

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: P367941

Luminaire Tested: **MSA-SA3C-730-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367941  
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-730-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: 17858 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

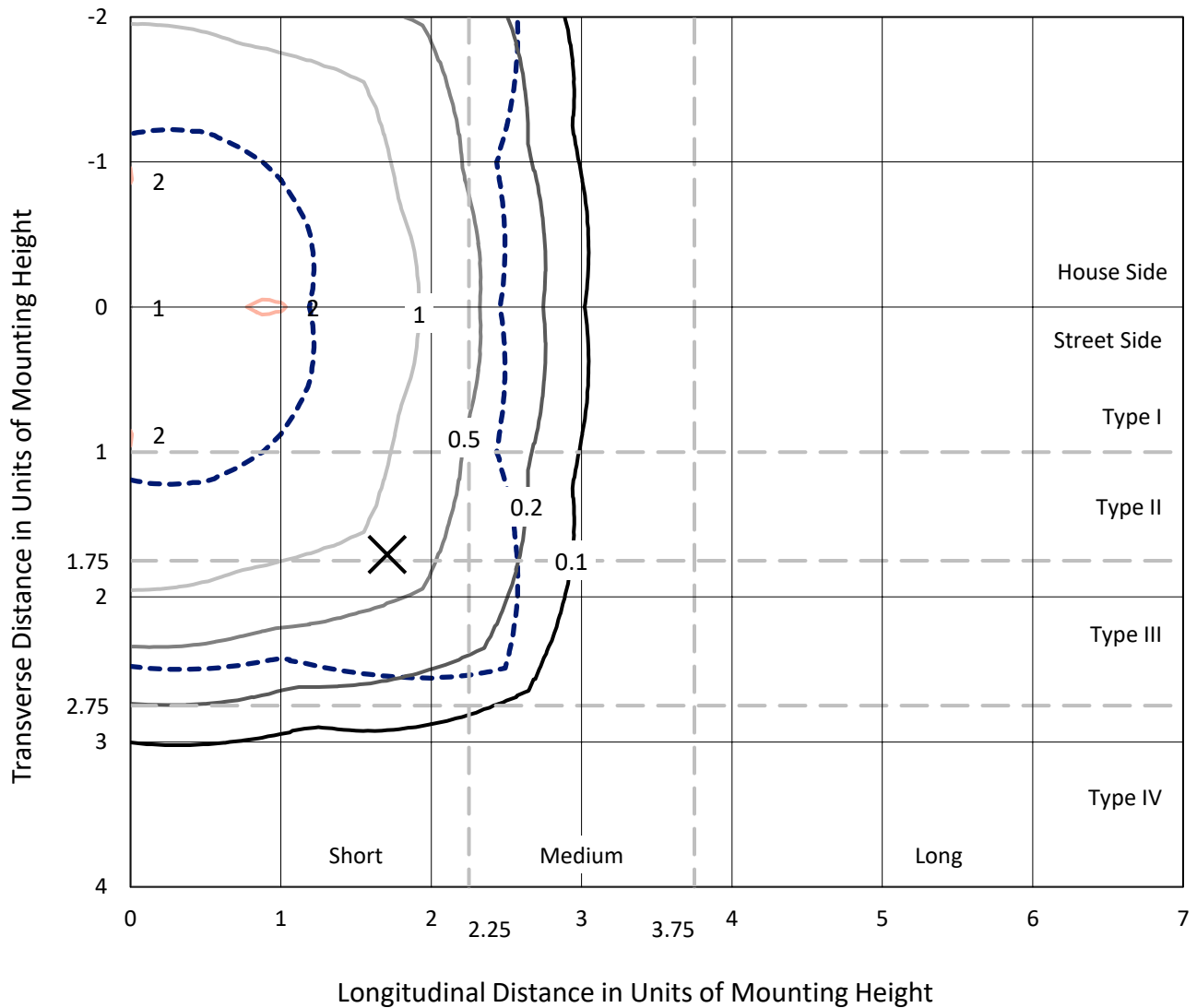
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

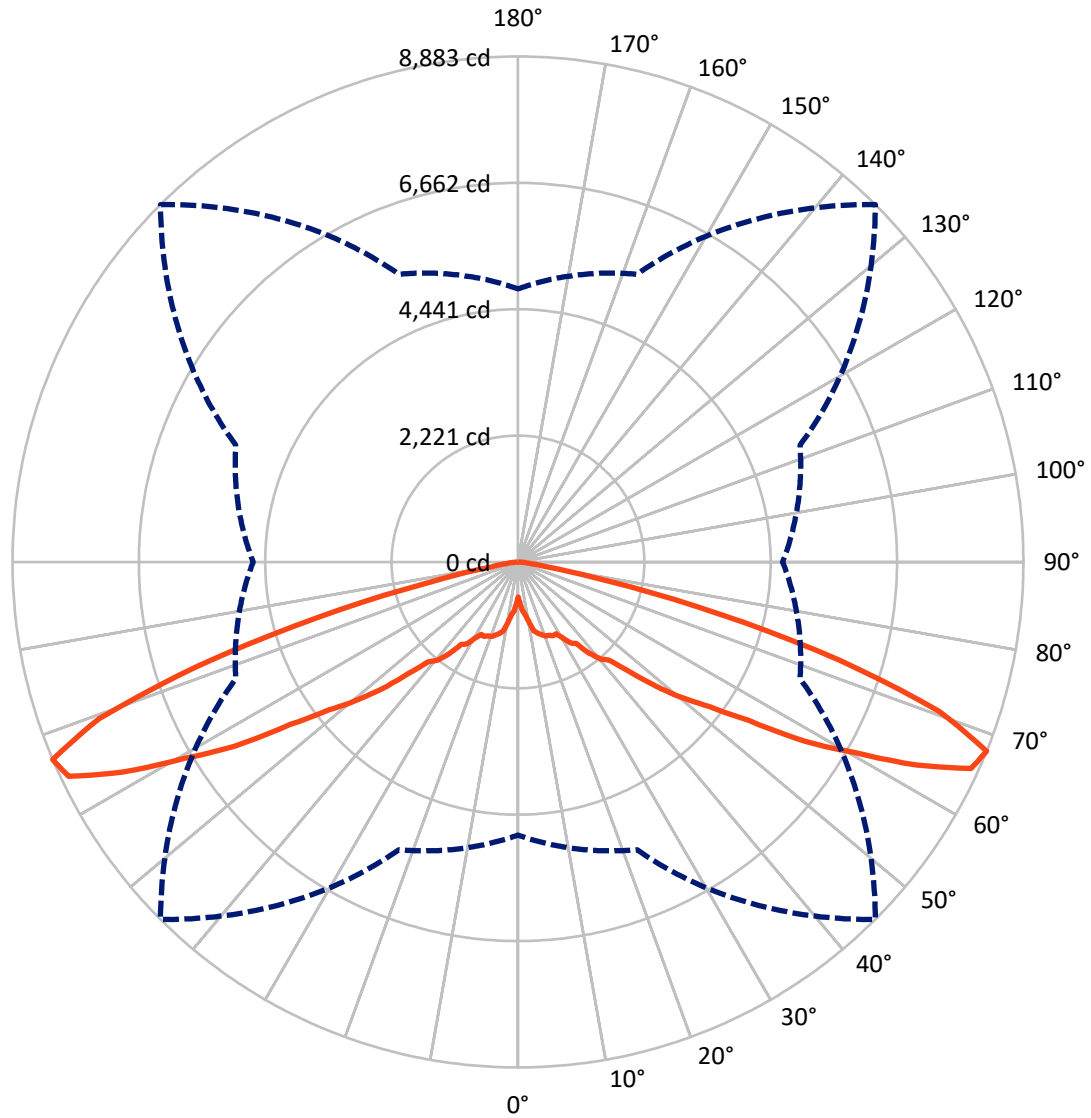
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - N/A

REPORT NUMBER: P367941  
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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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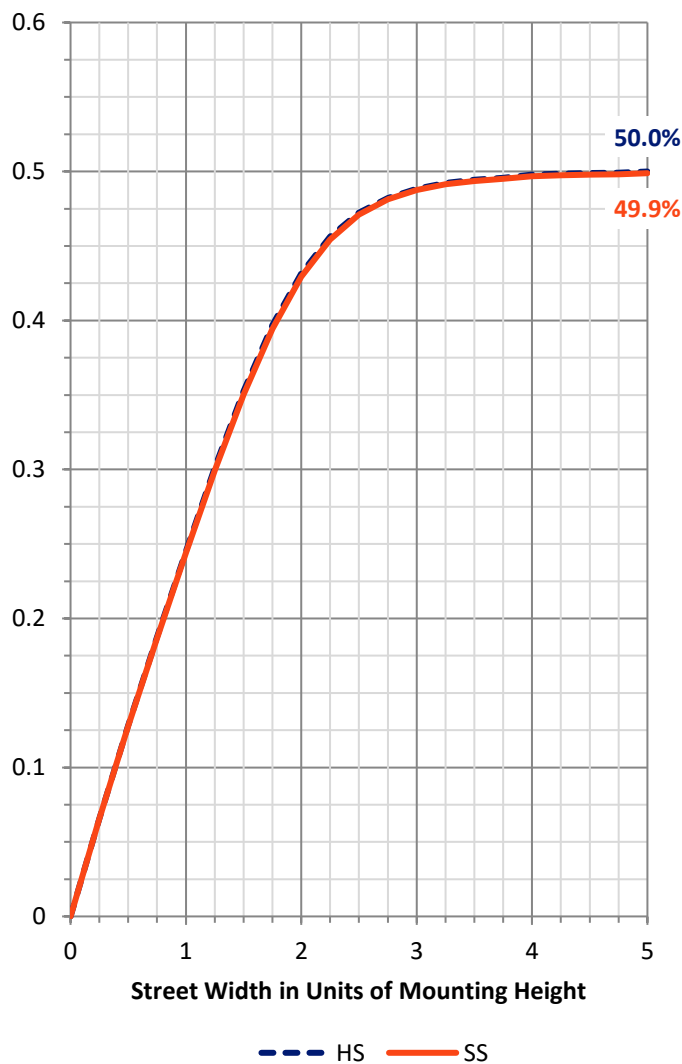
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8929.0	0.0	8929.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8929.0	0.0	8929.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17858.0	0.0	17858.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.3	0.5
10°-20°	360.8	2.0
20°-30°	688.4	3.9
30°-40°	1258.7	7.0
40°-50°	2440.5	13.7
50°-60°	4660.5	26.1
60°-70°	6296.8	35.3
70°-80°	1955.6	11.0
80°-90°	105.4	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°	17858.0	100.0
0°-180°	17858.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P367941

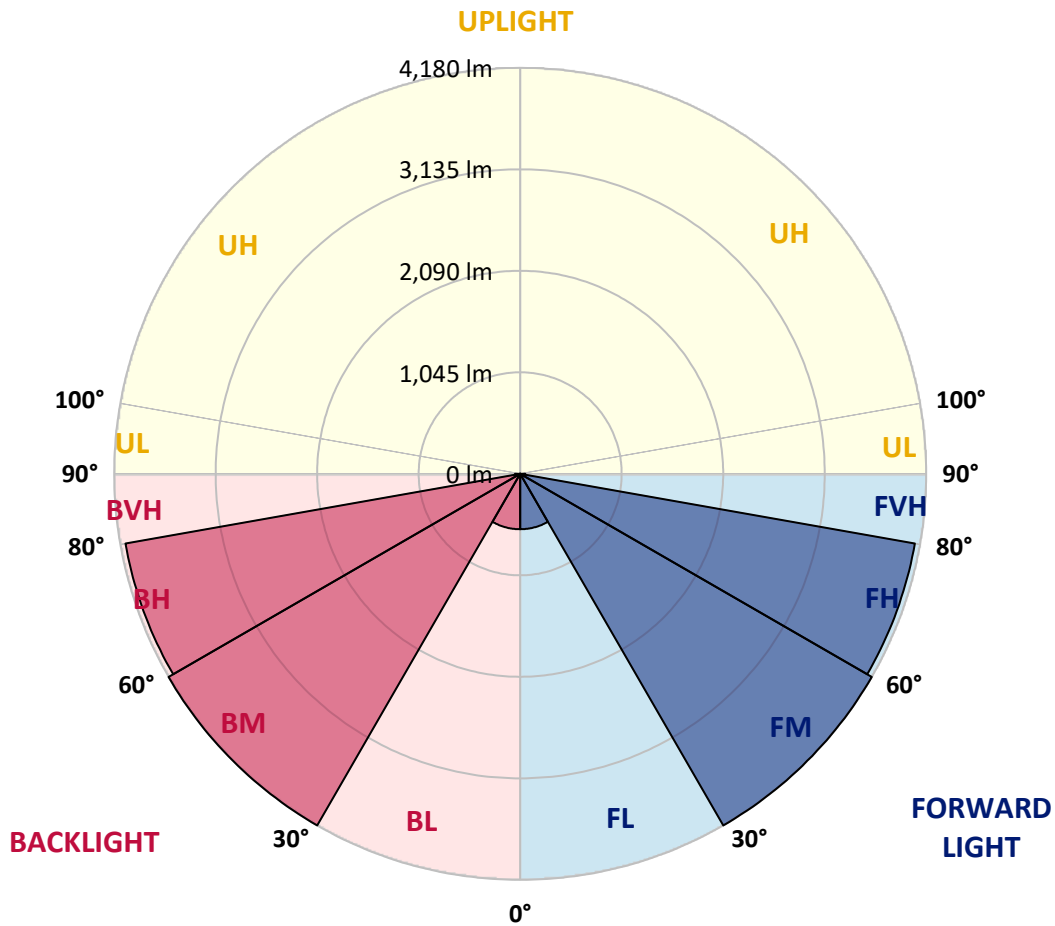
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	570.3	3.2			
FM (30°-60°)	4179.8	23.4			
FH (60°-80°)	4126.2	23.1			G2/5000
FVH (80°-90°)	52.7	0.3			G1/100
BL (0°-30°)	570.3	3.2	B2/1000		
BM (30°-60°)	4179.8	23.4	B3/5000		
BH (60°-80°)	4126.2	23.1	B4/5000		G2/5000
BVH (80°-90°)	52.7	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°	611.9	611.9	611.9	611.9	611.9
2.5°	753.4	705.1	727.2	705.1	753.4
5°	957.6	907.2	863.1	894.8	960.4
7.5°	1100.4	1025.2	932.1	1016.9	1094.2
10°	1124.6	1082.5	1078.3	1077.6	1121.8
12.5°	1214.9	1186.6	1243.2	1189.4	1217.7
15°	1285.3	1269.4	1295.0	1289.4	1288.1
17.5°	1394.3	1286.7	1344.6	1280.5	1390.9
20°	1442.6	1290.1	1387.4	1282.5	1441.9
22.5°	1501.9	1371.5	1400.5	1375.0	1496.4
25°	1535.7	1424.0	1434.3	1425.4	1536.4
27.5°	1674.4	1539.9	1429.5	1558.5	1699.9
30°	1780.0	1615.1	1542.6	1617.1	1793.1
32.5°	1932.4	1727.5	1699.2	1755.1	1956.6
35°	2121.5	1916.6	1757.9	1917.3	2161.5
37.5°	2492.0	2088.4	2032.5	2149.1	2519.5
40°	2753.4	2359.5	2240.1	2403.0	2798.3
42.5°	3155.0	2663.7	2360.9	2685.8	3223.9
45°	3528.9	3032.8	2745.8	3058.4	3579.2
47.5°	3924.2	3371.6	3264.0	3403.3	3961.5
50°	4391.3	3830.4	3755.2	3866.3	4407.1
52.5°	4942.5	4444.4	4222.2	4465.1	4948.0
55°	5597.2	4959.8	4910.1	5016.3	5605.5
57.5°	6237.5	5627.6	5946.3	5633.8	6126.4
60°	6694.2	6243.0	6798.4	6084.3	6447.9
62.5°	6723.2	6699.0	7859.4	6430.0	6378.9
65°	6096.7	6514.8	8748.1	6304.4	5790.4
67.5°	4799.0	5473.1	8882.6	5366.8	4652.1
70°	3015.6	3789.7	7852.5	3935.2	3101.1
72.5°	1390.9	2042.1	5913.2	2298.8	1470.2
75°	498.1	781.7	3648.2	839.6	520.9
77.5°	282.9	316.7	1612.3	318.0	292.5
80°	182.1	197.3	465.7	208.4	177.3
82.5°	103.5	138.0	204.2	146.3	95.2
85°	55.9	87.6	90.4	89.7	55.9
87.5°	20.0	34.5	20.0	39.3	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)