

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: P597025

Luminaire Tested: **MSA-SA3B-835-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597025
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-SA3B-835-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13053 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

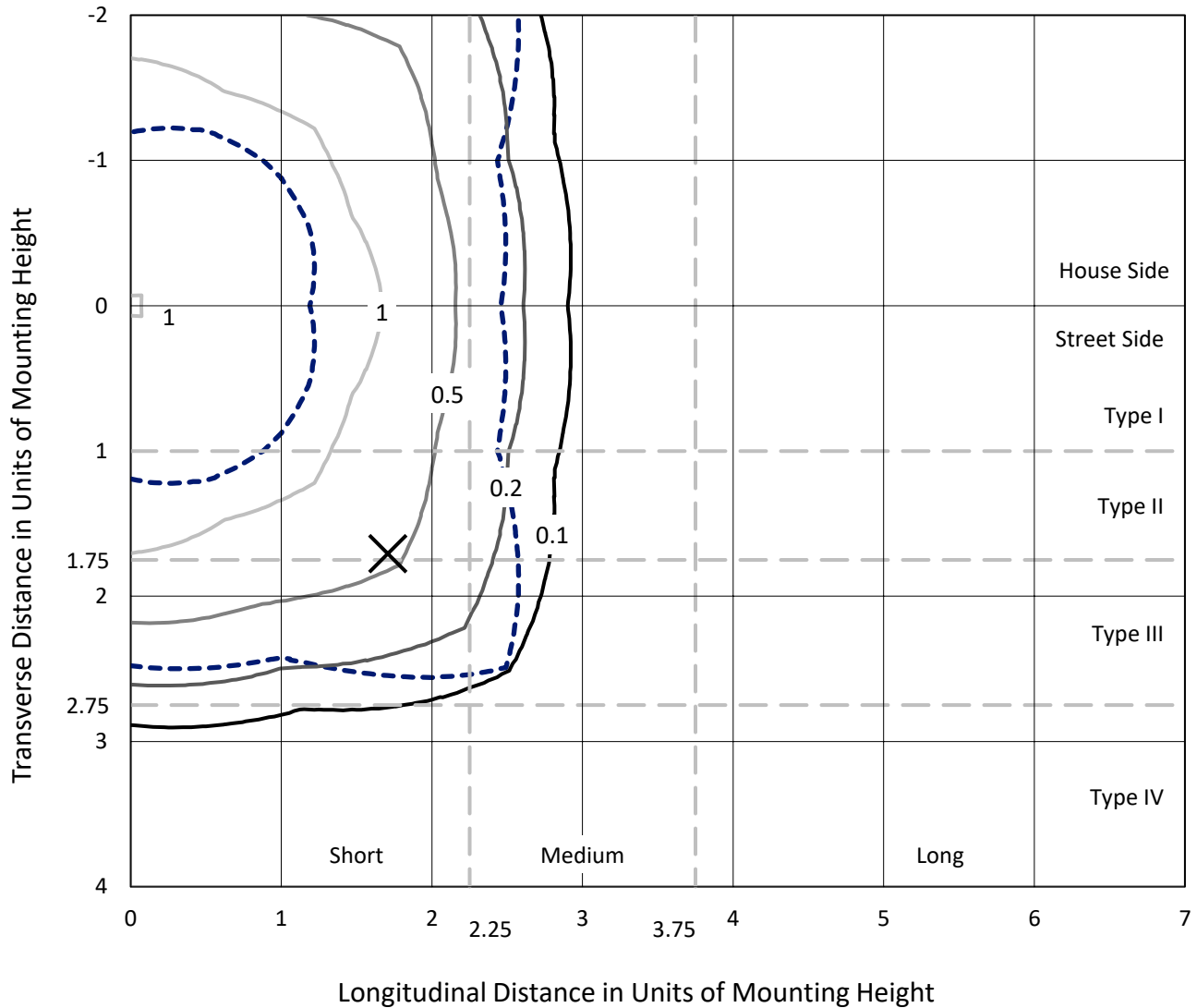
Input Watts (W): 126
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

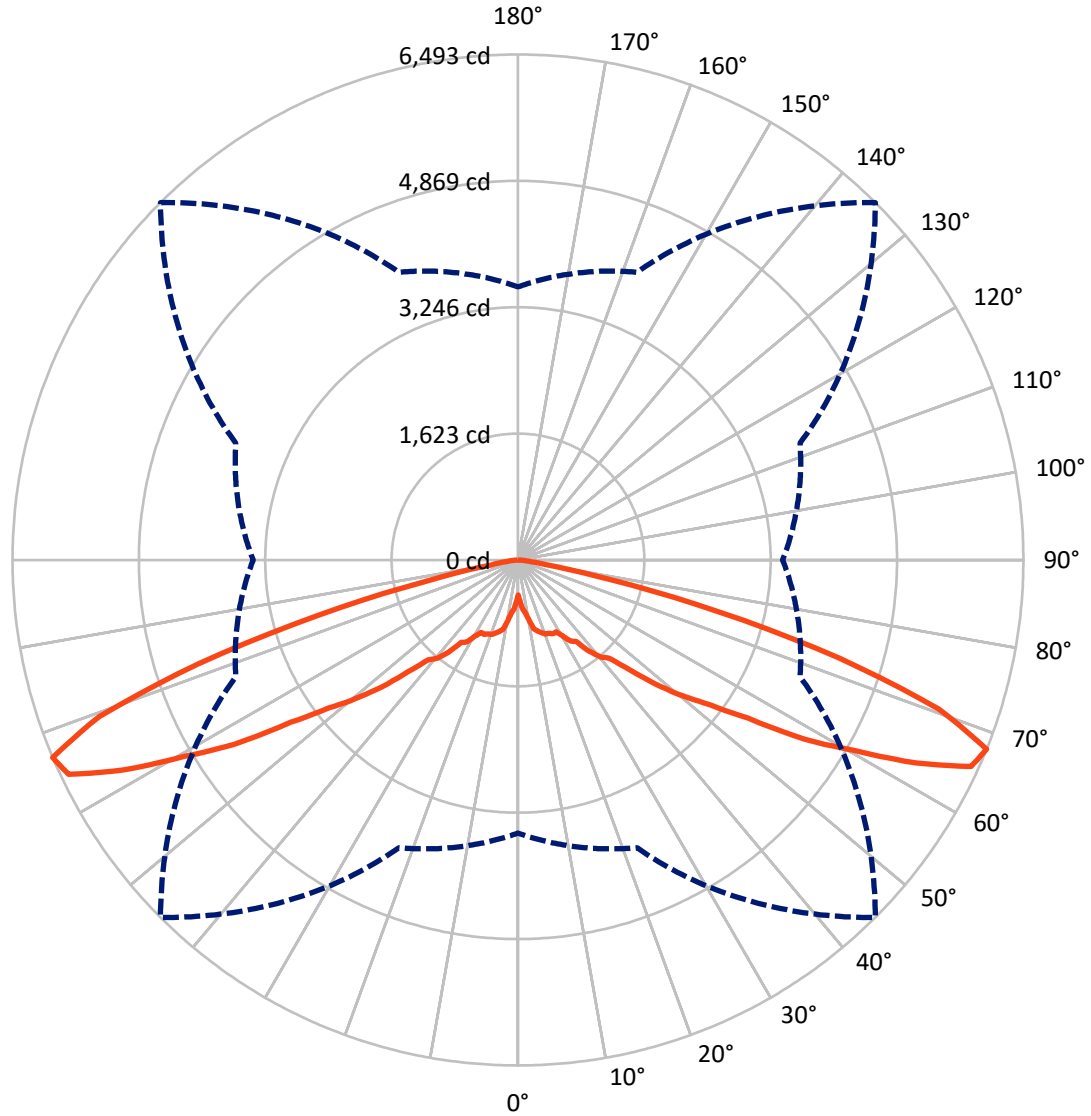
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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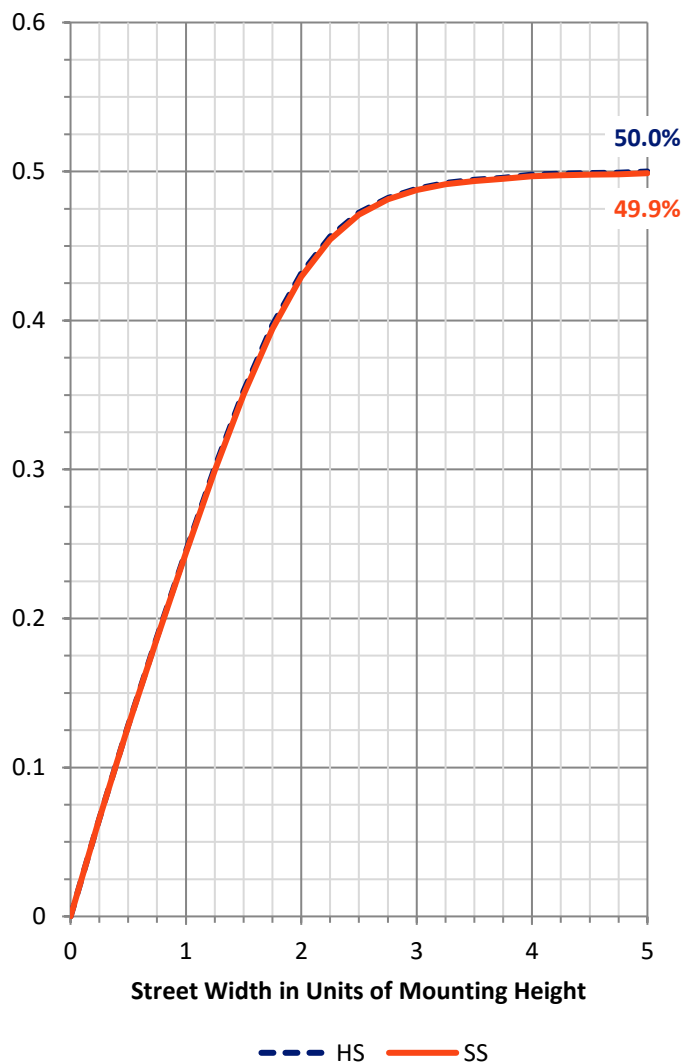
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6526.5	0.0	6526.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6526.5	0.0	6526.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13053.0	0.0	13053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	0.5
10°-20°	263.7	2.0
20°-30°	503.2	3.9
30°-40°	920.0	7.0
40°-50°	1783.8	13.7
50°-60°	3406.5	26.1
60°-70°	4602.6	35.3
70°-80°	1429.4	11.0
80°-90°	77.0	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°	13053.0	100.0
0°-180°	13053.0	100.0

Coefficient of Utilization

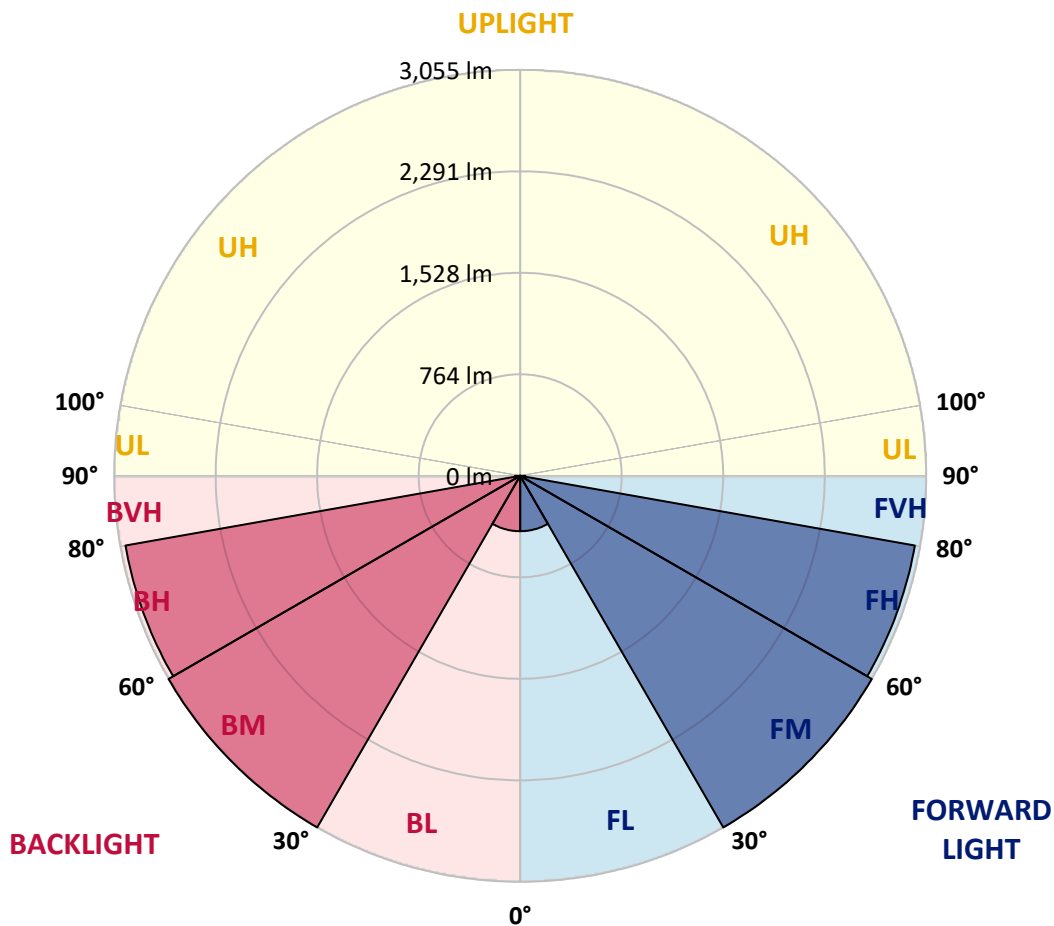


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.8	3.2			
FM (30°-60°)	3055.2	23.4			
FH (60°-80°)	3016.0	23.1			G2/5000
FVH (80°-90°)	38.5	0.3			G1/100
BL (0°-30°)	416.8	3.2	B1/500		
BM (30°-60°)	3055.2	23.4	B3/5000		
BH (60°-80°)	3016.0	23.1	B4/5000		G2/5000
BVH (80°-90°)	38.5	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°	447.3	447.3	447.3	447.3	447.3
2.5°	550.7	515.4	531.5	515.4	550.7
5°	699.9	663.1	630.9	654.0	702.0
7.5°	804.3	749.4	681.3	743.3	799.8
10°	822.0	791.2	788.2	787.7	820.0
12.5°	888.0	867.4	908.7	869.4	890.0
15°	939.5	927.9	946.5	942.5	941.5
17.5°	1019.1	940.5	982.8	935.9	1016.6
20°	1054.4	943.0	1014.1	937.5	1053.9
22.5°	1097.8	1002.5	1023.7	1005.0	1093.8
25°	1122.5	1040.8	1048.4	1041.8	1123.0
27.5°	1223.9	1125.5	1044.9	1139.2	1242.5
30°	1301.0	1180.5	1127.6	1182.0	1310.6
32.5°	1412.5	1262.7	1242.0	1282.9	1430.1
35°	1550.7	1400.9	1284.9	1401.4	1579.9
37.5°	1821.5	1526.4	1485.6	1570.8	1841.6
40°	2012.6	1724.6	1637.4	1756.4	2045.3
42.5°	2306.1	1947.0	1725.6	1963.2	2356.5
45°	2579.4	2216.8	2007.0	2235.5	2616.2
47.5°	2868.3	2464.4	2385.7	2487.6	2895.6
50°	3209.7	2799.7	2744.8	2826.0	3221.3
52.5°	3612.6	3248.6	3086.2	3263.7	3616.7
55°	4091.2	3625.3	3588.9	3666.6	4097.3
57.5°	4559.2	4113.4	4346.4	4117.9	4478.0
60°	4893.0	4563.2	4969.1	4447.2	4713.0
62.5°	4914.2	4896.5	5744.7	4699.9	4662.5
65°	4456.3	4761.9	6394.2	4608.1	4232.4
67.5°	3507.8	4000.4	6492.6	3922.8	3400.3
70°	2204.2	2770.0	5739.7	2876.4	2266.7
72.5°	1016.6	1492.7	4322.2	1680.3	1074.6
75°	364.1	571.3	2666.6	613.7	380.7
77.5°	206.8	231.5	1178.5	232.5	213.8
80°	133.1	144.2	340.4	152.3	129.6
82.5°	75.6	100.9	149.3	106.9	69.6
85°	40.8	64.0	66.1	65.6	40.8
87.5°	14.6	25.2	14.6	28.7	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)