

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: P368537

Luminaire Tested: **MSA-SA4C-760-U-5WQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA4C-760-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: 25812 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

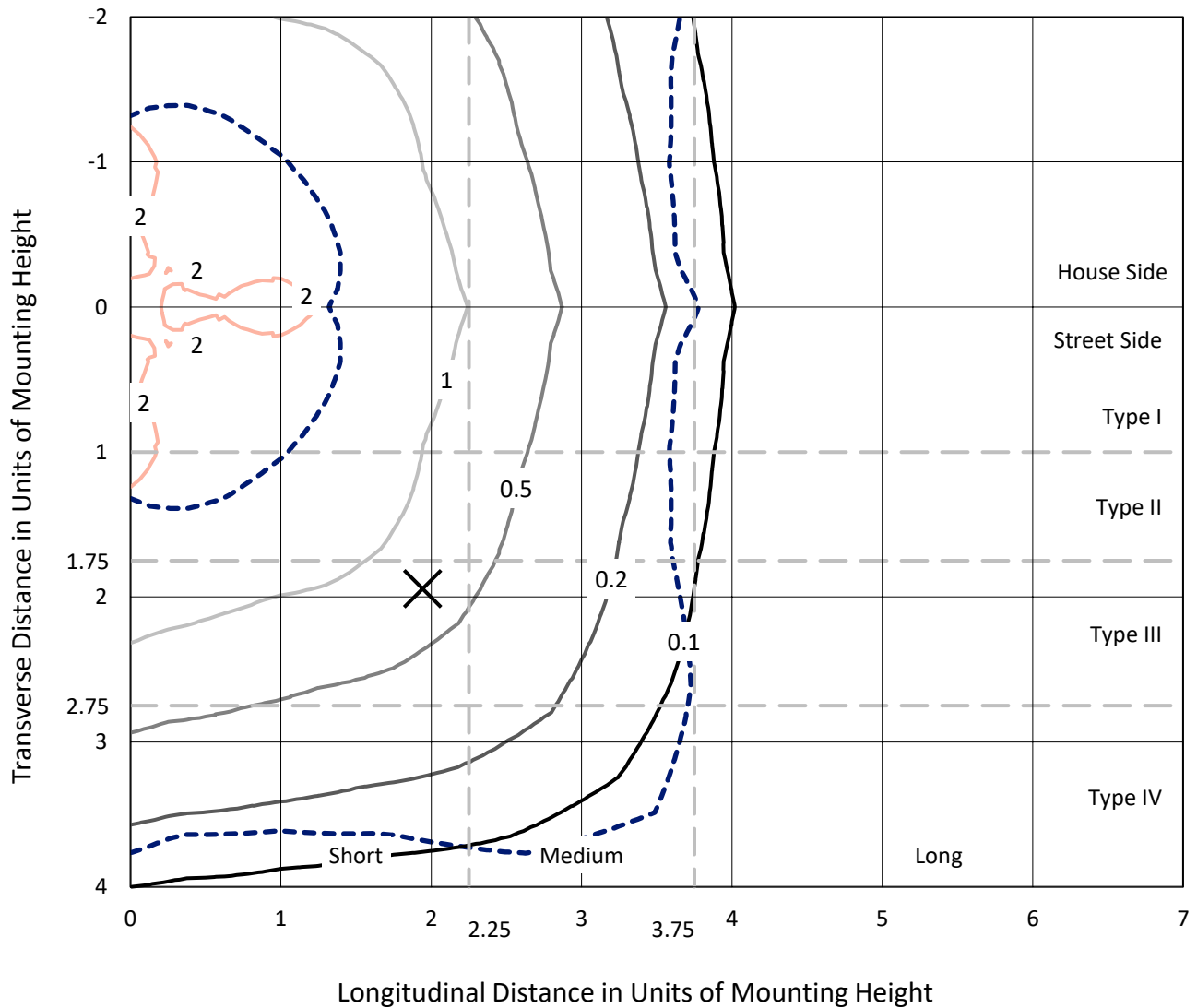
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

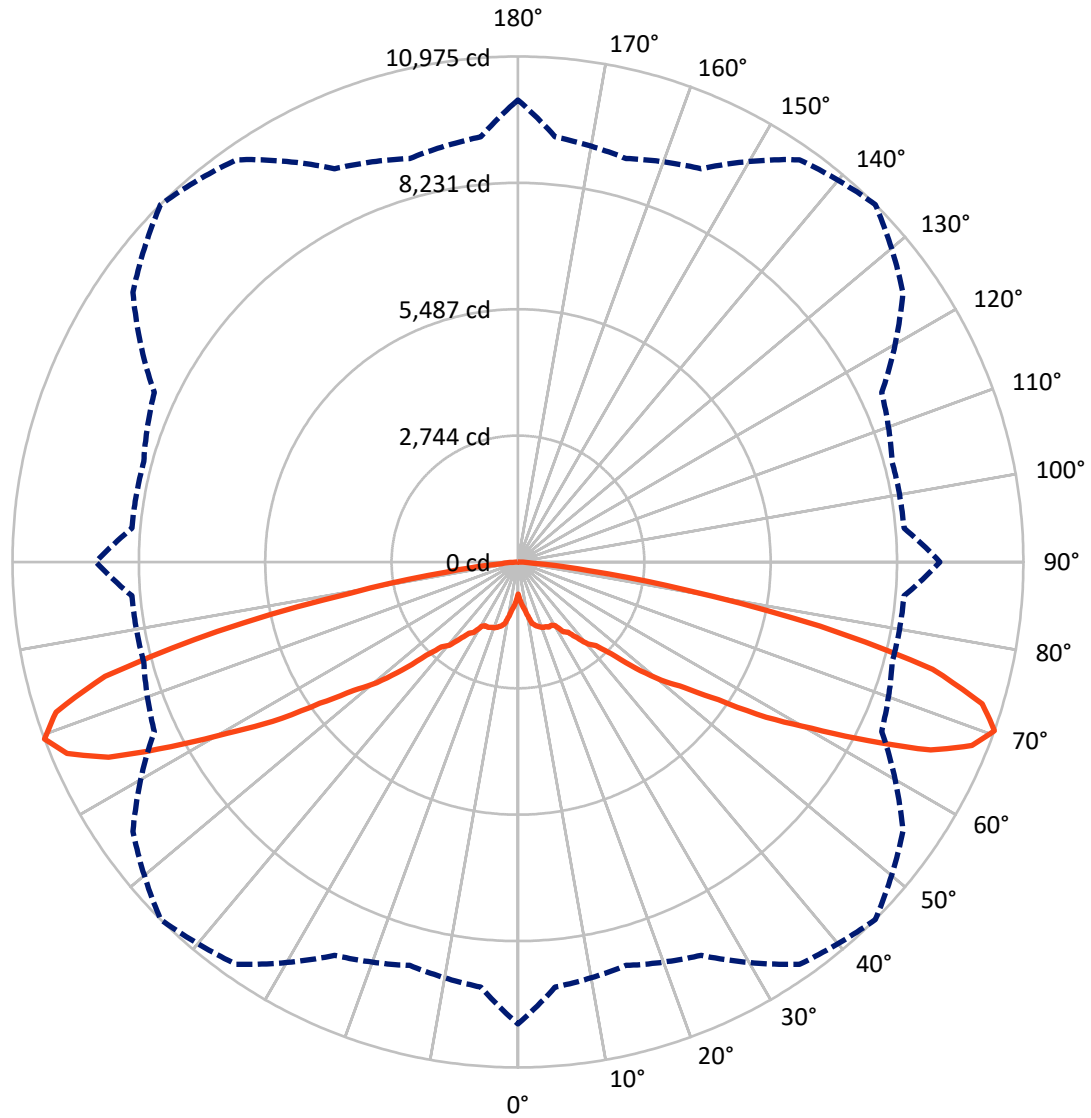
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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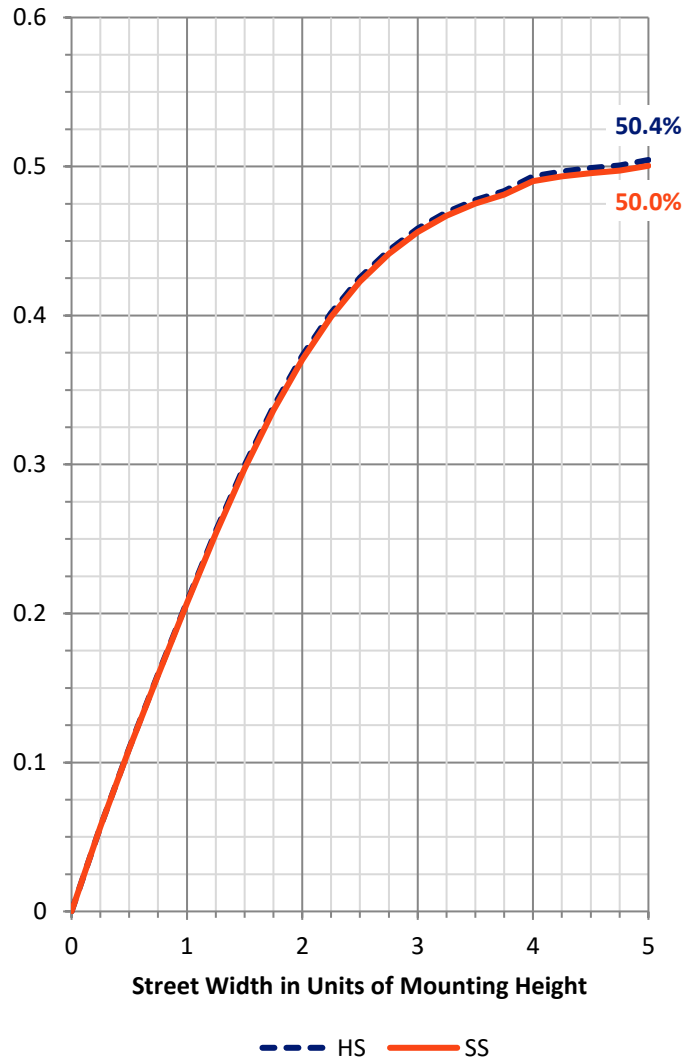
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12906.0	0.0	12906.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12906.0	0.0	12906.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25812.0	0.0	25812.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	0.4
10°-20°	406.3	1.6
20°-30°	768.2	3.0
30°-40°	1338.1	5.2
40°-50°	2558.0	9.9
50°-60°	4960.1	19.2
60°-70°	8685.3	33.6
70°-80°	6527.5	25.3
80°-90°	467.0	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°	25812.0	100.0
0°-180°	25812.0	100.0

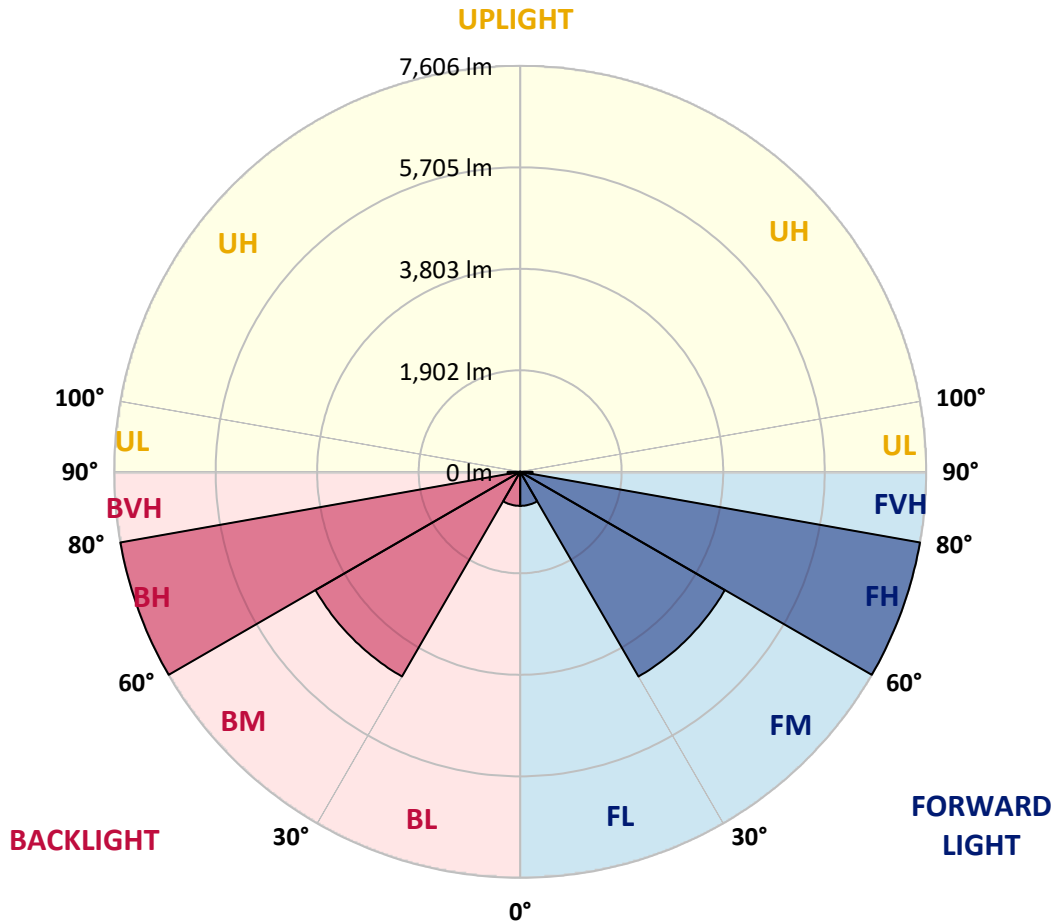


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	638.0	2.5			
FM (30°-60°)	4428.1	17.2			
FH (60°-80°)	7606.4	29.5			G4/12000
FVH (80°-90°)	233.5	0.9			G3/500
BL (0°-30°)	638.0	2.5	B2/1000		
BM (30°-60°)	4428.1	17.2	B3/5000		
BH (60°-80°)	7606.4	29.5	B5		G4/12000
BVH (80°-90°)	233.5	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9	697.9
2.5°	849.1	836.1	795.1	797.1	816.1	818.1	820.1	795.1	789.1	840.1	843.1
5°	1078.4	1048.4	1018.4	1006.4	988.3	938.3	993.3	999.3	1011.4	1050.4	1068.4
7.5°	1231.7	1194.6	1153.5	1128.5	1079.5	1038.4	1083.5	1120.5	1144.5	1188.6	1213.6
10°	1260.7	1238.7	1236.7	1192.6	1183.6	1198.6	1195.6	1196.6	1232.7	1233.7	1248.7
12.5°	1351.8	1367.8	1336.8	1321.8	1330.8	1367.8	1337.8	1324.8	1333.8	1374.8	1357.8
15°	1471.0	1490.0	1442.9	1418.9	1394.9	1429.9	1398.9	1421.9	1450.9	1481.0	1466.0
17.5°	1603.2	1604.2	1540.1	1450.9	1472.0	1477.0	1466.0	1446.9	1530.1	1602.2	1595.1
20°	1675.3	1674.2	1564.1	1442.9	1505.0	1516.0	1506.0	1440.9	1566.1	1665.2	1662.2
22.5°	1749.4	1727.3	1595.1	1497.0	1520.0	1529.1	1506.0	1500.0	1595.1	1733.3	1732.3
25°	1789.4	1808.4	1663.2	1602.2	1583.1	1562.1	1582.1	1592.1	1683.3	1818.4	1779.4
27.5°	1914.6	1883.5	1683.3	1677.3	1637.2	1554.1	1623.2	1672.2	1677.3	1895.5	1935.6
30°	2027.7	2039.7	1773.4	1782.4	1709.3	1604.2	1711.3	1789.4	1804.4	2041.7	2037.7
32.5°	2147.9	2152.9	1933.6	1840.5	1809.4	1805.4	1764.4	1832.5	1950.6	2140.9	2148.9
35°	2330.1	2371.2	2076.8	1951.6	1912.6	1872.5	1908.6	1969.6	2079.8	2365.2	2345.2
37.5°	2747.7	2682.6	2388.2	2128.9	2102.8	2086.8	2115.8	2159.9	2385.2	2689.6	2782.7
40°	3039.1	3008.0	2607.5	2422.3	2258.0	2344.1	2276.1	2446.3	2632.5	3010.0	3070.1
42.5°	3490.7	3352.5	2941.0	2711.6	2541.4	2480.3	2518.4	2740.7	2978.0	3398.6	3516.7
45°	3924.3	3711.0	3358.5	3156.2	2897.9	2833.8	2884.9	3146.2	3420.6	3753.0	3961.3
47.5°	4366.9	4146.6	3759.1	3466.7	3255.4	3446.6	3279.4	3527.7	3801.1	4187.6	4372.9
50°	4826.5	4582.2	4199.6	3881.2	3863.2	4032.4	3832.1	3959.3	4212.7	4613.2	4831.5
52.5°	5354.2	5090.8	4708.3	4493.0	4535.1	4524.1	4484.0	4461.0	4710.3	5103.9	5363.2
55°	5982.0	5697.7	5392.2	5293.1	5409.3	5284.1	5343.2	5335.2	5371.2	5652.6	5956.0
57.5°	6741.1	6419.6	6113.2	6091.2	6240.4	6358.5	6253.4	6102.2	6039.1	6312.5	6659.9
60°	7697.3	7302.8	6966.4	6897.3	7322.8	7321.8	7226.7	6888.3	6864.2	7173.6	7592.2
62.5°	8753.8	8273.1	7905.6	7795.5	8462.4	8537.5	8241.1	7634.3	7758.4	8007.8	8504.4
65°	9651.0	9073.2	8730.7	8700.7	9515.8	9847.2	9192.4	8362.2	8402.3	8609.6	9147.3
67.5°	10235.8	9539.8	9267.5	9412.6	10426.0	10633.3	10024.5	8848.9	8706.7	8792.8	9435.7
70°	10030.5	9265.4	9069.2	9421.7	10661.3	10974.7	10203.7	8712.7	8410.3	8414.3	9161.3
72.5°	8475.4	7747.4	7840.5	8487.4	10104.6	10544.2	9374.6	7869.6	7250.7	7235.7	7913.6
75°	5604.5	5117.9	5485.4	6493.7	8400.3	9299.5	7767.4	6168.3	5392.2	5139.9	5663.6
77.5°	2451.3	2389.2	2698.6	3838.2	5726.7	6702.0	5564.5	4029.4	2932.9	2439.3	2664.6
80°	656.9	642.9	807.1	1456.0	2787.7	3691.0	3011.0	1607.2	839.1	610.8	647.9
82.5°	239.3	245.3	299.4	407.5	918.2	1554.1	1000.3	469.6	317.4	260.3	260.3
85°	104.1	101.1	145.2	163.2	250.3	351.5	287.4	199.3	160.2	120.2	115.2
87.5°	28.0	35.0	49.1	51.1	65.1	53.1	76.1	70.1	60.1	42.1	34.0
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)