

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: P366621

Luminaire Tested: **MSA-SA1A-730-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366621  
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-SA1A-730-U-5MQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3964 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

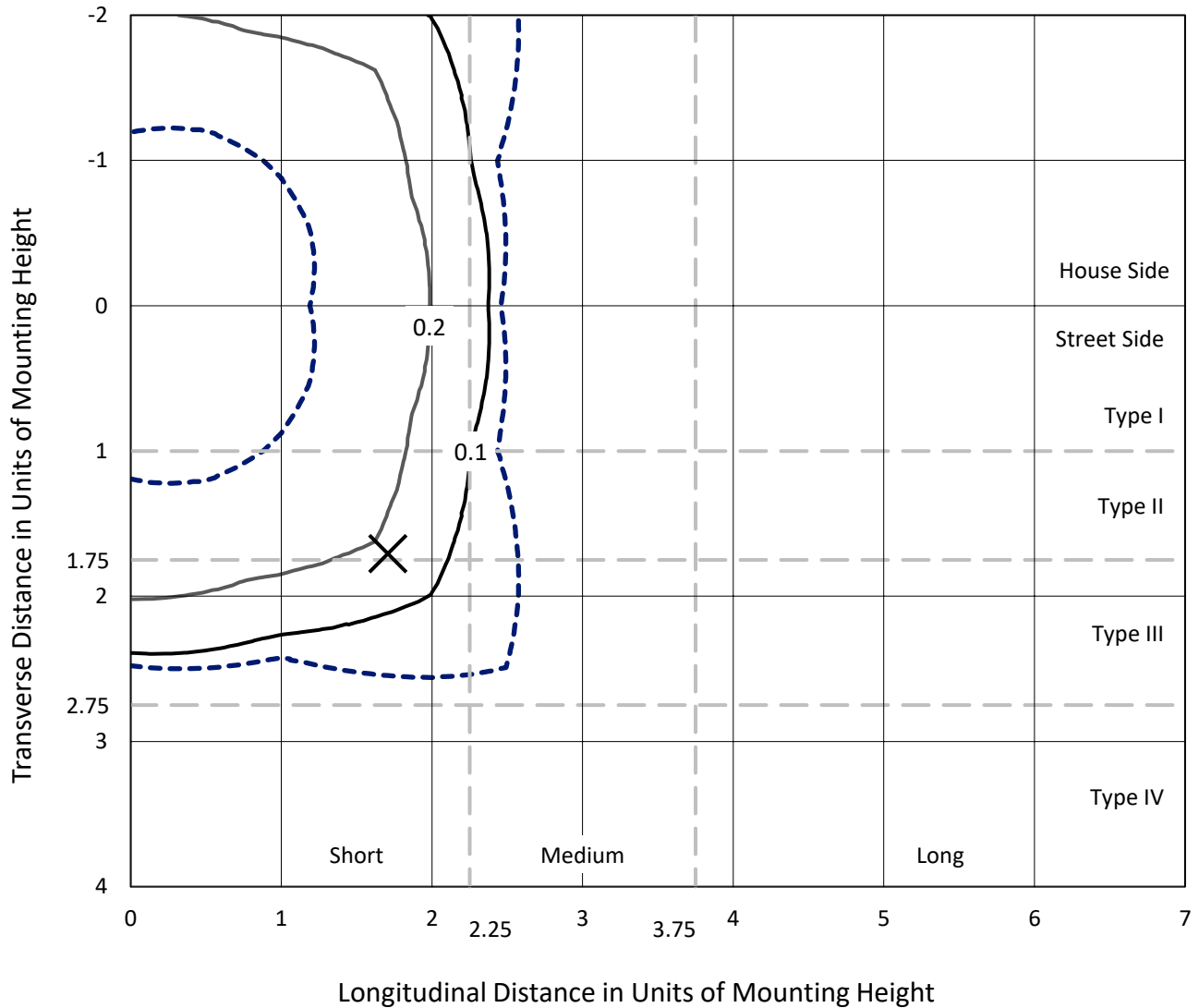
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

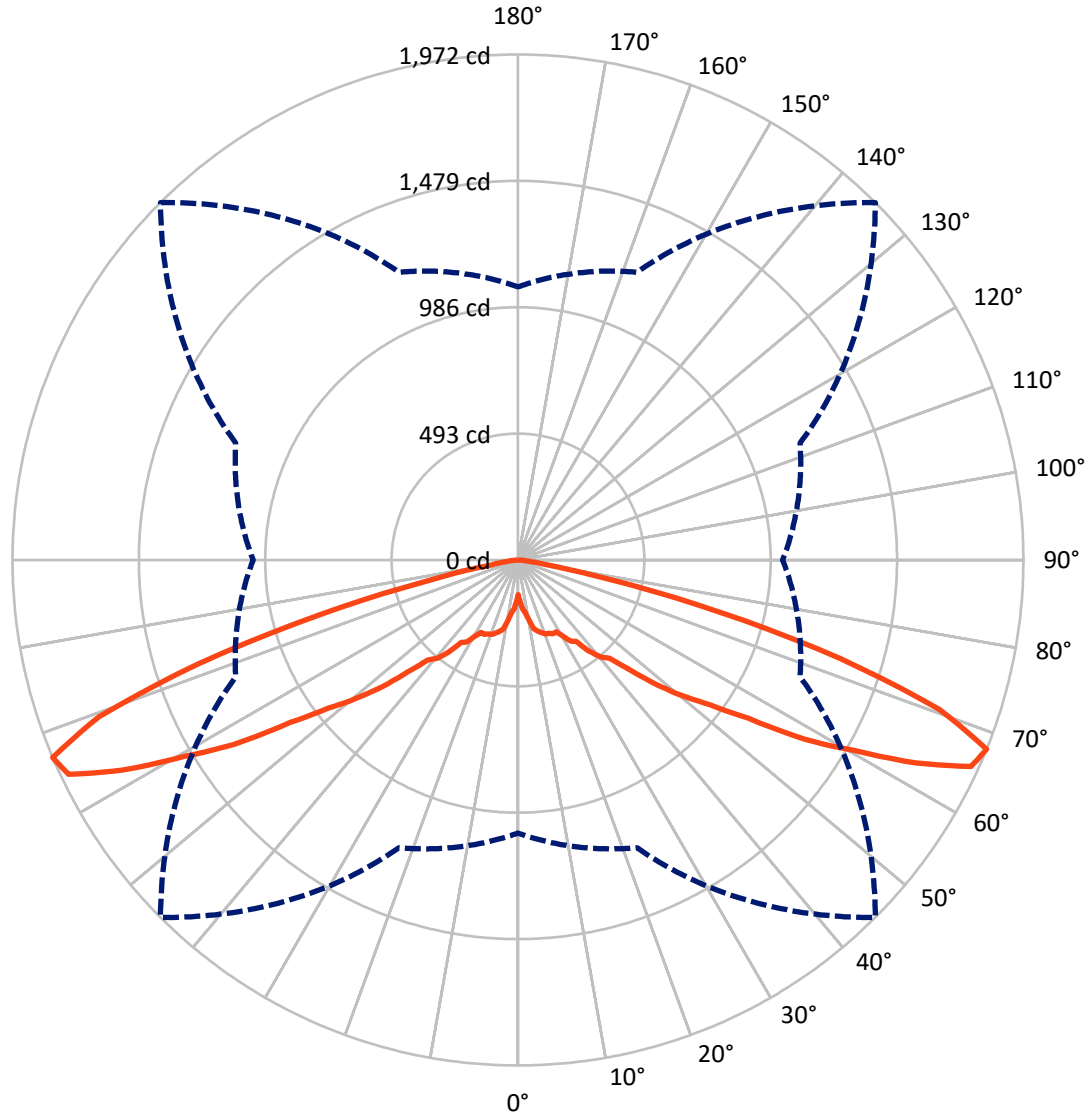
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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	1982.0	0.0	1982.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1982.0	0.0	1982.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3964.0	0.0	3964.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.3	0.5
10°-20°	80.1	2.0
20°-30°	152.8	3.9
30°-40°	279.4	7.0
40°-50°	541.7	13.7
50°-60°	1034.5	26.1
60°-70°	1397.7	35.3
70°-80°	434.1	11.0
80°-90°	23.4	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°	3964.0	100.0
0°-180°	3964.0	100.0

**Coefficient of Utilization**



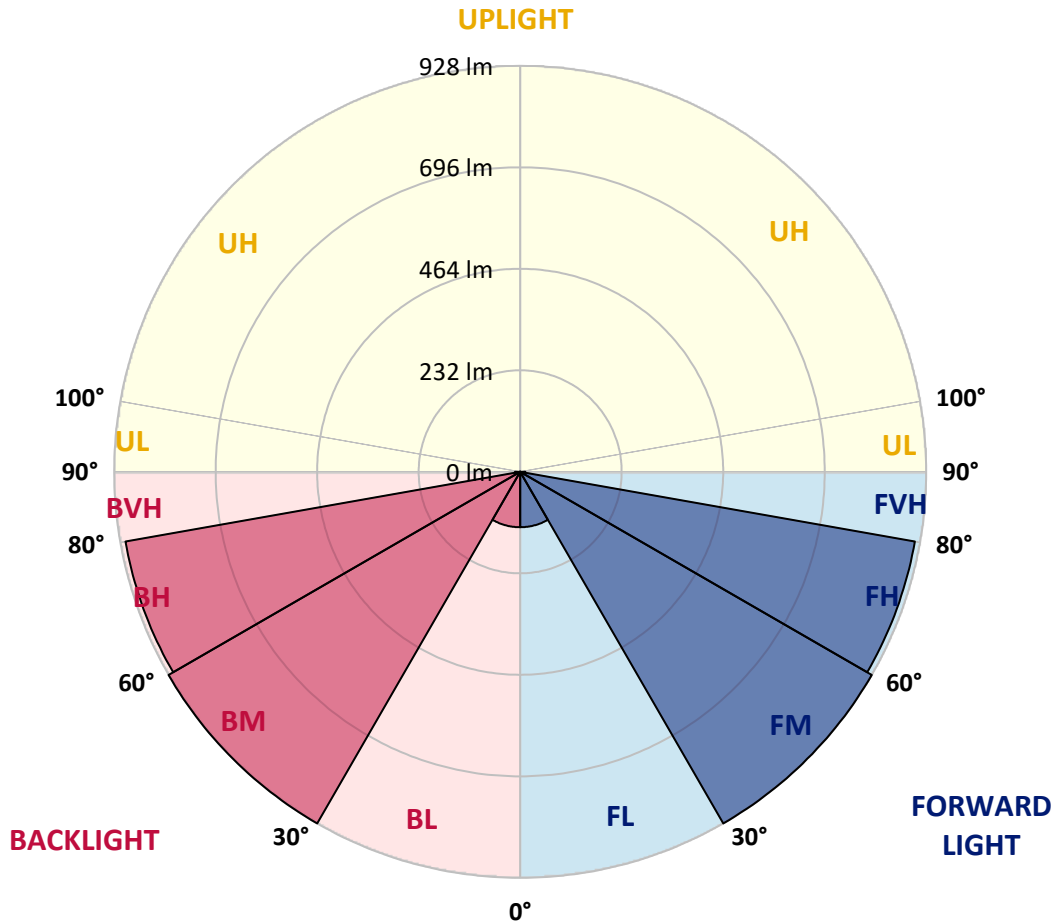
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	126.6	3.2			
FM (30°-60°)	927.8	23.4			
FH (60°-80°)	915.9	23.1			G1/1800
FVH (80°-90°)	11.7	0.3			G1/100
BL (0°-30°)	126.6	3.2	B1/500		
BM (30°-60°)	927.8	23.4	B1/1000		
BH (60°-80°)	915.9	23.1	B2/1000		G1/1800
BVH (80°-90°)	11.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	135.8	135.8	135.8	135.8	135.8
2.5°	167.2	156.5	161.4	156.5	167.2
5°	212.6	201.4	191.6	198.6	213.2
7.5°	244.3	227.6	206.9	225.7	242.9
10°	249.6	240.3	239.4	239.2	249.0
12.5°	269.7	263.4	276.0	264.0	270.3
15°	285.3	281.8	287.4	286.2	285.9
17.5°	309.5	285.6	298.5	284.2	308.7
20°	320.2	286.4	308.0	284.7	320.1
22.5°	333.4	304.4	310.9	305.2	332.2
25°	340.9	316.1	318.4	316.4	341.0
27.5°	371.7	341.8	317.3	345.9	377.3
30°	395.1	358.5	342.4	359.0	398.0
32.5°	428.9	383.5	377.2	389.6	434.3
35°	470.9	425.4	390.2	425.6	479.8
37.5°	553.1	463.6	451.2	477.0	559.3
40°	611.2	523.7	497.3	533.4	621.1
42.5°	700.3	591.3	524.1	596.2	715.6
45°	783.3	673.2	609.5	678.9	794.5
47.5°	871.1	748.4	724.5	755.4	879.3
50°	974.7	850.2	833.5	858.2	978.3
52.5°	1097.1	986.5	937.2	991.1	1098.3
55°	1242.4	1100.9	1089.9	1113.5	1244.3
57.5°	1384.6	1249.2	1319.9	1250.6	1359.9
60°	1485.9	1385.8	1509.1	1350.6	1431.3
62.5°	1492.4	1487.0	1744.6	1427.3	1415.9
65°	1353.3	1446.1	1941.8	1399.4	1285.3
67.5°	1065.3	1214.9	1971.7	1191.3	1032.6
70°	669.4	841.2	1743.1	873.5	688.4
72.5°	308.7	453.3	1312.6	510.3	326.3
75°	110.6	173.5	809.8	186.4	115.6
77.5°	62.8	70.3	357.9	70.6	64.9
80°	40.4	43.8	103.4	46.2	39.4
82.5°	23.0	30.6	45.3	32.5	21.1
85°	12.4	19.4	20.1	19.9	12.4
87.5°	4.4	7.7	4.4	8.7	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)