

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: P366599

Luminaire Tested: **MSA-SA1A-727-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366599
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-SA1A-727-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: 3640 lumens
Efficiency: N/A
Efficacy: 107.1 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

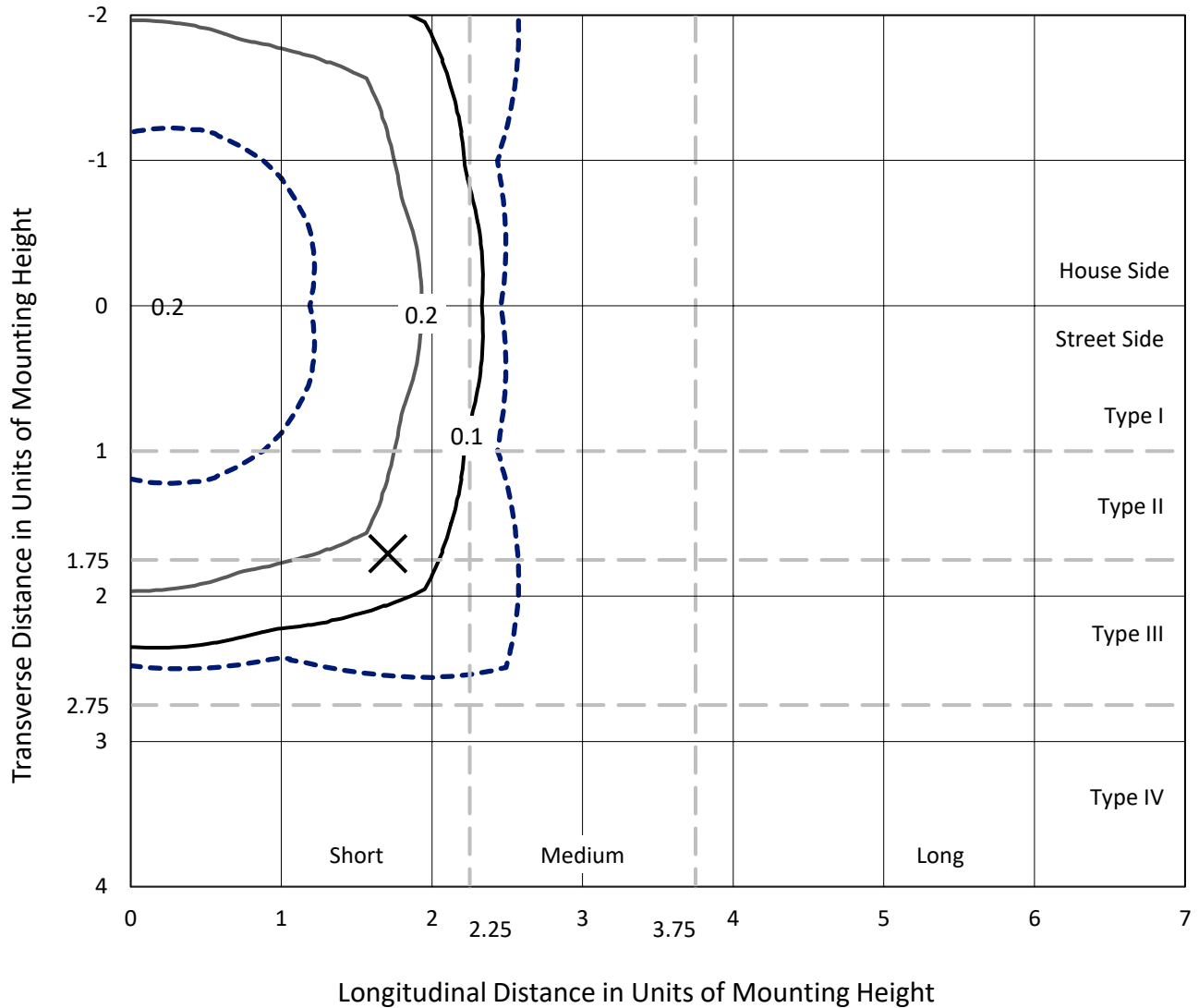
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

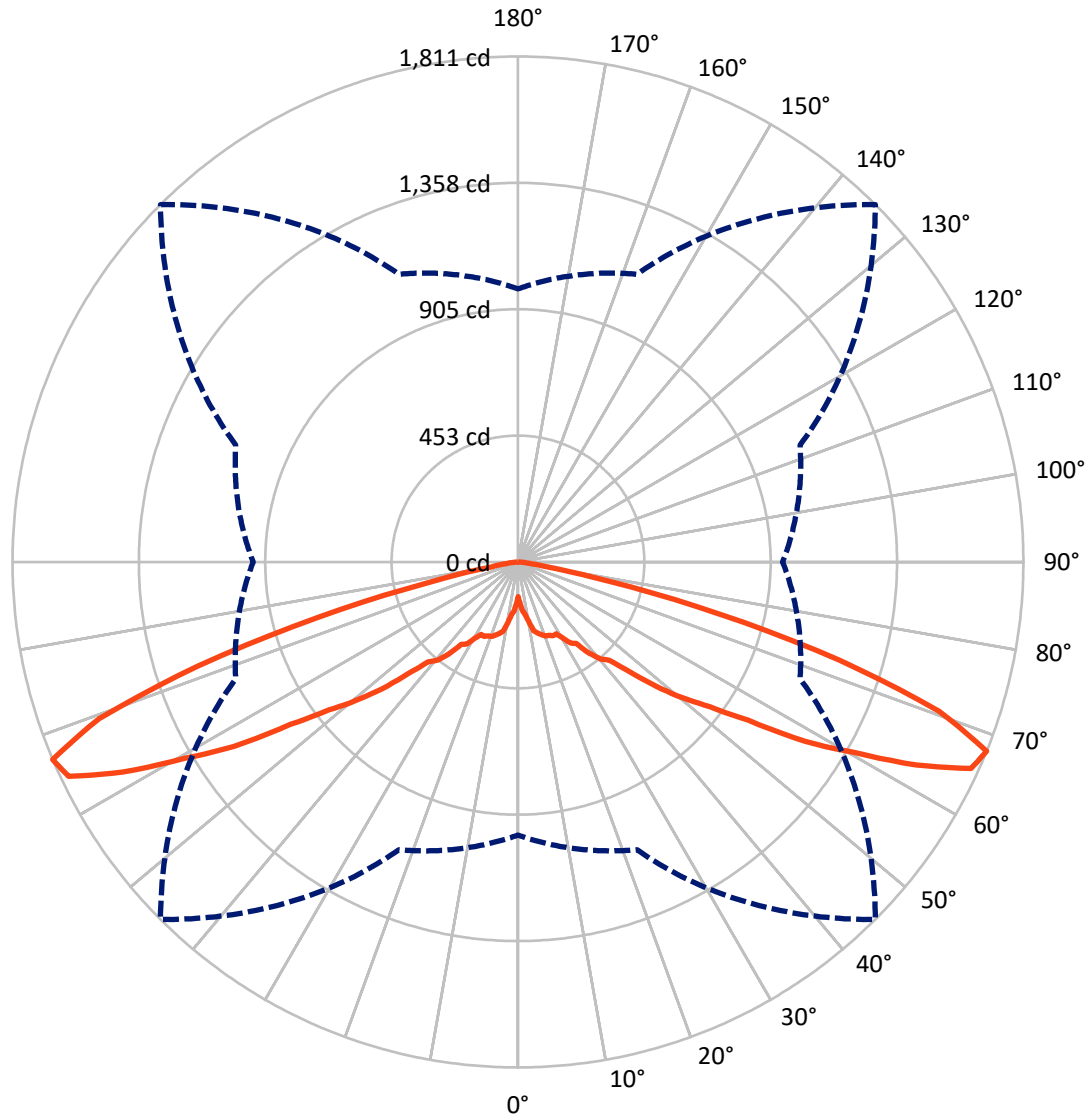
✕ Max cd
 - - - 1/2 Max cd



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	1820.0	0.0	1820.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1820.0	0.0	1820.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3640.0	0.0	3640.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.6	0.5
10°-20°	73.5	2.0
20°-30°	140.3	3.9
30°-40°	256.6	7.0
40°-50°	497.5	13.7
50°-60°	949.9	26.1
60°-70°	1283.5	35.3
70°-80°	398.6	11.0
80°-90°	21.5	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°	3640.0	100.0
0°-180°	3640.0	100.0

Coefficient of Utilization

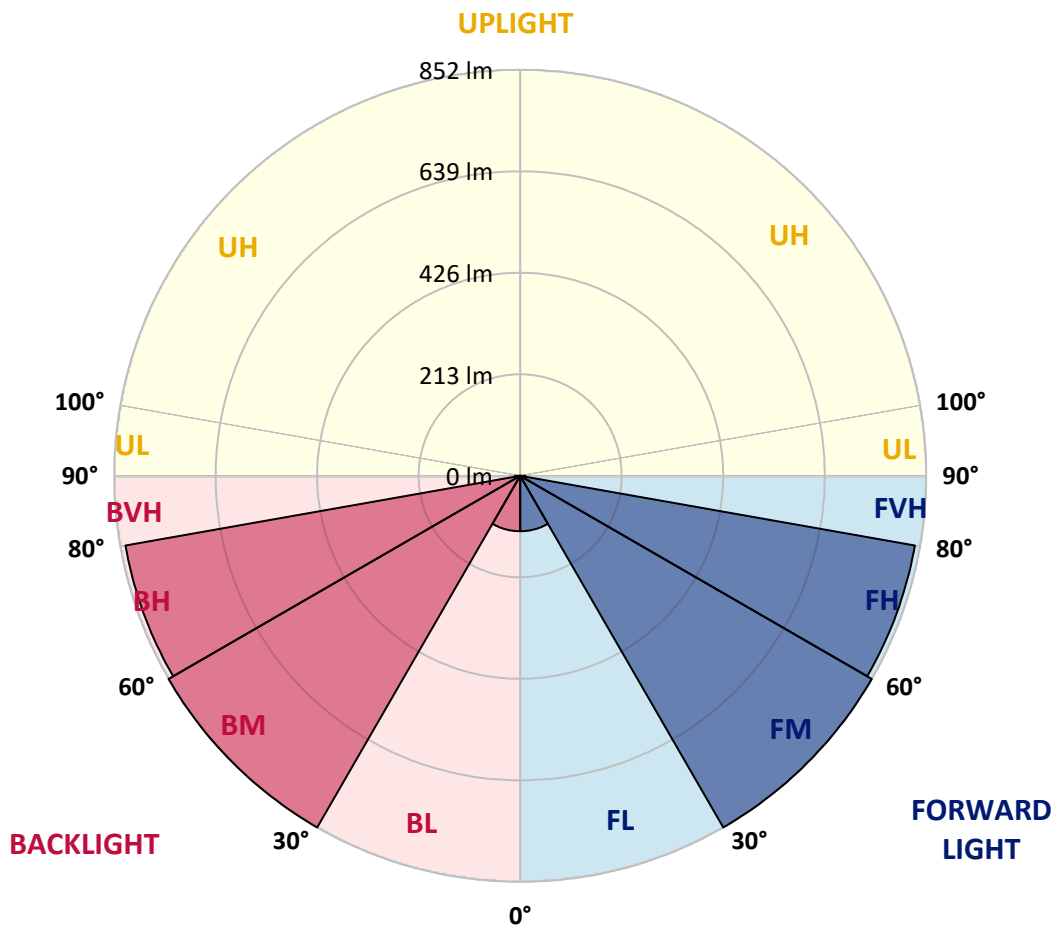


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	116.2	3.2			
FM (30°-60°)	852.0	23.4			
FH (60°-80°)	841.0	23.1			G1/1800
FVH (80°-90°)	10.7	0.3			G1/100
BL (0°-30°)	116.2	3.2	B1/500		
BM (30°-60°)	852.0	23.4	B1/1000		
BH (60°-80°)	841.0	23.1	B2/1000		G1/1800
BVH (80°-90°)	10.7	0.3			G1/100
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°	124.7	124.7	124.7	124.7	124.7
2.5°	153.6	143.7	148.2	143.7	153.6
5°	195.2	184.9	175.9	182.4	195.7
7.5°	224.3	209.0	190.0	207.3	223.0
10°	229.2	220.6	219.8	219.7	228.7
12.5°	247.6	241.9	253.4	242.4	248.2
15°	262.0	258.7	264.0	262.8	262.5
17.5°	284.2	262.3	274.1	261.0	283.5
20°	294.0	263.0	282.8	261.4	293.9
22.5°	306.1	279.6	285.5	280.3	305.0
25°	313.0	290.2	292.4	290.5	313.2
27.5°	341.3	313.9	291.4	317.7	346.5
30°	362.8	329.2	314.4	329.6	365.5
32.5°	393.9	352.1	346.4	357.7	398.8
35°	432.4	390.7	358.3	390.8	440.6
37.5°	507.9	425.7	414.3	438.0	513.6
40°	561.2	480.9	456.6	489.8	570.4
42.5°	643.1	543.0	481.2	547.5	657.1
45°	719.3	618.2	559.7	623.4	729.6
47.5°	799.9	687.2	665.3	693.7	807.5
50°	895.1	780.7	765.4	788.1	898.3
52.5°	1007.4	905.9	860.6	910.1	1008.6
55°	1140.9	1010.9	1000.8	1022.5	1142.6
57.5°	1271.4	1147.1	1212.0	1148.3	1248.7
60°	1364.5	1272.5	1385.7	1240.2	1314.3
62.5°	1370.4	1365.5	1602.0	1310.6	1300.2
65°	1242.7	1327.9	1783.1	1285.0	1180.3
67.5°	978.2	1115.6	1810.5	1093.9	948.2
70°	614.7	772.4	1600.6	802.1	632.1
72.5°	283.5	416.2	1205.3	468.6	299.7
75°	101.5	159.3	743.6	171.1	106.2
77.5°	57.7	64.5	328.6	64.8	59.6
80°	37.1	40.2	94.9	42.5	36.1
82.5°	21.1	28.1	41.6	29.8	19.4
85°	11.4	17.9	18.4	18.3	11.4
87.5°	4.1	7.0	4.1	8.0	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)