

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: P597159

Luminaire Tested: **MSA-SA4D-835-U-5WQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-4)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA4D-835-U-5WQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23266 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

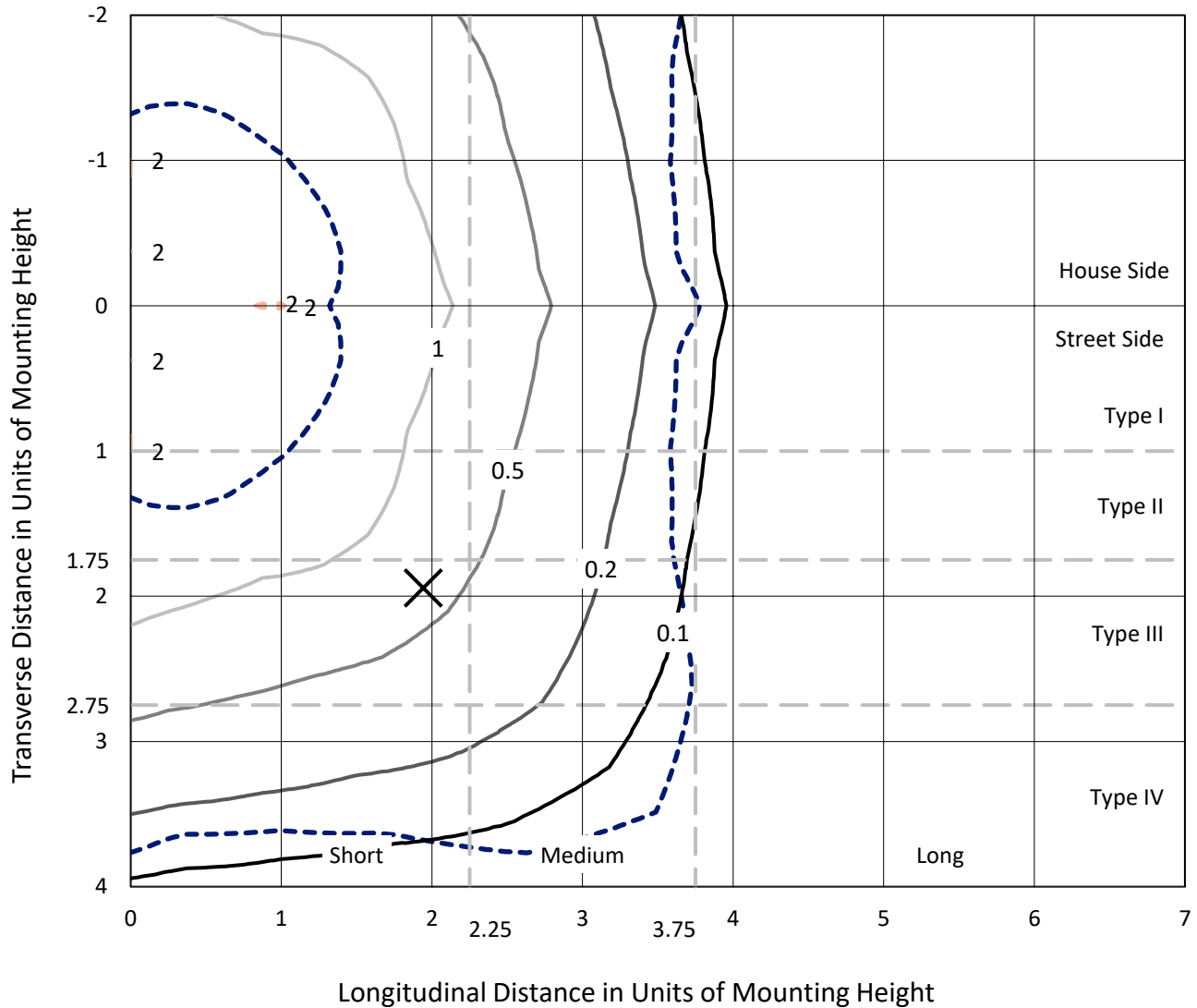
Input Watts (W): 259
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

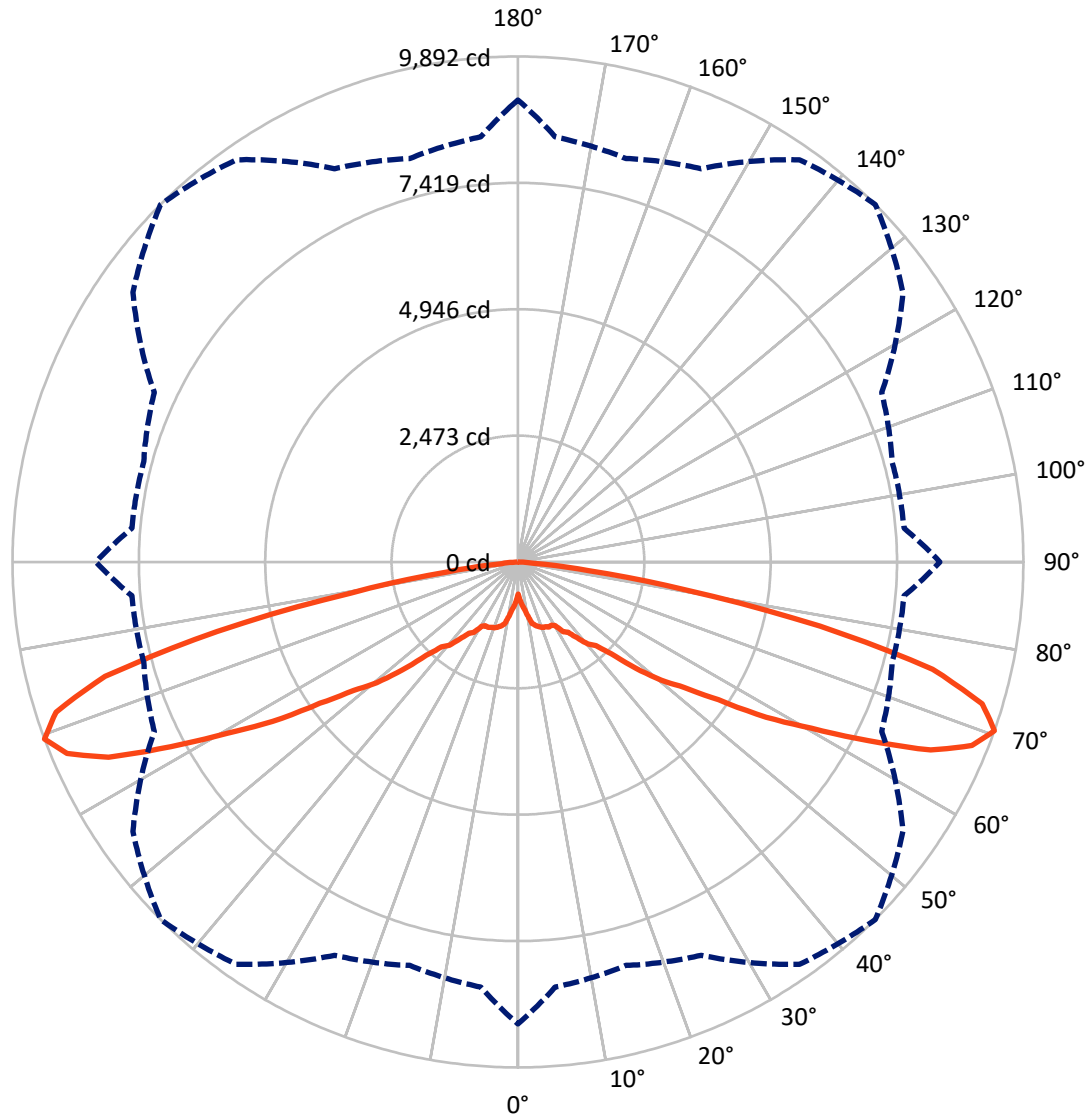
✕ Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical



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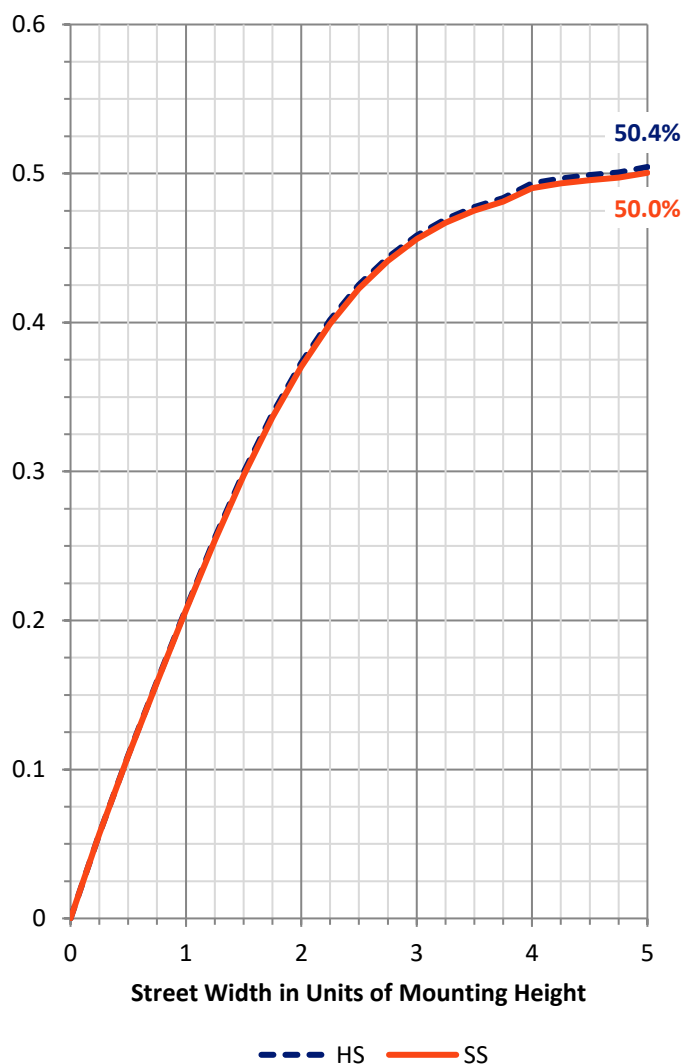
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11633.0	0.0	11633.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11633.0	0.0	11633.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23266.0	0.0	23266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	0.4
10°-20°	366.2	1.6
20°-30°	692.4	3.0
30°-40°	1206.1	5.2
40°-50°	2305.7	9.9
50°-60°	4470.8	19.2
60°-70°	7828.6	33.6
70°-80°	5883.6	25.3
80°-90°	421.0	1.8
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°	23266.0	100.0
0°-180°	23266.0	100.0

Coefficient of Utilization

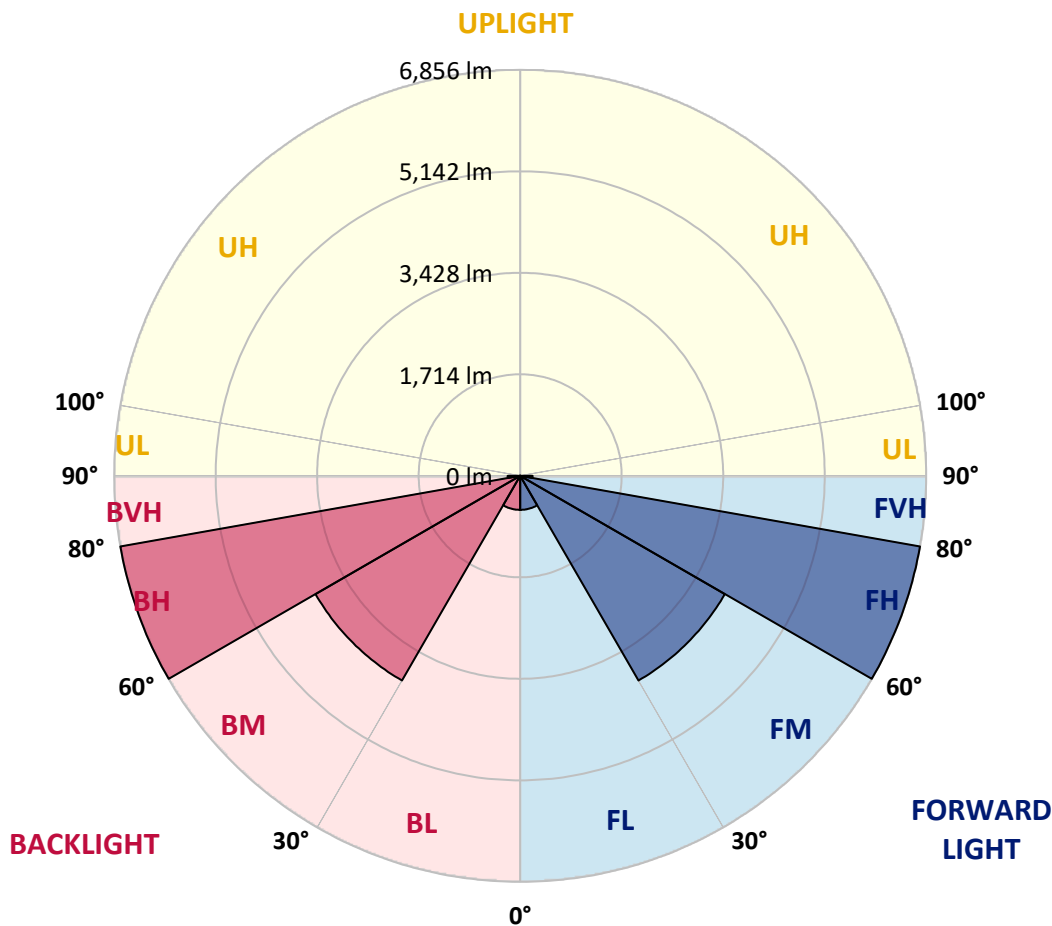


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	575.1	2.5			
FM (30°-60°)	3991.3	17.2			
FH (60°-80°)	6856.1	29.5			G3/7500
FVH (80°-90°)	210.5	0.9			G2/225
BL (0°-30°)	575.1	2.5	B2/1000		
BM (30°-60°)	3991.3	17.2	B3/5000		
BH (60°-80°)	6856.1	29.5	B5		G3/7500
BVH (80°-90°)	210.5	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1	629.1
2.5°	765.4	753.7	716.6	718.5	735.6	737.4	739.2	716.6	711.2	757.3	760.0
5°	972.1	945.0	917.9	907.1	890.8	845.7	895.4	900.8	911.6	946.8	963.0
7.5°	1110.2	1076.8	1039.8	1017.2	973.0	936.0	976.6	1010.0	1031.6	1071.4	1093.9
10°	1136.3	1116.5	1114.7	1075.0	1066.8	1080.4	1077.7	1078.6	1111.1	1112.0	1125.5
12.5°	1218.5	1232.9	1204.9	1191.4	1199.5	1232.9	1205.8	1194.1	1202.2	1239.2	1223.9
15°	1325.9	1343.0	1300.6	1279.0	1257.3	1288.9	1260.9	1281.7	1307.8	1334.9	1321.4
17.5°	1445.0	1445.9	1388.2	1307.8	1326.8	1331.3	1321.4	1304.2	1379.1	1444.1	1437.8
20°	1510.0	1509.1	1409.8	1300.6	1356.6	1366.5	1357.5	1298.8	1411.6	1501.0	1498.3
22.5°	1576.8	1556.9	1437.8	1349.4	1370.1	1378.2	1357.5	1352.1	1437.8	1562.4	1561.5
25°	1612.9	1630.1	1499.2	1444.1	1427.0	1408.0	1426.1	1435.1	1517.2	1639.1	1603.9
27.5°	1725.7	1697.7	1517.2	1511.8	1475.7	1400.8	1463.1	1507.3	1511.8	1708.6	1744.7
30°	1827.7	1838.5	1598.5	1606.6	1540.7	1445.9	1542.5	1612.9	1626.4	1840.4	1836.7
32.5°	1936.0	1940.5	1742.9	1658.9	1631.0	1627.3	1590.3	1651.7	1758.2	1929.7	1936.9
35°	2100.3	2137.3	1871.9	1759.1	1723.9	1687.8	1720.3	1775.4	1874.7	2131.9	2113.8
37.5°	2476.7	2418.0	2152.6	1918.9	1895.4	1881.0	1907.1	1946.9	2149.9	2424.3	2508.3
40°	2739.3	2711.3	2350.3	2183.3	2035.3	2112.9	2051.6	2205.0	2372.9	2713.1	2767.3
42.5°	3146.4	3021.8	2650.9	2444.2	2290.7	2235.7	2270.0	2470.4	2684.3	3063.3	3169.8
45°	3537.2	3344.9	3027.2	2844.9	2612.1	2554.3	2600.3	2835.9	3083.2	3382.9	3570.6
47.5°	3936.1	3737.6	3388.3	3124.7	2934.3	3106.7	2955.9	3179.8	3426.2	3774.6	3941.6
50°	4350.4	4130.2	3785.4	3498.4	3482.1	3634.7	3454.2	3568.8	3797.1	4158.2	4354.9
52.5°	4826.1	4588.7	4243.9	4049.9	4087.8	4077.8	4041.7	4021.0	4245.7	4600.4	4834.2
55°	5392.0	5135.7	4860.4	4771.0	4875.7	4762.9	4816.1	4808.9	4841.4	5095.0	5368.5
57.5°	6076.1	5786.4	5510.2	5490.4	5624.9	5731.4	5636.6	5500.3	5443.4	5689.8	6003.0
60°	6938.1	6582.5	6279.2	6216.9	6600.5	6599.6	6513.9	6208.8	6187.2	6466.1	6843.3
62.5°	7890.3	7457.1	7125.8	7026.6	7627.7	7695.4	7428.2	6881.2	6993.2	7217.9	7665.6
65°	8699.0	8178.2	7869.6	7842.5	8577.2	8875.9	8285.7	7537.4	7573.5	7760.4	8245.0
67.5°	9226.1	8598.8	8353.3	8484.2	9397.6	9584.5	9035.7	7976.1	7847.9	7925.5	8505.0
70°	9041.1	8351.5	8174.6	8492.3	9609.7	9892.2	9197.3	7853.3	7580.7	7584.3	8257.7
72.5°	7639.4	6983.2	7067.2	7650.2	9107.9	9504.1	8449.9	7093.3	6535.6	6522.0	7133.1
75°	5051.7	4613.1	4944.3	5853.2	7571.7	8382.2	7001.3	5559.9	4860.4	4632.9	5105.0
77.5°	2209.5	2153.5	2432.4	3459.6	5161.8	6040.9	5015.6	3632.0	2643.6	2198.7	2401.8
80°	592.1	579.5	727.5	1312.3	2512.8	3326.9	2714.0	1448.6	756.4	550.6	584.0
82.5°	215.7	221.1	269.9	367.3	827.7	1400.8	901.7	423.3	286.1	234.7	234.7
85°	93.9	91.2	130.9	147.1	225.6	316.8	259.0	179.6	144.4	108.3	103.8
87.5°	25.3	31.6	44.2	46.0	58.7	47.8	68.6	63.2	54.2	37.9	30.7
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)