

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: P367083

Luminaire Tested: **MSA-SA1D-760-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367083
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-760-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: 7386 lumens
Efficiency: N/A
Efficacy: 110.2 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

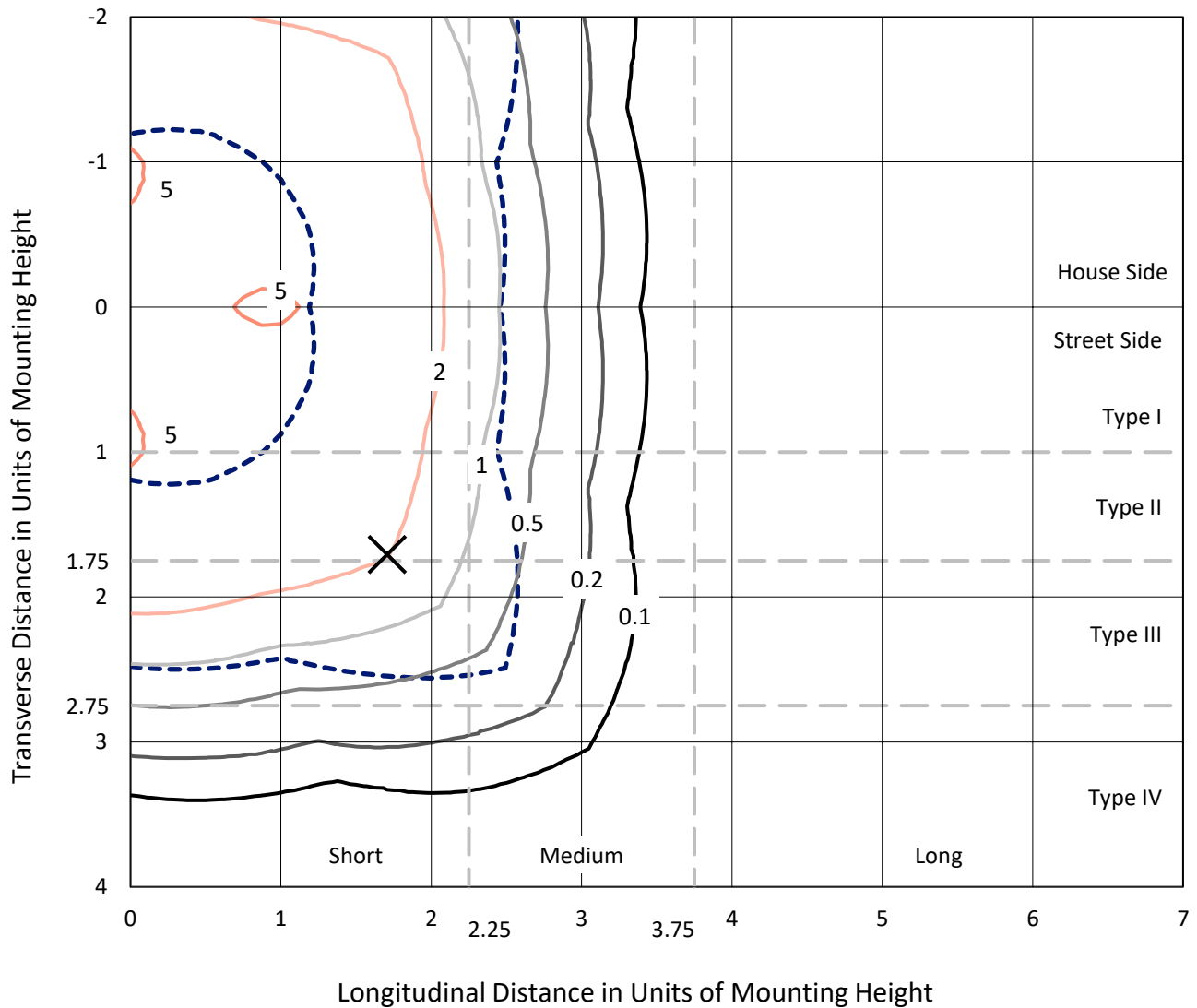
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

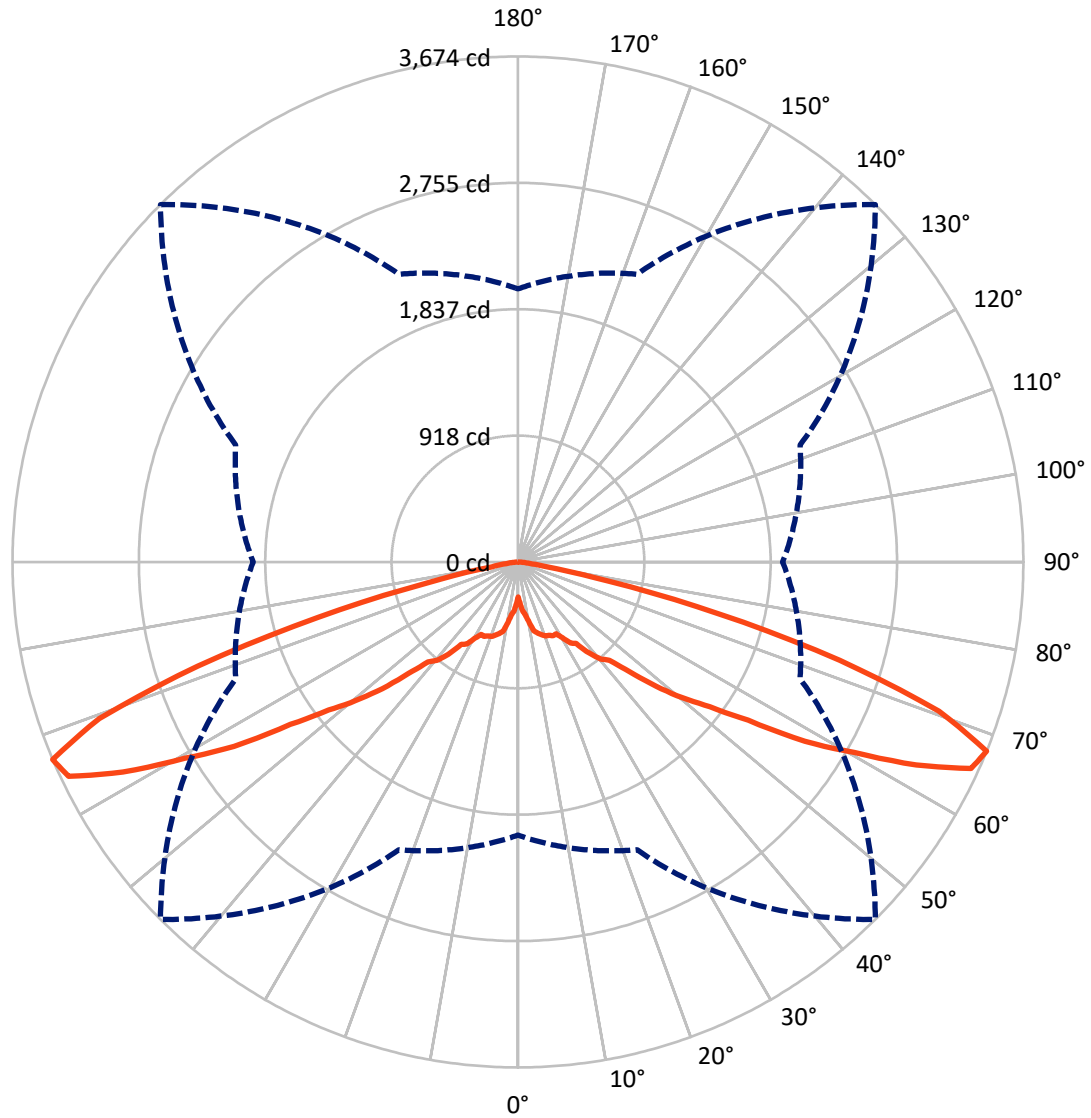
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 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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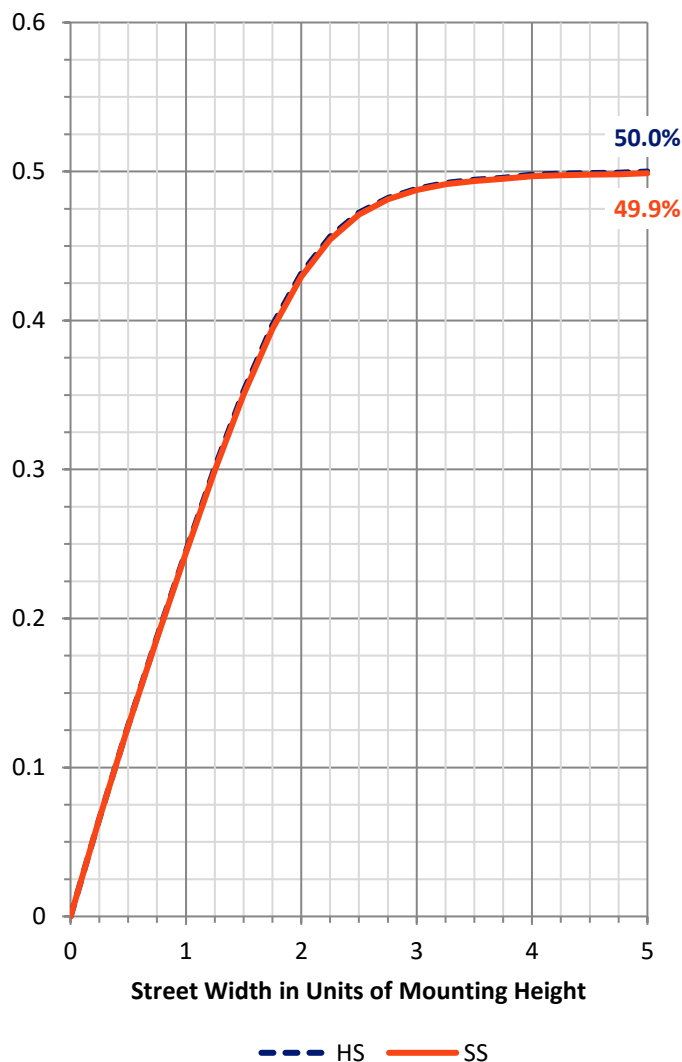
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3693.0	0.0	3693.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3693.0	0.0	3693.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7386.0	0.0	7386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	0.5
10°-20°	149.2	2.0
20°-30°	284.7	3.9
30°-40°	520.6	7.0
40°-50°	1009.4	13.7
50°-60°	1927.6	26.1
60°-70°	2604.4	35.3
70°-80°	808.8	11.0
80°-90°	43.6	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°	7386.0	100.0
0°-180°	7386.0	100.0

Coefficient of Utilization



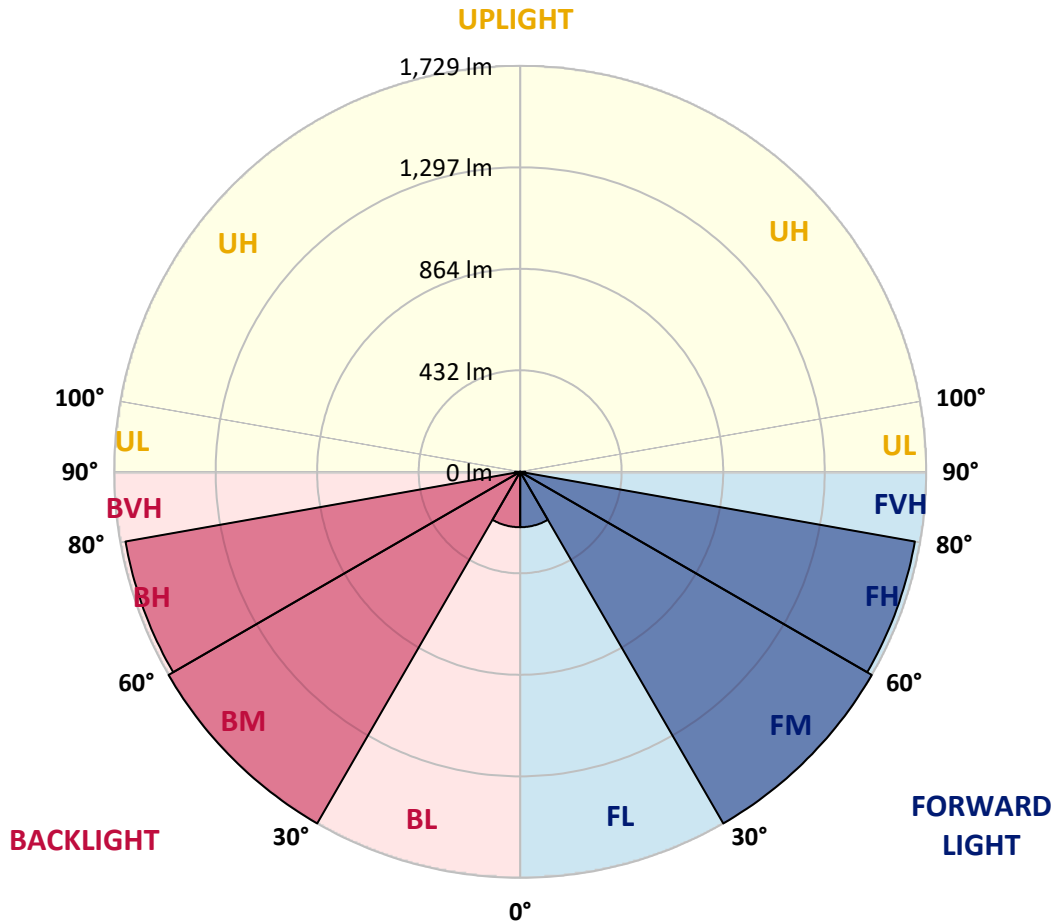
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.9	3.2			
FM (30°-60°)	1728.8	23.4			
FH (60°-80°)	1706.6	23.1			G1/1800
FVH (80°-90°)	21.8	0.3			G1/100
BL (0°-30°)	235.9	3.2	B1/500		
BM (30°-60°)	1728.8	23.4	B2/2500		
BH (60°-80°)	1706.6	23.1	B3/2500		G1/1800
BVH (80°-90°)	21.8	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°	253.1	253.1	253.1	253.1	253.1
2.5°	311.6	291.6	300.8	291.6	311.6
5°	396.1	375.2	357.0	370.1	397.2
7.5°	455.1	424.0	385.5	420.6	452.6
10°	465.1	447.7	446.0	445.7	464.0
12.5°	502.5	490.8	514.2	491.9	503.6
15°	531.6	525.0	535.6	533.3	532.7
17.5°	576.7	532.2	556.1	529.6	575.3
20°	596.7	533.6	573.8	530.5	596.4
22.5°	621.2	567.3	579.2	568.7	618.9
25°	635.2	588.9	593.2	589.5	635.5
27.5°	692.5	636.9	591.2	644.6	703.1
30°	736.2	668.0	638.0	668.8	741.6
32.5°	799.2	714.5	702.8	725.9	809.2
35°	877.4	792.7	727.1	793.0	894.0
37.5°	1030.7	863.7	840.6	888.8	1042.1
40°	1138.8	975.9	926.5	993.9	1157.4
42.5°	1304.9	1101.7	976.4	1110.8	1333.4
45°	1459.5	1254.4	1135.7	1264.9	1480.4
47.5°	1623.0	1394.5	1350.0	1407.6	1638.4
50°	1816.2	1584.2	1553.1	1599.1	1822.8
52.5°	2044.2	1838.2	1746.3	1846.7	2046.5
55°	2315.0	2051.3	2030.8	2074.7	2318.4
57.5°	2579.8	2327.5	2459.4	2330.1	2533.9
60°	2768.7	2582.1	2811.8	2516.4	2666.8
62.5°	2780.7	2770.7	3250.6	2659.4	2638.3
65°	2521.6	2694.5	3618.2	2607.5	2394.9
67.5°	1984.9	2263.6	3673.8	2219.7	1924.1
70°	1247.2	1567.4	3247.8	1627.6	1282.6
72.5°	575.3	844.6	2445.7	950.8	608.1
75°	206.0	323.3	1508.9	347.3	215.4
77.5°	117.0	131.0	666.8	131.5	121.0
80°	75.3	81.6	192.6	86.2	73.3
82.5°	42.8	57.1	84.5	60.5	39.4
85°	23.1	36.2	37.4	37.1	23.1
87.5°	8.3	14.3	8.3	16.3	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)