

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: P368051

Luminaire Tested: **MSA-SA3D-727-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368051
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-SA3D-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: 17930 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

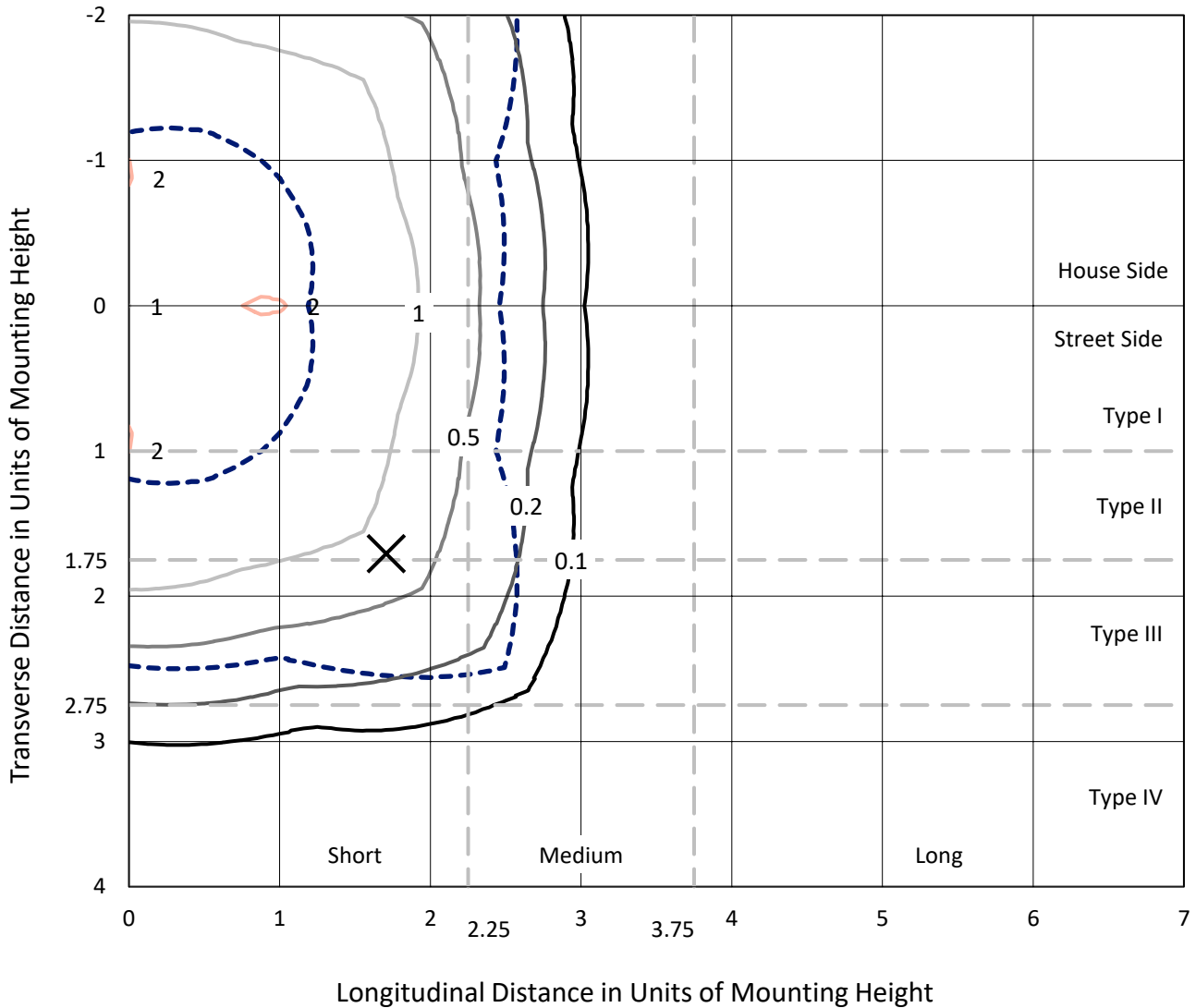
Input Watts (W): 192
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

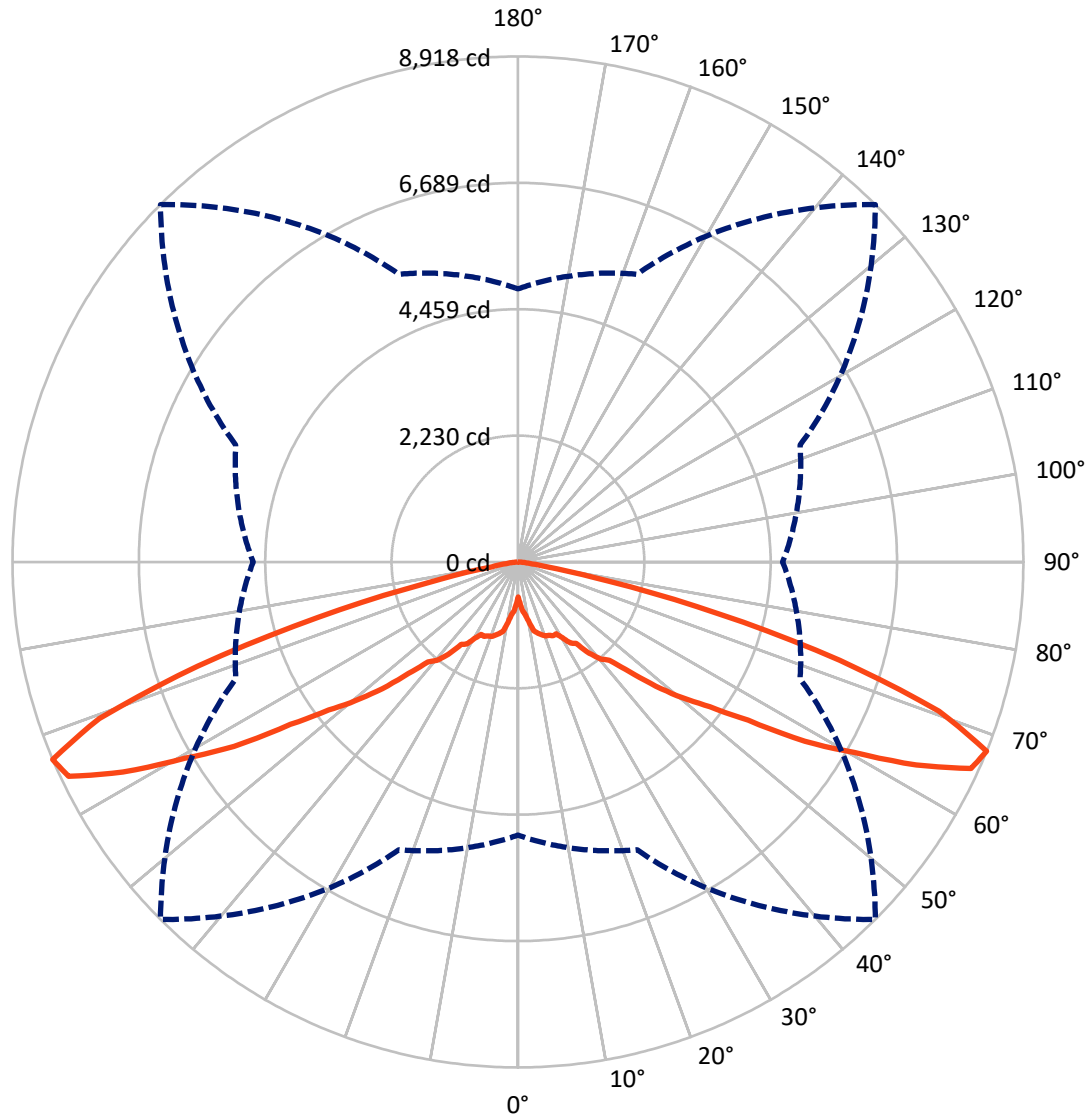
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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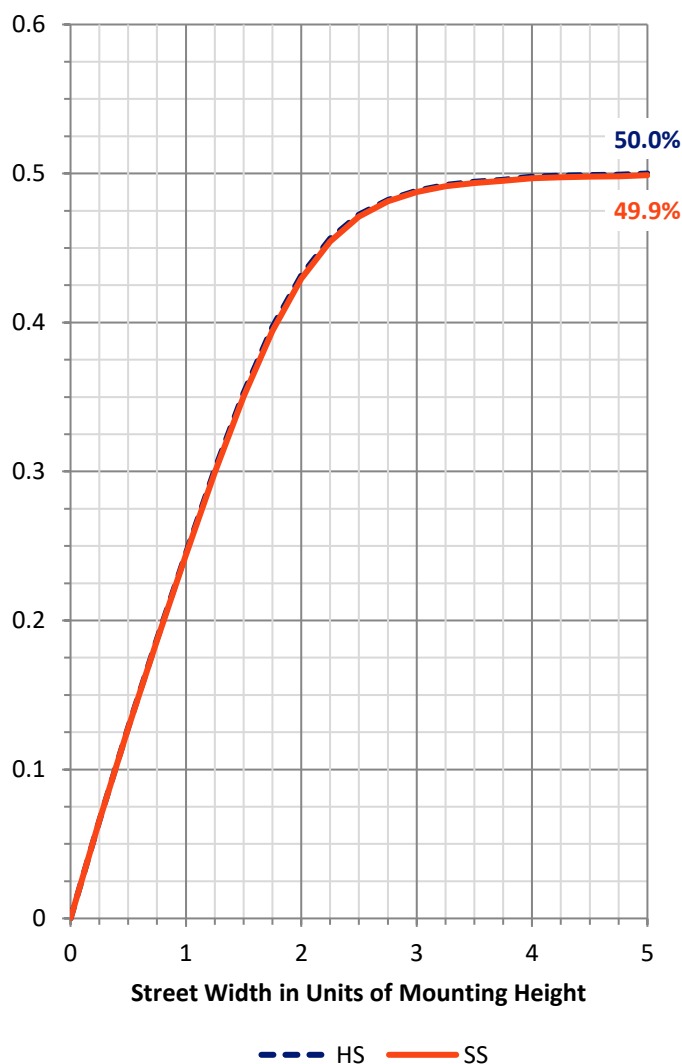
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8965.0	0.0	8965.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8965.0	0.0	8965.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17930.0	0.0	17930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	0.5
10°-20°	362.3	2.0
20°-30°	691.2	3.9
30°-40°	1263.8	7.0
40°-50°	2450.3	13.7
50°-60°	4679.3	26.1
60°-70°	6322.2	35.3
70°-80°	1963.5	11.0
80°-90°	105.8	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°	17930.0	100.0
0°-180°	17930.0	100.0

Coefficient of Utilization



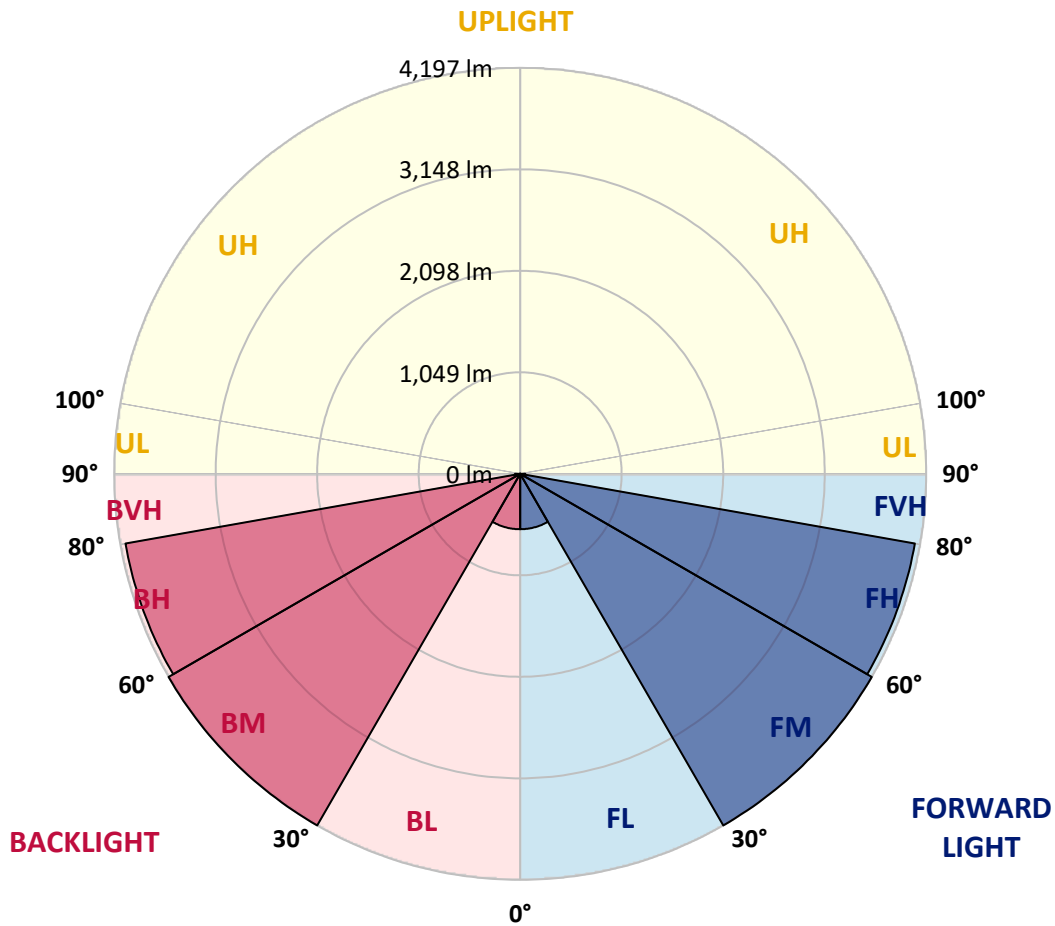
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	572.6	3.2			
FM (30°-60°)	4196.7	23.4			
FH (60°-80°)	4142.9	23.1			G2/5000
FVH (80°-90°)	52.9	0.3			G1/100
BL (0°-30°)	572.6	3.2	B2/1000		
BM (30°-60°)	4196.7	23.4	B3/5000		
BH (60°-80°)	4142.9	23.1	B4/5000		G2/5000
BVH (80°-90°)	52.9	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°	614.4	614.4	614.4	614.4	614.4
2.5°	756.4	707.9	730.1	707.9	756.4
5°	961.5	910.9	866.6	898.4	964.2
7.5°	1104.8	1029.3	935.8	1021.0	1098.6
10°	1129.1	1086.8	1082.7	1082.0	1126.3
12.5°	1219.8	1191.4	1248.2	1194.2	1222.6
15°	1290.5	1274.6	1300.2	1294.6	1293.3
17.5°	1399.9	1291.9	1350.1	1285.6	1396.5
20°	1448.4	1295.3	1393.0	1287.7	1447.7
22.5°	1508.0	1377.1	1406.2	1380.5	1502.4
25°	1541.9	1429.7	1440.1	1431.1	1542.6
27.5°	1681.2	1546.1	1435.3	1564.8	1706.8
30°	1787.1	1621.6	1548.9	1623.7	1800.3
32.5°	1940.2	1734.5	1706.1	1762.2	1964.5
35°	2130.0	1924.3	1765.0	1925.0	2170.2
37.5°	2502.0	2096.8	2040.7	2157.7	2529.7
40°	2764.5	2369.0	2249.2	2412.6	2809.6
42.5°	3167.7	2674.5	2370.4	2696.6	3236.9
45°	3543.1	3045.1	2756.9	3070.7	3593.7
47.5°	3940.0	3385.2	3277.1	3417.0	3977.4
50°	4409.0	3845.8	3770.3	3881.8	4424.9
52.5°	4962.4	4462.3	4239.3	4483.1	4968.0
55°	5619.8	4979.8	4929.9	5036.6	5628.1
57.5°	6262.6	5650.3	5970.3	5656.5	6151.1
60°	6721.2	6268.2	6825.8	6108.8	6473.9
62.5°	6750.3	6726.0	7891.1	6455.9	6404.6
65°	6121.3	6541.1	8783.3	6329.8	5813.8
67.5°	4818.4	5495.1	8918.4	5388.4	4670.8
70°	3027.8	3805.0	7884.2	3951.1	3113.6
72.5°	1396.5	2050.4	5937.1	2308.0	1476.1
75°	500.1	784.8	3662.9	843.0	523.0
77.5°	284.0	317.9	1618.8	319.3	293.7
80°	182.9	198.1	467.6	209.2	178.0
82.5°	103.9	138.5	205.0	146.9	95.6
85°	56.1	88.0	90.7	90.0	56.1
87.5°	20.1	34.6	20.1	39.5	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)