

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: P597048

Luminaire Tested: **MSA-SA3C-835-U-5NQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-5)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3C-835-U-5NQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15358 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

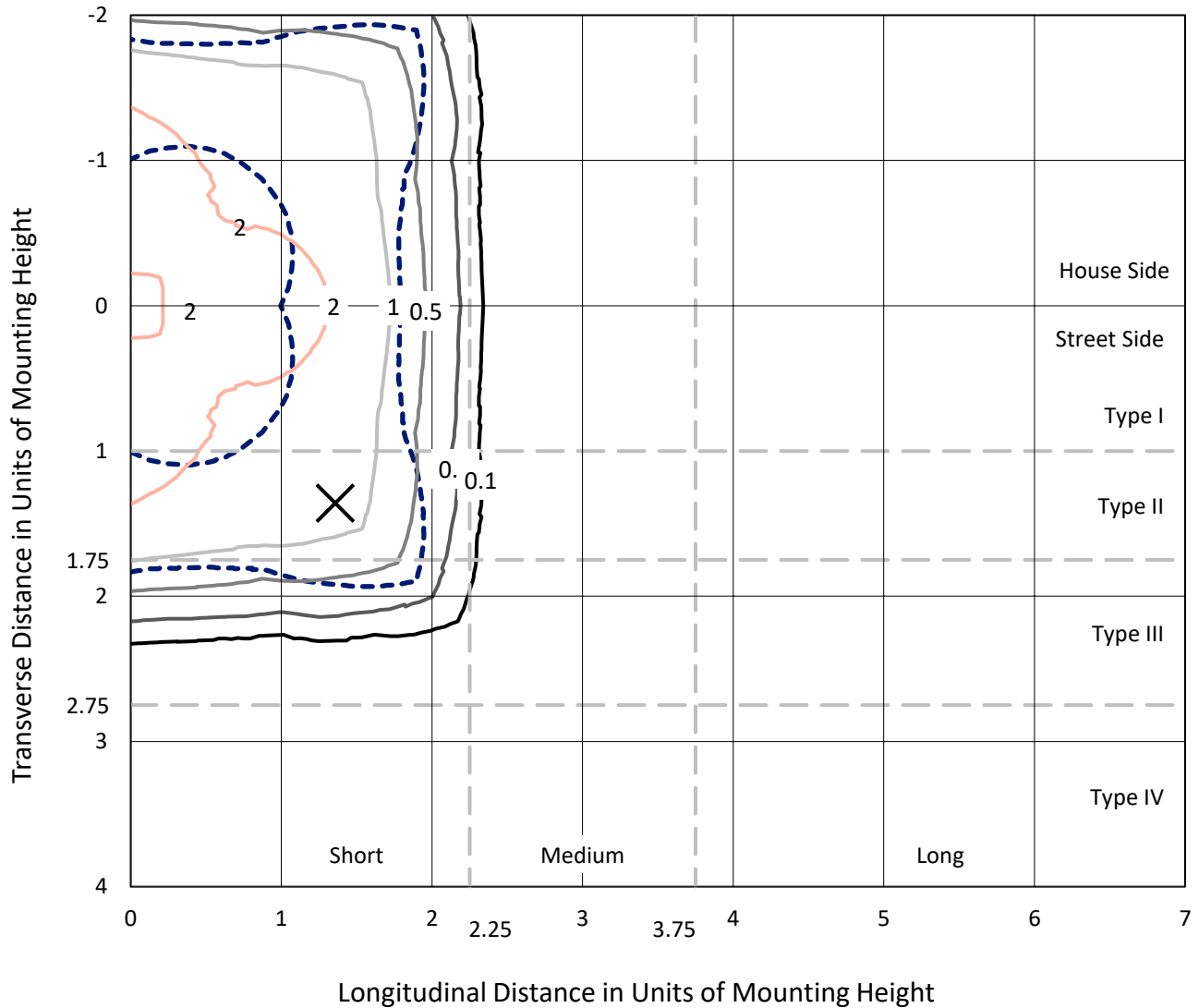
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

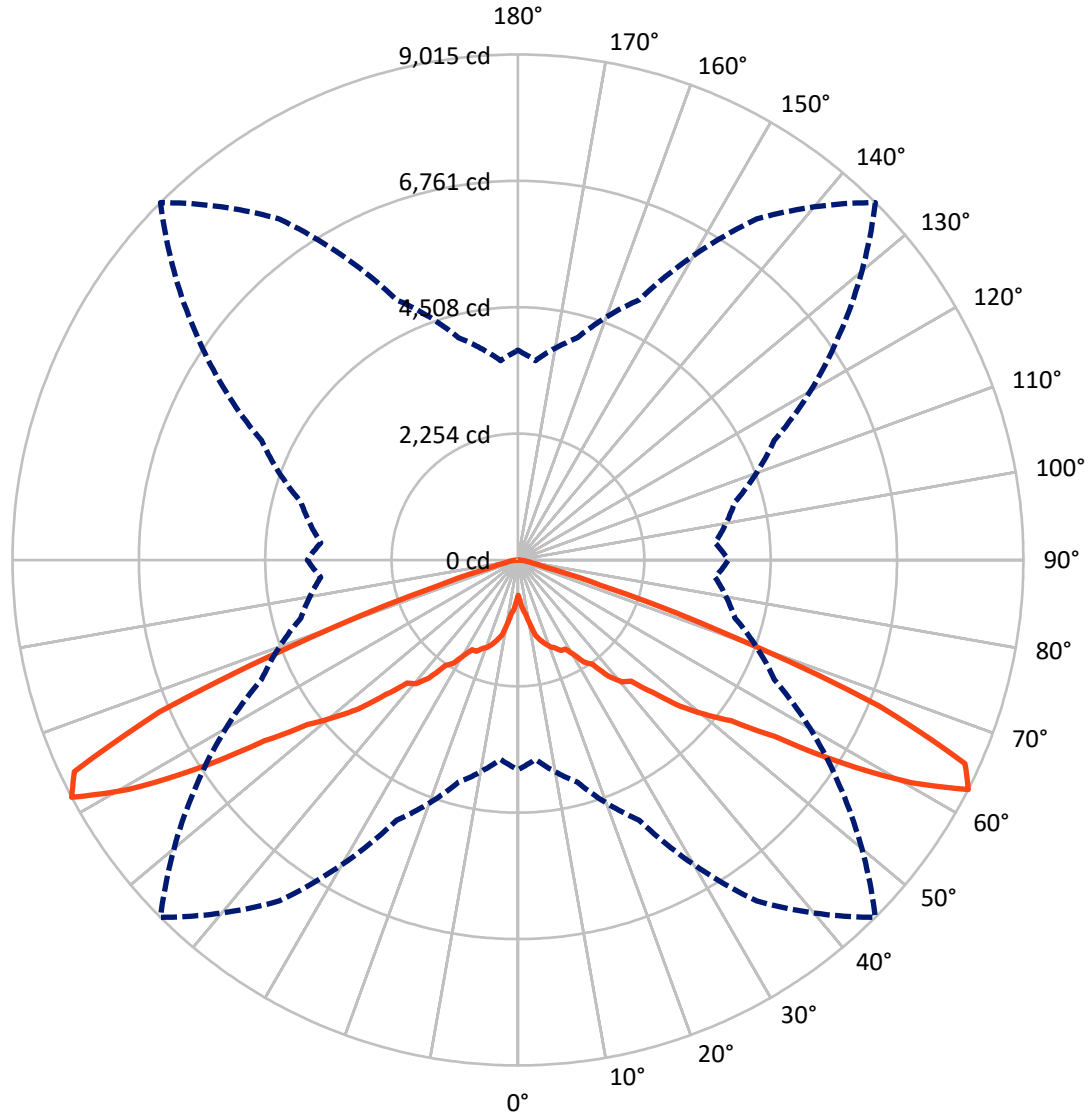
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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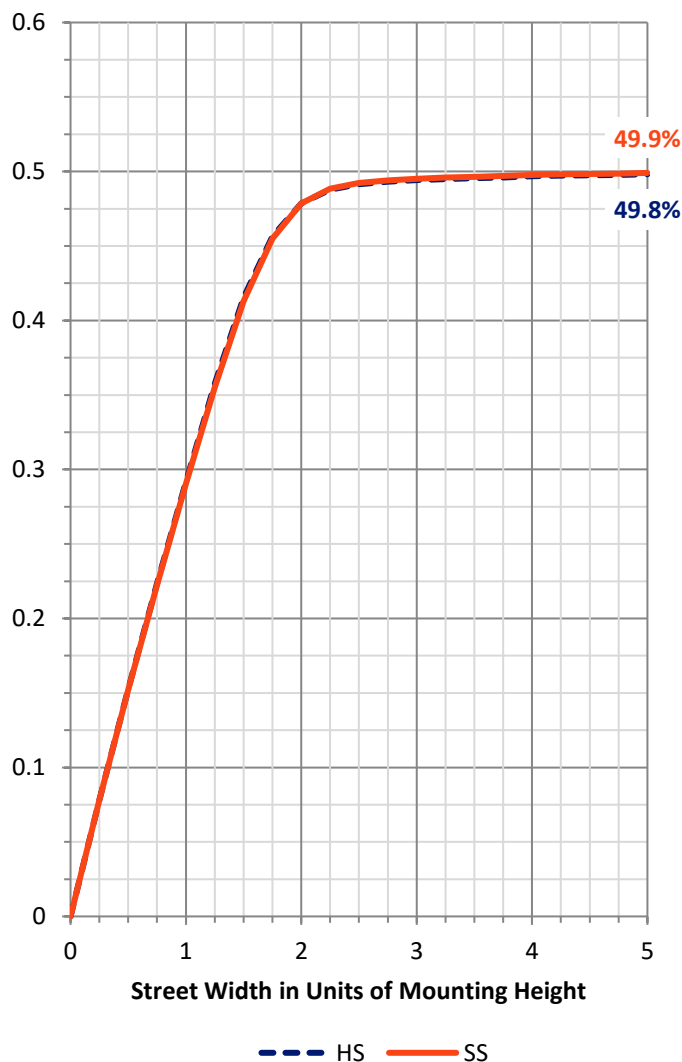
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7679.0	0.0	7679.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7679.0	0.0	7679.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15358.0	0.0	15358.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	0.6
10°-20°	417.3	2.7
20°-30°	874.6	5.7
30°-40°	1647.9	10.7
40°-50°	2990.9	19.5
50°-60°	5053.6	32.9
60°-70°	3777.8	24.6
70°-80°	422.6	2.8
80°-90°	78.6	0.5
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°	15358.0	100.0
0°-180°	15358.0	100.0

Coefficient of Utilization



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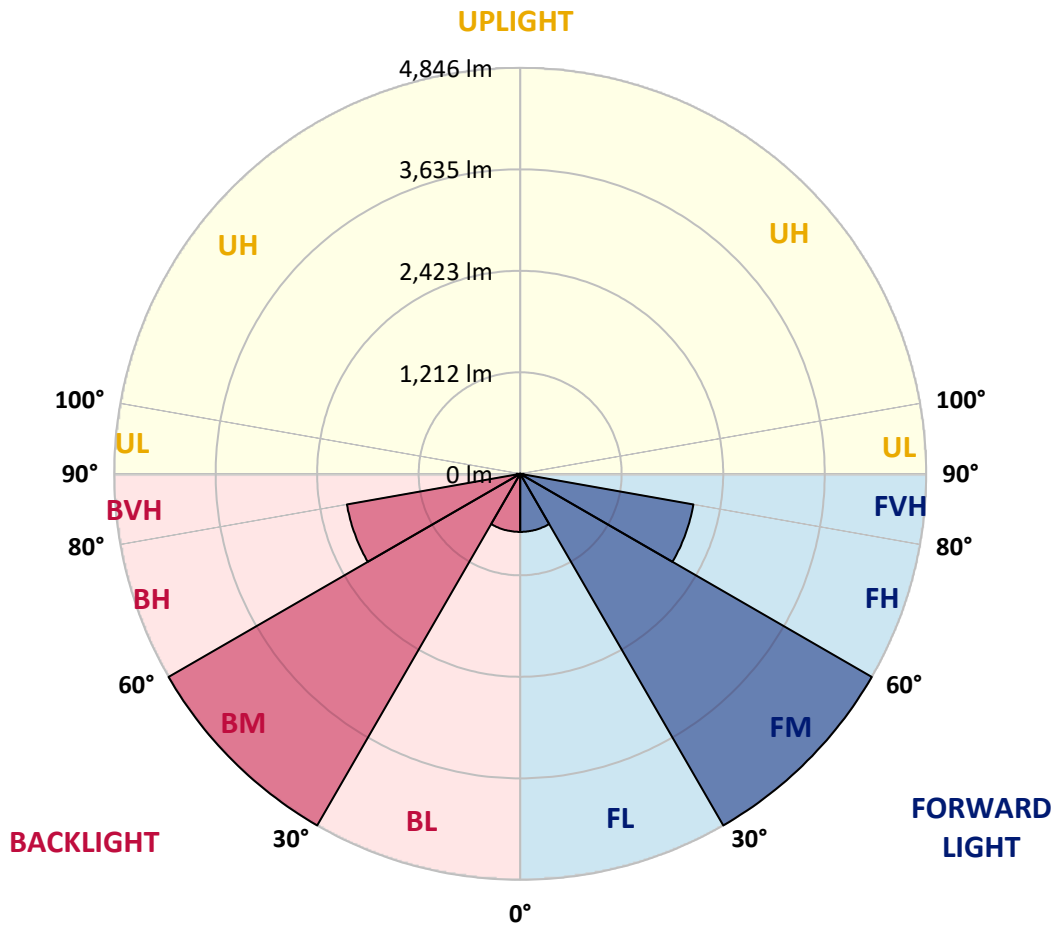
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	693.3	4.5			
FM (30°-60°)	4846.2	31.6			
FH (60°-80°)	2100.2	13.7			G2/5000
FVH (80°-90°)	39.3	0.3			G1/100
BL (0°-30°)	693.3	4.5	B2/1000		
BM (30°-60°)	4846.2	31.6	B3/5000		
BH (60°-80°)	2100.2	13.7	B3/2500		G2/5000
BVH (80°-90°)	39.3	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9	627.9
2.5°	763.5	749.8	701.7	718.5	736.0	733.5	729.2	716.0	704.2	753.5	763.5
5°	973.5	942.2	925.4	911.6	908.5	874.8	921.0	916.0	931.6	957.9	983.5
7.5°	1140.9	1111.6	1067.2	1057.8	1007.2	969.7	1009.7	1059.1	1074.7	1122.8	1151.5
10°	1202.2	1176.5	1184.7	1142.8	1140.3	1150.9	1142.2	1153.4	1194.7	1189.0	1210.3
12.5°	1339.6	1344.0	1317.8	1307.1	1328.4	1374.6	1335.2	1321.5	1311.5	1354.0	1367.1
15°	1468.3	1494.0	1450.8	1444.0	1435.2	1478.3	1435.8	1456.5	1474.6	1483.3	1478.3
17.5°	1650.8	1652.0	1603.9	1527.1	1555.8	1569.6	1550.8	1515.2	1600.8	1643.9	1646.4
20°	1770.7	1775.1	1680.2	1560.2	1641.4	1653.9	1644.5	1570.2	1683.9	1755.8	1752.6
22.5°	1900.1	1885.1	1756.4	1668.9	1697.6	1705.1	1685.1	1675.8	1755.8	1886.3	1867.0
25°	1986.9	2014.4	1886.3	1830.1	1805.7	1788.2	1813.9	1818.9	1900.7	2019.4	1953.8
27.5°	2194.4	2146.9	1946.3	1967.6	1915.7	1797.6	1910.1	1971.9	1954.4	2156.9	2206.3
30°	2378.7	2380.0	2098.8	2139.4	2043.2	1947.6	2069.4	2158.8	2136.9	2396.2	2349.3
32.5°	2614.3	2623.0	2361.8	2253.1	2188.1	2170.0	2155.0	2253.7	2390.0	2599.9	2604.3
35°	2868.6	2943.5	2588.6	2474.3	2363.7	2283.7	2370.0	2506.8	2595.5	2931.0	2871.7
37.5°	3364.0	3237.8	2947.3	2732.4	2661.7	2629.9	2675.5	2754.8	2946.7	3236.0	3337.8
40°	3657.1	3622.1	3226.6	3046.6	2774.2	2859.2	2834.2	3051.6	3210.3	3642.1	3651.5
42.5°	4105.1	3928.9	3573.4	3344.7	3099.7	2952.3	3108.5	3400.3	3592.1	3957.0	4129.5
45°	4459.4	4233.2	3958.9	3785.2	3475.9	3366.5	3422.8	3796.4	4037.0	4287.5	4514.4
47.5°	4851.1	4606.2	4331.9	4023.2	3721.4	3899.5	3800.2	4128.8	4363.8	4723.0	4935.5
50°	5343.5	5072.3	4721.2	4466.2	4266.3	4328.8	4313.2	4547.5	4837.4	5164.8	5406.0
52.5°	5885.8	5579.0	5240.4	5003.6	4919.2	4764.3	4966.7	5062.9	5276.6	5576.6	5859.6
55°	6265.1	5958.3	5753.4	5829.6	5807.1	5558.4	5735.9	5745.9	5642.8	5750.9	6035.8
57.5°	6206.4	5913.3	5885.2	6173.3	6603.8	6844.3	6570.0	5980.2	5594.0	5543.4	5845.2
60°	5426.6	5176.0	5433.5	6083.3	7337.3	8069.6	7013.6	5803.4	5167.3	4904.2	5195.4
62.5°	3739.6	3570.2	4103.8	5119.8	7425.4	9015.0	6997.4	5043.0	4007.6	3530.3	3756.4
65°	1772.6	1711.4	2161.9	3246.0	6185.1	8762.5	6113.3	3412.2	2306.8	1842.6	1893.8
67.5°	666.7	636.1	793.5	1434.0	3895.8	6949.9	4109.5	1683.3	892.2	693.6	717.3
70°	378.6	356.8	377.4	523.0	1568.3	3936.4	1772.6	577.3	379.3	345.5	368.0
72.5°	298.0	281.2	284.3	316.2	541.1	1545.2	573.6	329.3	275.5	261.8	281.8
75°	246.2	231.2	230.6	248.1	315.5	501.7	324.3	251.8	223.1	213.1	229.3
77.5°	195.6	186.8	189.3	203.1	226.2	280.5	234.9	203.7	183.1	171.2	182.4
80°	143.1	141.8	151.8	164.3	168.7	188.7	176.2	164.3	146.2	129.3	133.7
82.5°	93.7	94.3	113.1	123.1	121.2	120.6	126.2	125.6	109.3	85.6	85.6
85°	53.7	55.0	69.4	77.5	76.2	60.6	80.0	80.6	70.0	51.9	50.0
87.5°	17.5	21.9	30.0	31.9	30.6	16.9	30.6	33.7	30.6	21.9	19.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)