

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: P368403

Luminaire Tested: **MSA-SA4B-760-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368403  
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-SA4B-760-U-5MQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20927 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

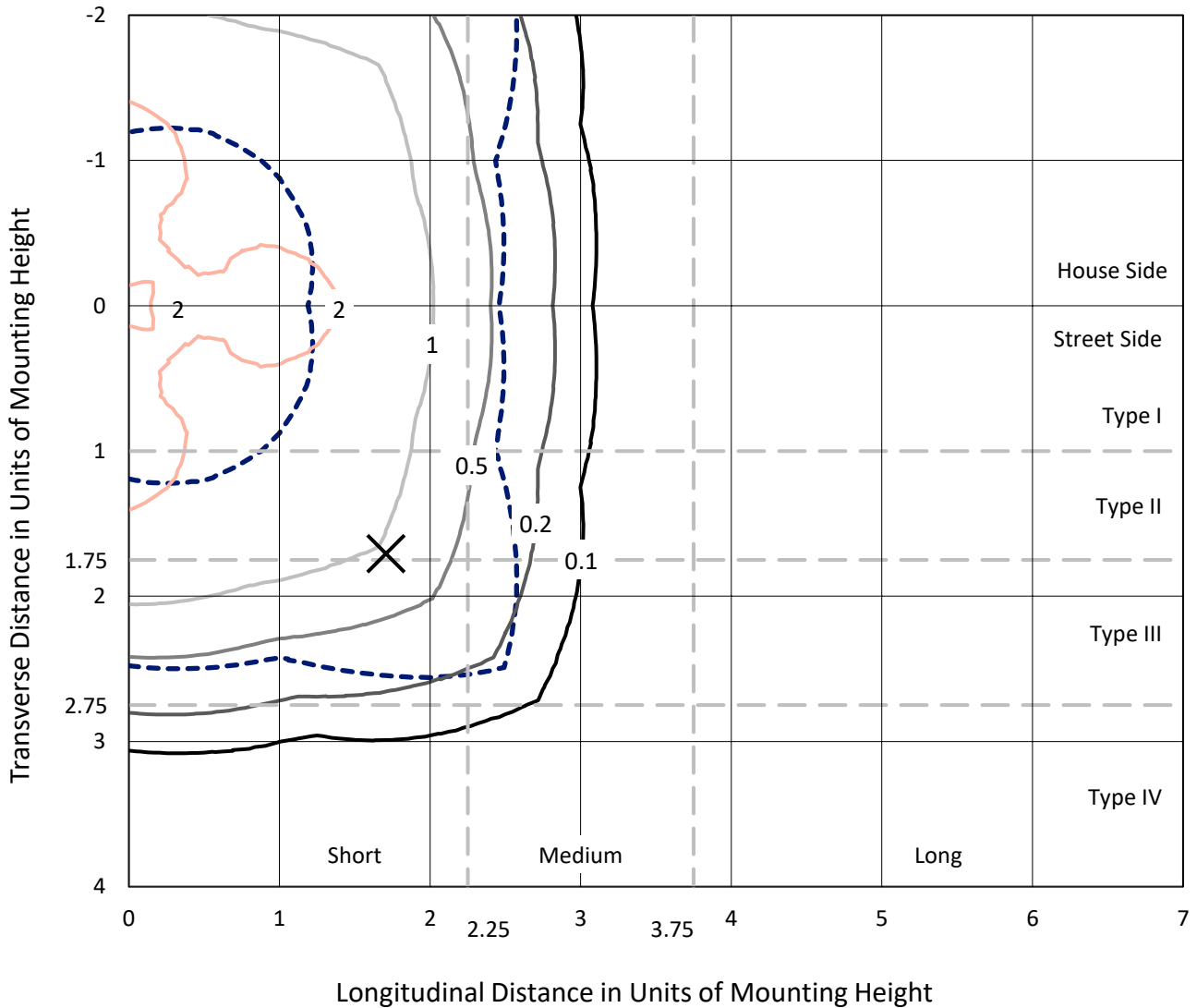
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

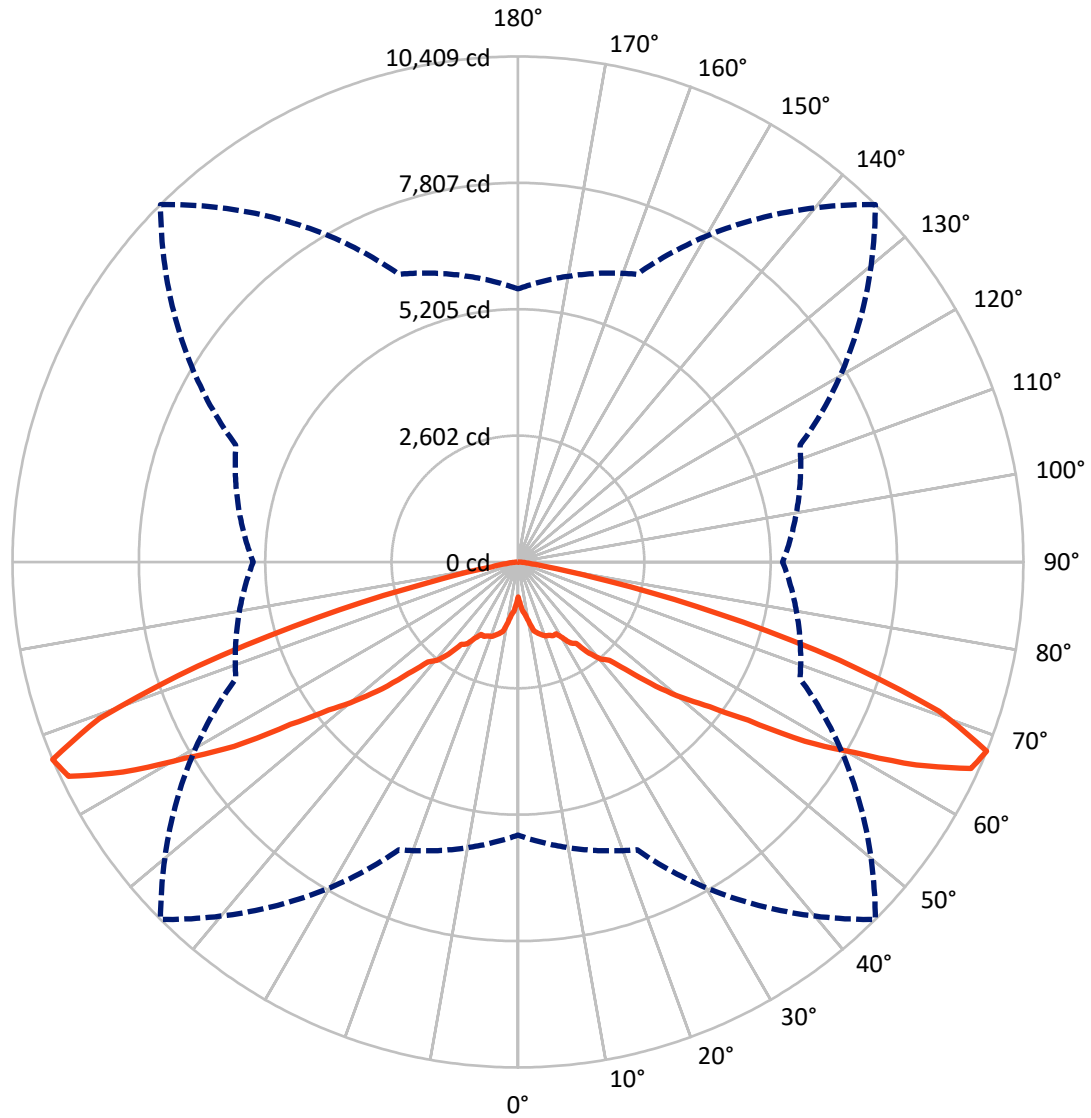
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	10463.5	0.0	10463.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10463.5	0.0	10463.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20927.0	0.0	20927.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.9	0.5
10°-20°	422.8	2.0
20°-30°	806.7	3.9
30°-40°	1475.0	7.0
40°-50°	2859.9	13.7
50°-60°	5461.5	26.1
60°-70°	7379.0	35.3
70°-80°	2291.7	11.0
80°-90°	123.5	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°	20927.0	100.0
0°-180°	20927.0	100.0

**Coefficient of Utilization**

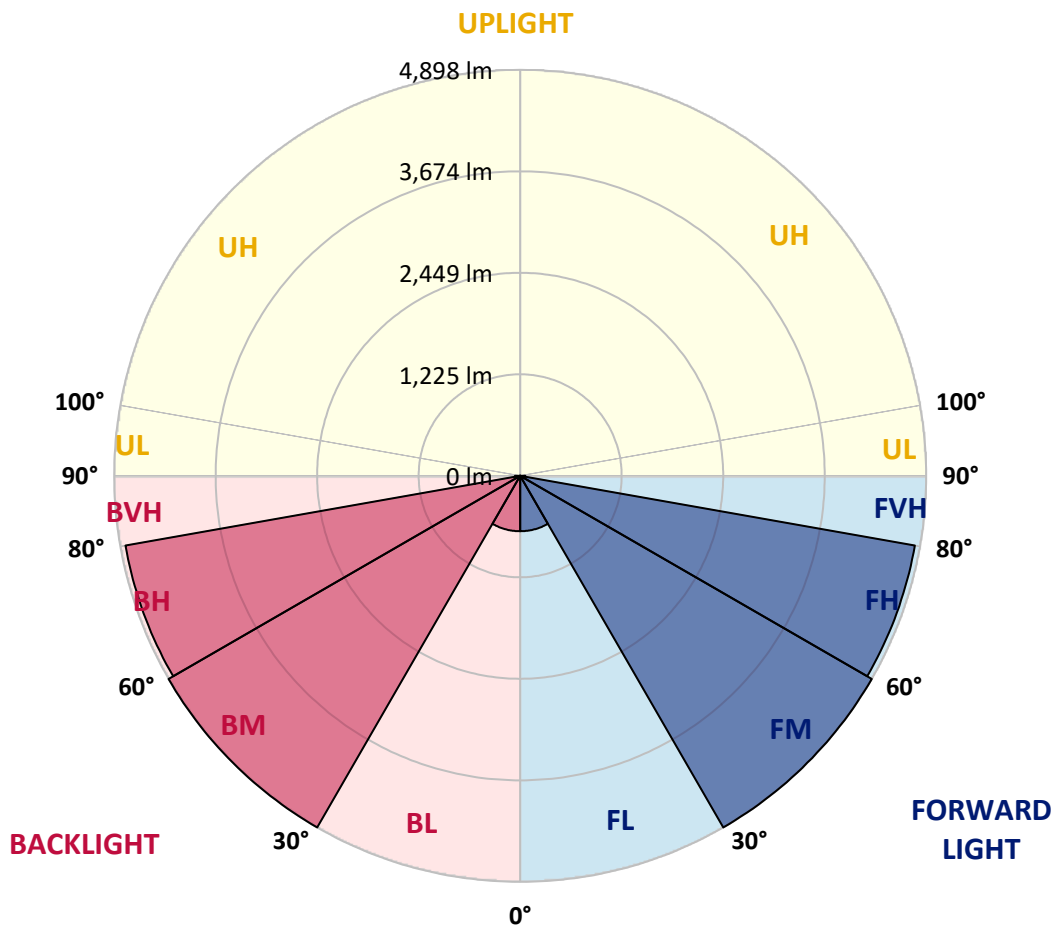


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	668.3	3.2			
FM (30°-60°)	4898.2	23.4			
FH (60°-80°)	4835.3	23.1			G2/5000
FVH (80°-90°)	61.7	0.3			G1/100
BL (0°-30°)	668.3	3.2	B2/1000		
BM (30°-60°)	4898.2	23.4	B3/5000		
BH (60°-80°)	4835.3	23.1	B4/5000		G2/5000
BVH (80°-90°)	61.7	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°	717.1	717.1	717.1	717.1	717.1
2.5°	882.9	826.3	852.1	826.3	882.9
5°	1122.2	1063.1	1011.4	1048.6	1125.4
7.5°	1289.5	1201.4	1092.2	1191.7	1282.2
10°	1317.8	1268.5	1263.6	1262.8	1314.6
12.5°	1423.7	1390.6	1456.9	1393.8	1427.0
15°	1506.2	1487.6	1517.5	1511.0	1509.4
17.5°	1633.9	1507.8	1575.7	1500.5	1629.9
20°	1690.5	1511.8	1625.8	1503.0	1689.7
22.5°	1760.0	1607.2	1641.2	1611.3	1753.6
25°	1799.7	1668.7	1680.8	1670.3	1800.5
27.5°	1962.2	1804.5	1675.2	1826.3	1992.1
30°	2085.9	1892.6	1807.7	1895.1	2101.2
32.5°	2264.5	2024.4	1991.3	2056.8	2292.8
35°	2486.1	2245.9	2060.0	2246.7	2532.9
37.5°	2920.2	2447.3	2381.8	2518.4	2952.5
40°	3226.6	2765.0	2625.1	2815.9	3279.2
42.5°	3697.2	3121.5	2766.6	3147.4	3778.0
45°	4135.3	3554.1	3217.7	3584.0	4194.4
47.5°	4598.6	3951.0	3824.9	3988.2	4642.3
50°	5145.9	4488.6	4400.5	4530.7	5164.5
52.5°	5791.9	5208.2	4947.9	5232.4	5798.4
55°	6559.2	5812.1	5753.9	5878.4	6568.9
57.5°	7309.4	6594.7	6968.2	6602.0	7179.3
60°	7844.6	7315.9	7966.7	7129.9	7556.0
62.5°	7878.6	7850.3	9210.1	7535.0	7475.2
65°	7144.5	7634.4	10251.5	7387.8	6785.5
67.5°	5623.7	6413.6	10409.1	6289.1	5451.5
70°	3533.8	4440.9	9202.1	4611.5	3634.1
72.5°	1629.9	2393.1	6929.4	2693.8	1722.9
75°	583.7	916.0	4275.2	983.9	610.4
77.5°	331.5	371.1	1889.4	372.7	342.8
80°	213.4	231.2	545.7	244.2	207.8
82.5°	121.3	161.7	239.3	171.4	111.6
85°	65.5	102.7	105.9	105.1	65.5
87.5°	23.4	40.4	23.4	46.1	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)