

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: P367391

Luminaire Tested: **MSA-SA2C-727-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367391
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-SA2C-727-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: 11112 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

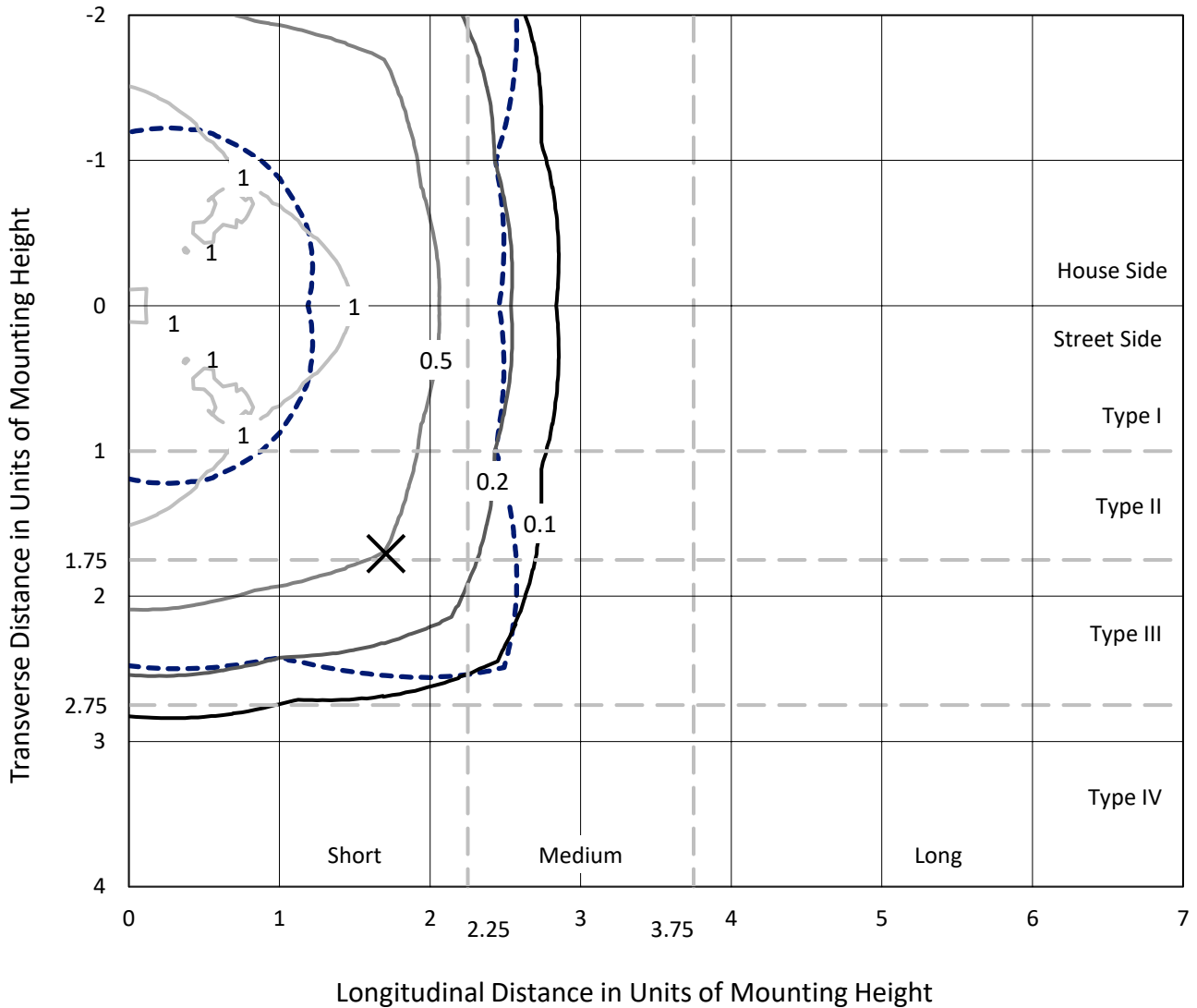
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

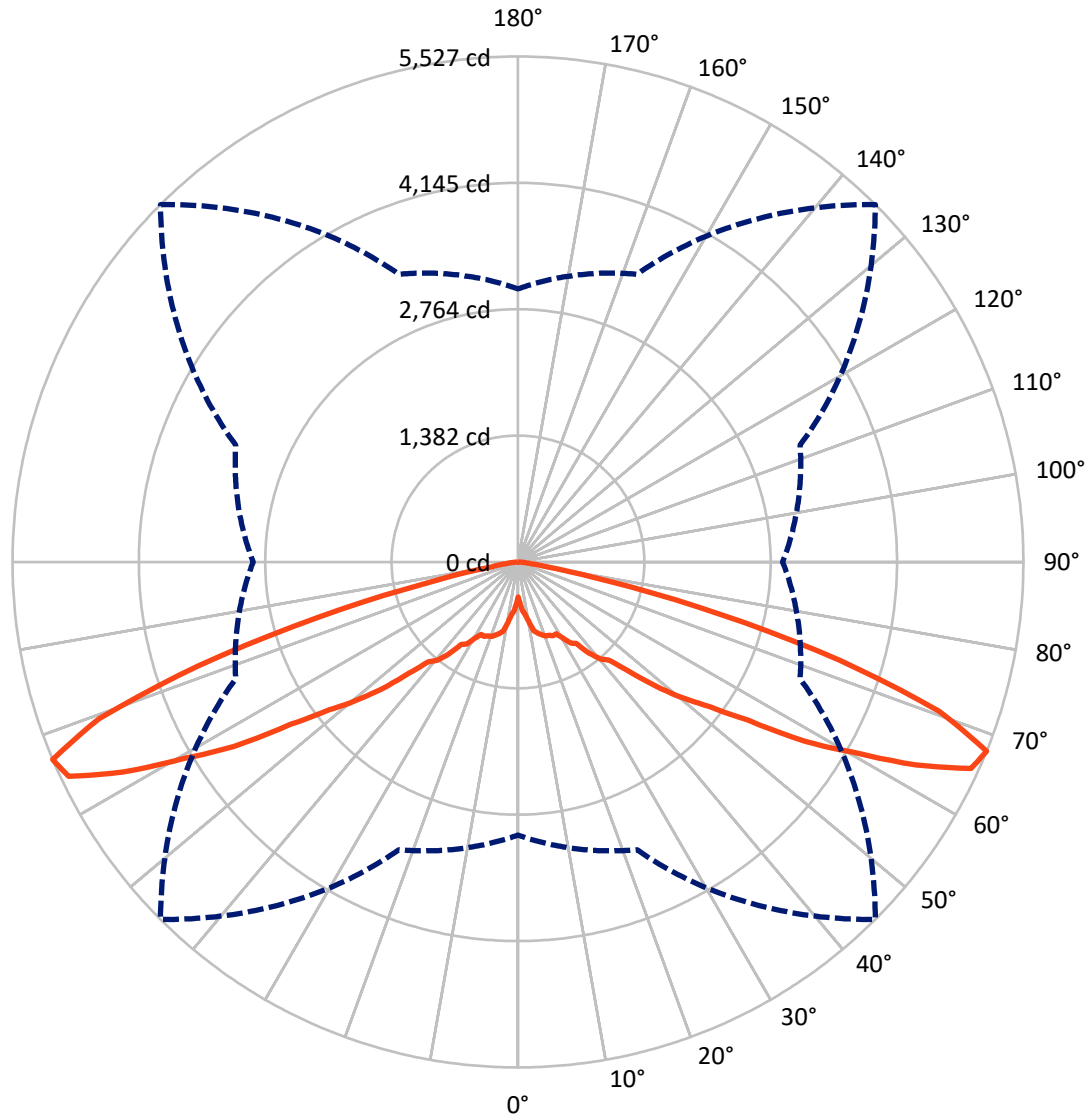
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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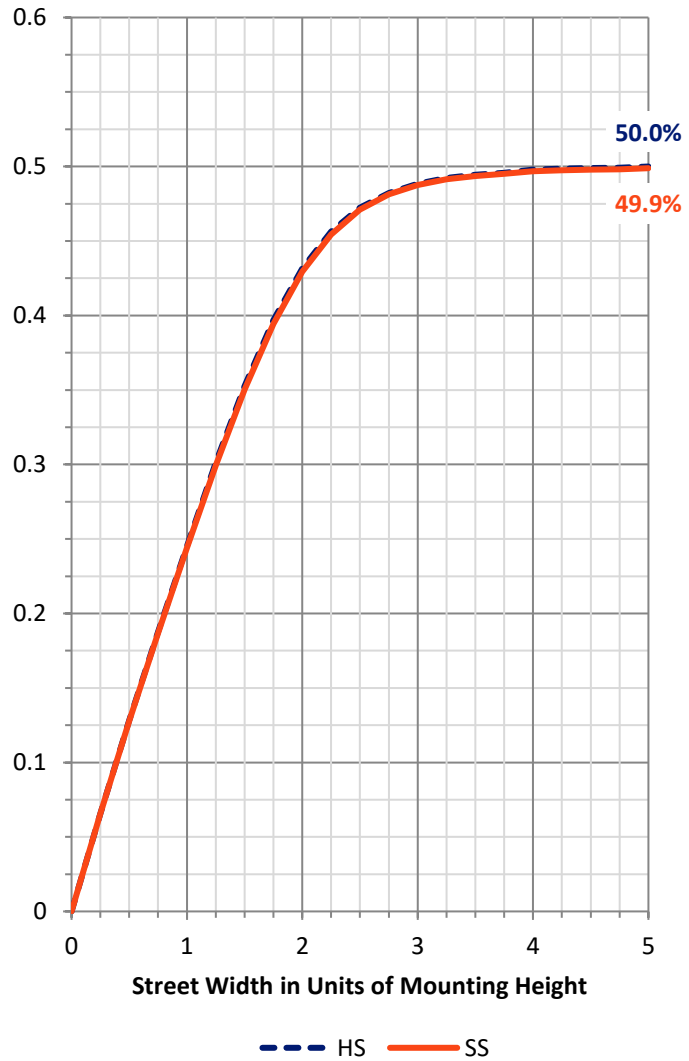
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5556.0	0.0	5556.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5556.0	0.0	5556.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11112.0	0.0	11112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	0.5
10°-20°	224.5	2.0
20°-30°	428.4	3.9
30°-40°	783.2	7.0
40°-50°	1518.6	13.7
50°-60°	2900.0	26.1
60°-70°	3918.2	35.3
70°-80°	1216.9	11.0
80°-90°	65.6	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°	11112.0	100.0
0°-180°	11112.0	100.0

Coefficient of Utilization



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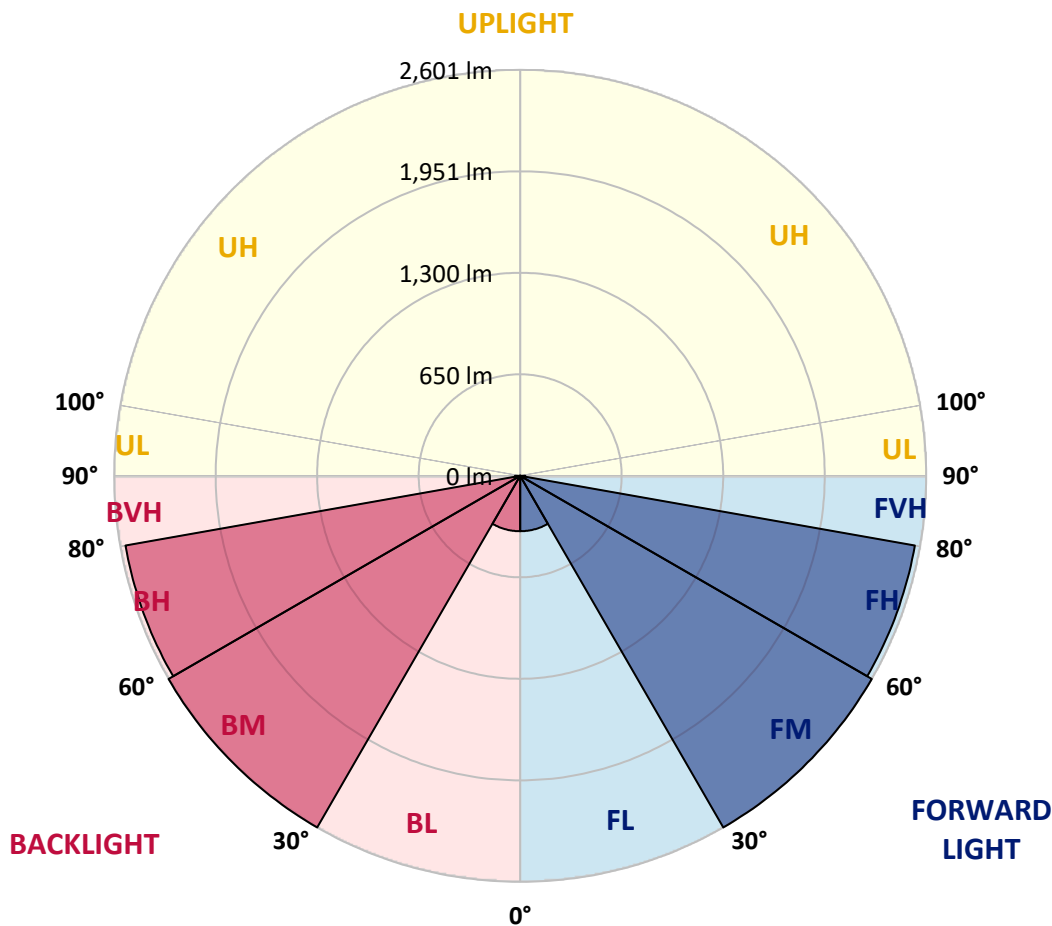
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	354.8	3.2			
FM (30°-60°)	2600.9	23.4			
FH (60°-80°)	2567.5	23.1			G2/5000
FVH (80°-90°)	32.8	0.3			G1/100
BL (0°-30°)	354.8	3.2	B1/500		
BM (30°-60°)	2600.9	23.4	B3/5000		
BH (60°-80°)	2567.5	23.1	B4/5000		G2/5000
BVH (80°-90°)	32.8	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°	380.8	380.8	380.8	380.8	380.8
2.5°	468.8	438.7	452.5	438.7	468.8
5°	595.9	564.5	537.0	556.8	597.6
7.5°	684.7	637.9	580.0	632.8	680.9
10°	699.7	673.6	671.0	670.6	698.0
12.5°	756.0	738.4	773.6	740.1	757.7
15°	799.8	789.9	805.8	802.3	801.5
17.5°	867.6	800.6	836.7	796.8	865.4
20°	897.6	802.8	863.3	798.1	897.2
22.5°	934.6	853.4	871.5	855.6	931.1
25°	955.6	886.1	892.5	886.9	956.0
27.5°	1041.9	958.2	889.5	969.8	1057.8
30°	1107.6	1005.0	959.9	1006.3	1115.7
32.5°	1202.4	1074.9	1057.3	1092.1	1217.5
35°	1320.1	1192.6	1093.8	1193.0	1345.0
37.5°	1550.6	1299.5	1264.7	1337.2	1567.8
40°	1713.3	1468.2	1393.9	1495.2	1741.2
42.5°	1963.1	1657.5	1469.0	1671.2	2006.1
45°	2195.8	1887.2	1708.6	1903.0	2227.2
47.5°	2441.8	2097.9	2031.0	2117.7	2465.0
50°	2732.4	2383.4	2336.6	2405.7	2742.3
52.5°	3075.4	2765.5	2627.3	2778.4	3078.9
55°	3482.8	3086.2	3055.3	3121.4	3488.0
57.5°	3881.2	3501.7	3700.1	3505.6	3812.1
60°	4165.4	3884.7	4230.2	3785.9	4012.2
62.5°	4183.4	4168.4	4890.5	4001.0	3969.2
65°	3793.6	4053.8	5443.4	3922.9	3603.0
67.5°	2986.1	3405.6	5527.1	3339.5	2894.7
70°	1876.4	2358.1	4886.2	2448.7	1929.7
72.5°	865.4	1270.7	3679.5	1430.4	914.8
75°	309.9	486.4	2270.1	522.4	324.1
77.5°	176.0	197.0	1003.3	197.9	182.0
80°	113.3	122.8	289.8	129.6	110.3
82.5°	64.4	85.9	127.1	91.0	59.2
85°	34.8	54.5	56.2	55.8	34.8
87.5°	12.4	21.5	12.4	24.5	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)