

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: P367215

Luminaire Tested: **MSA-SA2A-760-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367215
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-SA2A-760-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8561 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

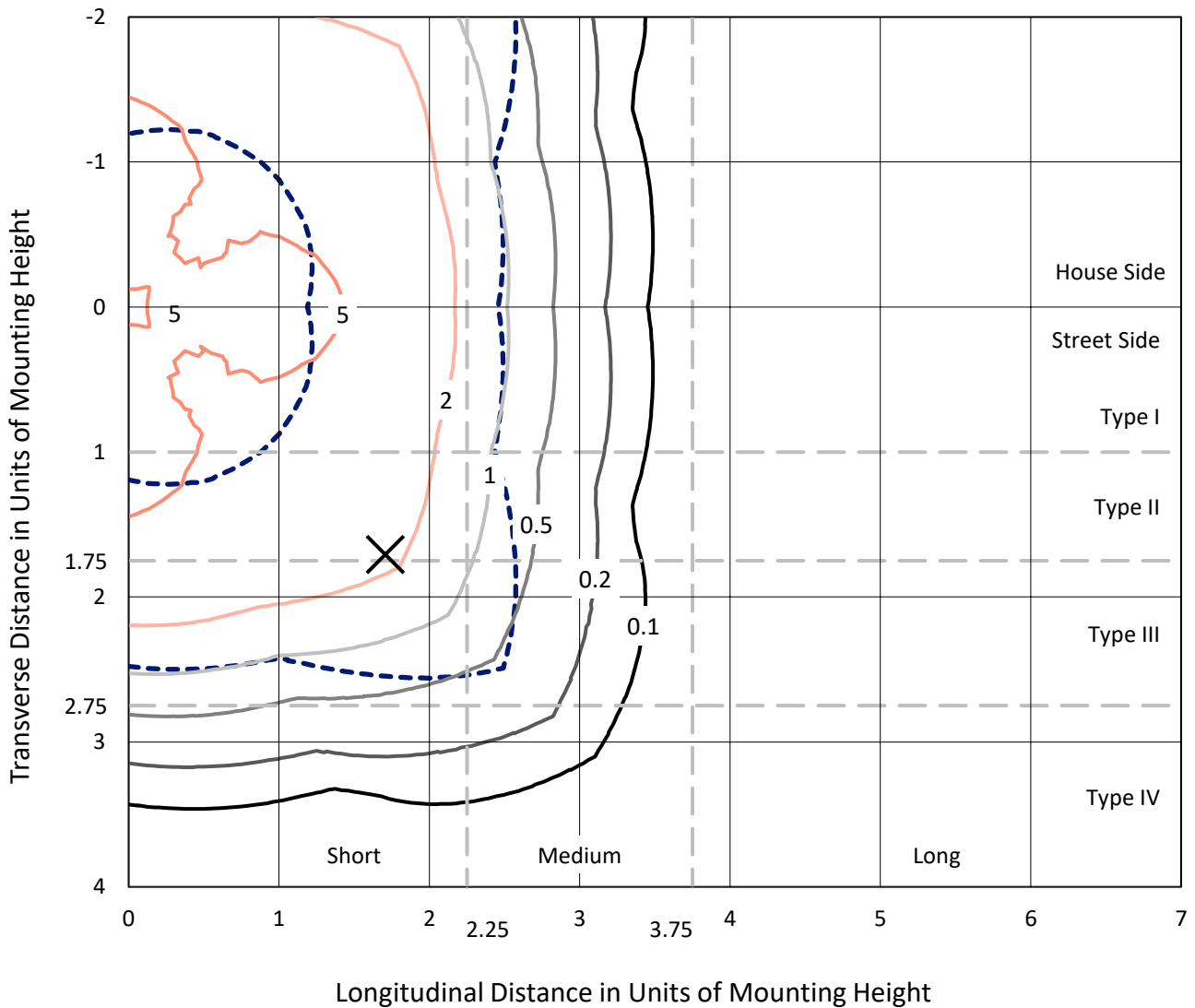
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P367215
 CATALOG NUMBER: MSA-SA2A-760-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

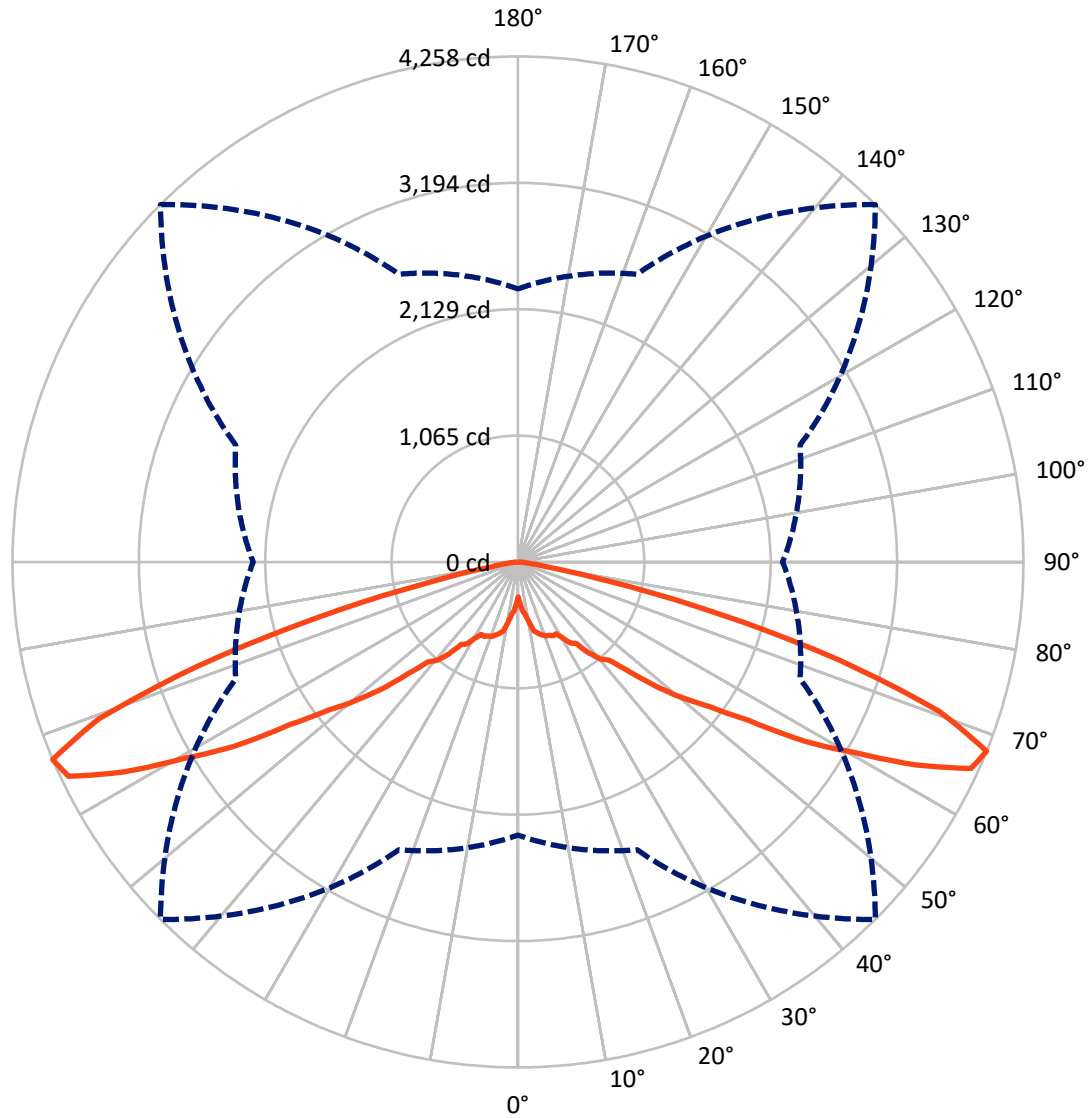
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

REPORT NUMBER: P367215
CATALOG NUMBER: MSA-SA2A-760-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P367215
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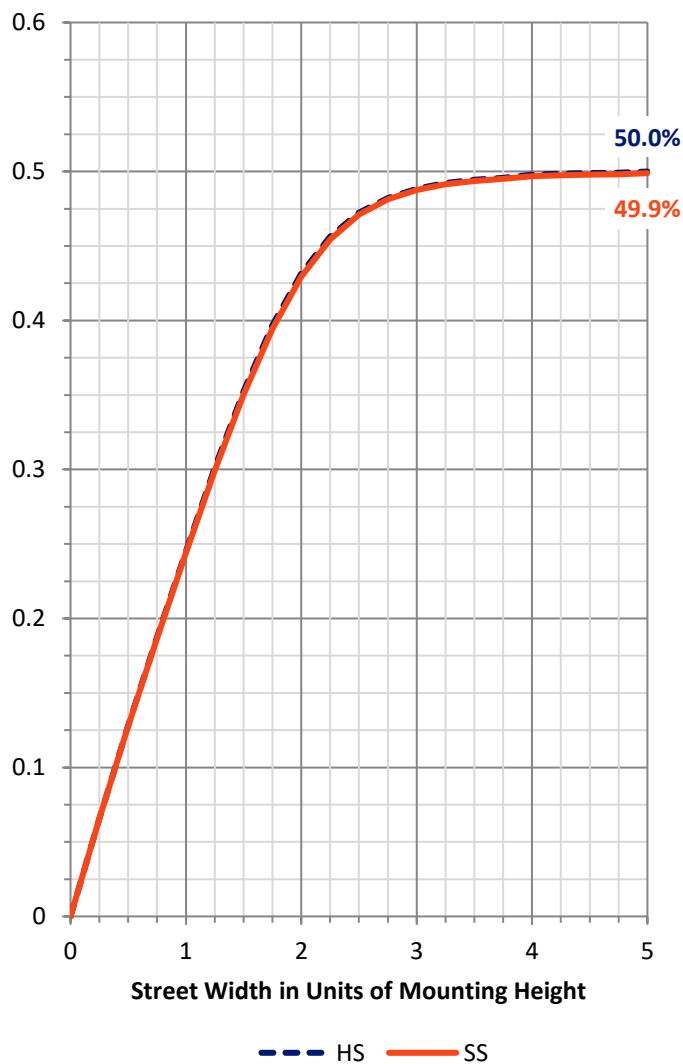
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4280.5	0.0	4280.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4280.5	0.0	4280.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8561.0	0.0	8561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	0.5
10°-20°	173.0	2.0
20°-30°	330.0	3.9
30°-40°	603.4	7.0
40°-50°	1170.0	13.7
50°-60°	2234.2	26.1
60°-70°	3018.7	35.3
70°-80°	937.5	11.0
80°-90°	50.5	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°	8561.0	100.0
0°-180°	8561.0	100.0

Coefficient of Utilization



REPORT NUMBER: P367215

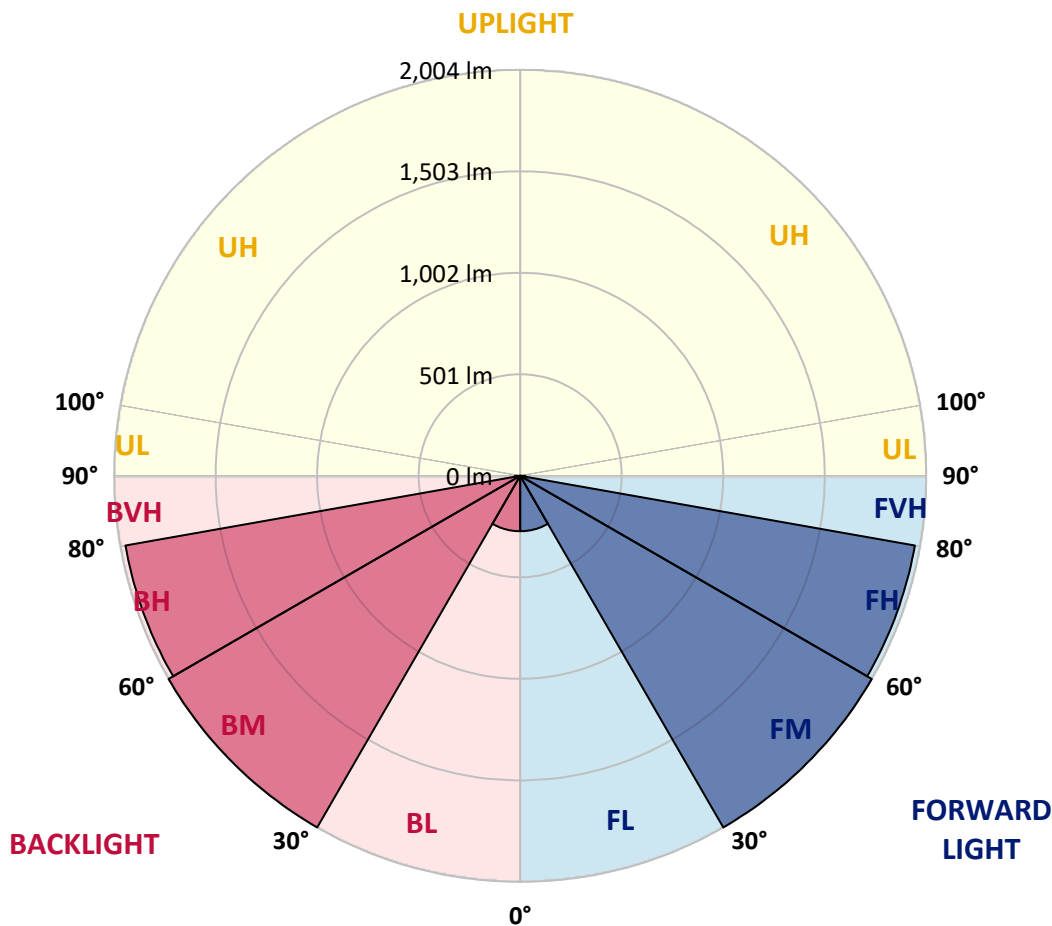
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.4	3.2			
FM (30°-60°)	2003.8	23.4			
FH (60°-80°)	1978.1	23.1			G2/5000
FVH (80°-90°)	25.3	0.3			G1/100
BL (0°-30°)	273.4	3.2	B1/500		
BM (30°-60°)	2003.8	23.4	B2/2500		
BH (60°-80°)	1978.1	23.1	B3/2500		G2/5000
BVH (80°-90°)	25.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P367215
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	293.4	293.4	293.4	293.4	293.4
2.5°	361.2	338.0	348.6	338.0	361.2
5°	459.1	434.9	413.8	429.0	460.4
7.5°	527.5	491.5	446.8	487.5	524.5
10°	539.1	518.9	516.9	516.6	537.8
12.5°	582.4	568.9	596.0	570.2	583.8
15°	616.2	608.6	620.8	618.1	617.5
17.5°	668.4	616.8	644.6	613.8	666.8
20°	691.6	618.5	665.1	614.8	691.2
22.5°	720.0	657.5	671.4	659.2	717.4
25°	736.2	682.6	687.6	683.3	736.6
27.5°	802.7	738.2	685.3	747.1	814.9
30°	853.3	774.3	739.5	775.2	859.6
32.5°	926.4	828.2	814.6	841.4	938.0
35°	1017.0	918.8	842.7	919.1	1036.2
37.5°	1194.6	1001.1	974.4	1030.2	1207.9
40°	1320.0	1131.1	1073.9	1152.0	1341.5
42.5°	1512.5	1277.0	1131.8	1287.6	1545.5
45°	1691.7	1453.9	1316.3	1466.2	1715.9
47.5°	1881.2	1616.3	1564.7	1631.5	1899.1
50°	2105.1	1836.3	1800.2	1853.5	2112.8
52.5°	2369.4	2130.6	2024.1	2140.5	2372.1
55°	2683.3	2377.7	2353.9	2404.8	2687.2
57.5°	2990.2	2697.8	2850.6	2700.8	2937.0
60°	3209.1	2992.8	3259.1	2916.8	3091.1
62.5°	3223.0	3211.5	3767.8	3082.5	3058.0
65°	2922.7	3123.2	4193.8	3022.3	2775.9
67.5°	2300.6	2623.7	4258.2	2572.8	2230.2
70°	1445.7	1816.7	3764.5	1886.5	1486.7
72.5°	666.8	979.0	2834.8	1102.0	704.8
75°	238.8	374.7	1748.9	402.5	249.7
77.5°	135.6	151.8	772.9	152.5	140.2
80°	87.3	94.6	223.2	99.9	85.0
82.5°	49.6	66.1	97.9	70.1	45.6
85°	26.8	42.0	43.3	43.0	26.8
87.5°	9.6	16.5	9.6	18.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)