

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: P596739

Luminaire Tested: **MSA-SA4A-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596739
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-SA4A-827-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12275 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

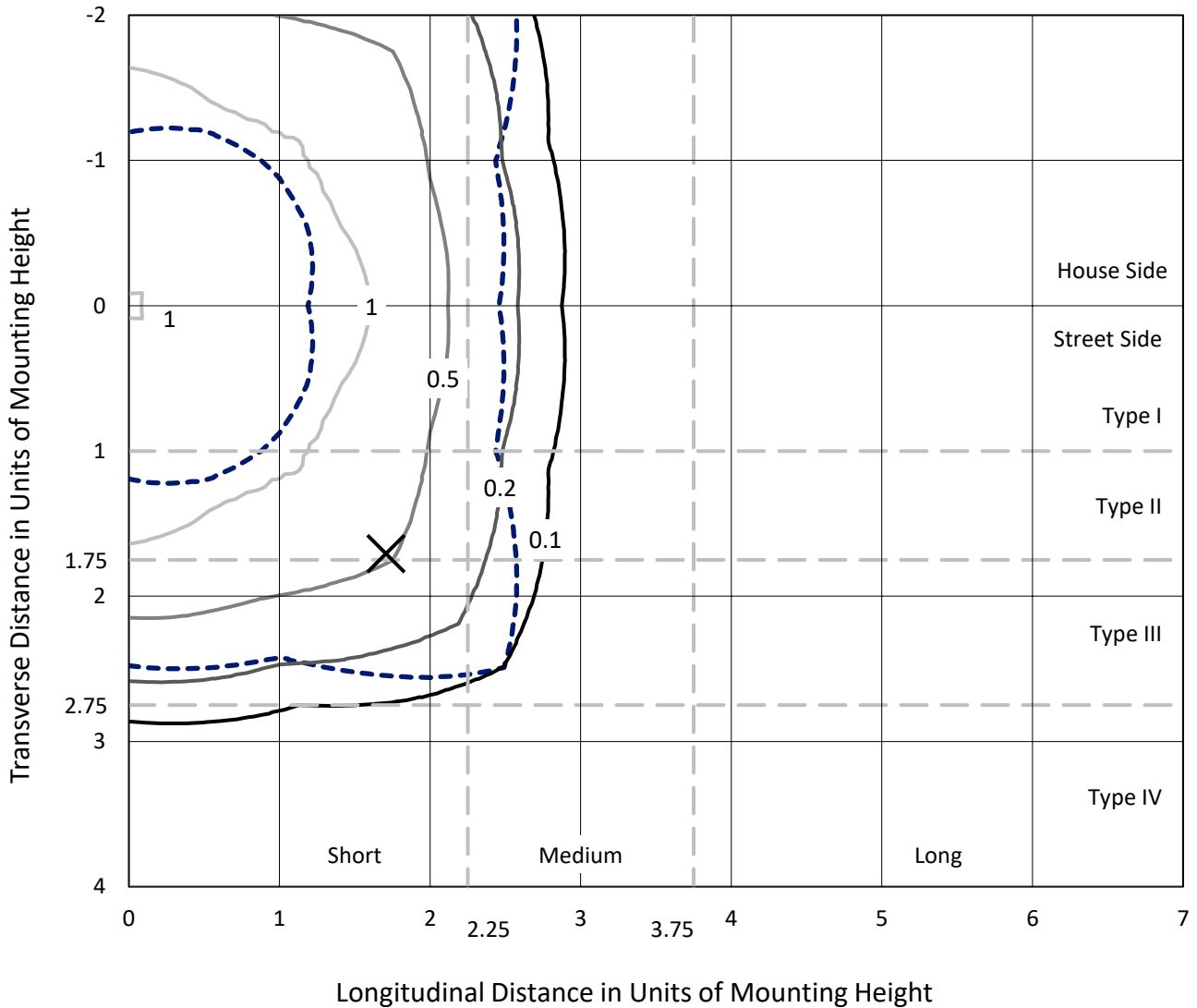
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

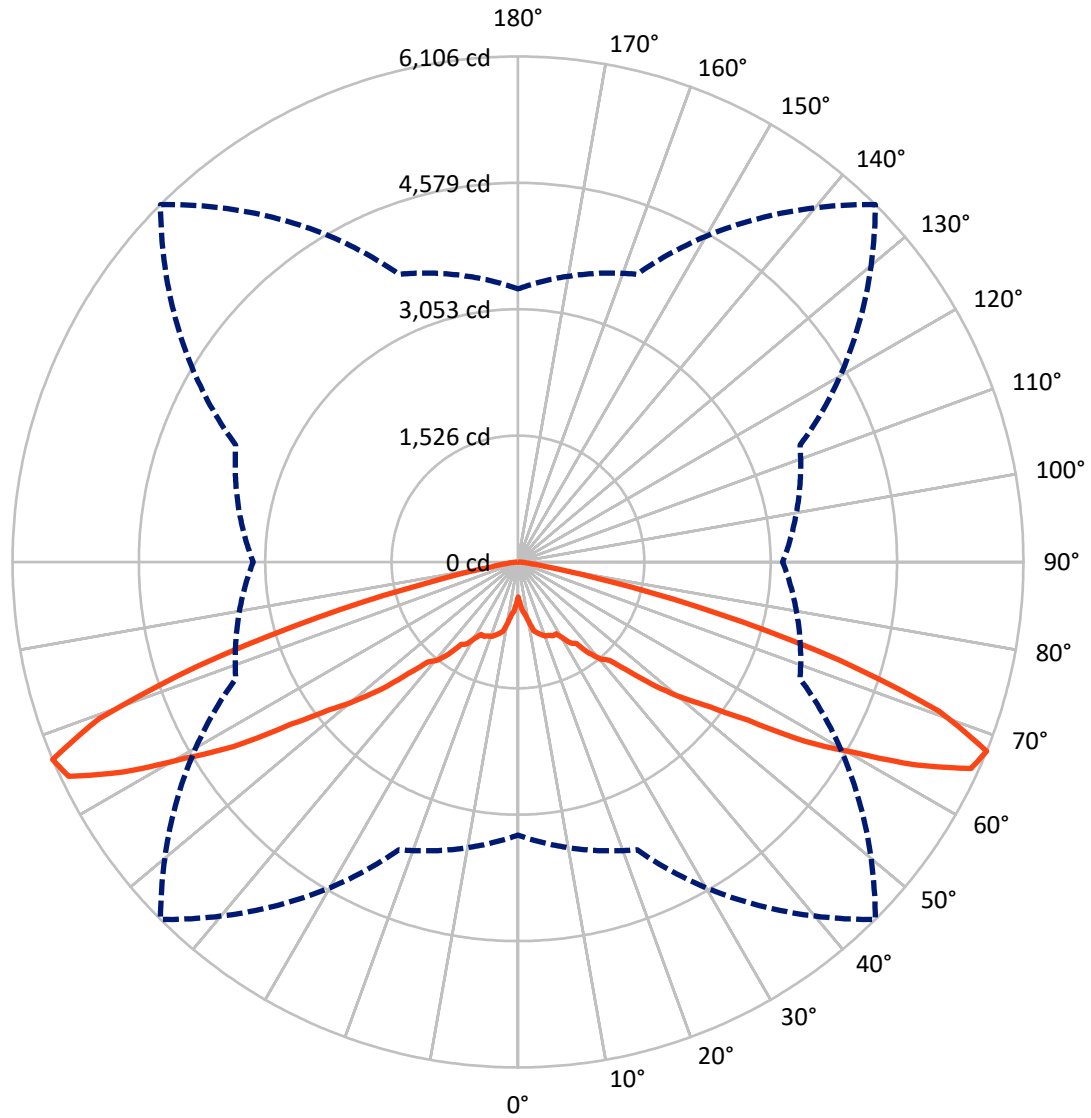
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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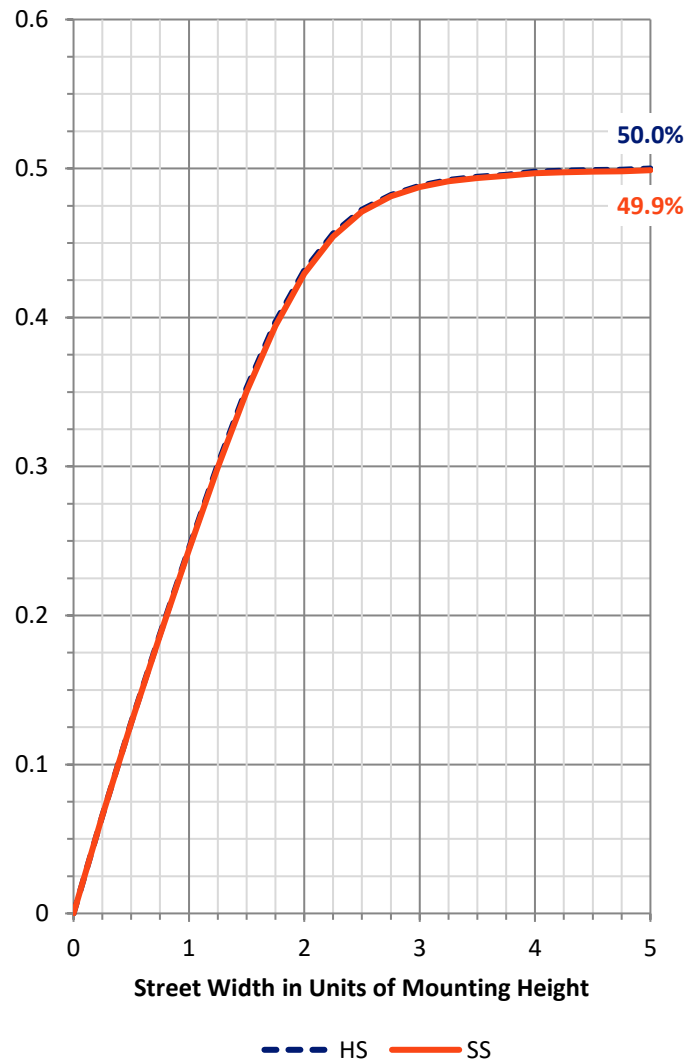
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6137.5	0.0	6137.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6137.5	0.0	6137.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12275.0	0.0	12275.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	0.5
10°-20°	248.0	2.0
20°-30°	473.2	3.9
30°-40°	865.2	7.0
40°-50°	1677.5	13.7
50°-60°	3203.5	26.1
60°-70°	4328.2	35.3
70°-80°	1344.2	11.0
80°-90°	72.4	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°	12275.0	100.0
0°-180°	12275.0	100.0



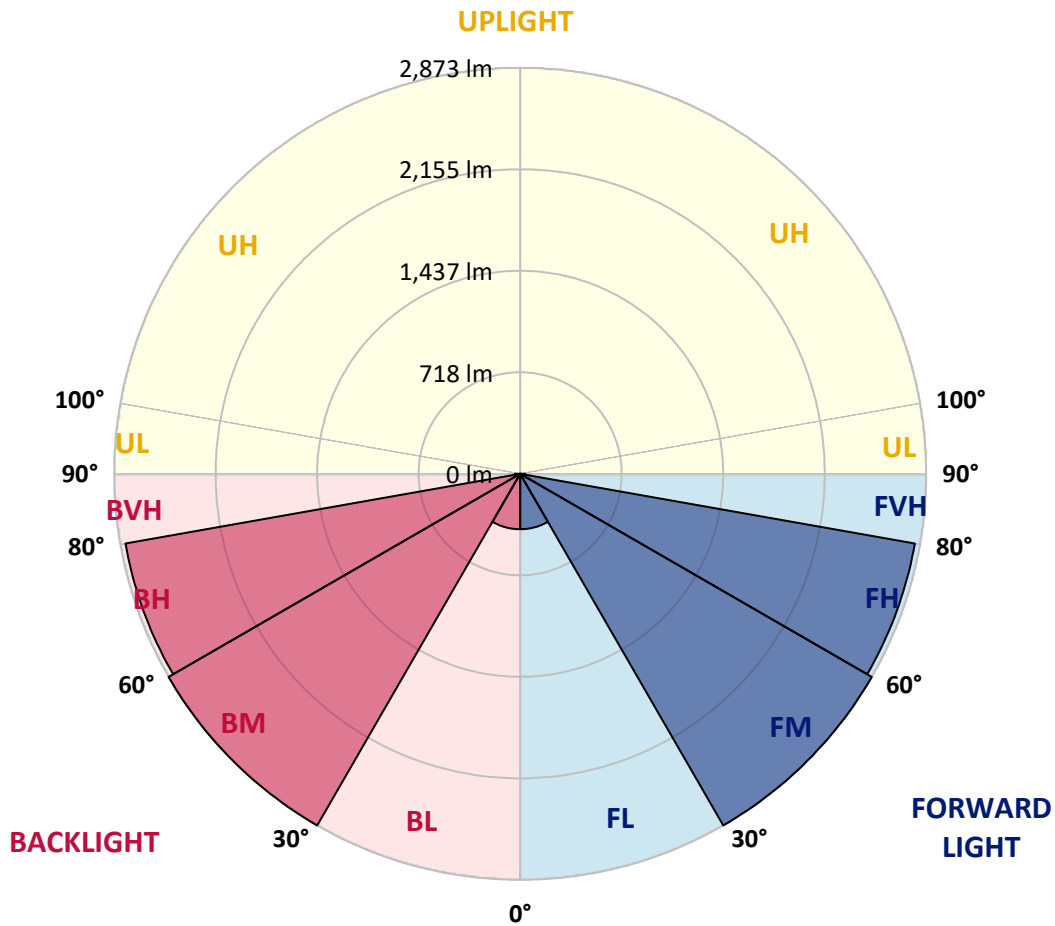
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	392.0	3.2			
FM (30°-60°)	2873.1	23.4			
FH (60°-80°)	2836.2	23.1			G2/5000
FVH (80°-90°)	36.2	0.3			G1/100
BL (0°-30°)	392.0	3.2	B1/500		
BM (30°-60°)	2873.1	23.4	B3/5000		
BH (60°-80°)	2836.2	23.1	B4/5000		G2/5000
BVH (80°-90°)	36.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	420.6	420.6	420.6	420.6	420.6
2.5°	517.8	484.7	499.8	484.7	517.8
5°	658.2	623.6	593.3	615.1	660.1
7.5°	756.4	704.7	640.7	699.0	752.1
10°	773.0	744.1	741.2	740.7	771.1
12.5°	835.1	815.7	854.5	817.6	837.0
15°	883.5	872.6	890.1	886.3	885.4
17.5°	958.4	884.4	924.3	880.2	956.0
20°	991.6	886.8	953.7	881.6	991.1
22.5°	1032.4	942.8	962.7	945.1	1028.6
25°	1055.6	978.8	985.9	979.7	1056.1
27.5°	1150.9	1058.5	982.6	1071.3	1168.5
30°	1223.5	1110.2	1060.4	1111.6	1232.5
32.5°	1328.3	1187.4	1168.0	1206.4	1344.9
35°	1458.2	1317.4	1208.3	1317.9	1485.7
37.5°	1712.9	1435.5	1397.1	1477.2	1731.9
40°	1892.6	1621.8	1539.8	1651.7	1923.4
42.5°	2168.6	1831.0	1622.8	1846.1	2216.0
45°	2425.6	2084.7	1887.4	2102.2	2460.3
47.5°	2697.4	2317.5	2243.5	2339.3	2723.0
50°	3018.4	2632.9	2581.2	2657.5	3029.3
52.5°	3397.3	3054.9	2902.2	3069.2	3401.1
55°	3847.4	3409.2	3375.0	3448.1	3853.0
57.5°	4287.4	3868.2	4087.3	3872.5	4211.1
60°	4601.4	4291.2	4673.0	4182.2	4432.1
62.5°	4621.3	4604.7	5402.3	4419.7	4384.6
65°	4190.7	4478.1	6013.1	4333.4	3980.1
67.5°	3298.7	3762.0	6105.6	3689.0	3197.7
70°	2072.8	2604.9	5397.6	2705.0	2131.6
72.5°	956.0	1403.7	4064.5	1580.1	1010.6
75°	342.4	537.3	2507.7	577.1	358.0
77.5°	194.4	217.7	1108.3	218.6	201.1
80°	125.2	135.6	320.1	143.2	121.9
82.5°	71.1	94.8	140.4	100.5	65.4
85°	38.4	60.2	62.1	61.6	38.4
87.5°	13.8	23.7	13.8	27.0	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)