

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: P367547

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

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: MSA-SA2D-730-U-5WQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13177 lumens  
Efficiency: N/A  
Efficacy: 102.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

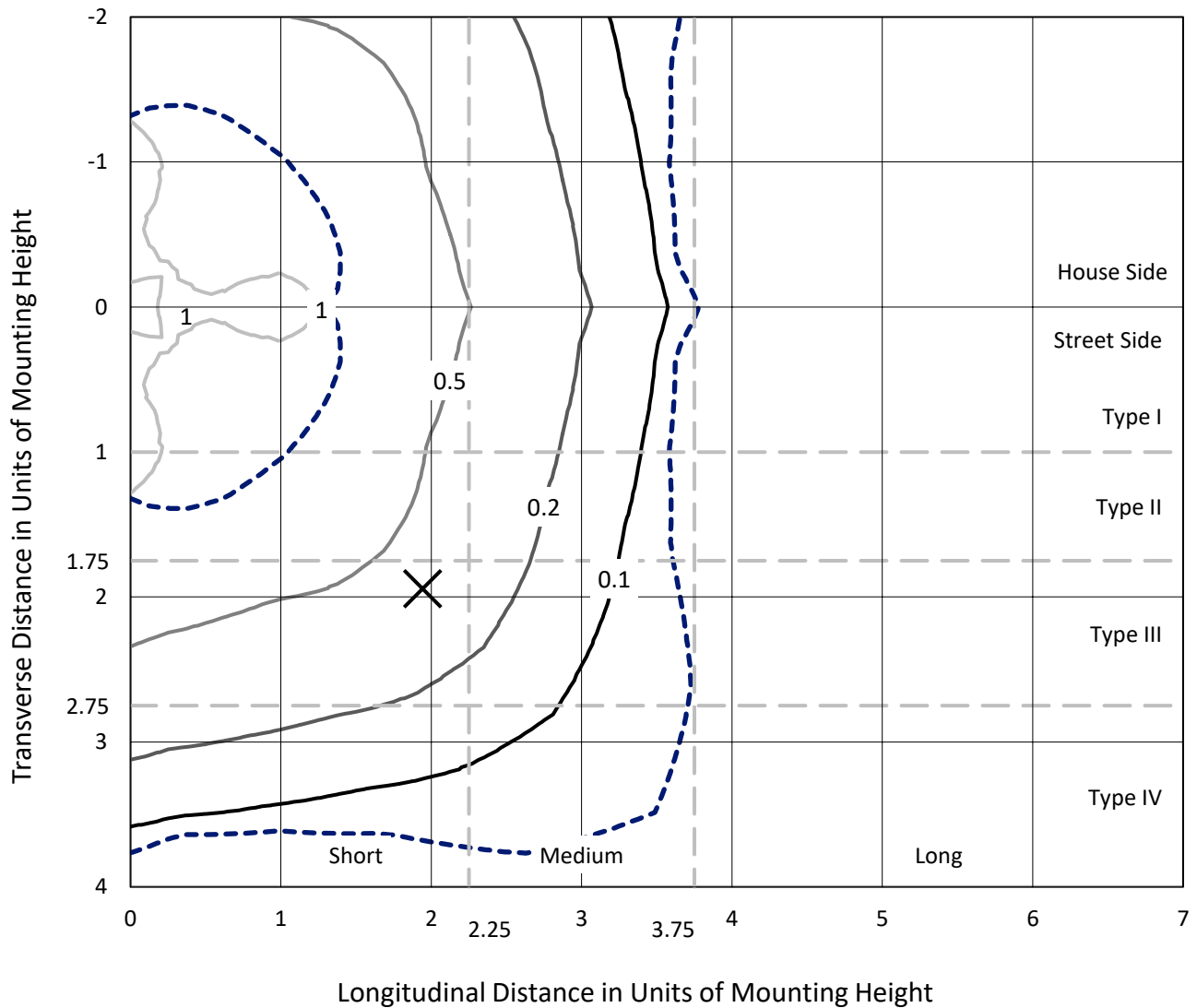
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

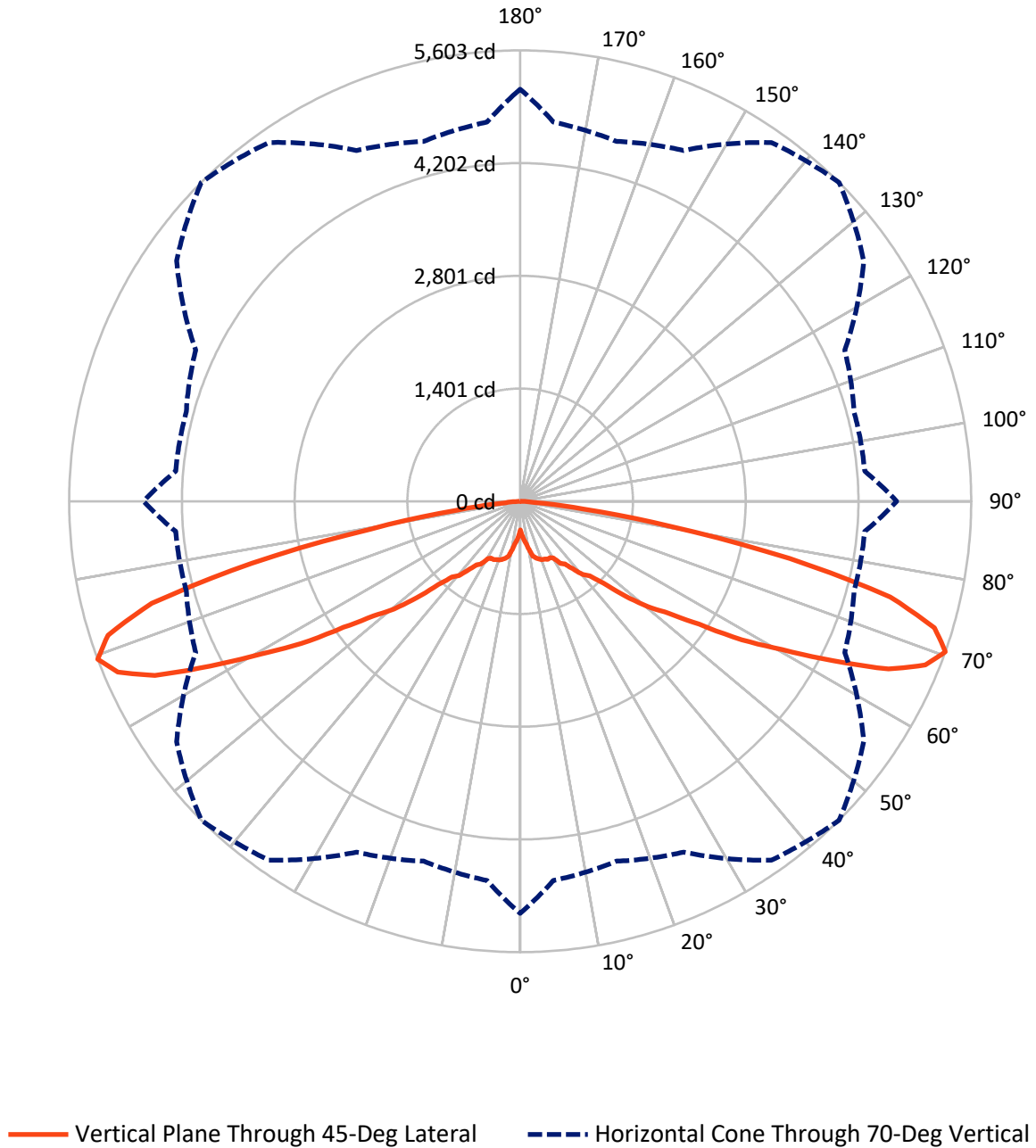
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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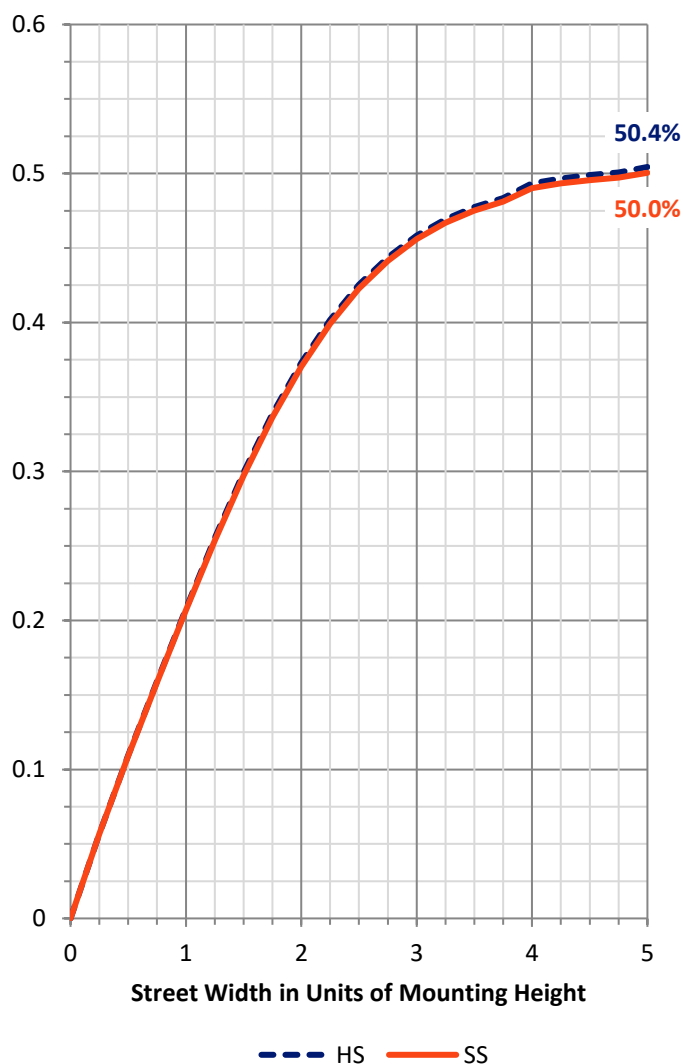
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6588.5	0.0	6588.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6588.5	0.0	6588.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13177.0	0.0	13177.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.8	0.4
10°-20°	207.4	1.6
20°-30°	392.2	3.0
30°-40°	683.1	5.2
40°-50°	1305.9	9.9
50°-60°	2532.1	19.2
60°-70°	4433.9	33.6
70°-80°	3332.3	25.3
80°-90°	238.4	1.8
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°	13177.0	100.0
0°-180°	13177.0	100.0

**Coefficient of Utilization**

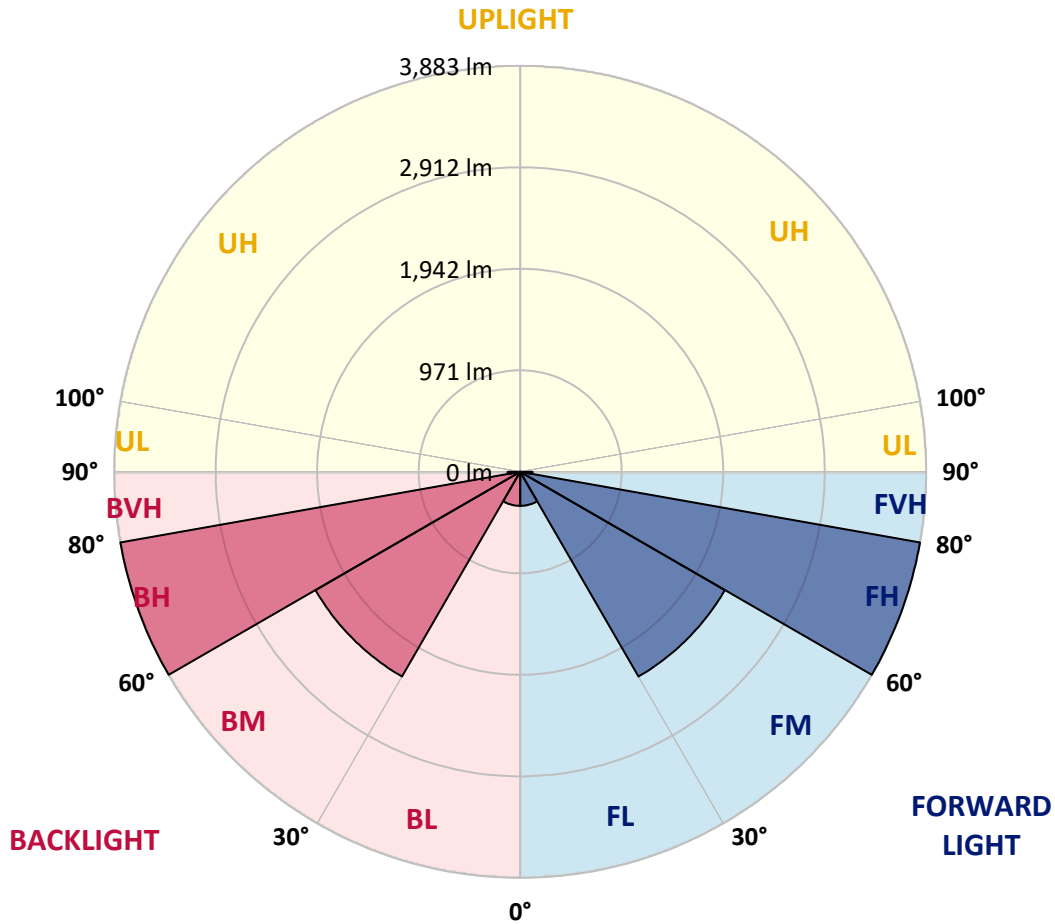


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.7	2.5			
FM (30°-60°)	2260.5	17.2			
FH (60°-80°)	3883.1	29.5			G2/5000
FVH (80°-90°)	119.2	0.9			G2/225
BL (0°-30°)	325.7	2.5	B1/500		
BM (30°-60°)	2260.5	17.2	B2/2500		
BH (60°-80°)	3883.1	29.5	B4/5000		G2/5000
BVH (80°-90°)	119.2	0.9			G2/225
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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3	356.3
2.5°	433.5	426.8	405.9	406.9	416.6	417.6	418.7	405.9	402.8	428.9	430.4
5°	550.5	535.2	519.9	513.7	504.5	479.0	507.1	510.2	516.3	536.2	545.4
7.5°	628.8	609.8	588.9	576.1	551.1	530.1	553.1	572.0	584.3	606.8	619.6
10°	643.6	632.3	631.3	608.8	604.2	611.9	610.4	610.9	629.3	629.8	637.4
12.5°	690.1	698.3	682.4	674.8	679.4	698.3	682.9	676.3	680.9	701.9	693.2
15°	750.9	760.6	736.6	724.4	712.1	730.0	714.1	725.9	740.7	756.0	748.4
17.5°	818.4	818.9	786.2	740.7	751.4	754.0	748.4	738.7	781.1	817.9	814.3
20°	855.2	854.7	798.5	736.6	768.3	773.9	768.8	735.6	799.5	850.1	848.6
22.5°	893.0	881.8	814.3	764.2	776.0	780.6	768.8	765.8	814.3	884.9	884.4
25°	913.5	923.2	849.1	817.9	808.2	797.4	807.7	812.8	859.3	928.3	908.4
27.5°	977.4	961.5	859.3	856.2	835.8	793.4	828.6	853.7	856.2	967.7	988.1
30°	1035.2	1041.3	905.3	909.9	872.6	818.9	873.6	913.5	921.2	1042.3	1040.3
32.5°	1096.5	1099.0	987.1	939.6	923.7	921.7	900.7	935.5	995.8	1092.9	1097.0
35°	1189.5	1210.5	1060.2	996.3	976.4	955.9	974.3	1005.5	1061.7	1207.4	1197.2
37.5°	1402.7	1369.5	1219.2	1086.8	1073.5	1065.3	1080.1	1102.6	1217.6	1373.0	1420.6
40°	1551.4	1535.6	1331.1	1236.6	1152.7	1196.7	1161.9	1248.8	1343.9	1536.6	1567.3
42.5°	1782.0	1711.5	1501.4	1384.3	1297.4	1266.2	1285.6	1399.1	1520.3	1735.0	1795.3
45°	2003.3	1894.5	1714.5	1611.3	1479.4	1446.7	1472.7	1606.1	1746.2	1915.9	2022.3
47.5°	2229.3	2116.8	1919.0	1769.7	1661.9	1759.5	1674.1	1800.9	1940.5	2137.8	2232.3
50°	2463.9	2339.2	2143.9	1981.4	1972.2	2058.5	1956.3	2021.2	2150.6	2355.0	2466.5
52.5°	2733.3	2598.9	2403.6	2293.7	2315.2	2309.5	2289.1	2277.3	2404.6	2605.5	2737.9
55°	3053.8	2908.6	2752.7	2702.1	2761.4	2697.5	2727.7	2723.6	2742.0	2885.6	3040.5
57.5°	3441.3	3277.2	3120.8	3109.5	3185.7	3246.0	3192.4	3115.2	3083.0	3222.5	3399.9
60°	3929.5	3728.1	3556.3	3521.0	3738.3	3737.8	3689.2	3516.4	3504.2	3662.1	3875.8
62.5°	4468.8	4223.4	4035.8	3979.6	4320.0	4358.4	4207.1	3897.3	3960.7	4088.0	4341.5
65°	4926.8	4631.9	4457.0	4441.7	4857.8	5027.0	4692.7	4268.9	4289.4	4395.2	4669.7
67.5°	5225.3	4870.1	4731.0	4805.1	5322.5	5428.3	5117.5	4517.3	4444.8	4488.7	4816.9
70°	5120.5	4730.0	4629.8	4809.7	5442.6	5602.6	5209.0	4447.8	4293.4	4295.5	4676.8
72.5°	4326.7	3955.0	4002.6	4332.8	5158.4	5382.8	4785.7	4017.4	3701.5	3693.8	4039.9
75°	2861.1	2612.7	2800.3	3315.0	4288.3	4747.4	3965.3	3148.9	2752.7	2623.9	2891.3
77.5°	1251.4	1219.7	1377.6	1959.4	2923.5	3421.4	2840.7	2057.0	1497.3	1245.2	1360.3
80°	335.3	328.2	412.0	743.3	1423.1	1884.2	1537.1	820.5	428.4	311.8	330.7
82.5°	122.2	125.2	152.8	208.1	468.8	793.4	510.7	239.7	162.0	132.9	132.9
85°	53.2	51.6	74.1	83.3	127.8	179.4	146.7	101.7	81.8	61.3	58.8
87.5°	14.3	17.9	25.0	26.1	33.2	27.1	38.9	35.8	30.7	21.5	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)