

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: P597113

Luminaire Tested: **MSA-SA4B-835-U-5MQ**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P597113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: MSA-SA4B-835-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: 17252 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

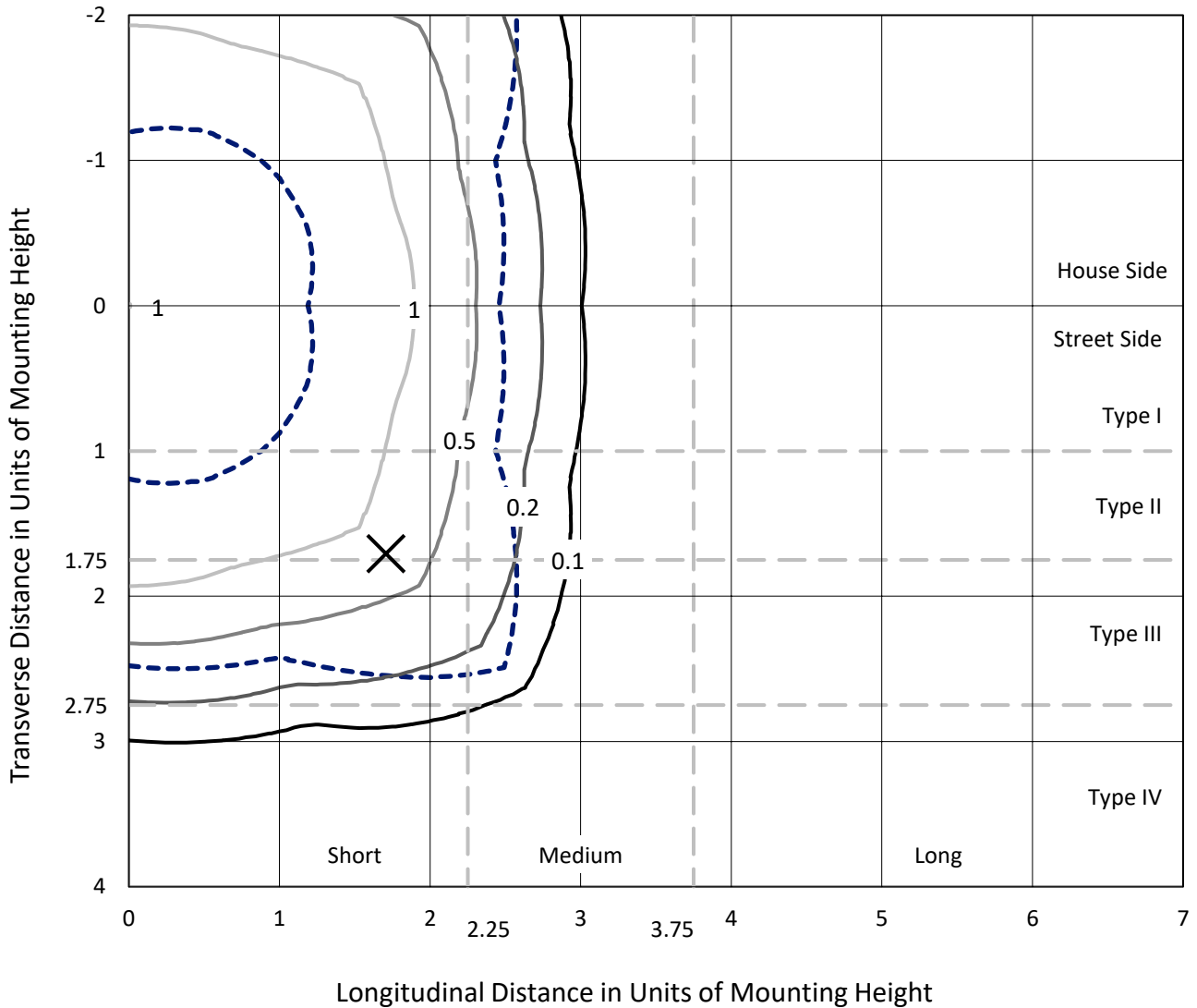
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

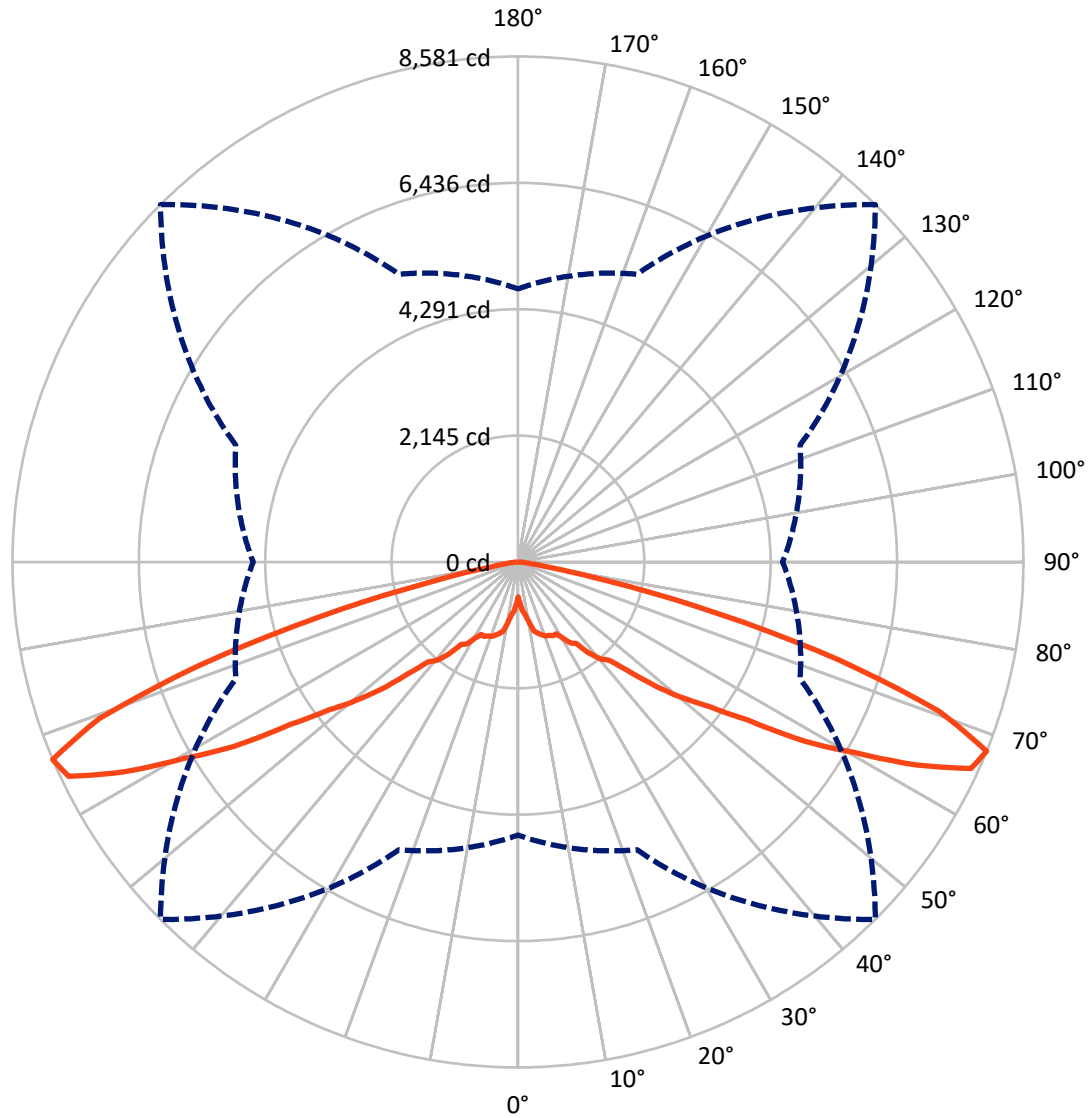
× Max cd  
 - - - 1/2 Max cd



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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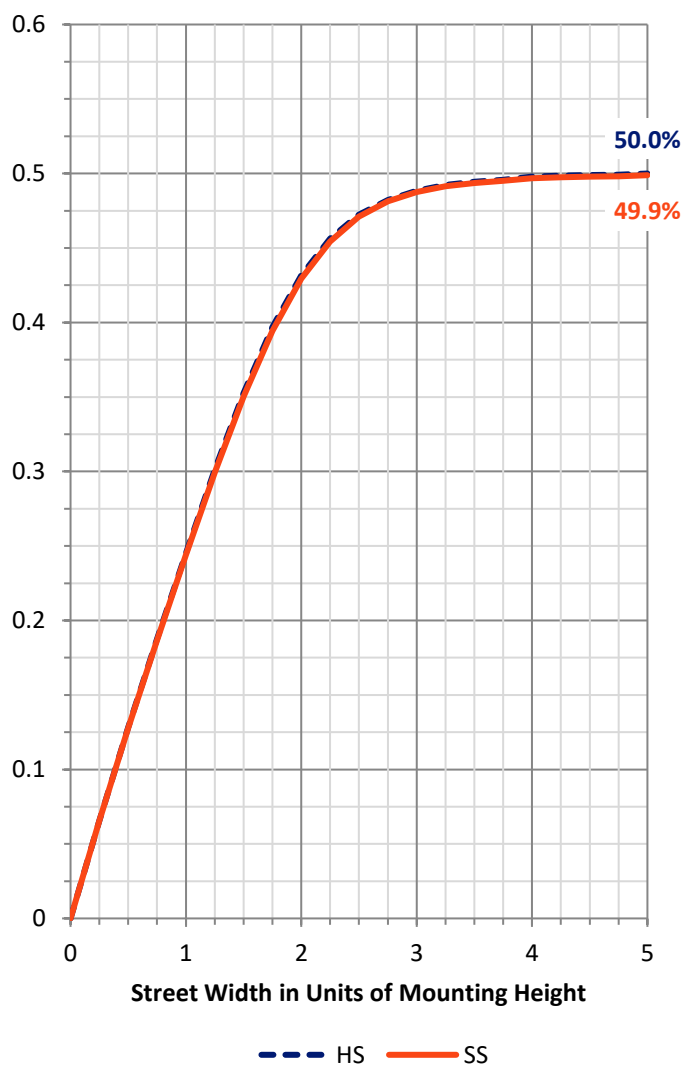
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8626.0	0.0	8626.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8626.0	0.0	8626.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17252.0	0.0	17252.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	0.5
10°-20°	348.6	2.0
20°-30°	665.1	3.9
30°-40°	1216.0	7.0
40°-50°	2357.7	13.7
50°-60°	4502.4	26.1
60°-70°	6083.2	35.3
70°-80°	1889.2	11.0
80°-90°	101.8	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°	17252.0	100.0
0°-180°	17252.0	100.0

**Coefficient of Utilization**



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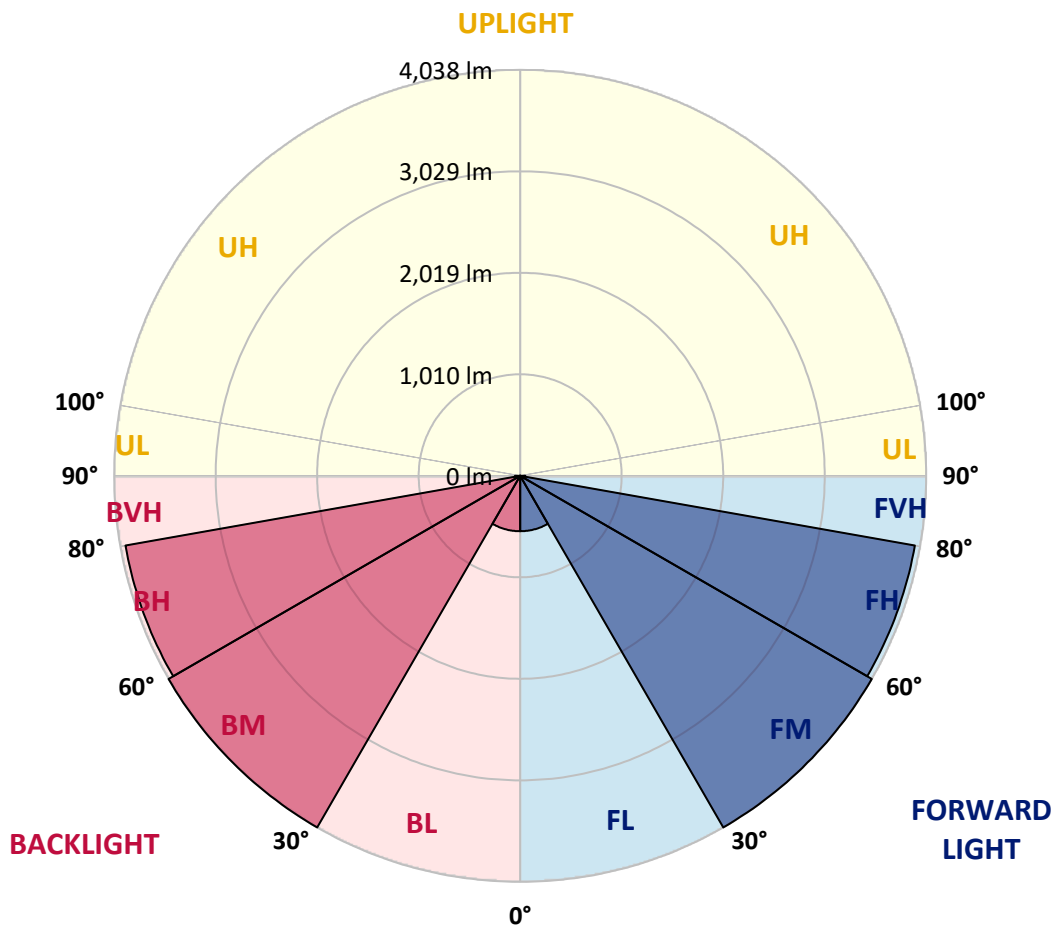
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	550.9	3.2			
FM (30°-60°)	4038.0	23.4			
FH (60°-80°)	3986.2	23.1			G2/5000
FVH (80°-90°)	50.9	0.3			G1/100
BL (0°-30°)	550.9	3.2	B2/1000		
BM (30°-60°)	4038.0	23.4	B3/5000		
BH (60°-80°)	3986.2	23.1	B4/5000		G2/5000
BVH (80°-90°)	50.9	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°	591.2	591.2	591.2	591.2	591.2
2.5°	727.8	681.2	702.5	681.2	727.8
5°	925.1	876.4	833.8	864.4	927.8
7.5°	1063.1	990.4	900.4	982.4	1057.1
10°	1086.4	1045.7	1041.7	1041.1	1083.7
12.5°	1173.7	1146.4	1201.0	1149.0	1176.4
15°	1241.7	1226.4	1251.0	1245.7	1244.4
17.5°	1347.0	1243.0	1299.0	1237.0	1343.7
20°	1393.6	1246.4	1340.3	1239.0	1393.0
22.5°	1451.0	1325.0	1353.0	1328.3	1445.6
25°	1483.6	1375.7	1385.6	1377.0	1484.3
27.5°	1617.6	1487.6	1381.0	1505.6	1642.3
30°	1719.6	1560.3	1490.3	1562.3	1732.2
32.5°	1866.9	1668.9	1641.6	1695.6	1890.2
35°	2049.5	1851.5	1698.2	1852.2	2088.1
37.5°	2407.4	2017.5	1963.5	2076.1	2434.0
40°	2660.0	2279.4	2164.1	2321.4	2703.3
42.5°	3047.9	2573.3	2280.8	2594.7	3114.5
45°	3409.1	2929.9	2652.7	2954.6	3457.8
47.5°	3791.0	3257.2	3153.2	3287.8	3827.0
50°	4242.3	3700.4	3627.7	3735.1	4257.6
52.5°	4774.8	4293.6	4079.0	4313.6	4780.1
55°	5407.3	4791.5	4743.5	4846.1	5415.3
57.5°	6025.8	5436.6	5744.5	5442.6	5918.5
60°	6467.0	6031.1	6567.7	5877.8	6229.1
62.5°	6495.0	6471.7	7592.7	6211.8	6162.4
65°	5889.8	6293.7	8451.2	6090.5	5593.9
67.5°	4636.2	5287.3	8581.2	5184.7	4494.2
70°	2913.3	3661.1	7586.1	3801.7	2995.9
72.5°	1343.7	1972.8	5712.6	2220.8	1420.3
75°	481.2	755.1	3524.4	811.1	503.2
77.5°	273.3	305.9	1557.6	307.3	282.6
80°	176.0	190.6	449.9	201.3	171.3
82.5°	100.0	133.3	197.3	141.3	92.0
85°	54.0	84.6	87.3	86.6	54.0
87.5°	19.3	33.3	19.3	38.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)