

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: P368007

Luminaire Tested: **MSA-SA3C-760-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368007  
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-SA3C-760-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: 19609 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

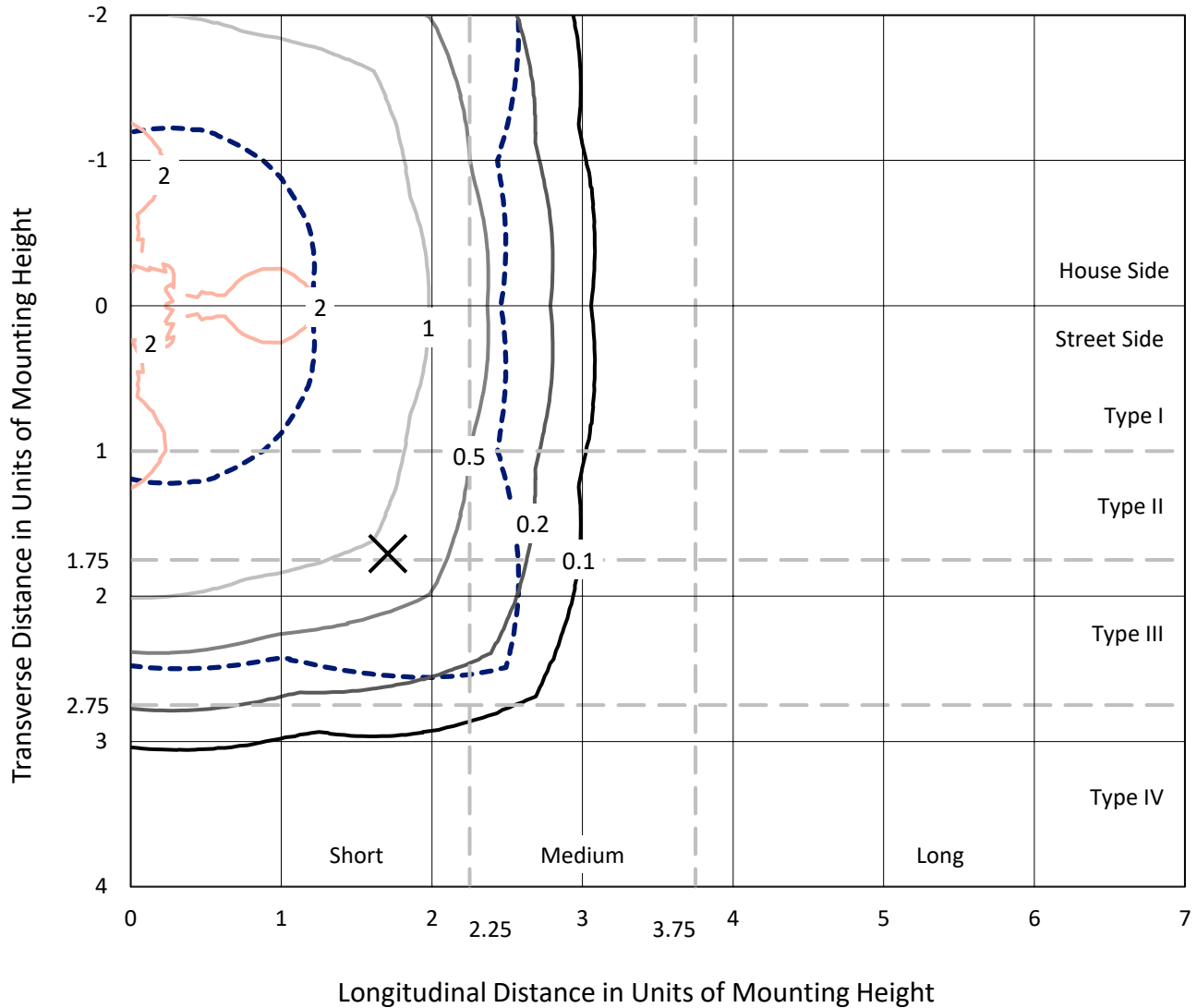
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

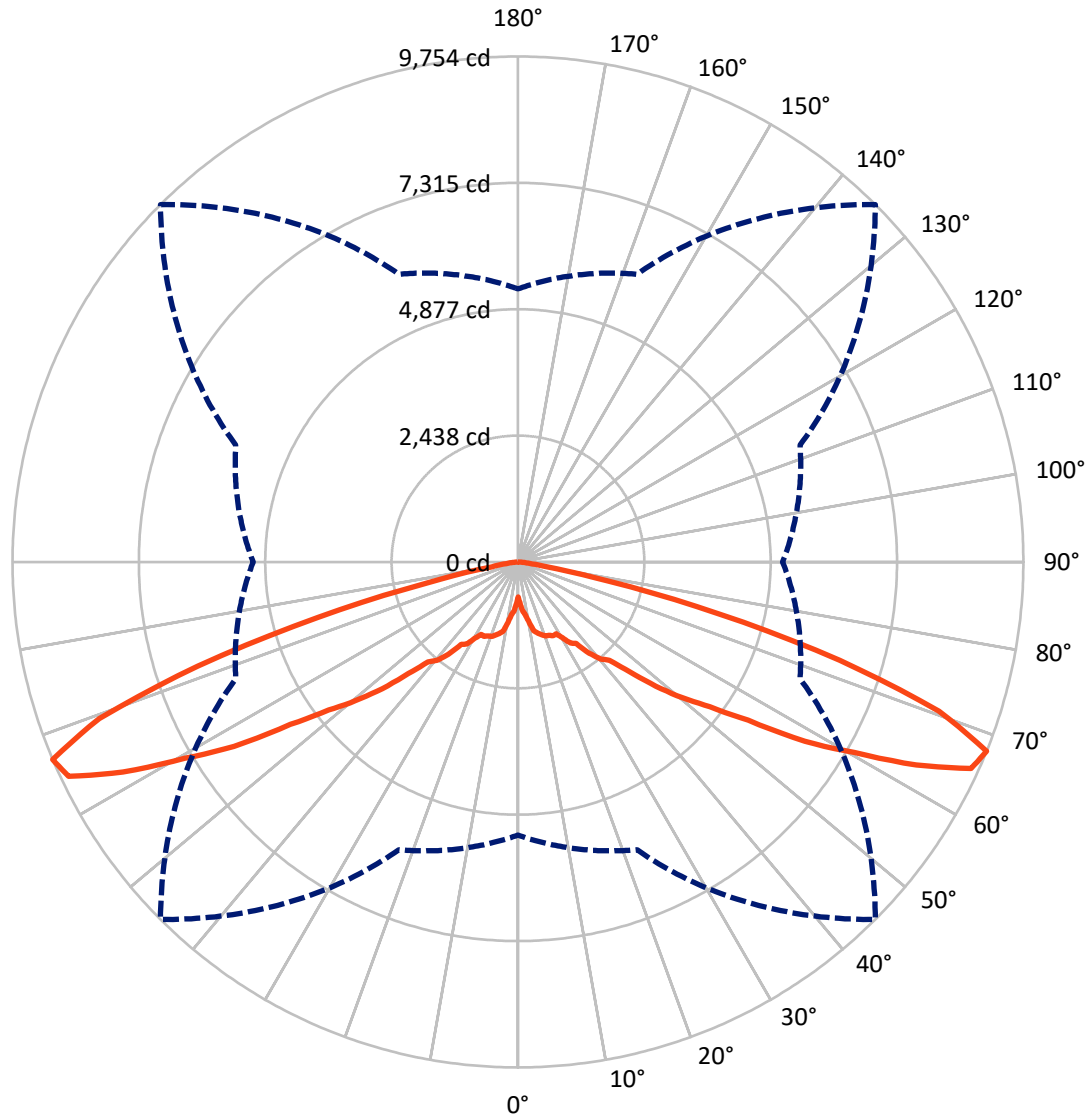
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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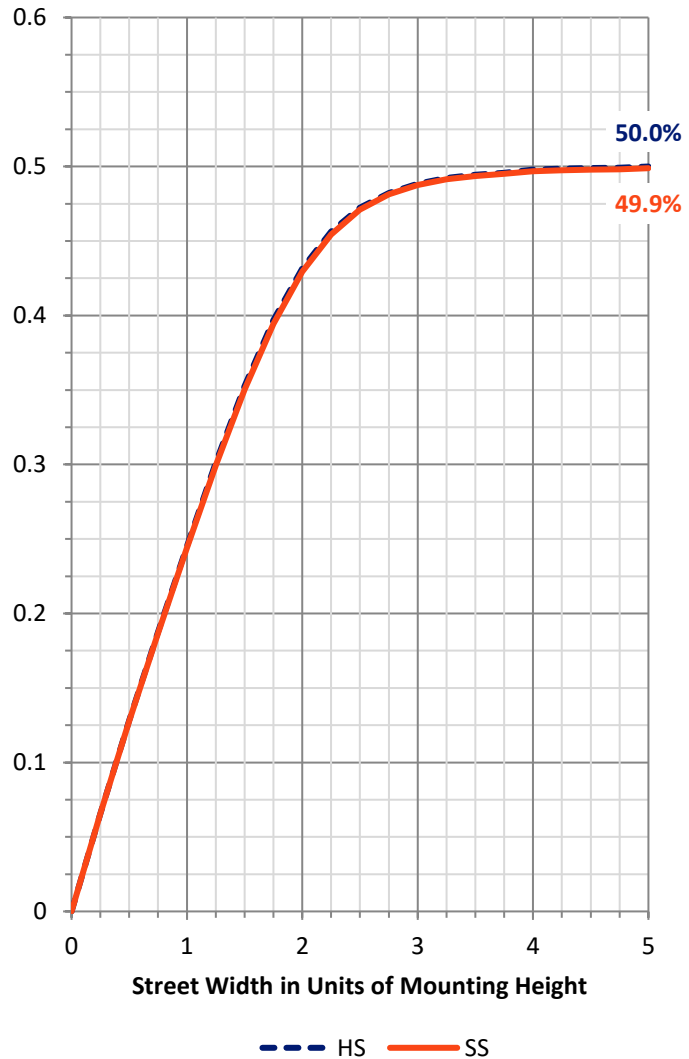
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9804.5	0.0	9804.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9804.5	0.0	9804.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19609.0	0.0	19609.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.2	0.5
10°-20°	396.2	2.0
20°-30°	755.9	3.9
30°-40°	1382.1	7.0
40°-50°	2679.8	13.7
50°-60°	5117.5	26.1
60°-70°	6914.3	35.3
70°-80°	2147.4	11.0
80°-90°	115.7	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°	19609.0	100.0
0°-180°	19609.0	100.0

**Coefficient of Utilization**



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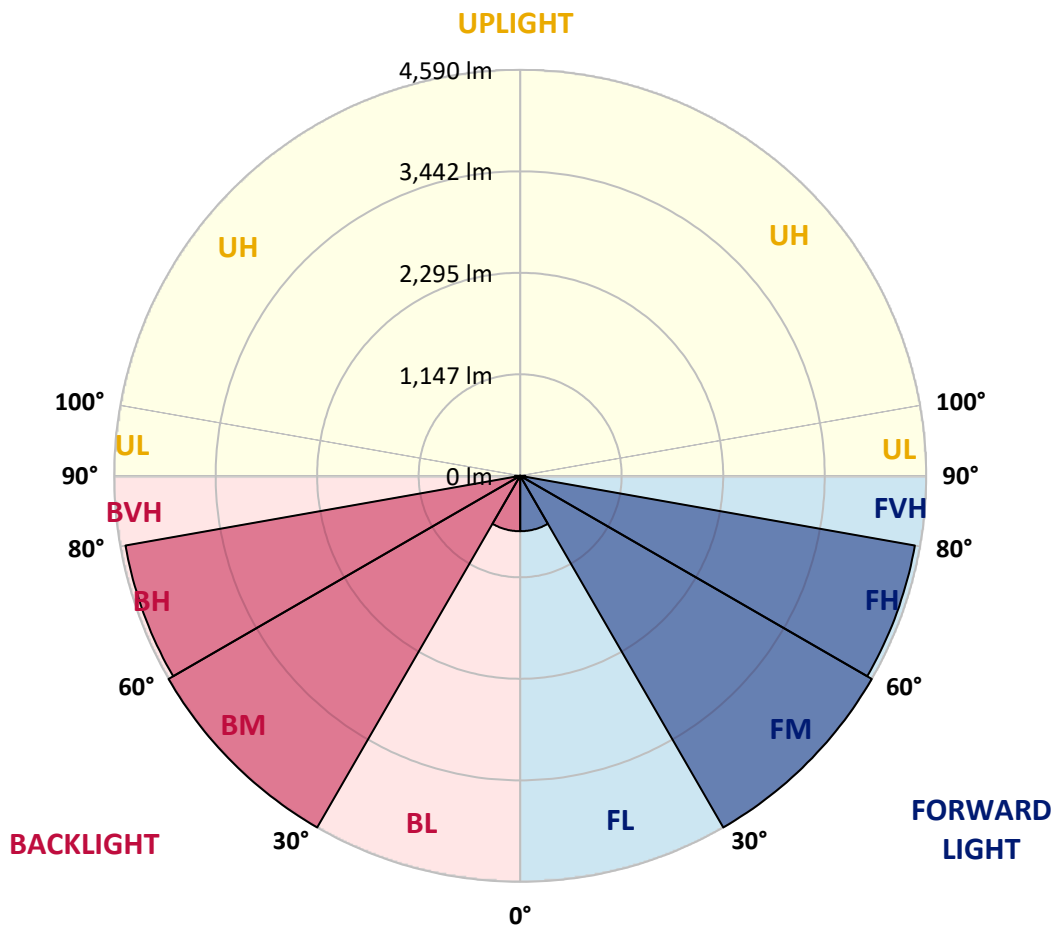
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.2	3.2			
FM (30°-60°)	4589.7	23.4			
FH (60°-80°)	4530.8	23.1			G2/5000
FVH (80°-90°)	57.8	0.3			G1/100
BL (0°-30°)	626.2	3.2	B2/1000		
BM (30°-60°)	4589.7	23.4	B3/5000		
BH (60°-80°)	4530.8	23.1	B4/5000		G2/5000
BVH (80°-90°)	57.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	672.0	672.0	672.0	672.0	672.0
2.5°	827.3	774.2	798.5	774.2	827.3
5°	1051.5	996.2	947.7	982.5	1054.5
7.5°	1208.3	1125.7	1023.5	1116.6	1201.5
10°	1234.8	1188.6	1184.1	1183.3	1231.8
12.5°	1334.1	1303.0	1365.1	1306.0	1337.1
15°	1411.3	1393.9	1421.9	1415.9	1414.4
17.5°	1531.0	1412.8	1476.5	1406.0	1527.2
20°	1584.0	1416.6	1523.4	1408.3	1583.3
22.5°	1649.2	1506.0	1537.8	1509.8	1643.1
25°	1686.3	1563.6	1575.0	1565.1	1687.1
27.5°	1838.6	1690.9	1569.7	1711.3	1866.6
30°	1954.5	1773.4	1693.9	1775.7	1968.9
32.5°	2121.9	1896.9	1865.9	1927.2	2148.4
35°	2329.5	2104.5	1930.3	2105.2	2373.4
37.5°	2736.3	2293.1	2231.8	2359.8	2766.6
40°	3023.4	2590.8	2459.8	2638.6	3072.6
42.5°	3464.3	2924.9	2592.4	2949.2	3540.1
45°	3874.9	3330.2	3015.1	3358.2	3930.2
47.5°	4309.0	3702.2	3584.0	3737.0	4349.9
50°	4821.8	4205.9	4123.4	4245.3	4839.3
52.5°	5427.1	4880.2	4636.2	4902.9	5433.2
55°	6146.1	5446.1	5391.5	5508.2	6155.1
57.5°	6849.1	6179.4	6529.4	6186.2	6727.1
60°	7350.6	6855.1	7465.0	6680.9	7080.1
62.5°	7382.4	7355.9	8630.1	7060.4	7004.4
65°	6694.5	7153.6	9605.8	6922.5	6358.2
67.5°	5269.6	6009.7	9753.5	5893.0	5108.2
70°	3311.3	4161.3	8622.5	4321.1	3405.2
72.5°	1527.2	2242.4	6493.0	2524.2	1614.4
75°	547.0	858.3	4006.0	921.9	572.0
77.5°	310.6	347.7	1770.4	349.2	321.2
80°	200.0	216.7	511.4	228.8	194.7
82.5°	113.6	151.5	224.2	160.6	104.5
85°	61.4	96.2	99.2	98.5	61.4
87.5°	22.0	37.9	22.0	43.2	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)