

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: P367017

Luminaire Tested: **MSA-SA1D-730-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367017
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-SA1D-730-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: 6727 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

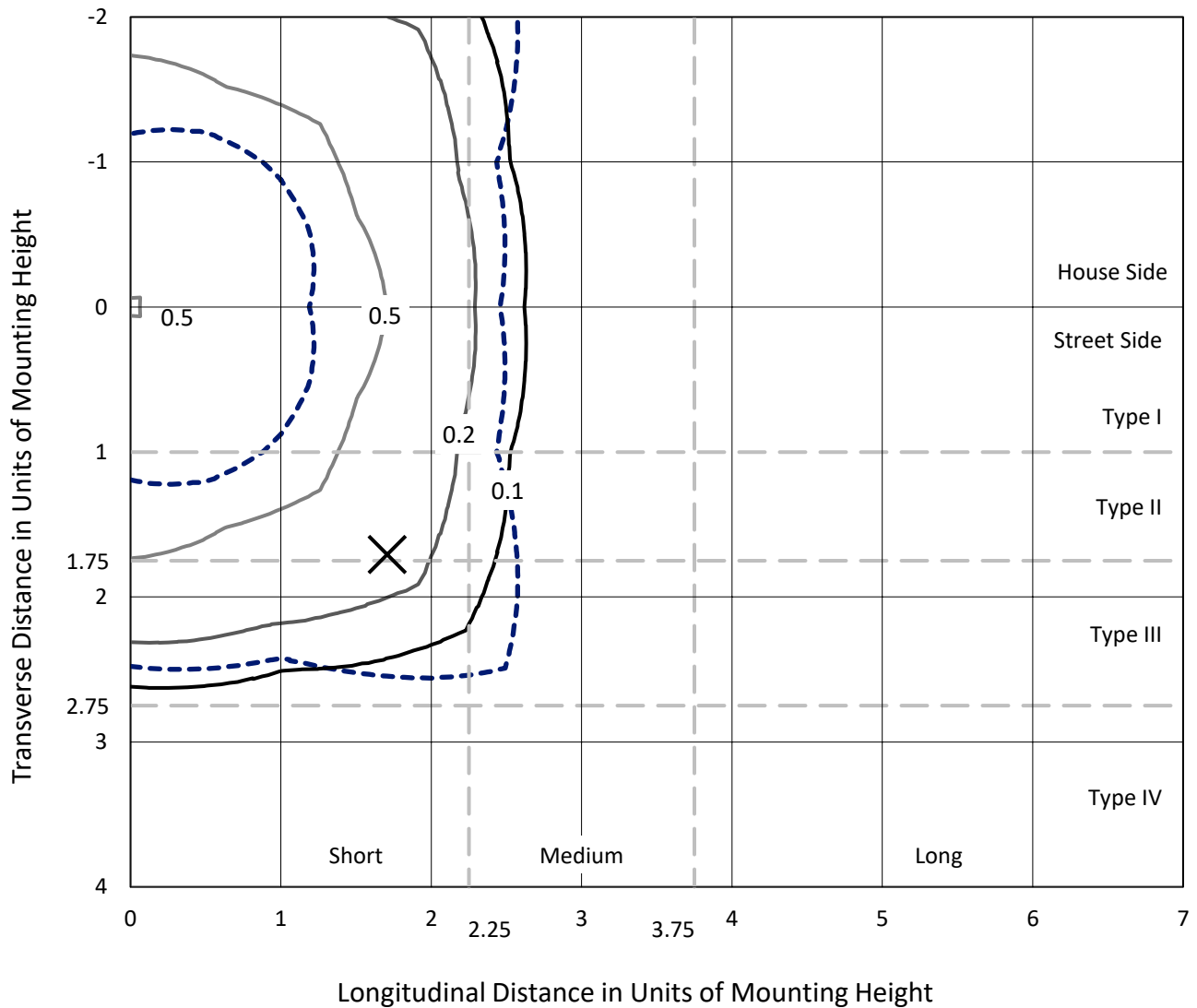
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

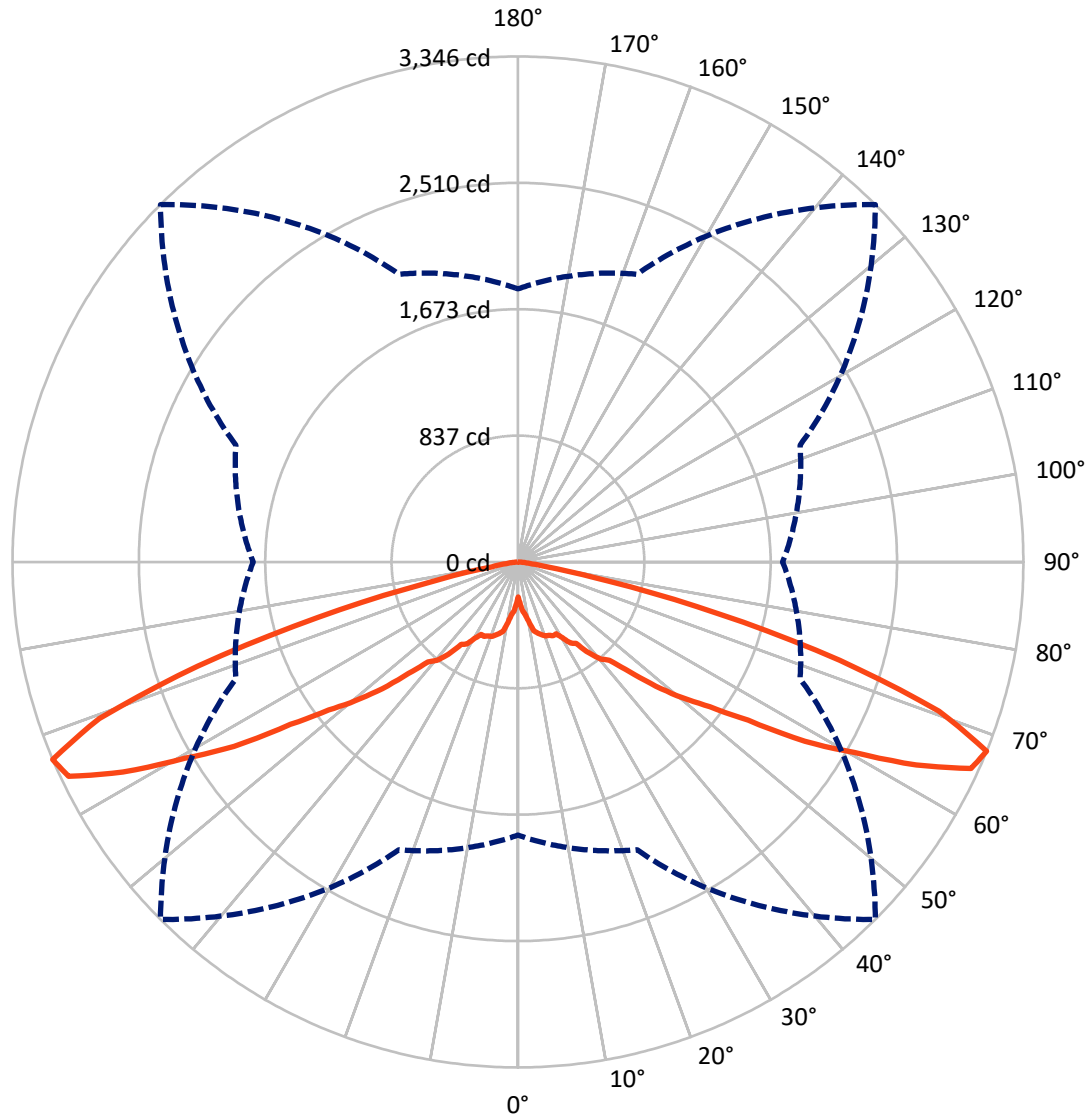
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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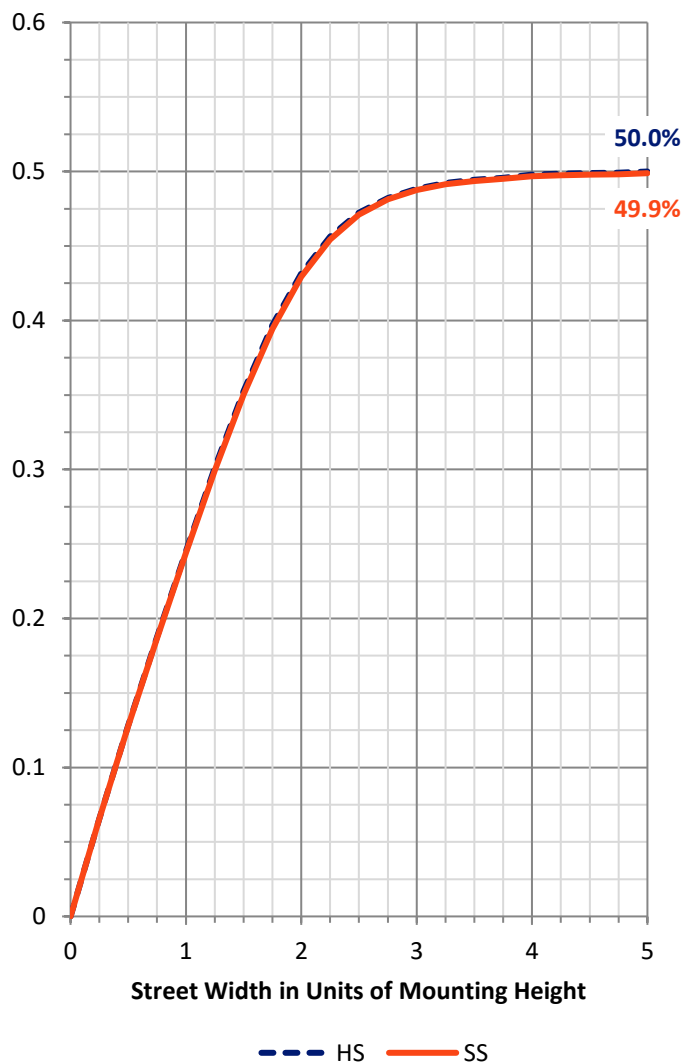
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3363.5	0.0	3363.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3363.5	0.0	3363.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6727.0	0.0	6727.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	0.5
10°-20°	135.9	2.0
20°-30°	259.3	3.9
30°-40°	474.1	7.0
40°-50°	919.3	13.7
50°-60°	1755.6	26.1
60°-70°	2372.0	35.3
70°-80°	736.7	11.0
80°-90°	39.7	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°	6727.0	100.0
0°-180°	6727.0	100.0

Coefficient of Utilization



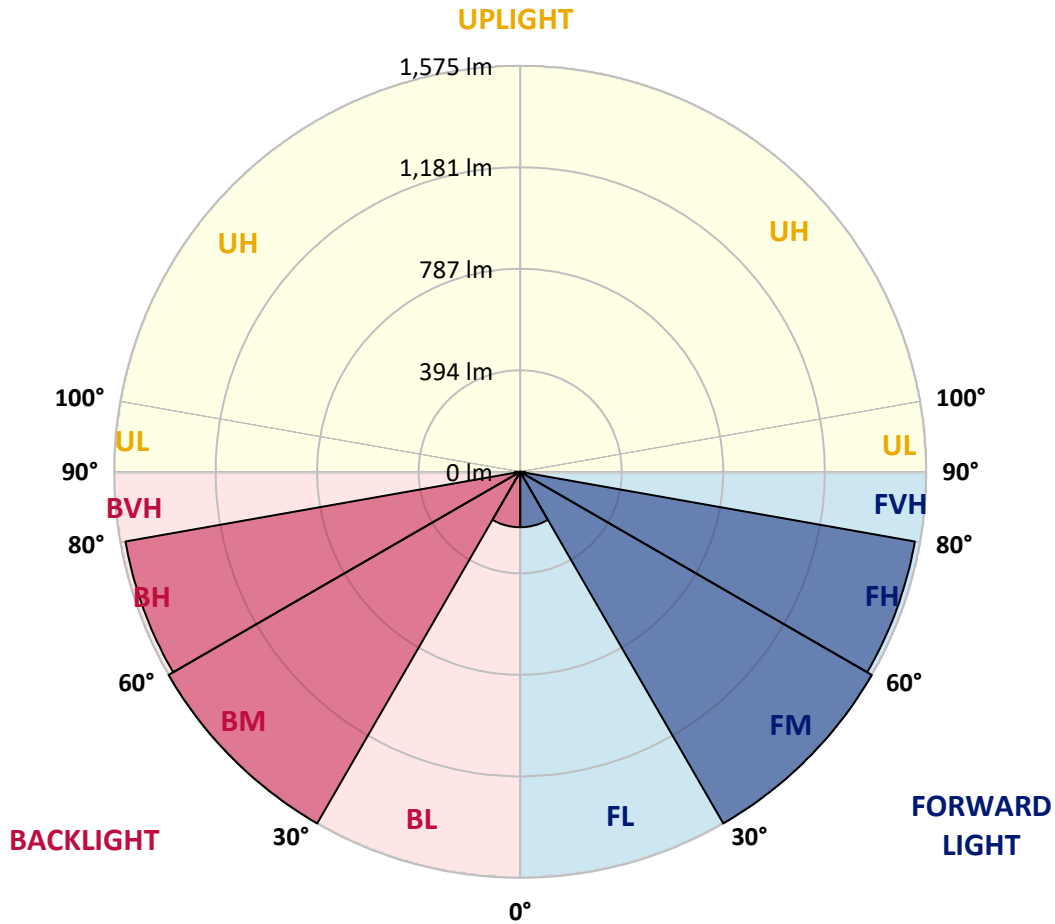
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	214.8	3.2			
FM (30°-60°)	1574.5	23.4			
FH (60°-80°)	1554.3	23.1			G1/1800
FVH (80°-90°)	19.8	0.3			G1/100
BL (0°-30°)	214.8	3.2	B1/500		
BM (30°-60°)	1574.5	23.4	B2/2500		
BH (60°-80°)	1554.3	23.1	B3/2500		G1/1800
BVH (80°-90°)	19.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	230.5	230.5	230.5	230.5	230.5
2.5°	283.8	265.6	273.9	265.6	283.8
5°	360.7	341.7	325.1	337.1	361.8
7.5°	414.5	386.2	351.1	383.1	412.2
10°	423.6	407.8	406.2	405.9	422.6
12.5°	457.7	447.0	468.3	448.0	458.7
15°	484.2	478.2	487.8	485.7	485.2
17.5°	525.2	484.7	506.5	482.3	523.9
20°	543.4	486.0	522.6	483.1	543.2
22.5°	565.8	516.7	527.6	518.0	563.7
25°	578.5	536.4	540.3	536.9	578.8
27.5°	630.7	580.1	538.5	587.1	640.4
30°	670.5	608.4	581.1	609.2	675.4
32.5°	727.9	650.8	640.1	661.1	737.0
35°	799.1	722.0	662.2	722.2	814.2
37.5°	938.7	786.7	765.6	809.5	949.1
40°	1037.2	888.8	843.8	905.2	1054.1
42.5°	1188.5	1003.4	889.3	1011.7	1214.4
45°	1329.3	1142.5	1034.3	1152.1	1348.3
47.5°	1478.2	1270.1	1229.5	1282.0	1492.3
50°	1654.2	1442.9	1414.6	1456.4	1660.1
52.5°	1861.8	1674.2	1590.5	1682.0	1863.9
55°	2108.4	1868.3	1849.6	1889.6	2111.6
57.5°	2349.6	2119.9	2239.9	2122.2	2307.8
60°	2521.7	2351.7	2560.9	2291.9	2428.9
62.5°	2532.6	2523.5	2960.6	2422.1	2402.9
65°	2296.6	2454.1	3295.3	2374.8	2181.2
67.5°	1807.8	2061.7	3346.0	2021.6	1752.4
70°	1136.0	1427.5	2958.0	1482.4	1168.2
72.5°	523.9	769.3	2227.5	865.9	553.8
75°	187.6	294.4	1374.3	316.3	196.2
77.5°	106.6	119.3	607.4	119.8	110.2
80°	68.6	74.3	175.4	78.5	66.8
82.5°	39.0	52.0	76.9	55.1	35.9
85°	21.1	33.0	34.0	33.8	21.1
87.5°	7.5	13.0	7.5	14.8	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)