

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: P596475

Luminaire Tested: **MSA-SA1A-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA1A-827-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3200 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

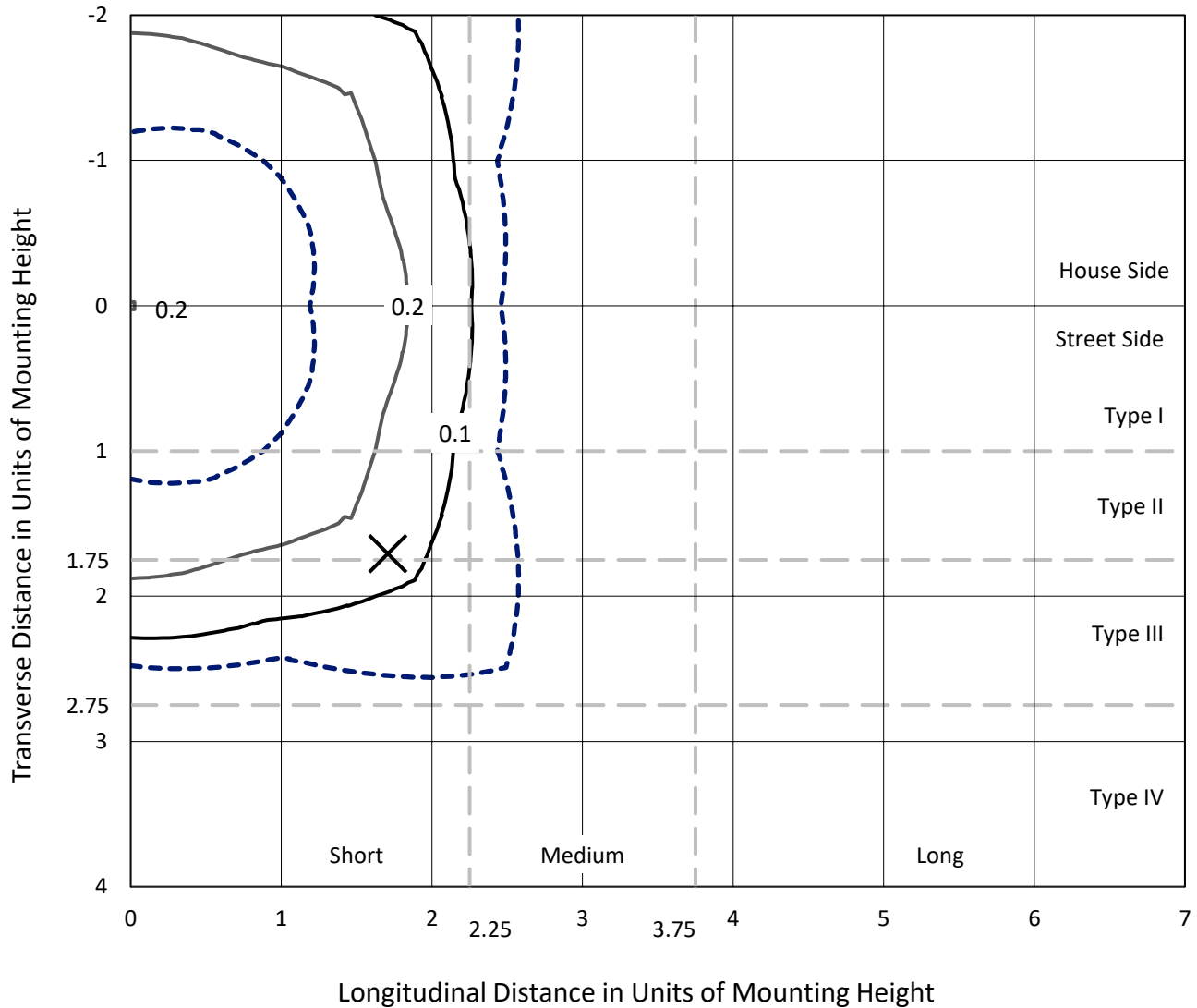
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

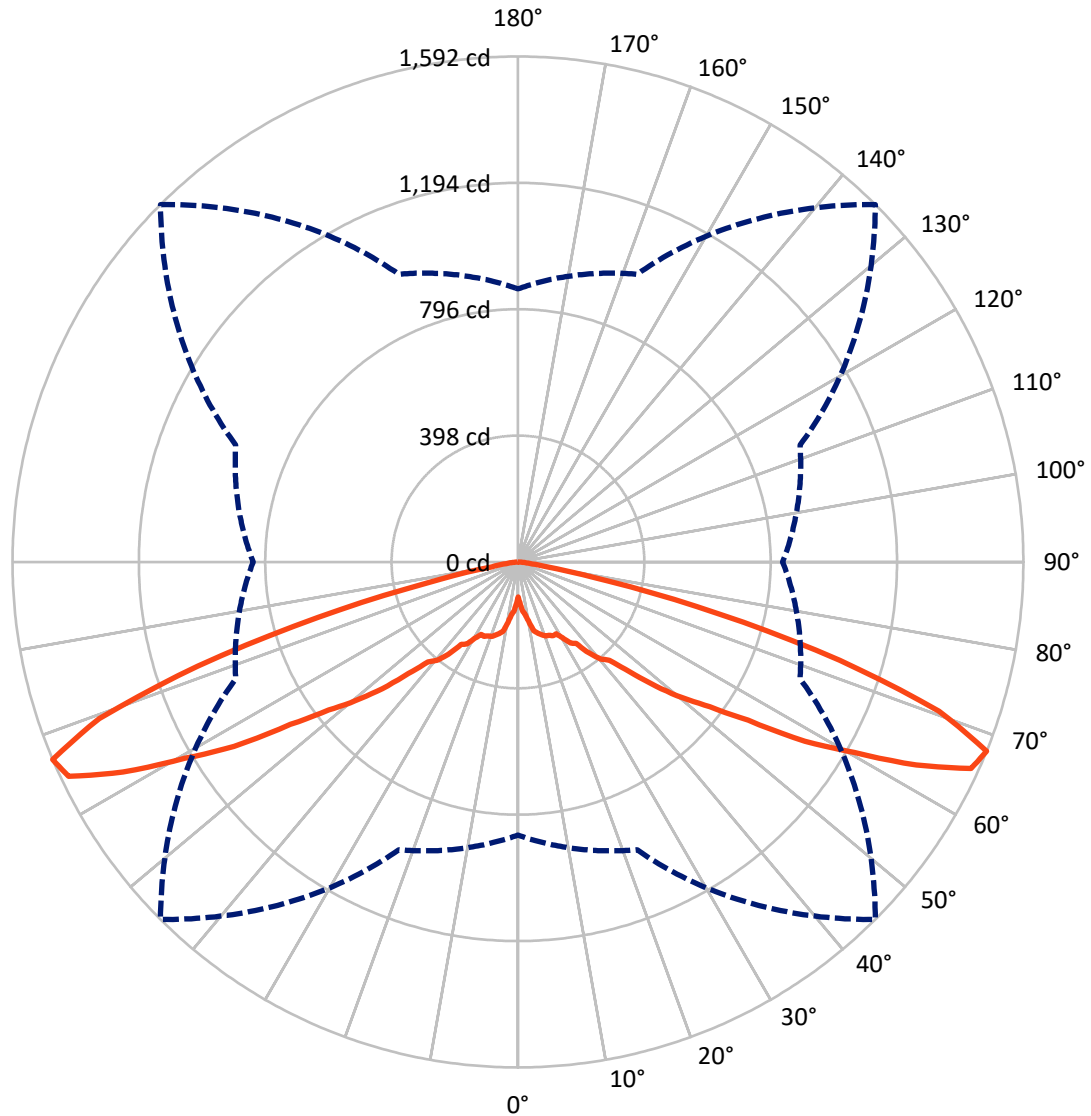
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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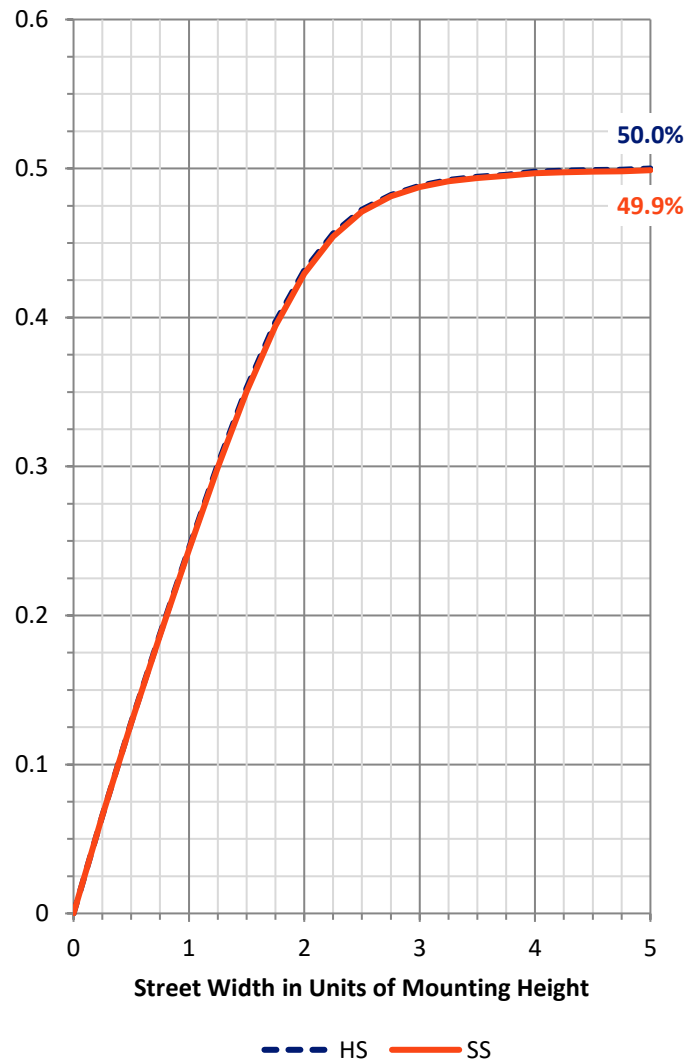
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1600.0	0.0	1600.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1600.0	0.0	1600.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3200.0	0.0	3200.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.4	0.5
10°-20°	64.7	2.0
20°-30°	123.4	3.9
30°-40°	225.5	7.0
40°-50°	437.3	13.7
50°-60°	835.1	26.1
60°-70°	1128.3	35.3
70°-80°	350.4	11.0
80°-90°	18.9	0.6
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°	3200.0	100.0
0°-180°	3200.0	100.0



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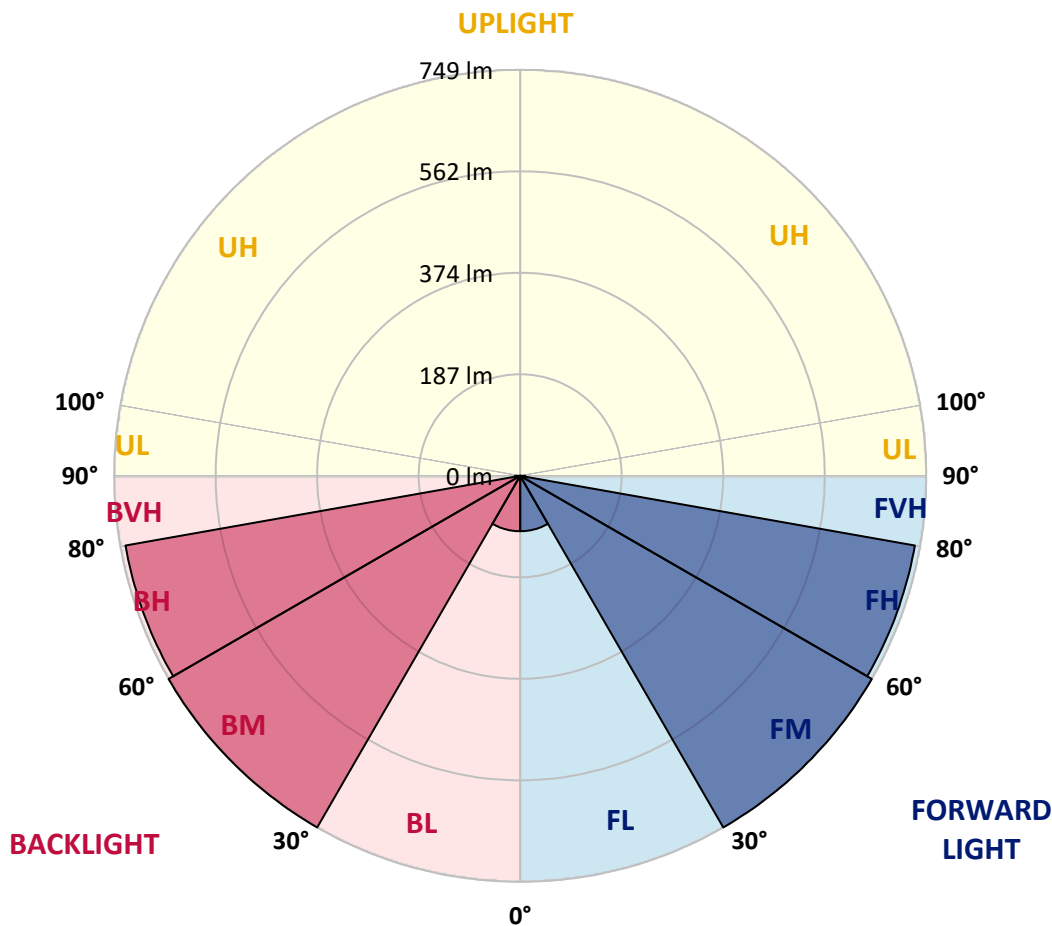
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	102.2	3.2			
FM (30°-60°)	749.0	23.4			
FH (60°-80°)	739.4	23.1			G1/1800
FVH (80°-90°)	9.4	0.3			G0/10
BL (0°-30°)	102.2	3.2	B0/110		
BM (30°-60°)	749.0	23.4	B1/1000		
BH (60°-80°)	739.4	23.1	B2/1000		G1/1800
BVH (80°-90°)	9.4	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	109.7	109.7	109.7	109.7	109.7
2.5°	135.0	126.3	130.3	126.3	135.0
5°	171.6	162.6	154.7	160.3	172.1
7.5°	197.2	183.7	167.0	182.2	196.1
10°	201.5	194.0	193.2	193.1	201.0
12.5°	217.7	212.6	222.8	213.1	218.2
15°	230.3	227.5	232.0	231.1	230.8
17.5°	249.8	230.6	240.9	229.4	249.2
20°	258.5	231.2	248.6	229.8	258.4
22.5°	269.1	245.8	251.0	246.4	268.1
25°	275.2	255.2	257.0	255.4	275.3
27.5°	300.0	275.9	256.2	279.3	304.6
30°	319.0	289.4	276.4	289.8	321.3
32.5°	346.3	309.6	304.5	314.5	350.6
35°	380.1	343.4	315.0	343.6	387.3
37.5°	446.5	374.2	364.2	385.1	451.5
40°	493.4	422.8	401.4	430.6	501.4
42.5°	565.3	477.3	423.0	481.3	577.7
45°	632.3	543.5	492.0	548.0	641.4
47.5°	703.2	604.2	584.9	609.8	709.9
50°	786.9	686.4	672.9	692.8	789.7
52.5°	885.7	796.4	756.6	800.1	886.6
55°	1003.0	888.7	879.8	898.9	1004.5
57.5°	1117.7	1008.4	1065.5	1009.5	1097.8
60°	1199.5	1118.7	1218.2	1090.3	1155.4
62.5°	1204.7	1200.4	1408.3	1152.2	1143.0
65°	1092.5	1167.4	1567.6	1129.7	1037.6
67.5°	859.9	980.7	1591.7	961.7	833.6
70°	540.4	679.1	1407.1	705.2	555.7
72.5°	249.2	365.9	1059.6	411.9	263.4
75°	89.3	140.1	653.7	150.5	93.3
77.5°	50.7	56.7	288.9	57.0	52.4
80°	32.6	35.4	83.4	37.3	31.8
82.5°	18.5	24.7	36.6	26.2	17.1
85°	10.0	15.7	16.2	16.1	10.0
87.5°	3.6	6.2	3.6	7.0	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)