

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: P368315

Luminaire Tested: **MSA-SA4B-727-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368315  
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-SA4B-727-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: 17501 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

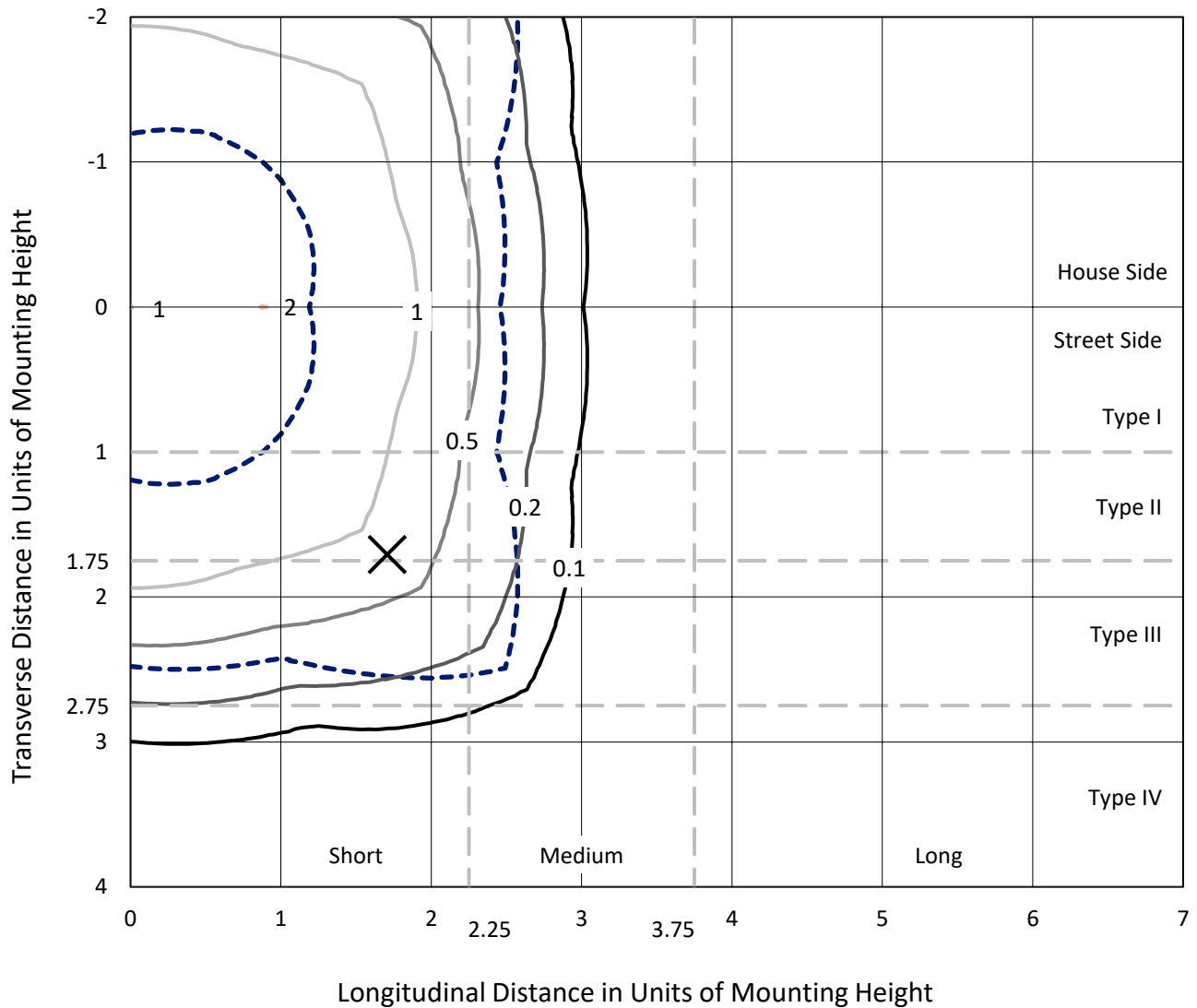
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

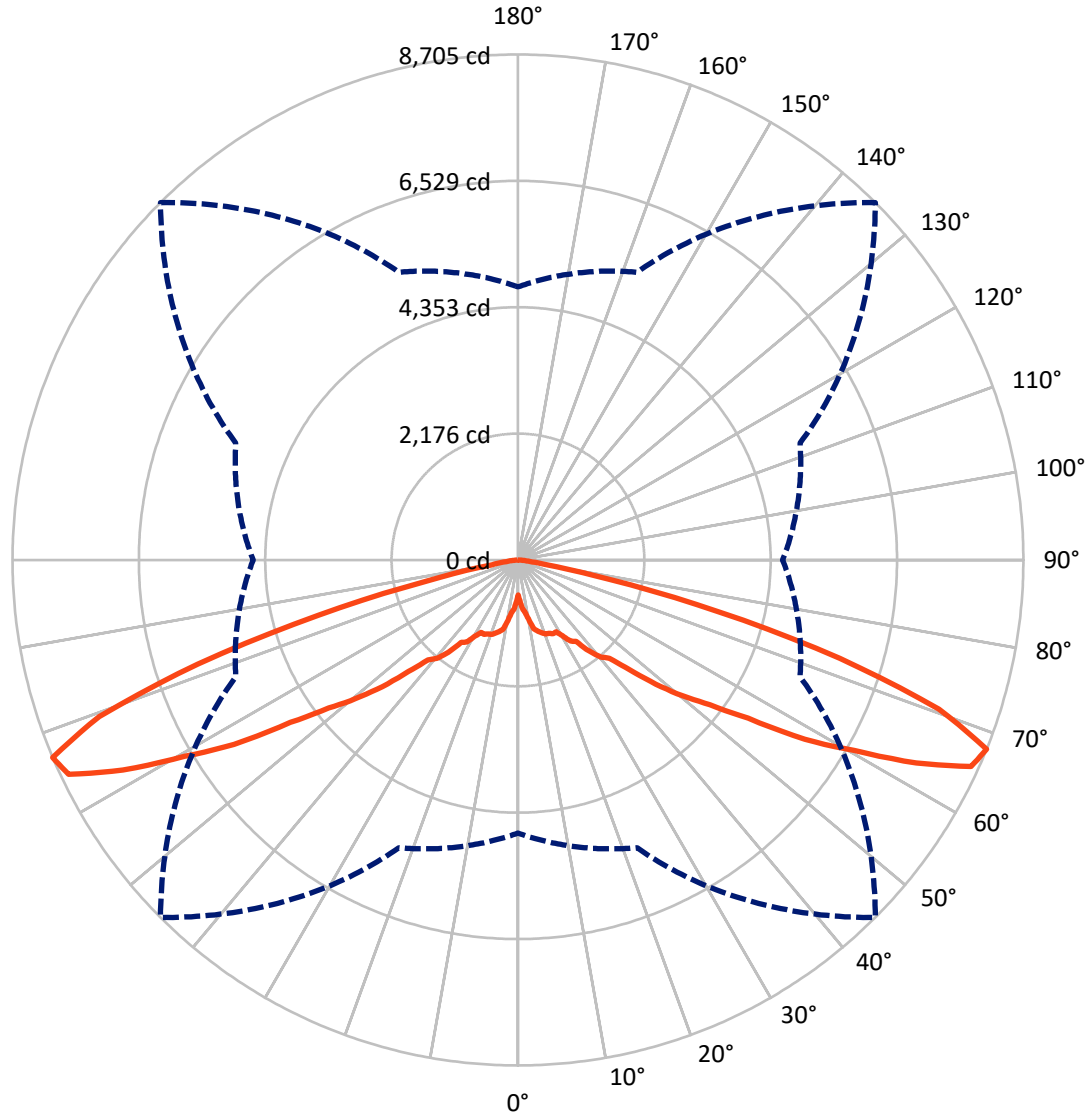
× Max cd  
 - - - 1/2 Max cd



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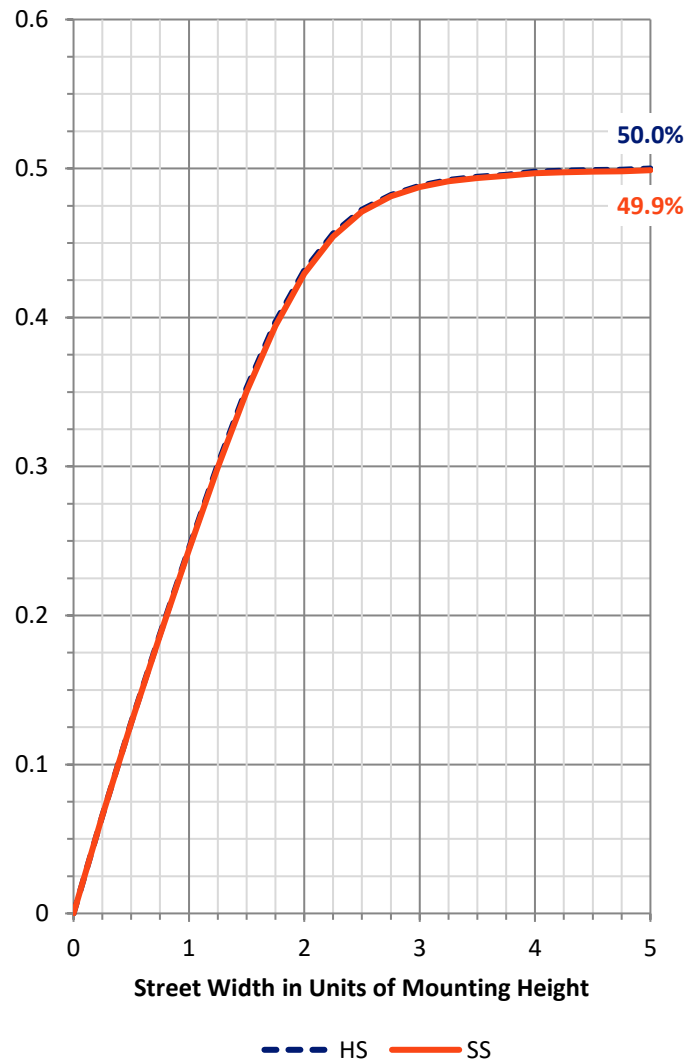
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8750.5	0.0	8750.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8750.5	0.0	8750.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17501.0	0.0	17501.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.4	0.5
10°-20°	353.6	2.0
20°-30°	674.7	3.9
30°-40°	1233.5	7.0
40°-50°	2391.7	13.7
50°-60°	4567.4	26.1
60°-70°	6171.0	35.3
70°-80°	1916.5	11.0
80°-90°	103.3	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°	17501.0	100.0
0°-180°	17501.0	100.0



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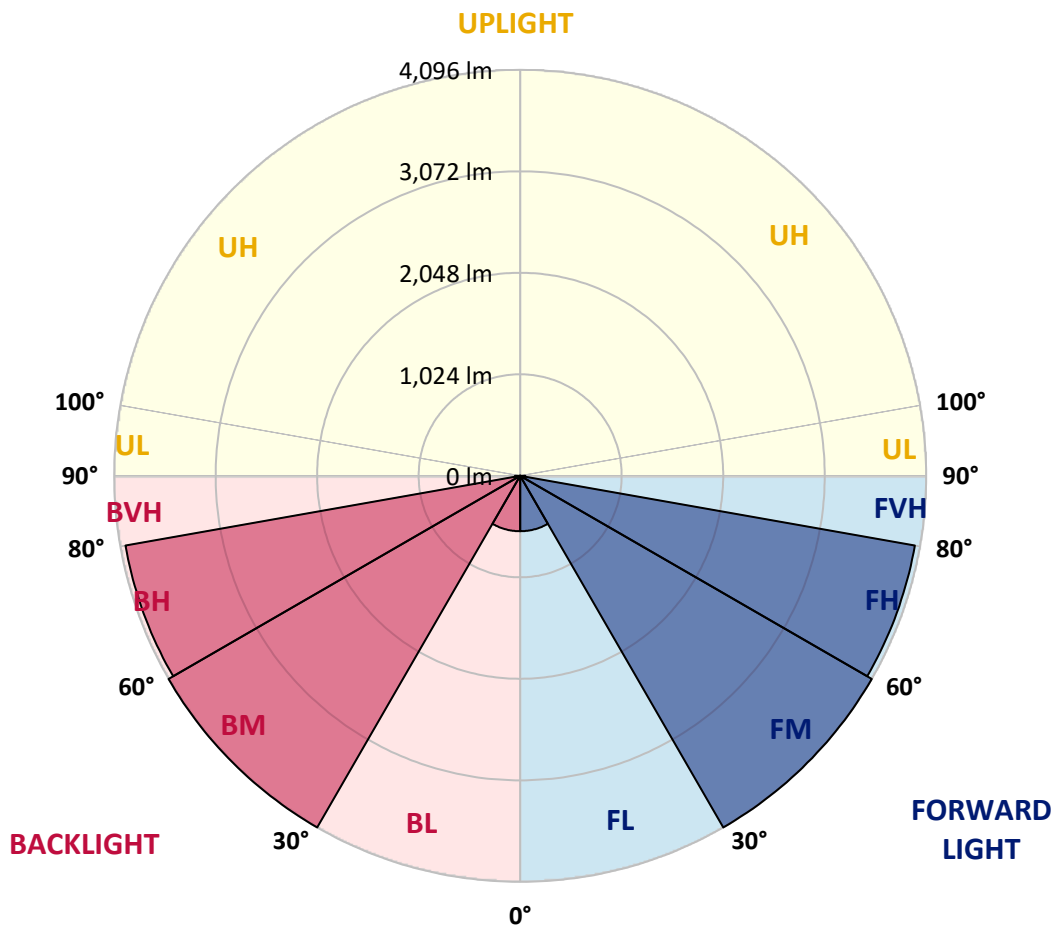
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	558.9	3.2			
FM (30°-60°)	4096.3	23.4			
FH (60°-80°)	4043.7	23.1			G2/5000
FVH (80°-90°)	51.6	0.3			G1/100
BL (0°-30°)	558.9	3.2	B2/1000		
BM (30°-60°)	4096.3	23.4	B3/5000		
BH (60°-80°)	4043.7	23.1	B4/5000		G2/5000
BVH (80°-90°)	51.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	599.7	599.7	599.7	599.7	599.7
2.5°	738.3	691.0	712.6	691.0	738.3
5°	938.5	889.1	845.8	876.9	941.2
7.5°	1078.4	1004.7	913.4	996.6	1072.3
10°	1102.1	1060.8	1056.8	1056.1	1099.4
12.5°	1190.6	1162.9	1218.4	1165.6	1193.3
15°	1259.6	1244.1	1269.1	1263.7	1262.3
17.5°	1366.4	1261.0	1317.8	1254.9	1363.1
20°	1413.8	1264.3	1359.7	1256.9	1413.1
22.5°	1471.9	1344.1	1372.5	1347.5	1466.5
25°	1505.0	1395.5	1405.6	1396.9	1505.7
27.5°	1640.9	1509.1	1400.9	1527.3	1666.0
30°	1744.4	1582.8	1511.8	1584.8	1757.2
32.5°	1893.8	1693.0	1665.3	1720.0	1917.5
35°	2079.1	1878.3	1722.7	1878.9	2118.3
37.5°	2442.1	2046.6	1991.8	2106.1	2469.2
40°	2698.4	2312.3	2195.4	2354.9	2742.3
42.5°	3091.9	2610.5	2313.7	2632.1	3159.5
45°	3458.3	2972.2	2690.9	2997.2	3507.7
47.5°	3845.8	3304.2	3198.7	3335.3	3882.3
50°	4303.5	3753.8	3680.1	3789.0	4319.0
52.5°	4843.7	4355.5	4137.8	4375.8	4849.1
55°	5485.3	4860.6	4811.9	4916.0	5493.5
57.5°	6112.8	5515.1	5827.5	5521.2	6003.9
60°	6560.4	6118.2	6662.5	5962.7	6319.0
62.5°	6588.8	6565.1	7702.3	6301.4	6251.4
65°	5974.8	6384.6	8573.2	6178.4	5674.7
67.5°	4703.1	5363.6	8705.0	5259.5	4559.1
70°	2955.3	3713.9	7695.6	3856.6	3039.1
72.5°	1363.1	2001.3	5795.0	2252.8	1440.8
75°	488.2	766.0	3575.3	822.8	510.5
77.5°	277.2	310.3	1580.1	311.7	286.7
80°	178.5	193.4	456.4	204.2	173.8
82.5°	101.4	135.2	200.1	143.3	93.3
85°	54.8	85.9	88.6	87.9	54.8
87.5°	19.6	33.8	19.6	38.5	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)