

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: P596828

Luminaire Tested: **MSA-SA1A-835-U-5NQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596828
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-SA1A-835-U-5NQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3409 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

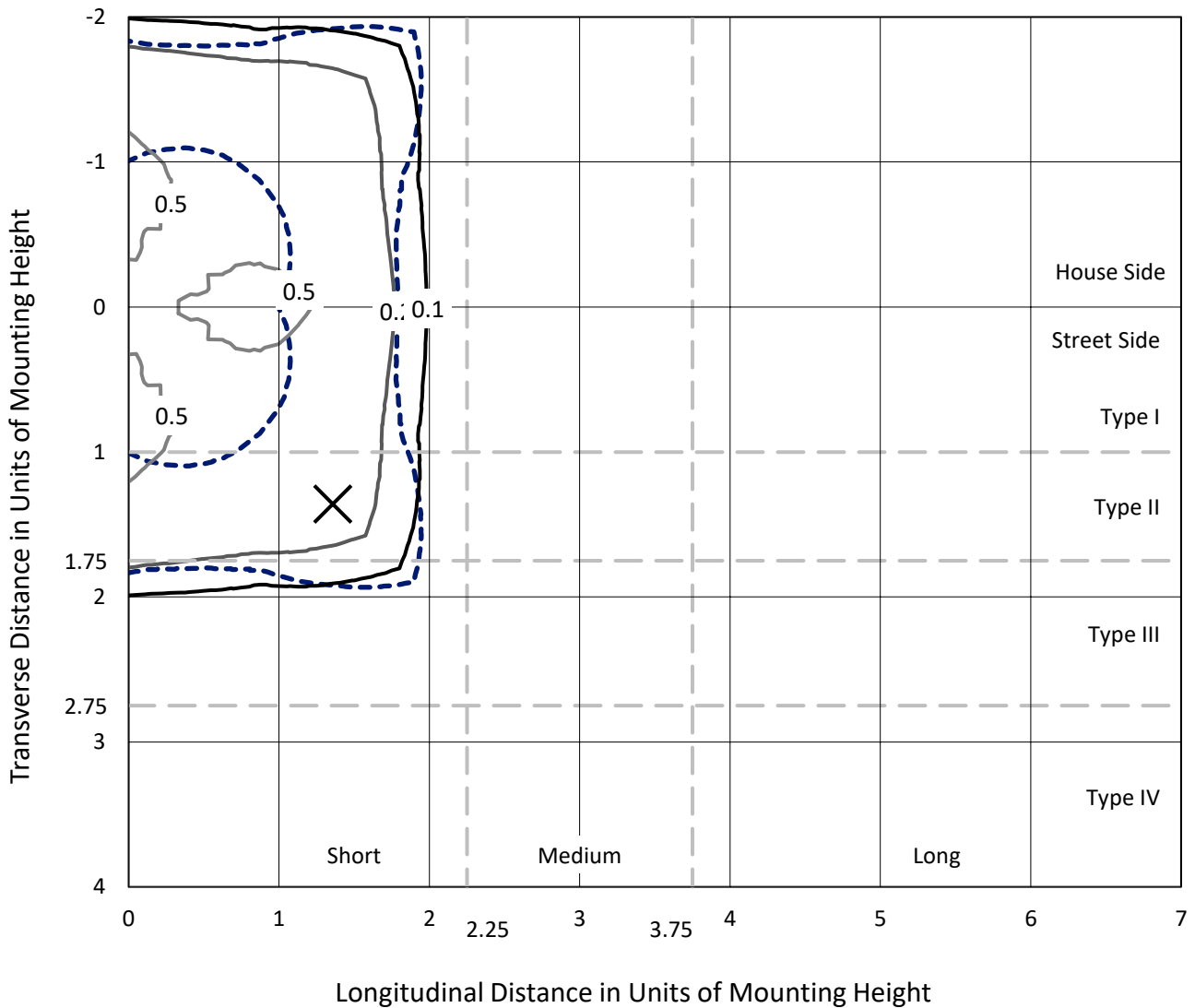
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

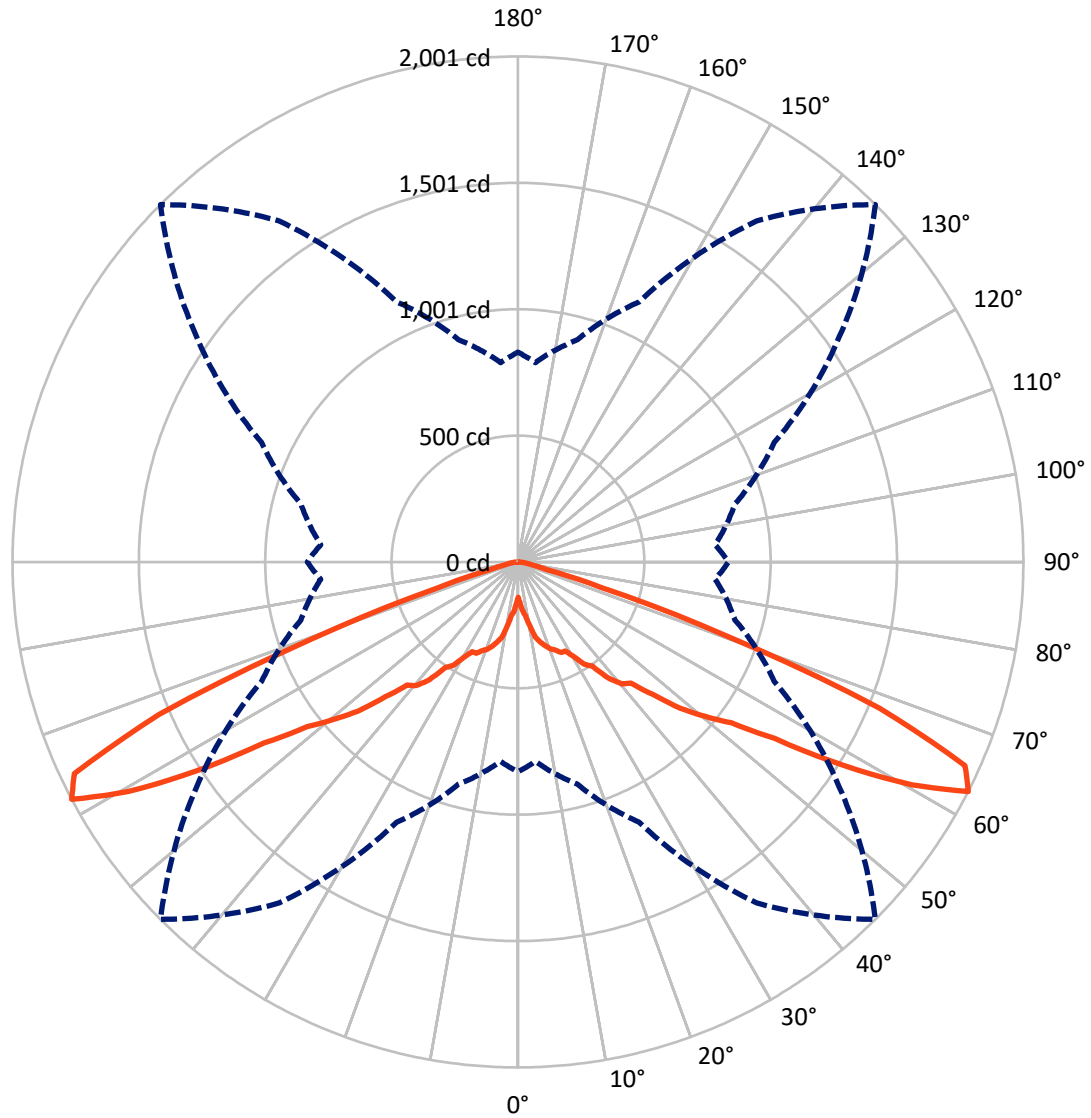
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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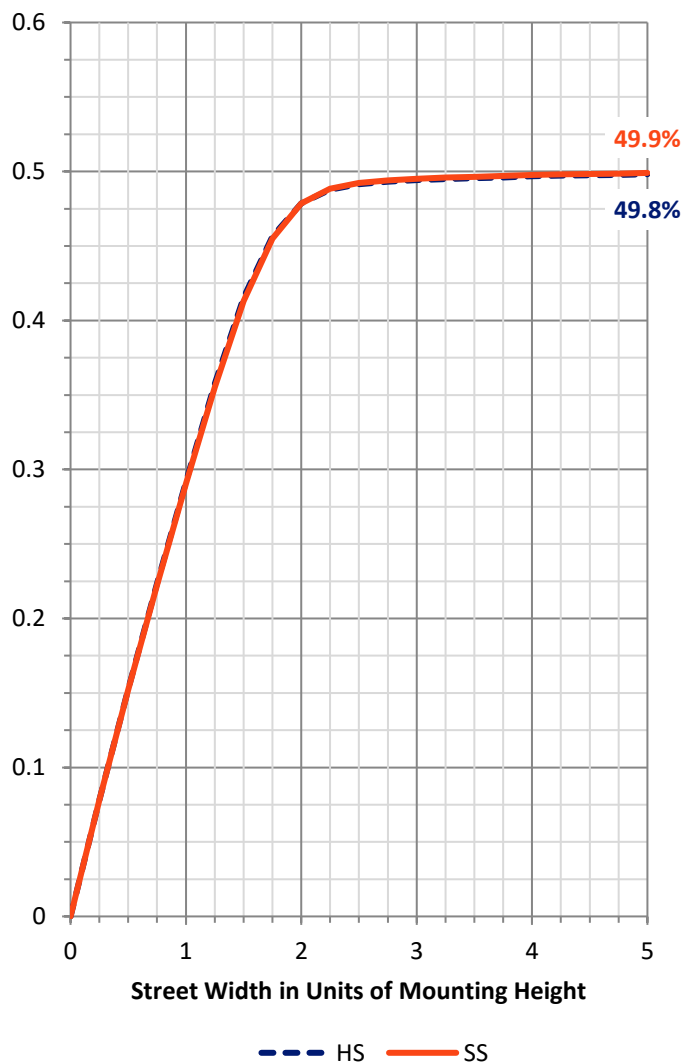
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1704.5	0.0	1704.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1704.5	0.0	1704.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3409.0	0.0	3409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.0	0.6
10°-20°	92.6	2.7
20°-30°	194.1	5.7
30°-40°	365.8	10.7
40°-50°	663.9	19.5
50°-60°	1121.7	32.9
60°-70°	838.6	24.6
70°-80°	93.8	2.8
80°-90°	17.5	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°	3409.0	100.0
0°-180°	3409.0	100.0

Coefficient of Utilization



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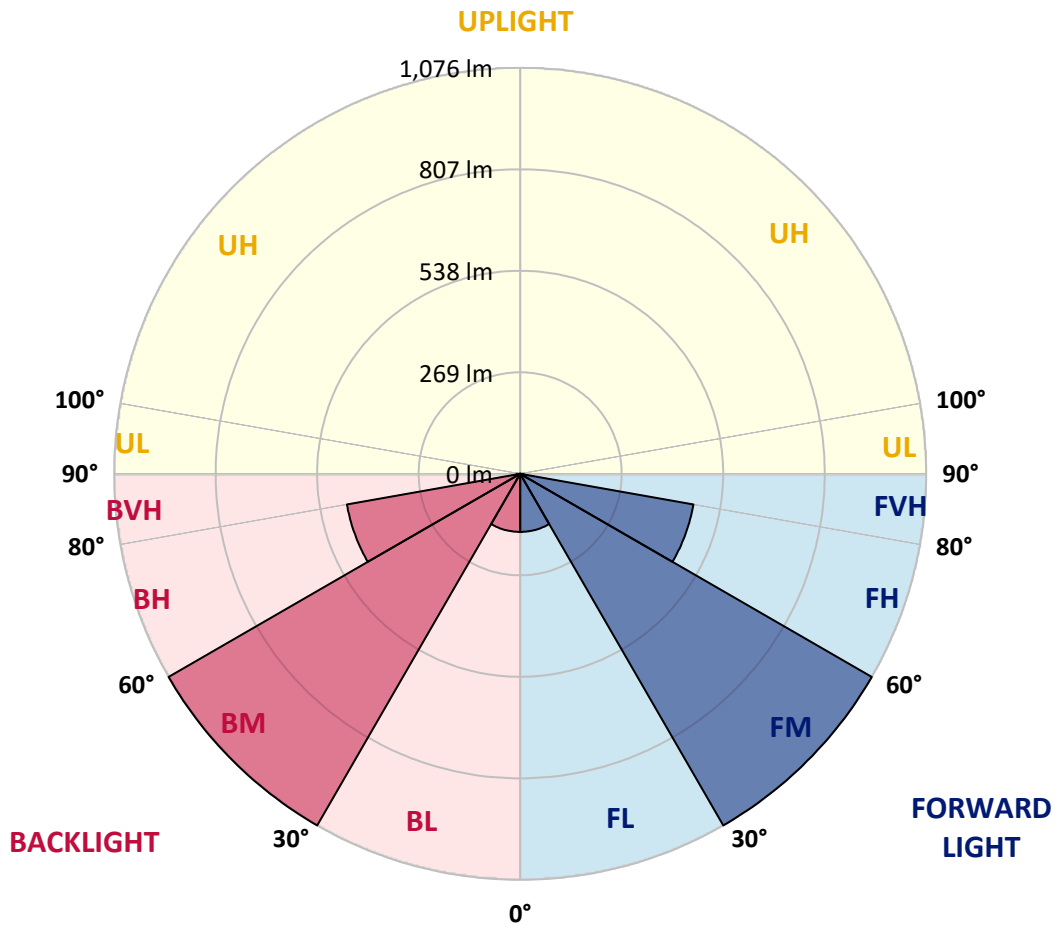
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.9	4.5			
FM (30°-60°)	1075.7	31.6			
FH (60°-80°)	466.2	13.7			G0/660
FVH (80°-90°)	8.7	0.3			G0/10
BL (0°-30°)	153.9	4.5	B1/500		
BM (30°-60°)	1075.7	31.6	B2/2500		
BH (60°-80°)	466.2	13.7	B1/500		G0/660
BVH (80°-90°)	8.7	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4
2.5°	169.5	166.4	155.8	159.5	163.4	162.8	161.9	158.9	156.3	167.3	169.5
5°	216.1	209.1	205.4	202.4	201.7	194.2	204.4	203.3	206.8	212.6	218.3
7.5°	253.3	246.7	236.9	234.8	223.6	215.2	224.1	235.1	238.5	249.2	255.6
10°	266.8	261.2	263.0	253.7	253.1	255.5	253.5	256.0	265.2	263.9	268.6
12.5°	297.4	298.3	292.5	290.1	294.9	305.1	296.4	293.3	291.1	300.5	303.5
15°	325.9	331.6	322.0	320.5	318.6	328.1	318.7	323.3	327.3	329.3	328.1
17.5°	366.4	366.7	356.0	339.0	345.3	348.4	344.2	336.3	355.3	364.9	365.5
20°	393.1	394.0	372.9	346.3	364.3	367.1	365.0	348.5	373.8	389.7	389.0
22.5°	421.8	418.4	389.9	370.4	376.8	378.5	374.1	372.0	389.7	418.7	414.4
25°	441.0	447.1	418.7	406.2	400.8	396.9	402.6	403.7	421.9	448.3	433.7
27.5°	487.1	476.5	432.0	436.7	425.2	399.0	424.0	437.7	433.8	478.8	489.7
30°	528.0	528.3	465.9	474.9	453.5	432.3	459.3	479.2	474.3	531.9	521.5
32.5°	580.3	582.2	524.3	500.1	485.7	481.7	478.3	500.3	530.5	577.1	578.1
35°	636.7	653.4	574.6	549.2	524.7	506.9	526.1	556.4	576.1	650.6	637.4
37.5°	746.7	718.7	654.2	606.5	590.8	583.8	593.9	611.5	654.1	718.3	740.9
40°	811.8	804.0	716.2	676.3	615.8	634.7	629.1	677.4	712.6	808.4	810.5
42.5°	911.2	872.1	793.2	742.4	688.0	655.3	690.0	754.8	797.3	878.3	916.6
45°	989.8	939.6	878.7	840.2	771.5	747.3	759.8	842.7	896.1	951.7	1002.0
47.5°	1076.8	1022.4	961.5	893.0	826.0	865.6	843.5	916.5	968.6	1048.4	1095.5
50°	1186.1	1125.9	1048.0	991.4	947.0	960.9	957.4	1009.4	1073.7	1146.4	1200.0
52.5°	1306.5	1238.4	1163.2	1110.6	1091.9	1057.5	1102.5	1123.8	1171.2	1237.8	1300.6
55°	1390.7	1322.6	1277.1	1294.0	1289.0	1233.8	1273.2	1275.4	1252.5	1276.5	1339.8
57.5°	1377.6	1312.6	1306.3	1370.3	1465.8	1519.2	1458.3	1327.4	1241.7	1230.5	1297.5
60°	1204.5	1148.9	1206.1	1350.3	1628.7	1791.2	1556.8	1288.2	1147.0	1088.6	1153.2
62.5°	830.1	792.5	910.9	1136.4	1648.2	2001.0	1553.2	1119.4	889.6	783.6	833.8
65°	393.5	379.9	479.9	720.5	1372.9	1945.0	1357.0	757.4	512.0	409.0	420.4
67.5°	148.0	141.2	176.1	318.3	864.7	1542.7	912.2	373.6	198.1	153.9	159.2
70°	84.0	79.2	83.8	116.1	348.1	873.8	393.5	128.2	84.2	76.7	81.7
72.5°	66.2	62.4	63.1	70.2	120.1	343.0	127.3	73.1	61.2	58.1	62.5
75°	54.6	51.3	51.2	55.1	70.0	111.4	72.0	55.9	49.5	47.3	50.9
77.5°	43.4	41.5	42.0	45.1	50.2	62.3	52.1	45.2	40.6	38.0	40.5
80°	31.8	31.5	33.7	36.5	37.4	41.9	39.1	36.5	32.5	28.7	29.7
82.5°	20.8	20.9	25.1	27.3	26.9	26.8	28.0	27.9	24.3	19.0	19.0
85°	11.9	12.2	15.4	17.2	16.9	13.5	17.8	17.9	15.5	11.5	11.1
87.5°	3.9	4.9	6.7	7.1	6.8	3.7	6.8	7.5	6.8	4.9	4.3
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)