

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: P367611

Luminaire Tested: **MSA-SA2D-760-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367611  
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-SA2D-760-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: 14527 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

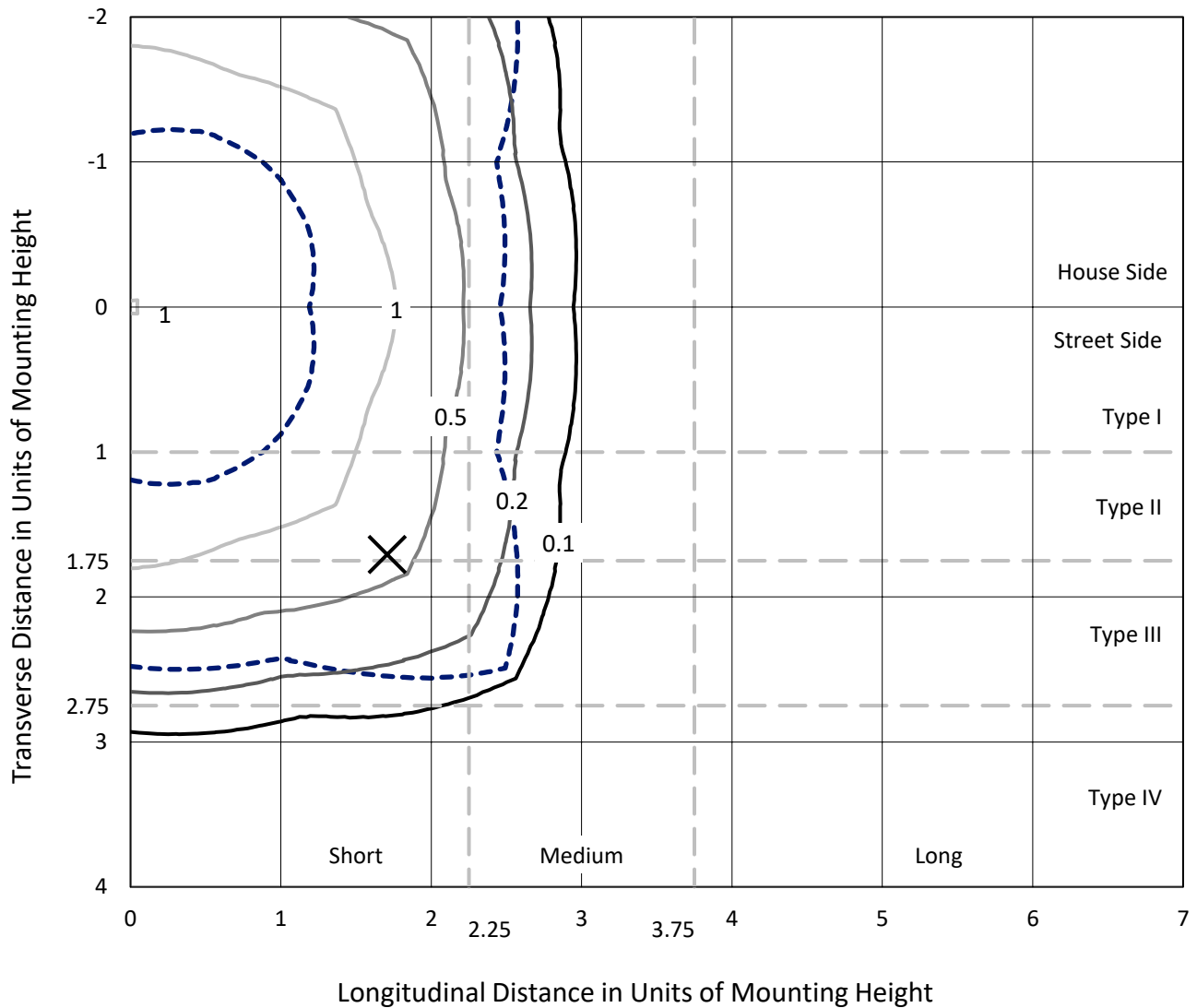
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

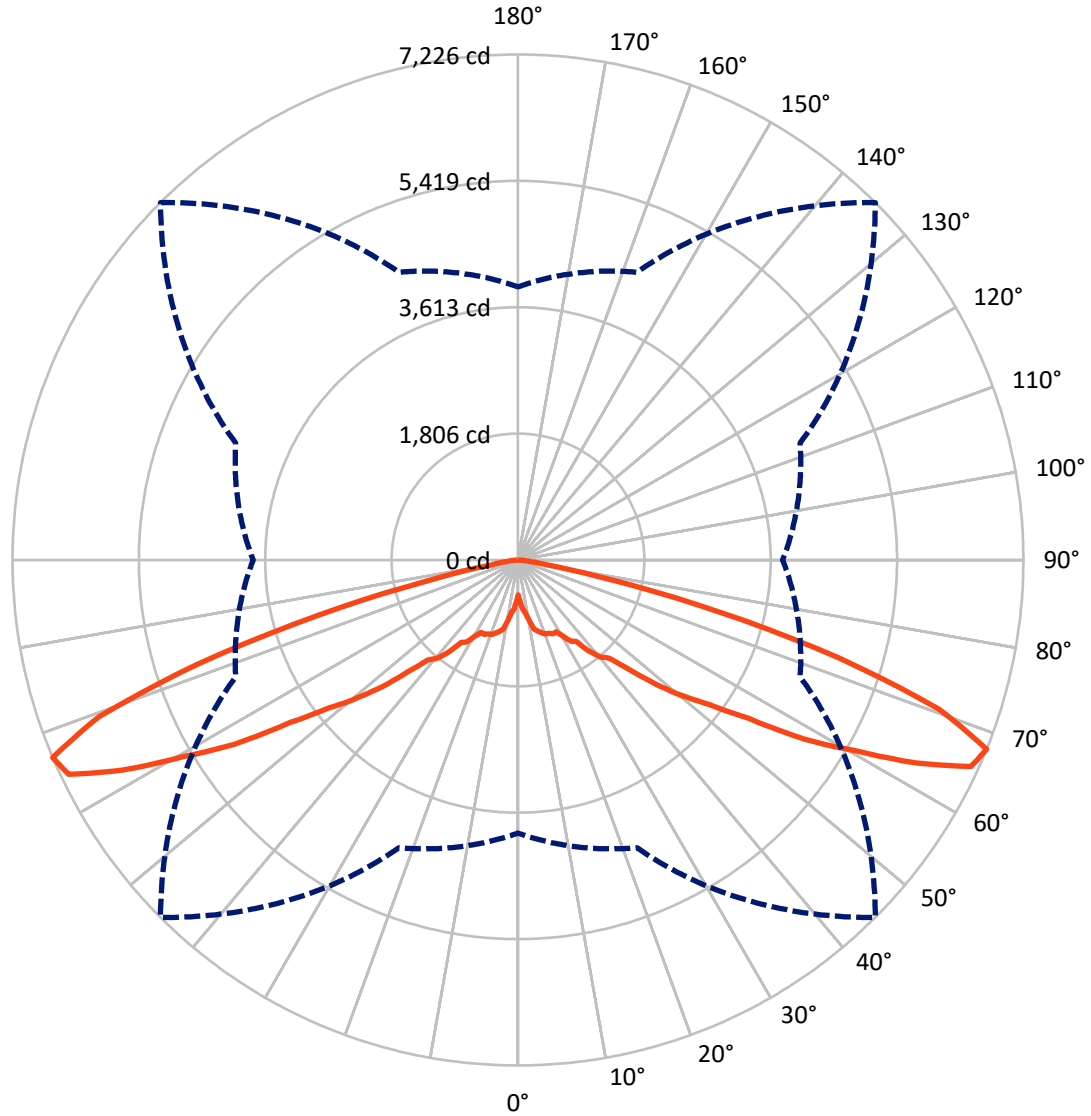
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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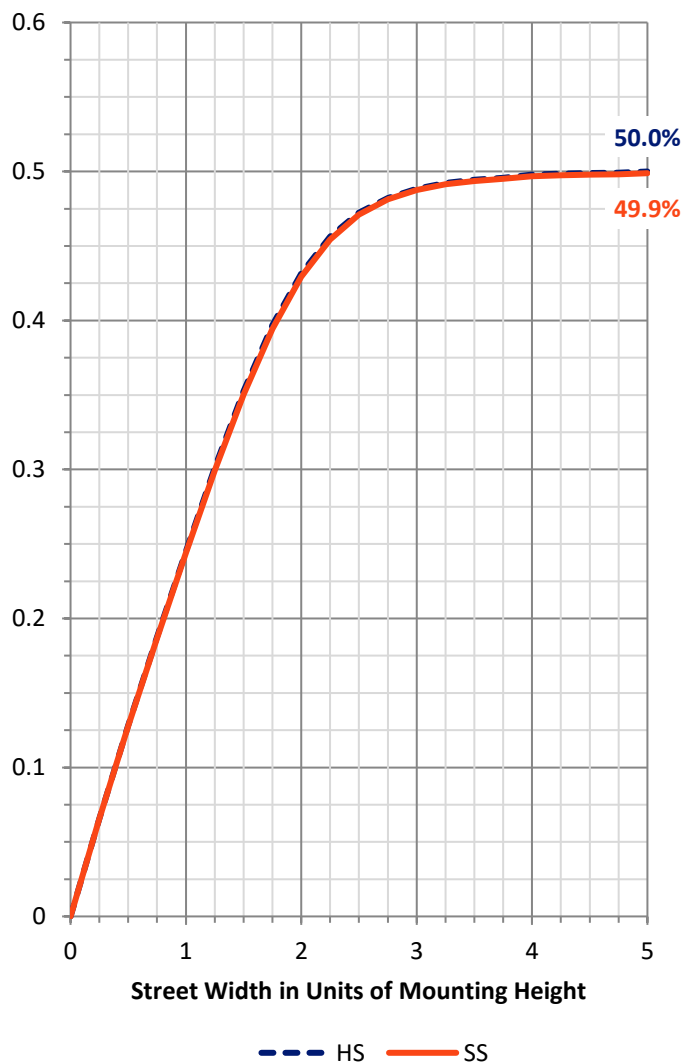
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7263.5	0.0	7263.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7263.5	0.0	7263.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14527.0	0.0	14527.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.2	0.5
10°-20°	293.5	2.0
20°-30°	560.0	3.9
30°-40°	1023.9	7.0
40°-50°	1985.3	13.7
50°-60°	3791.2	26.1
60°-70°	5122.3	35.3
70°-80°	1590.8	11.0
80°-90°	85.7	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°	14527.0	100.0
0°-180°	14527.0	100.0

**Coefficient of Utilization**



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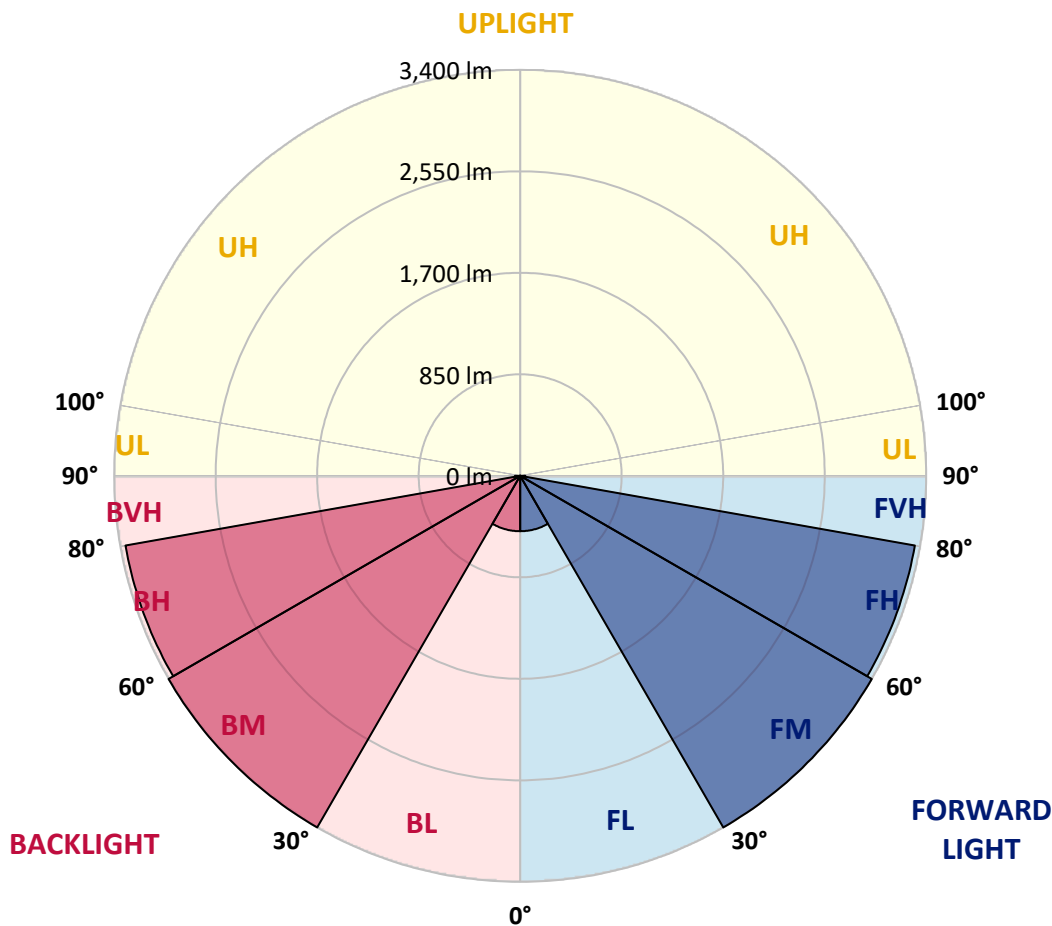
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.9	3.2			
FM (30°-60°)	3400.2	23.4			
FH (60°-80°)	3356.6	23.1			G2/5000
FVH (80°-90°)	42.9	0.3			G1/100
BL (0°-30°)	463.9	3.2	B1/500		
BM (30°-60°)	3400.2	23.4	B3/5000		
BH (60°-80°)	3356.6	23.1	B4/5000		G2/5000
BVH (80°-90°)	42.9	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°	497.8	497.8	497.8	497.8	497.8
2.5°	612.9	573.6	591.5	573.6	612.9
5°	779.0	738.0	702.1	727.9	781.2
7.5°	895.2	834.0	758.2	827.2	890.1
10°	914.8	880.6	877.2	876.6	912.5
12.5°	988.3	965.3	1011.3	967.5	990.6
15°	1045.6	1032.6	1053.4	1048.9	1047.8
17.5°	1134.2	1046.7	1093.8	1041.6	1131.4
20°	1173.5	1049.5	1128.6	1043.3	1173.0
22.5°	1221.8	1115.7	1139.3	1118.5	1217.3
25°	1249.3	1158.4	1166.8	1159.5	1249.8
27.5°	1362.1	1252.6	1162.9	1267.8	1382.9
30°	1448.0	1313.8	1254.9	1315.5	1458.6
32.5°	1572.0	1405.3	1382.3	1427.8	1591.6
35°	1725.8	1559.1	1430.0	1559.6	1758.3
37.5°	2027.1	1698.8	1653.4	1748.2	2049.6
40°	2239.8	1919.4	1822.3	1954.7	2276.3
42.5°	2566.5	2166.9	1920.5	2184.8	2622.6
45°	2870.7	2467.1	2233.7	2487.9	2911.6
47.5°	3192.2	2742.7	2655.1	2768.5	3222.5
50°	3572.2	3115.9	3054.7	3145.1	3585.1
52.5°	4020.6	3615.4	3434.7	3632.2	4025.1
55°	4553.2	4034.6	3994.2	4080.6	4559.9
57.5°	5074.0	4577.9	4837.2	4582.9	4983.7
60°	5445.5	5078.5	5530.3	4949.4	5245.2
62.5°	5469.1	5449.5	6393.4	5230.6	5189.1
65°	4959.5	5299.6	7116.3	5128.5	4710.3
67.5°	3903.9	4452.2	7225.7	4365.8	3784.3
70°	2453.1	3082.8	6387.8	3201.2	2522.7
72.5°	1131.4	1661.2	4810.2	1870.0	1196.0
75°	405.2	635.9	2967.7	683.0	423.7
77.5°	230.1	257.6	1311.6	258.7	238.0
80°	148.2	160.5	378.8	169.5	144.2
82.5°	84.2	112.2	166.1	119.0	77.4
85°	45.5	71.3	73.5	73.0	45.5
87.5°	16.3	28.1	16.3	32.0	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)