

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: P367787

Luminaire Tested: **MSA-SA3B-727-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3B-727-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13242 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

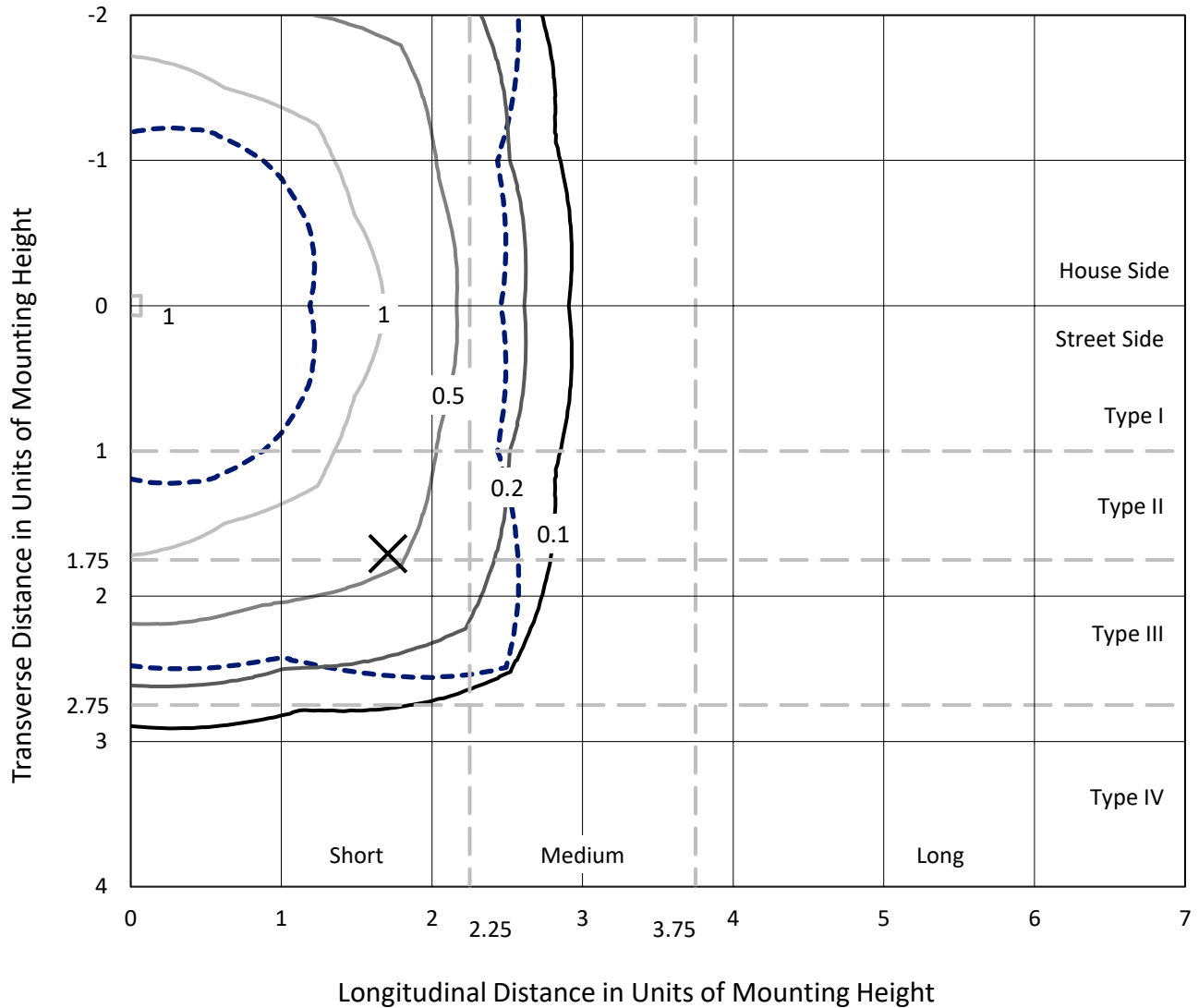
Input Watts (W): 126
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

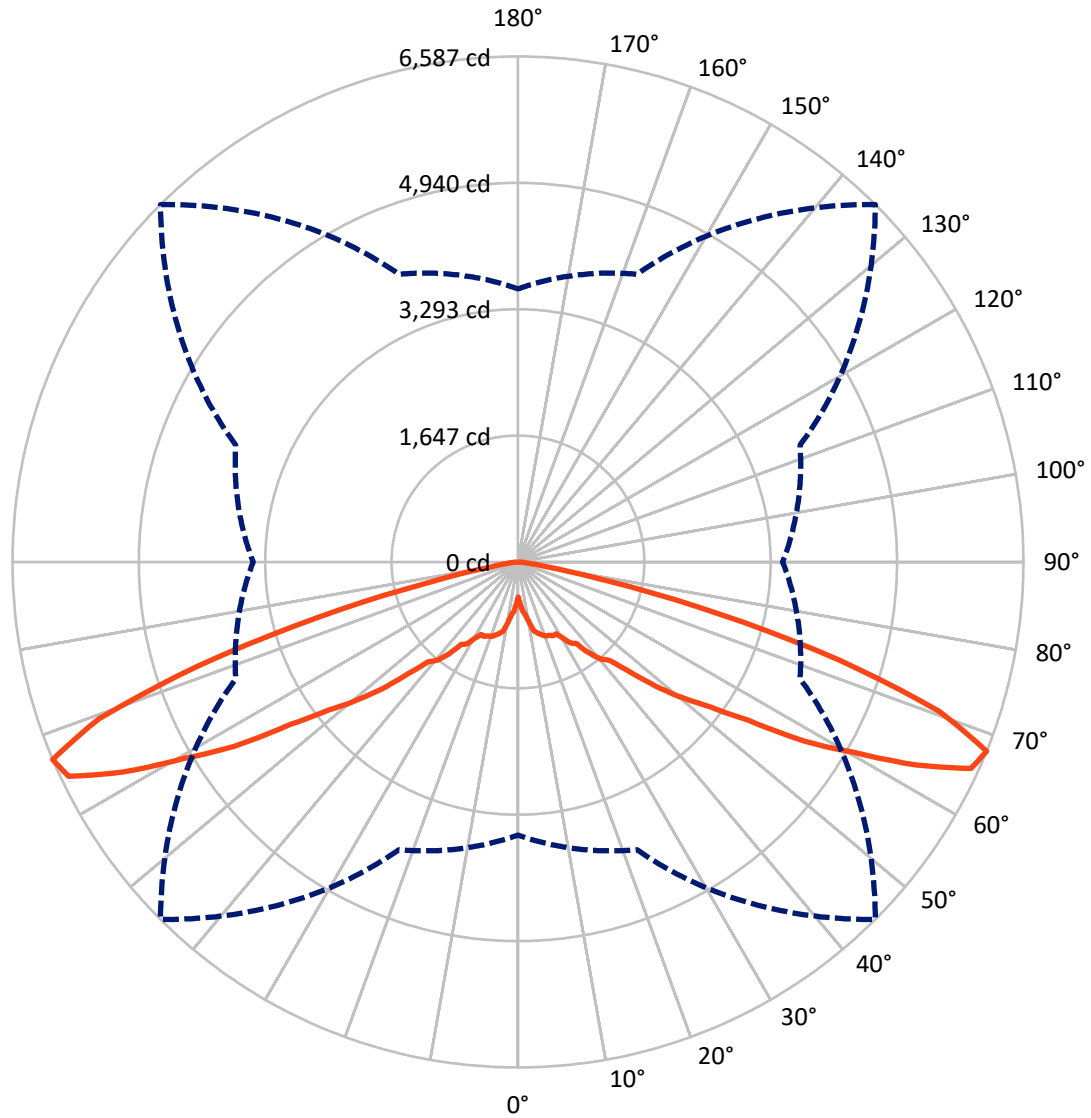
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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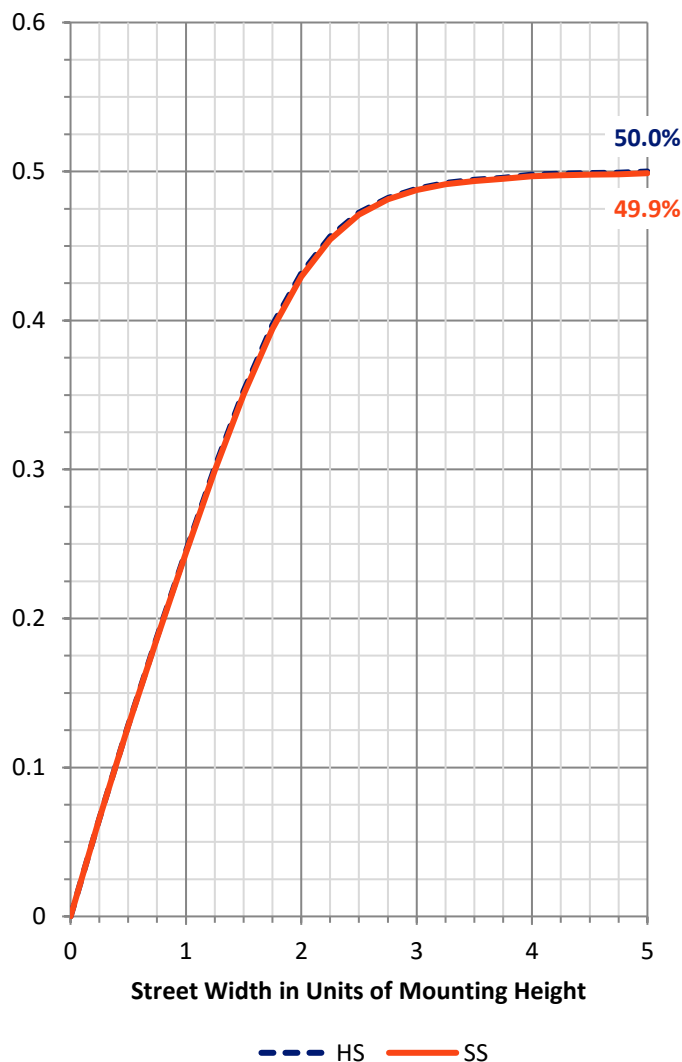
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6621.0	0.0	6621.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6621.0	0.0	6621.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13242.0	0.0	13242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	0.5
10°-20°	267.6	2.0
20°-30°	510.5	3.9
30°-40°	933.3	7.0
40°-50°	1809.7	13.7
50°-60°	3455.9	26.1
60°-70°	4669.2	35.3
70°-80°	1450.1	11.0
80°-90°	78.1	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°	13242.0	100.0
0°-180°	13242.0	100.0

Coefficient of Utilization

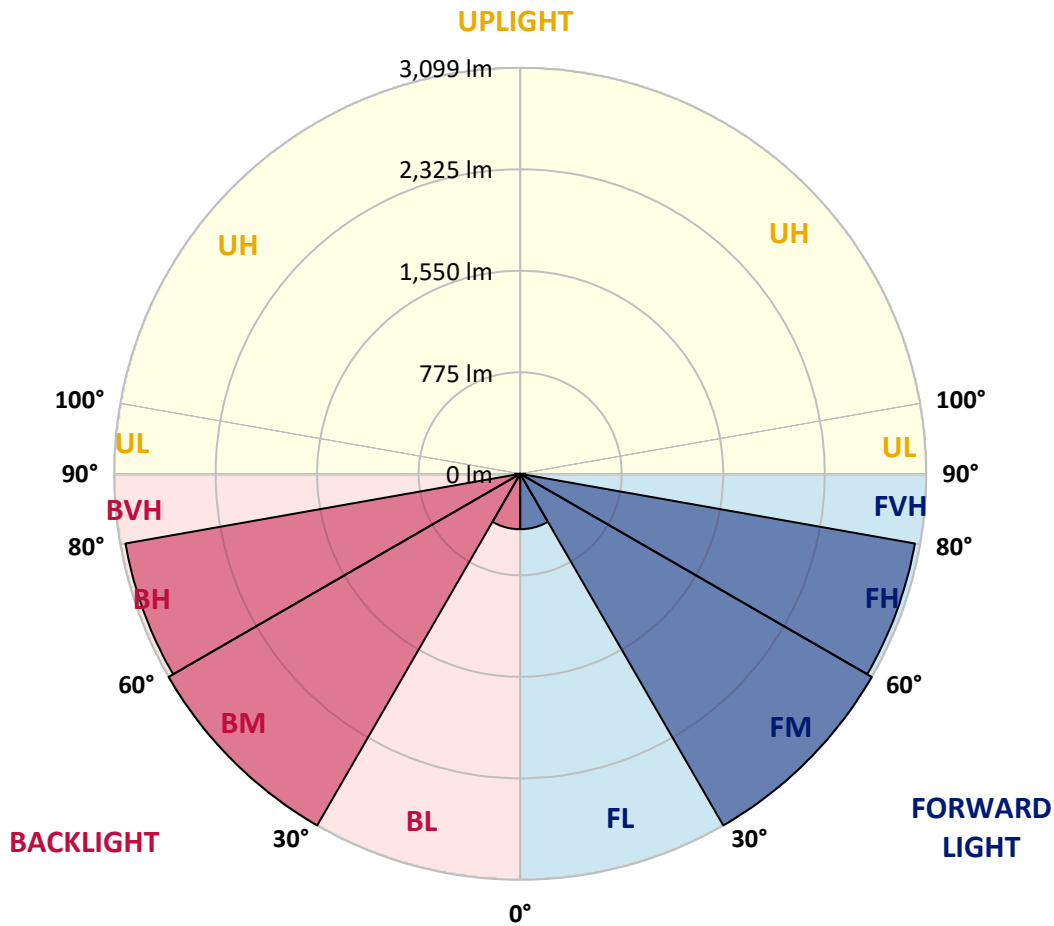


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.9	3.2			
FM (30°-60°)	3099.4	23.4			
FH (60°-80°)	3059.7	23.1			G2/5000
FVH (80°-90°)	39.1	0.3			G1/100
BL (0°-30°)	422.9	3.2	B1/500		
BM (30°-60°)	3099.4	23.4	B3/5000		
BH (60°-80°)	3059.7	23.1	B4/5000		G2/5000
BVH (80°-90°)	39.1	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°	453.8	453.8	453.8	453.8	453.8
2.5°	558.6	522.8	539.2	522.8	558.6
5°	710.1	672.7	640.0	663.5	712.1
7.5°	816.0	760.2	691.1	754.1	811.4
10°	833.9	802.7	799.6	799.1	831.8
12.5°	900.9	879.9	921.9	882.0	902.9
15°	953.1	941.3	960.2	956.1	955.1
17.5°	1033.9	954.1	997.1	949.5	1031.3
20°	1069.7	956.7	1028.8	951.0	1069.2
22.5°	1113.7	1017.0	1038.5	1019.6	1109.6
25°	1138.8	1055.9	1063.6	1056.9	1139.3
27.5°	1241.6	1141.8	1060.0	1155.7	1260.5
30°	1319.9	1197.6	1143.9	1199.1	1329.6
32.5°	1432.9	1281.0	1260.0	1301.5	1450.8
35°	1573.1	1421.2	1303.5	1421.7	1602.8
37.5°	1847.8	1548.5	1507.1	1593.6	1868.3
40°	2041.7	1749.6	1661.1	1781.8	2075.0
42.5°	2339.5	1975.2	1750.6	1991.6	2390.6
45°	2616.7	2248.9	2036.1	2267.8	2654.1
47.5°	2909.9	2500.1	2420.3	2523.6	2937.5
50°	3256.2	2840.3	2784.5	2866.9	3268.0
52.5°	3665.0	3295.6	3130.9	3310.9	3669.0
55°	4150.4	3677.7	3640.9	3719.7	4156.6
57.5°	4625.2	4173.0	4409.3	4177.6	4542.8
60°	4963.9	4629.3	5041.1	4511.6	4781.2
62.5°	4985.3	4967.4	5827.9	4767.9	4730.1
65°	4520.8	4830.8	6486.8	4674.8	4293.7
67.5°	3558.5	4058.4	6586.6	3979.6	3449.6
70°	2236.1	2810.1	5822.8	2918.0	2299.5
72.5°	1031.3	1514.3	4384.7	1704.6	1090.2
75°	369.4	579.6	2705.2	622.6	386.2
77.5°	209.7	234.8	1195.6	235.8	216.9
80°	135.1	146.3	345.3	154.5	131.5
82.5°	76.7	102.3	151.4	108.5	70.6
85°	41.4	65.0	67.0	66.5	41.4
87.5°	14.8	25.6	14.8	29.2	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)