

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: P597069

Luminaire Tested: **MSA-SA3D-835-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597069
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-SA3D-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: 17674 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

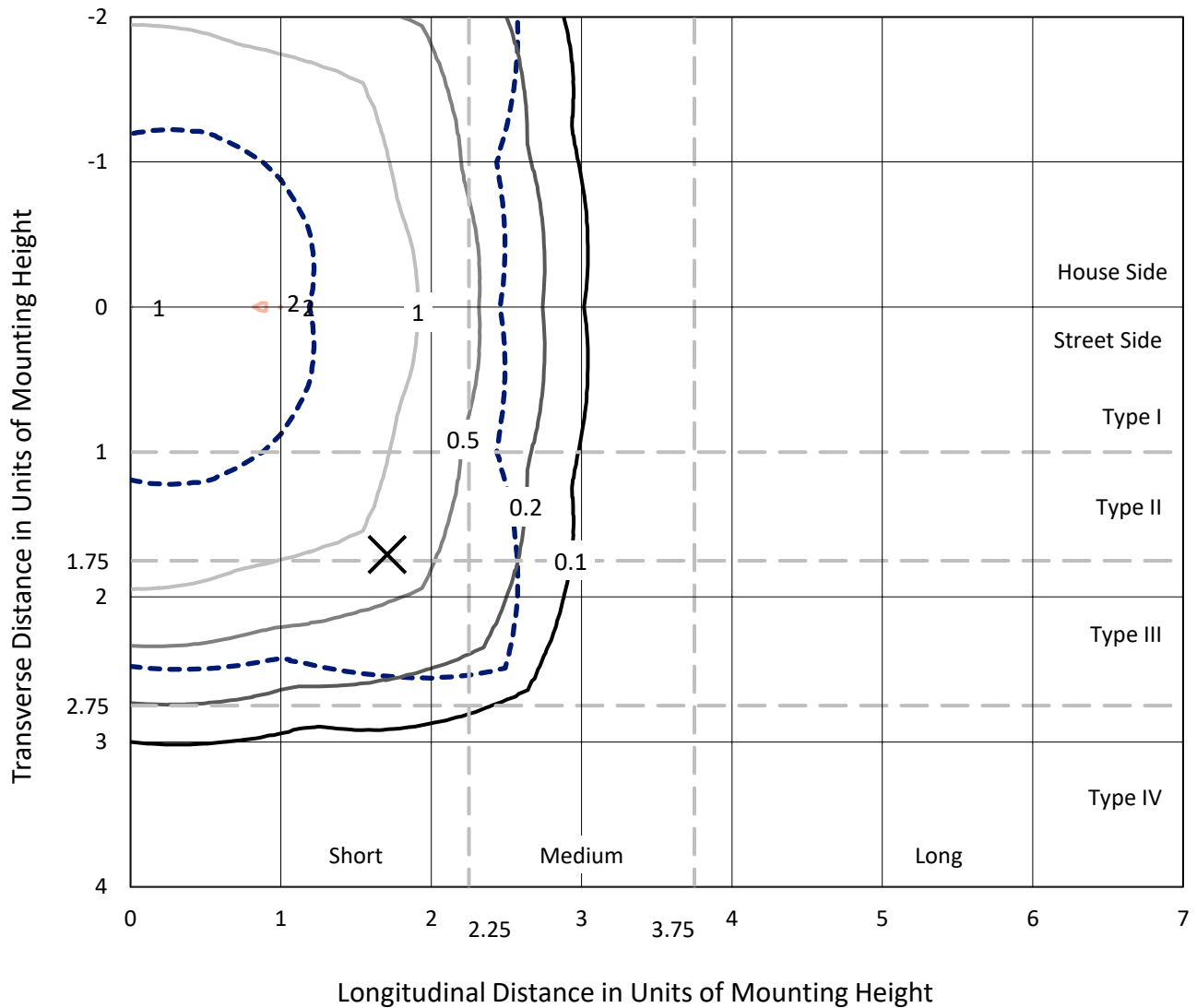
Input Watts (W): 192
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

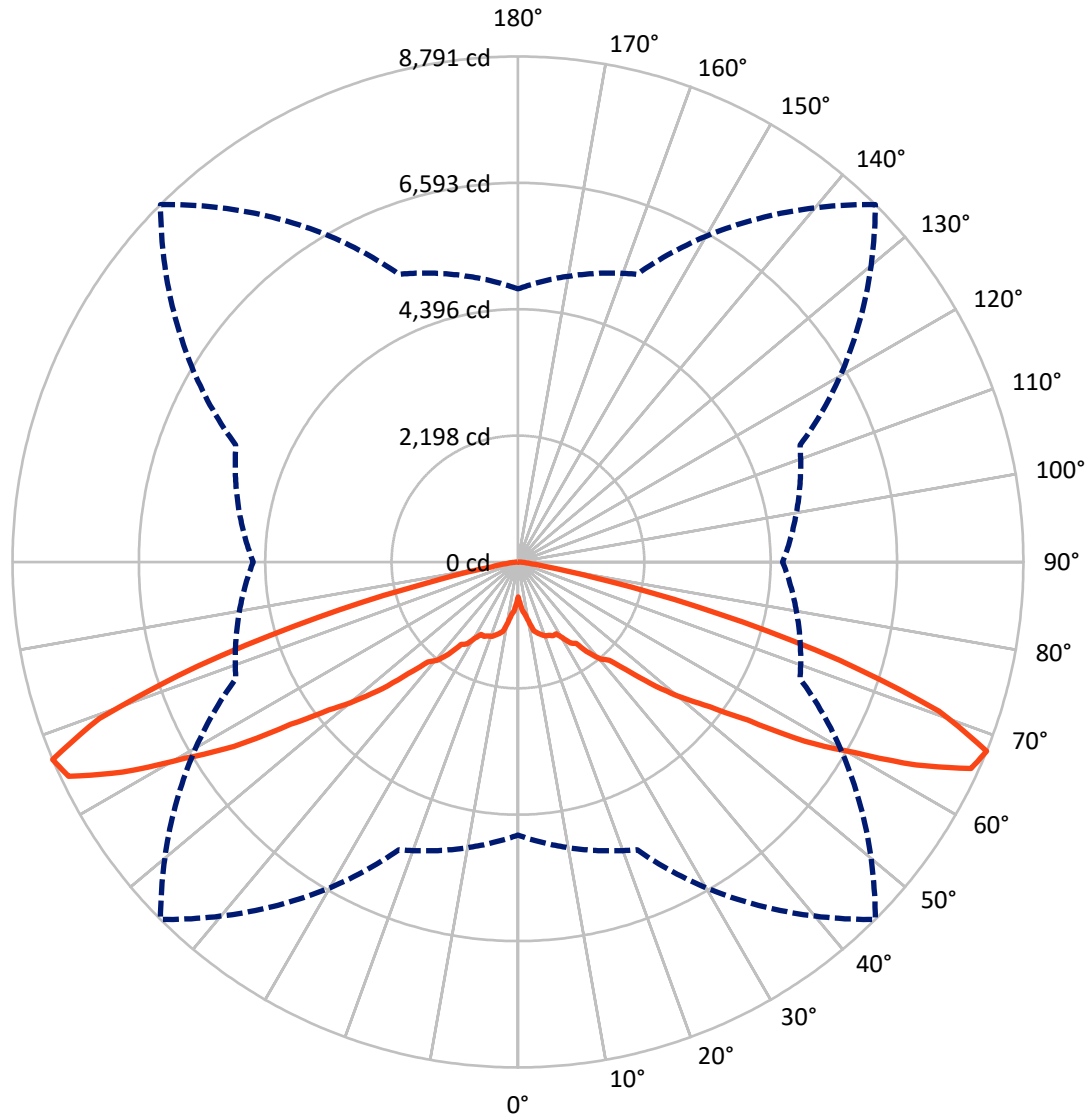
× Max cd
 - - - 1/2 Max cd



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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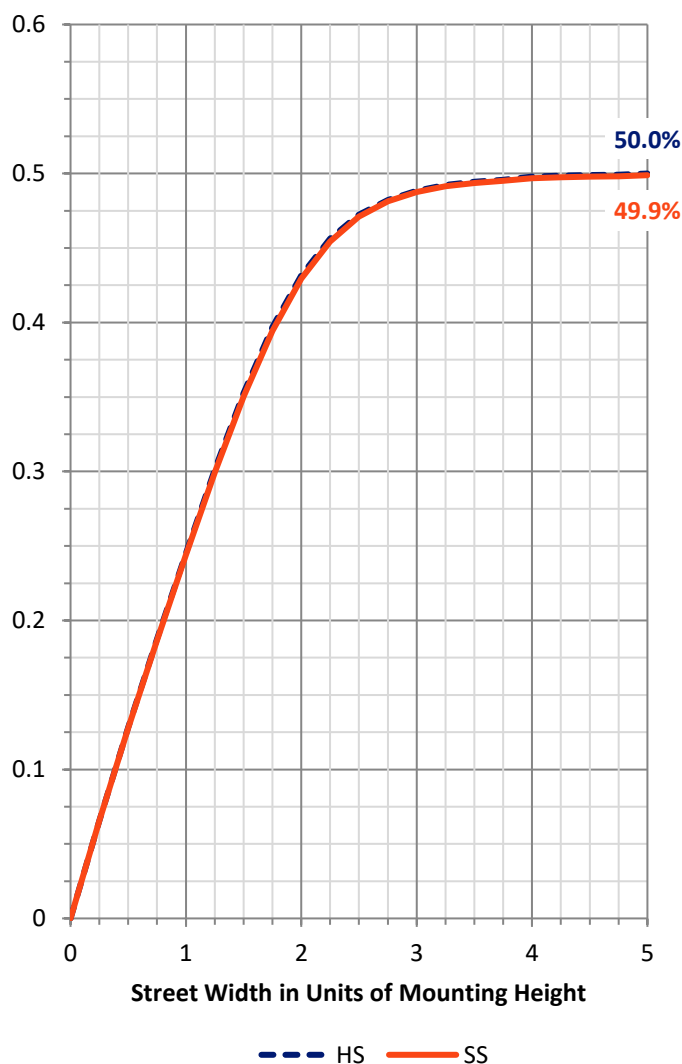
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8837.0	0.0	8837.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8837.0	0.0	8837.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17674.0	0.0	17674.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	0.5
10°-20°	357.1	2.0
20°-30°	681.3	3.9
30°-40°	1245.7	7.0
40°-50°	2415.3	13.7
50°-60°	4612.5	26.1
60°-70°	6232.0	35.3
70°-80°	1935.4	11.0
80°-90°	104.3	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°	17674.0	100.0
0°-180°	17674.0	100.0

Coefficient of Utilization



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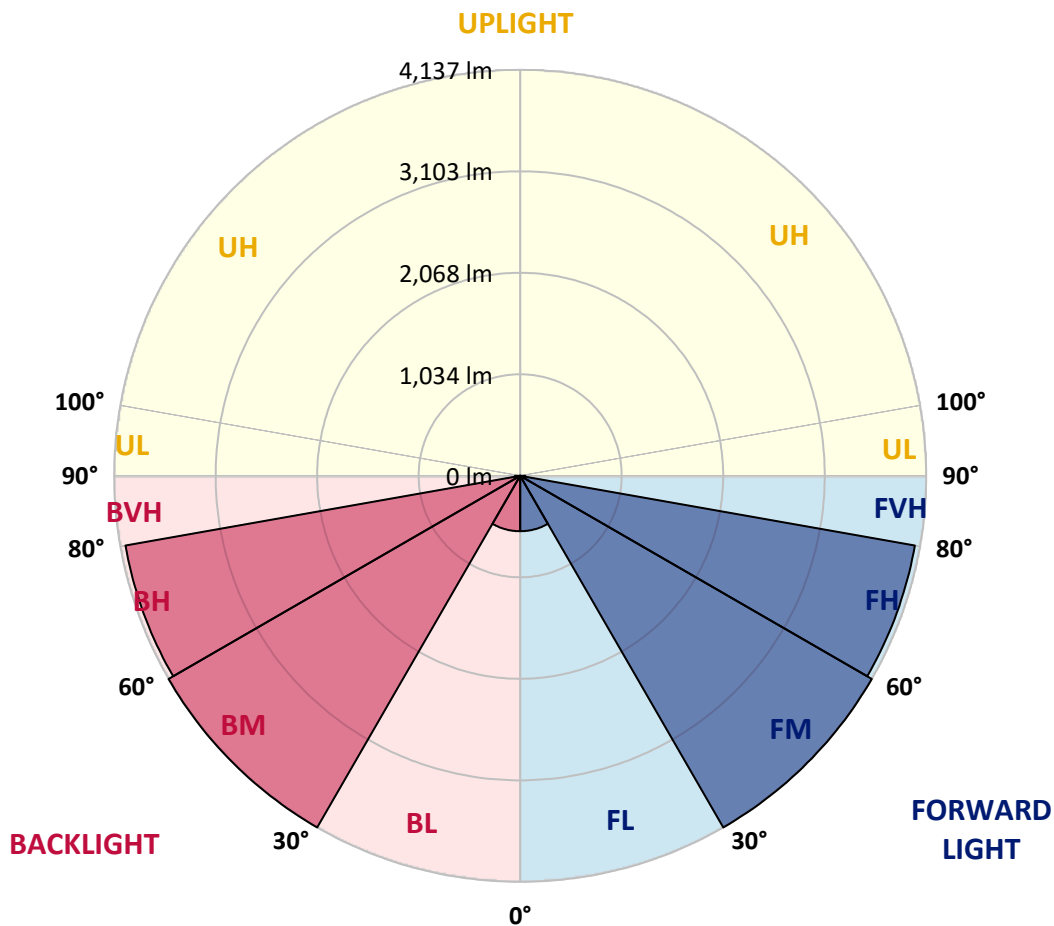
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	564.4	3.2			
FM (30°-60°)	4136.8	23.4			
FH (60°-80°)	4083.7	23.1			G2/5000
FVH (80°-90°)	52.1	0.3			G1/100
BL (0°-30°)	564.4	3.2	B2/1000		
BM (30°-60°)	4136.8	23.4	B3/5000		
BH (60°-80°)	4083.7	23.1	B4/5000		G2/5000
BVH (80°-90°)	52.1	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°	605.6	605.6	605.6	605.6	605.6
2.5°	745.6	697.8	719.7	697.8	745.6
5°	947.7	897.9	854.2	885.6	950.5
7.5°	1089.1	1014.6	922.5	1006.4	1082.9
10°	1113.0	1071.3	1067.2	1066.5	1110.2
12.5°	1202.4	1174.4	1230.4	1177.1	1205.1
15°	1272.1	1256.4	1281.6	1276.2	1274.8
17.5°	1379.9	1273.4	1330.8	1267.3	1376.5
20°	1427.7	1276.8	1373.1	1269.3	1427.1
22.5°	1486.5	1357.4	1386.1	1360.8	1481.0
25°	1519.9	1409.3	1419.5	1410.7	1520.6
27.5°	1657.2	1524.0	1414.8	1542.4	1682.4
30°	1761.6	1598.4	1526.7	1600.5	1774.6
32.5°	1912.5	1709.7	1681.7	1737.0	1936.4
35°	2099.6	1896.8	1739.8	1897.5	2139.2
37.5°	2466.3	2066.8	2011.5	2126.9	2493.6
40°	2725.1	2335.2	2217.1	2378.2	2769.4
42.5°	3122.4	2636.3	2336.5	2658.1	3190.7
45°	3492.5	3001.6	2717.5	3026.9	3542.4
47.5°	3883.8	3336.8	3230.3	3368.3	3920.6
50°	4346.0	3790.9	3716.5	3826.4	4361.7
52.5°	4891.6	4398.6	4178.7	4419.1	4897.0
55°	5539.6	4908.7	4859.5	4964.6	5547.8
57.5°	6173.2	5569.6	5885.1	5575.8	6063.3
60°	6625.2	6178.7	6728.3	6021.6	6381.5
62.5°	6653.9	6630.0	7778.5	6363.7	6313.2
65°	6033.9	6447.7	8657.9	6239.4	5730.7
67.5°	4749.6	5416.7	8791.1	5311.5	4604.1
70°	2984.5	3750.6	7771.6	3894.7	3069.2
72.5°	1376.5	2021.1	5852.3	2275.1	1455.0
75°	493.0	773.6	3610.7	831.0	515.5
77.5°	279.9	313.4	1595.7	314.8	289.5
80°	180.3	195.3	460.9	206.2	175.5
82.5°	102.4	136.6	202.1	144.8	94.2
85°	55.3	86.7	89.4	88.8	55.3
87.5°	19.8	34.1	19.8	38.9	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)