

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: P367545

Luminaire Tested: **MSA-SA2D-730-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367545  
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-730-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: 13230 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

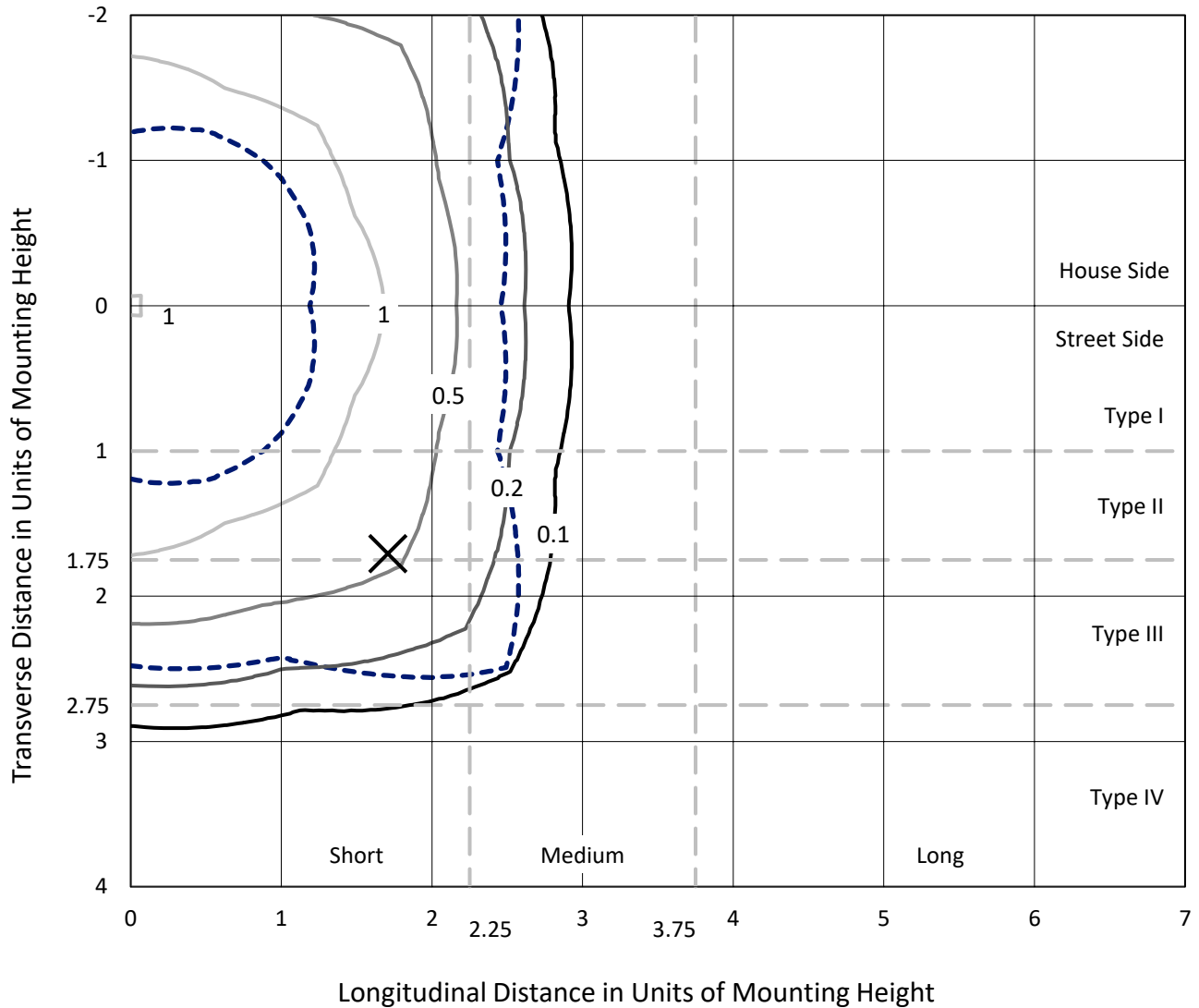
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

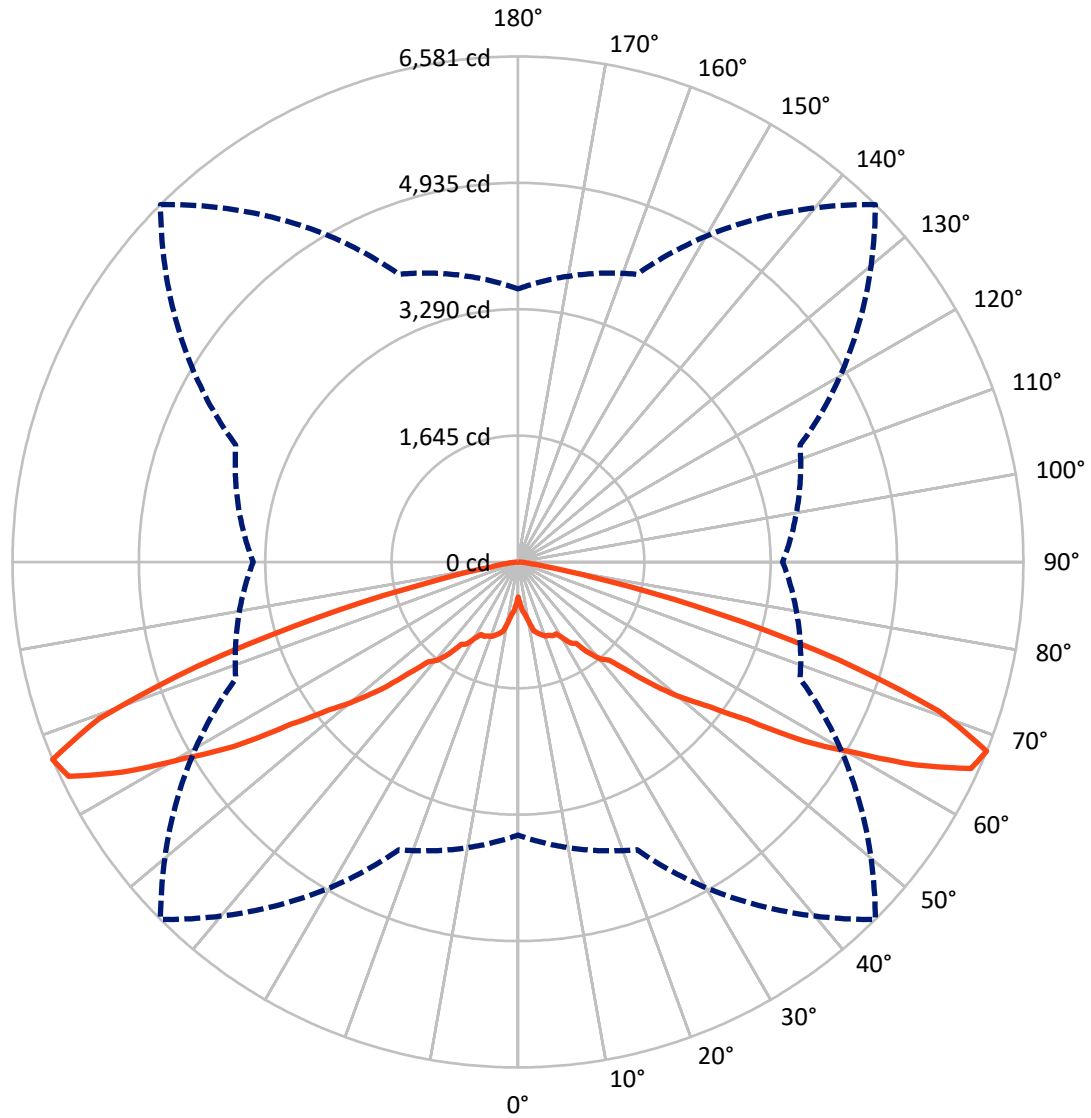
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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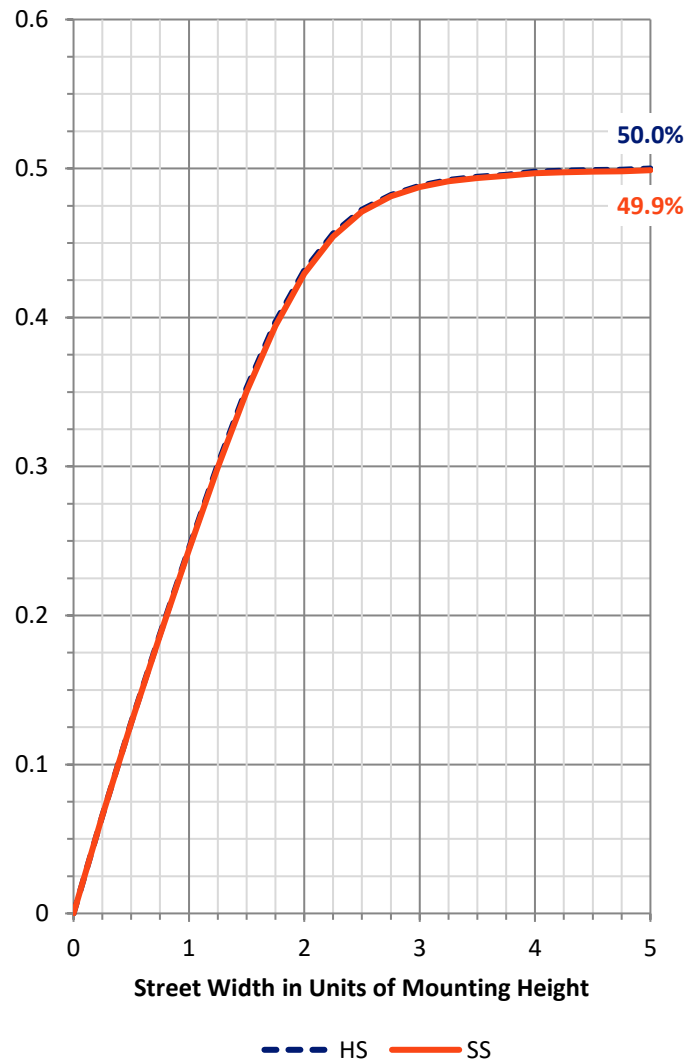
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6615.0	0.0	6615.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6615.0	0.0	6615.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13230.0	0.0	13230.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.6	0.5
10°-20°	267.3	2.0
20°-30°	510.0	3.9
30°-40°	932.5	7.0
40°-50°	1808.0	13.7
50°-60°	3452.7	26.1
60°-70°	4665.0	35.3
70°-80°	1448.8	11.0
80°-90°	78.1	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°	13230.0	100.0
0°-180°	13230.0	100.0



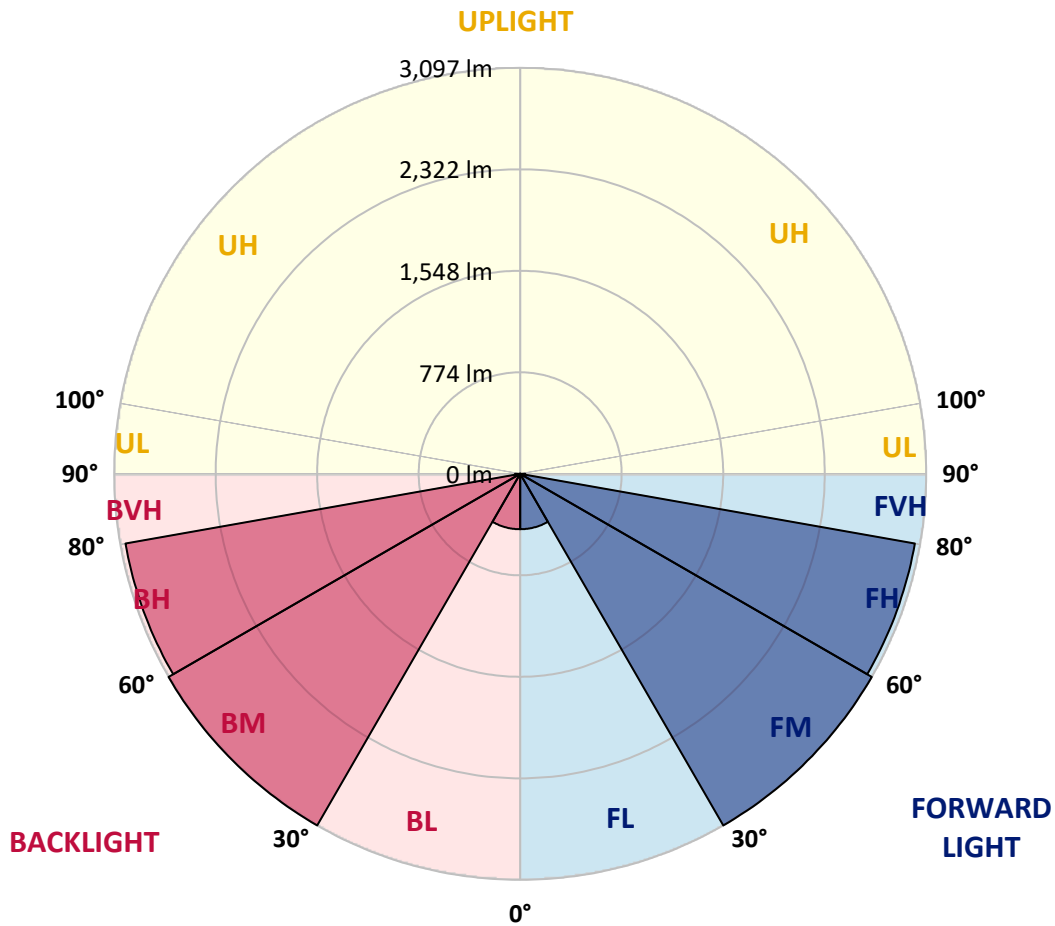
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.5	3.2			
FM (30°-60°)	3096.6	23.4			
FH (60°-80°)	3056.9	23.1			G2/5000
FVH (80°-90°)	39.0	0.3			G1/100
BL (0°-30°)	422.5	3.2	B1/500		
BM (30°-60°)	3096.6	23.4	B3/5000		
BH (60°-80°)	3056.9	23.1	B4/5000		G2/5000
BVH (80°-90°)	39.0	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°	453.4	453.4	453.4	453.4	453.4
2.5°	558.1	522.4	538.7	522.4	558.1
5°	709.4	672.1	639.4	662.9	711.5
7.5°	815.2	759.5	690.5	753.4	810.6
10°	833.1	801.9	798.9	798.4	831.1
12.5°	900.1	879.1	921.0	881.2	902.1
15°	952.2	940.5	959.4	955.3	954.3
17.5°	1033.0	953.2	996.2	948.6	1030.4
20°	1068.7	955.8	1027.9	950.2	1068.2
22.5°	1112.7	1016.1	1037.6	1018.7	1108.6
25°	1137.7	1054.9	1062.6	1056.0	1138.3
27.5°	1240.5	1140.8	1059.0	1154.6	1259.4
30°	1318.7	1196.5	1142.9	1198.1	1328.4
32.5°	1431.6	1279.8	1258.9	1300.3	1449.5
35°	1571.7	1419.9	1302.3	1420.4	1601.3
37.5°	1846.1	1547.1	1505.7	1592.1	1866.6
40°	2039.9	1748.0	1659.6	1780.2	2073.1
42.5°	2337.3	1973.4	1749.0	1989.8	2388.4
45°	2614.4	2246.9	2034.2	2265.8	2651.7
47.5°	2907.2	2497.8	2418.1	2521.3	2934.8
50°	3253.3	2837.7	2782.0	2864.3	3265.0
52.5°	3661.6	3292.6	3128.0	3307.9	3665.7
55°	4146.7	3674.4	3637.6	3716.3	4152.8
57.5°	4621.0	4169.2	4405.3	4173.8	4538.7
60°	4959.4	4625.1	5036.5	4507.5	4776.9
62.5°	4980.8	4962.9	5822.6	4763.6	4725.8
65°	4516.7	4826.5	6480.9	4670.6	4289.8
67.5°	3555.3	4054.7	6580.6	3976.0	3446.5
70°	2234.1	2807.6	5817.5	2915.4	2297.5
72.5°	1030.4	1512.9	4380.8	1703.0	1089.2
75°	369.0	579.1	2702.8	622.0	385.9
77.5°	209.6	234.6	1194.5	235.6	216.7
80°	134.9	146.2	345.0	154.4	131.4
82.5°	76.7	102.2	151.3	108.4	70.5
85°	41.4	64.9	67.0	66.4	41.4
87.5°	14.8	25.6	14.8	29.1	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)