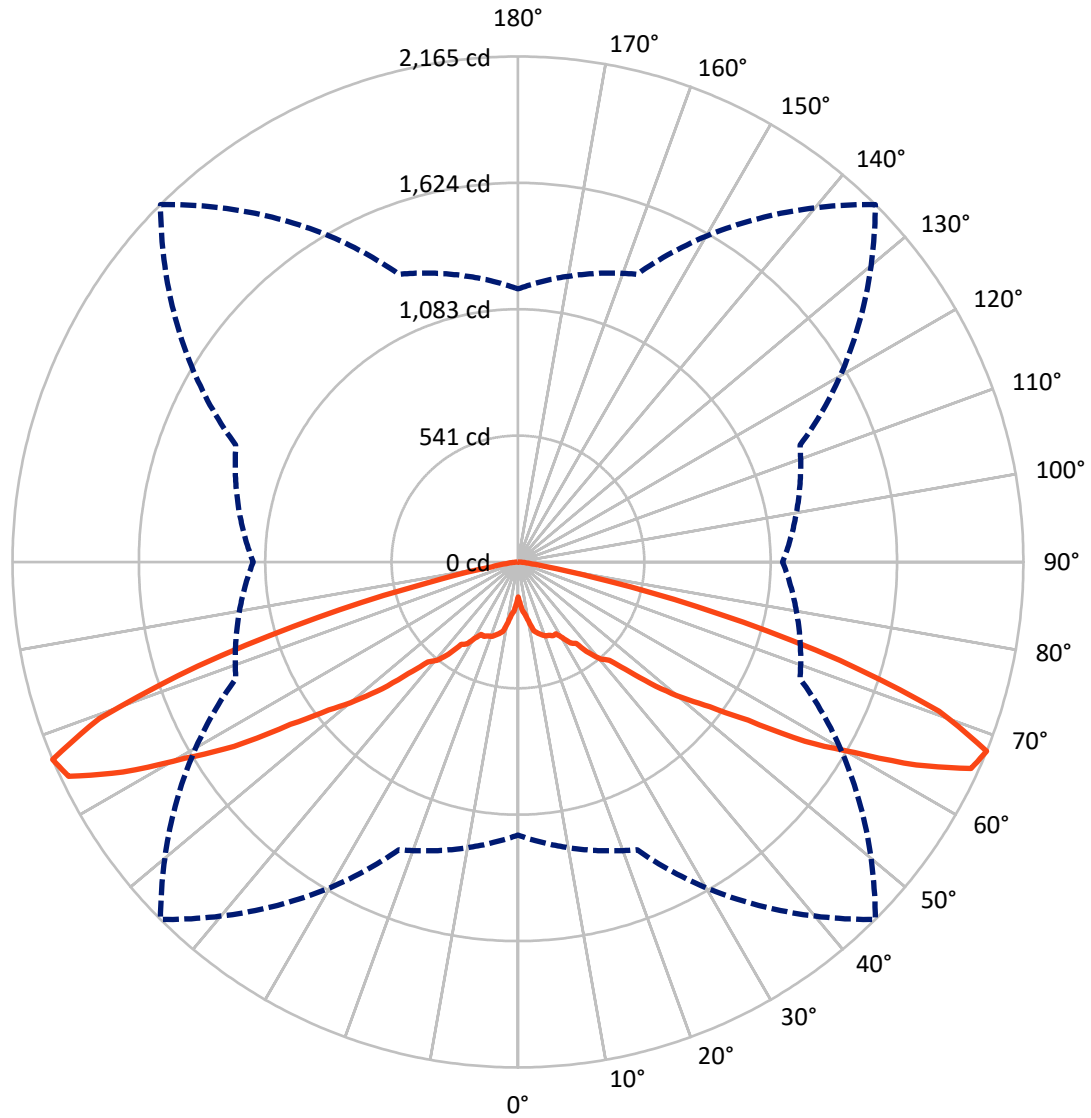
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 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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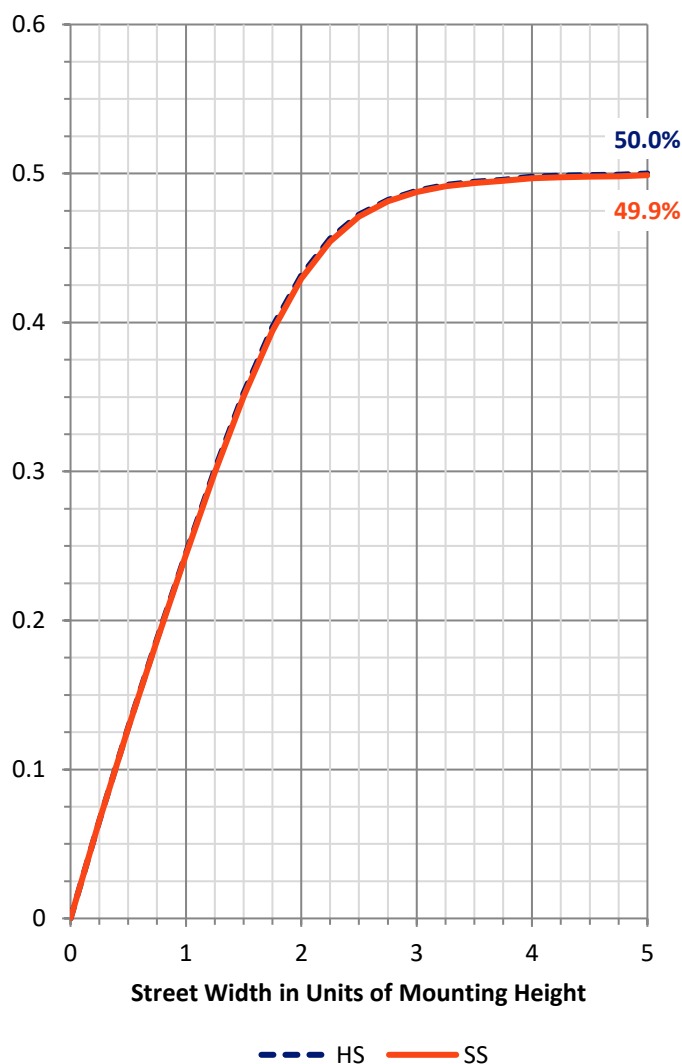
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2176.5	0.0	2176.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2176.5	0.0	2176.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4353.0	0.0	4353.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.2	0.5
10°-20°	88.0	2.0
20°-30°	167.8	3.9
30°-40°	306.8	7.0
40°-50°	594.9	13.7
50°-60°	1136.0	26.1
60°-70°	1534.9	35.3
70°-80°	476.7	11.0
80°-90°	25.7	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°	4353.0	100.0
0°-180°	4353.0	100.0

**Coefficient of Utilization**



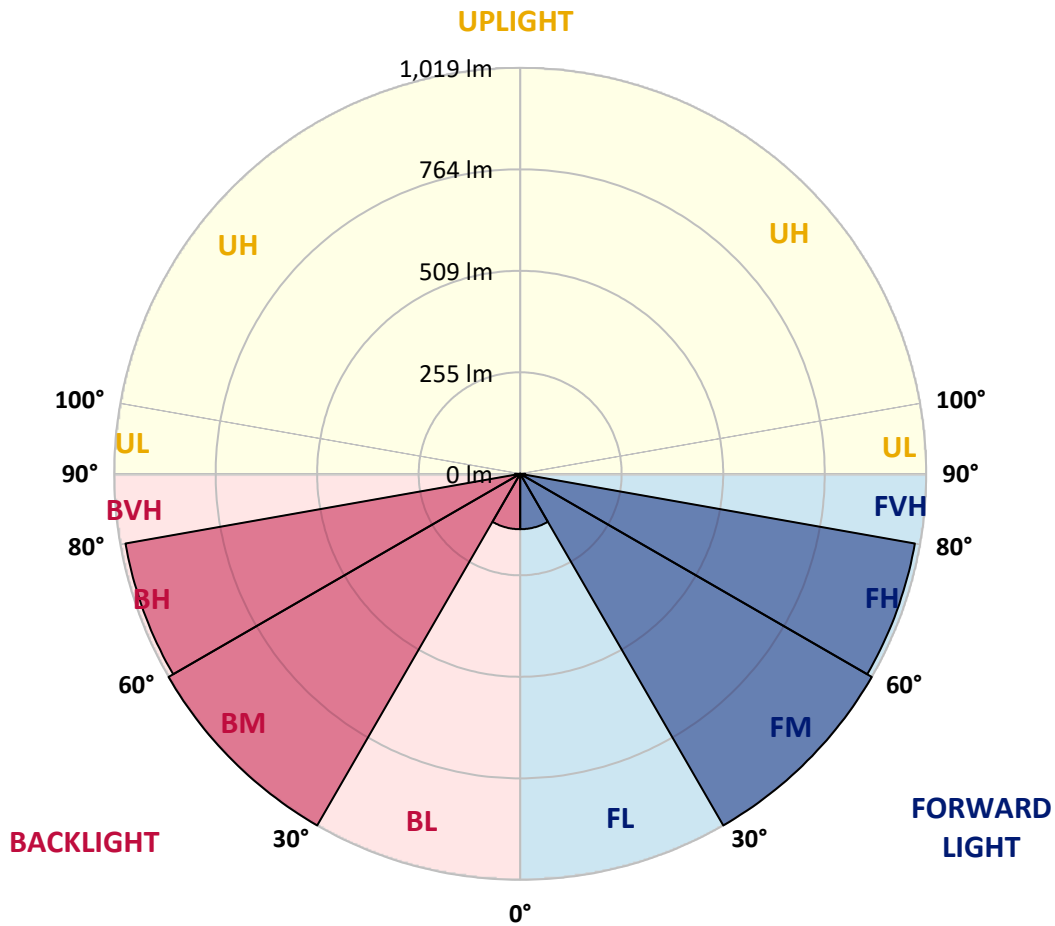
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	139.0	3.2			
FM (30°-60°)	1018.9	23.4			
FH (60°-80°)	1005.8	23.1			G1/1800
FVH (80°-90°)	12.8	0.3			G1/100
BL (0°-30°)	139.0	3.2	B1/500		
BM (30°-60°)	1018.9	23.4	B2/2500		
BH (60°-80°)	1005.8	23.1	B3/2500		G1/1800
BVH (80°-90°)	12.8	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°	149.2	149.2	149.2	149.2	149.2
2.5°	183.6	171.9	177.3	171.9	183.6
5°	233.4	221.1	210.4	218.1	234.1
7.5°	268.2	249.9	227.2	247.9	266.7
10°	274.1	263.9	262.8	262.7	273.4
12.5°	296.1	289.3	303.0	289.9	296.8
15°	313.3	309.4	315.7	314.3	314.0
17.5°	339.9	313.6	327.8	312.1	339.0
20°	351.6	314.5	338.2	312.6	351.5
22.5°	366.1	334.3	341.4	335.2	364.8
25°	374.3	347.1	349.6	347.4	374.5
27.5°	408.1	375.4	348.4	379.9	414.4
30°	433.9	393.7	376.0	394.2	437.1
32.5°	471.0	421.1	414.2	427.8	476.9
35°	517.1	467.2	428.5	467.3	526.9
37.5°	607.4	509.0	495.4	523.8	614.2
40°	671.2	575.1	546.0	585.7	682.1
42.5°	769.0	649.3	575.5	654.7	785.9
45°	860.2	739.3	669.3	745.5	872.5
47.5°	956.5	821.8	795.6	829.6	965.6
50°	1070.4	933.7	915.3	942.4	1074.3
52.5°	1204.8	1083.3	1029.2	1088.4	1206.1
55°	1364.4	1209.0	1196.9	1222.8	1366.4
57.5°	1520.4	1371.8	1449.5	1373.3	1493.3
60°	1631.8	1521.8	1657.1	1483.1	1571.7
62.5°	1638.8	1632.9	1915.8	1567.3	1554.9
65°	1486.1	1588.0	2132.4	1536.7	1411.4
67.5°	1169.8	1334.1	2165.2	1308.2	1134.0
70°	735.1	923.8	1914.1	959.2	755.9
72.5°	339.0	497.8	1441.4	560.3	358.4
75°	121.4	190.5	889.3	204.7	127.0
77.5°	68.9	77.2	393.0	77.5	71.3
80°	44.4	48.1	113.5	50.8	43.2
82.5°	25.2	33.6	49.8	35.7	23.2
85°	13.6	21.4	22.0	21.9	13.6
87.5°	4.9	8.4	4.9	9.6	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)