

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: P596895

Luminaire Tested: **MSA-SA1D-835-U-5WQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596895
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-SA1D-835-U-5WQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6065 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

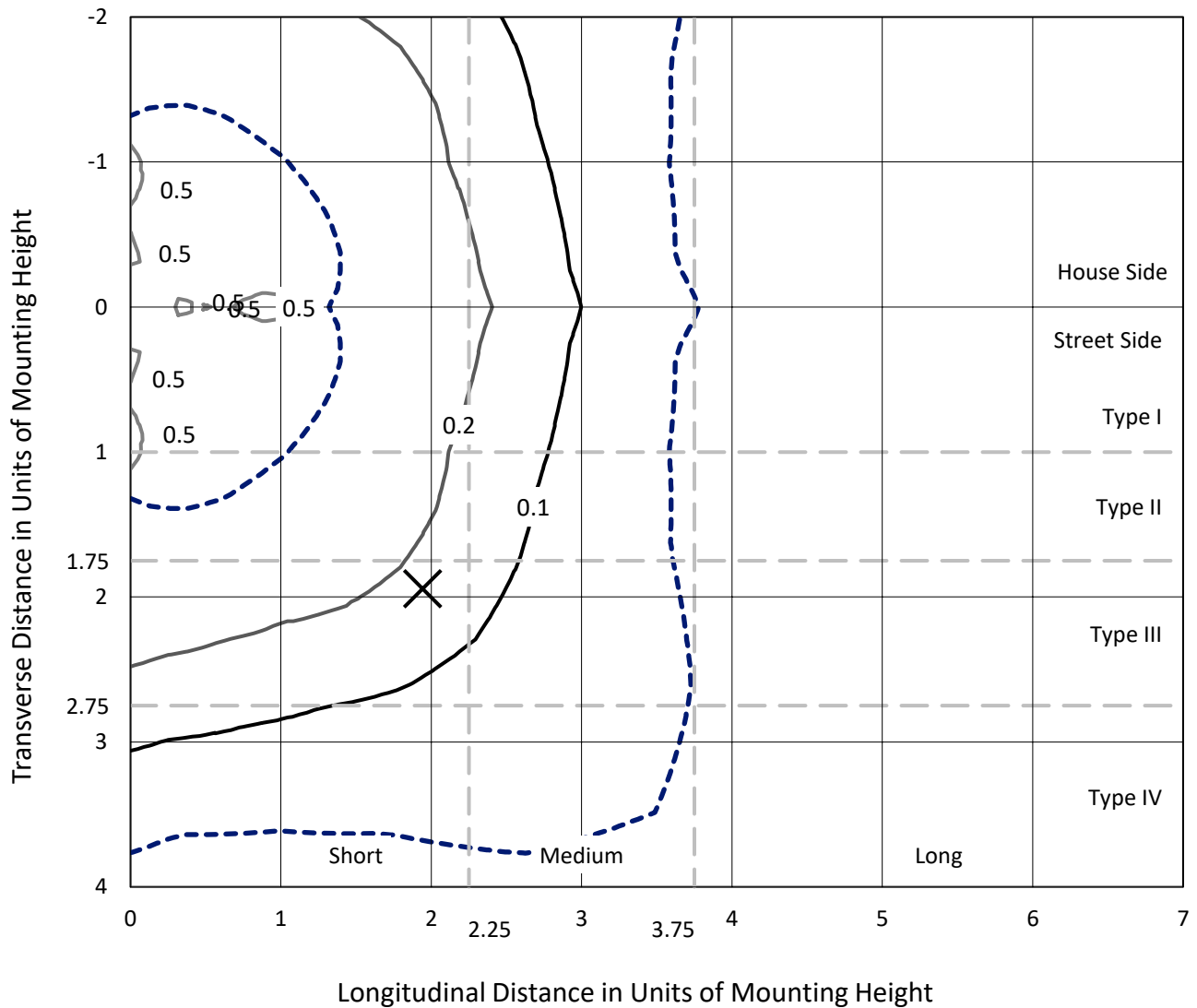
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

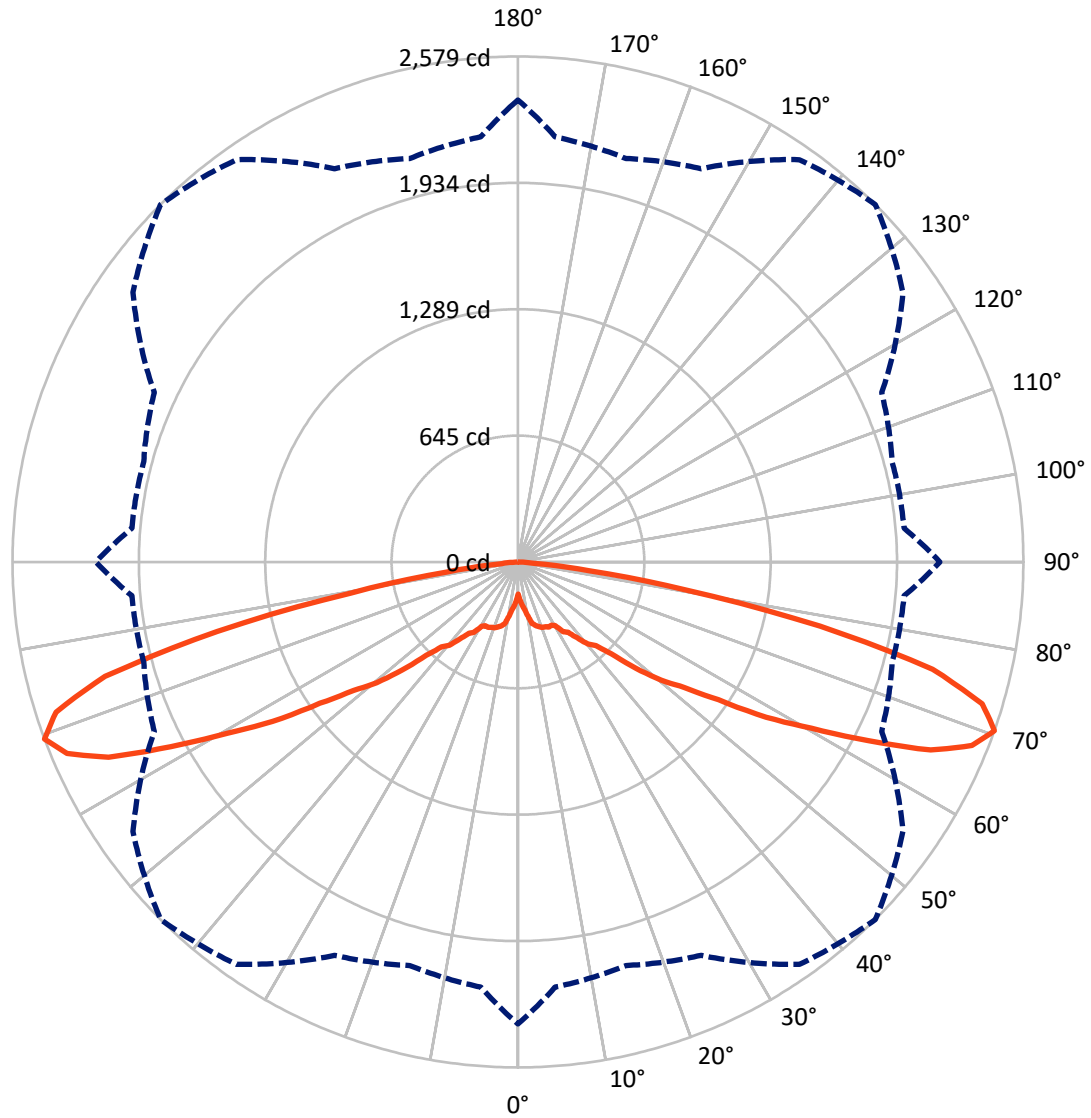
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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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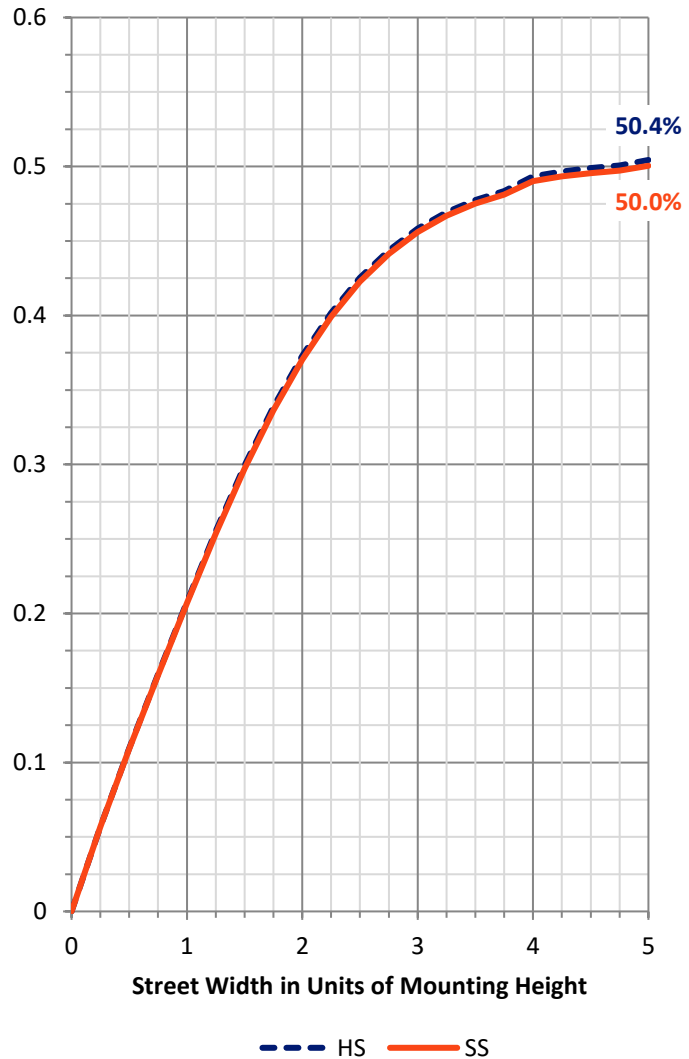
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3032.5	0.0	3032.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3032.5	0.0	3032.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6065.0	0.0	6065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.8	0.4
10°-20°	95.5	1.6
20°-30°	180.5	3.0
30°-40°	314.4	5.2
40°-50°	601.1	9.9
50°-60°	1165.5	19.2
60°-70°	2040.8	33.6
70°-80°	1533.8	25.3
80°-90°	109.7	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°	6065.0	100.0
0°-180°	6065.0	100.0

Coefficient of Utilization



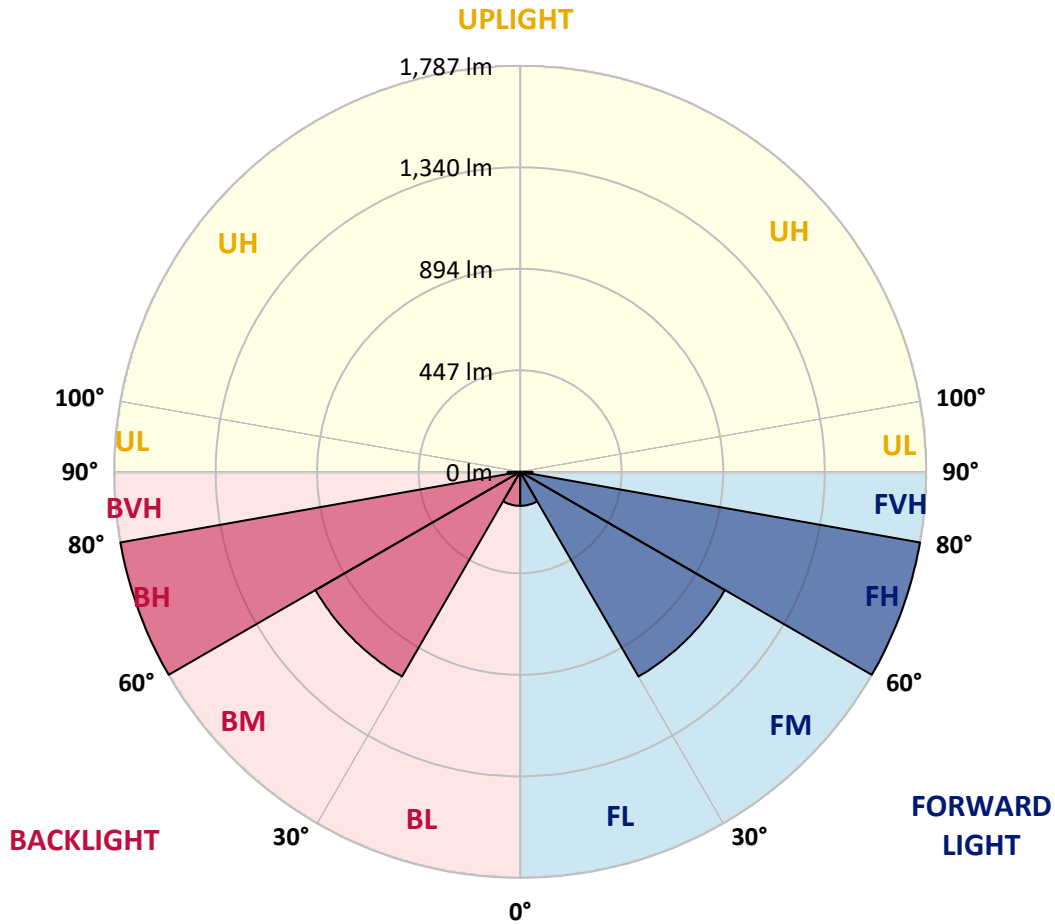
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	149.9	2.5			
FM (30°-60°)	1040.5	17.2			
FH (60°-80°)	1787.3	29.5			G1/1800
FVH (80°-90°)	54.9	0.9			G1/100
BL (0°-30°)	149.9	2.5	B1/500		
BM (30°-60°)	1040.5	17.2	B2/2500		
BH (60°-80°)	1787.3	29.5	B3/2500		G1/1800
BVH (80°-90°)	54.9	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0	164.0
2.5°	199.5	196.5	186.8	187.3	191.8	192.2	192.7	186.8	185.4	197.4	198.1
5°	253.4	246.3	239.3	236.5	232.2	220.5	233.4	234.8	237.6	246.8	251.0
7.5°	289.4	280.7	271.0	265.2	253.6	244.0	254.6	263.3	268.9	279.3	285.2
10°	296.2	291.0	290.6	280.2	278.1	281.6	280.9	281.2	289.6	289.9	293.4
12.5°	317.6	321.4	314.1	310.6	312.7	321.4	314.3	311.3	313.4	323.0	319.0
15°	345.6	350.1	339.0	333.4	327.8	336.0	328.7	334.1	340.9	348.0	344.5
17.5°	376.7	376.9	361.9	340.9	345.9	347.0	344.5	340.0	359.5	376.5	374.8
20°	393.6	393.4	367.5	339.0	353.6	356.2	353.9	338.6	368.0	391.3	390.6
22.5°	411.0	405.9	374.8	351.8	357.2	359.3	353.9	352.5	374.8	407.3	407.0
25°	420.5	424.9	390.8	376.5	372.0	367.0	371.7	374.1	395.5	427.3	418.1
27.5°	449.9	442.6	395.5	394.1	384.7	365.2	381.4	392.9	394.1	445.4	454.8
30°	476.5	479.3	416.7	418.8	401.6	376.9	402.1	420.5	424.0	479.7	478.8
32.5°	504.7	505.9	454.3	432.5	425.2	424.2	414.6	430.6	458.3	503.0	504.9
35°	547.5	557.2	488.0	458.6	449.4	440.0	448.5	462.8	488.7	555.7	551.0
37.5°	645.6	630.3	561.2	500.2	494.1	490.3	497.2	507.5	560.4	632.0	653.9
40°	714.1	706.8	612.7	569.2	530.6	550.8	534.8	574.8	618.6	707.3	721.4
42.5°	820.2	787.7	691.0	637.2	597.2	582.8	591.7	644.0	699.7	798.6	826.3
45°	922.1	872.0	789.1	741.6	680.9	665.9	677.9	739.3	803.7	881.8	930.8
47.5°	1026.1	974.3	883.3	814.6	764.9	809.8	770.6	828.9	893.1	984.0	1027.5
50°	1134.1	1076.7	986.8	912.0	907.7	947.5	900.4	930.3	989.8	1084.0	1135.2
52.5°	1258.1	1196.2	1106.3	1055.7	1065.6	1063.0	1053.6	1048.2	1106.8	1199.2	1260.2
55°	1405.6	1338.8	1267.0	1243.7	1271.0	1241.6	1255.5	1253.6	1262.1	1328.2	1399.5
57.5°	1583.9	1508.4	1436.4	1431.2	1466.3	1494.1	1469.4	1433.8	1419.0	1483.2	1564.9
60°	1808.6	1715.9	1636.9	1620.6	1720.6	1720.4	1698.0	1618.5	1612.9	1685.6	1783.9
62.5°	2056.9	1943.9	1857.6	1831.7	1988.4	2006.0	1936.4	1793.8	1823.0	1881.6	1998.3
65°	2267.7	2131.9	2051.4	2044.4	2235.9	2313.8	2159.9	1964.9	1974.3	2023.0	2149.3
67.5°	2405.1	2241.6	2177.6	2211.7	2449.8	2498.5	2355.4	2079.2	2045.8	2066.0	2217.1
70°	2356.8	2177.1	2131.0	2213.8	2505.1	2578.7	2397.5	2047.2	1976.2	1977.1	2152.6
72.5°	1991.4	1820.4	1842.3	1994.3	2374.3	2477.5	2202.7	1849.1	1703.7	1700.2	1859.5
75°	1316.9	1202.5	1288.9	1525.8	1973.8	2185.1	1825.1	1449.4	1267.0	1207.7	1330.8
77.5°	576.0	561.4	634.1	901.8	1345.6	1574.8	1307.5	946.8	689.1	573.2	626.1
80°	154.3	151.1	189.6	342.1	655.0	867.3	707.5	377.6	197.2	143.5	152.2
82.5°	56.2	57.6	70.4	95.8	215.8	365.2	235.0	110.3	74.6	61.2	61.2
85°	24.5	23.8	34.1	38.4	58.8	82.6	67.5	46.8	37.6	28.2	27.1
87.5°	6.6	8.2	11.5	12.0	15.3	12.5	17.9	16.5	14.1	9.9	8.0
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)