

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: P366753

Luminaire Tested: **MSA-SA1B-730-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366753
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-SA1B-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: 4968 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

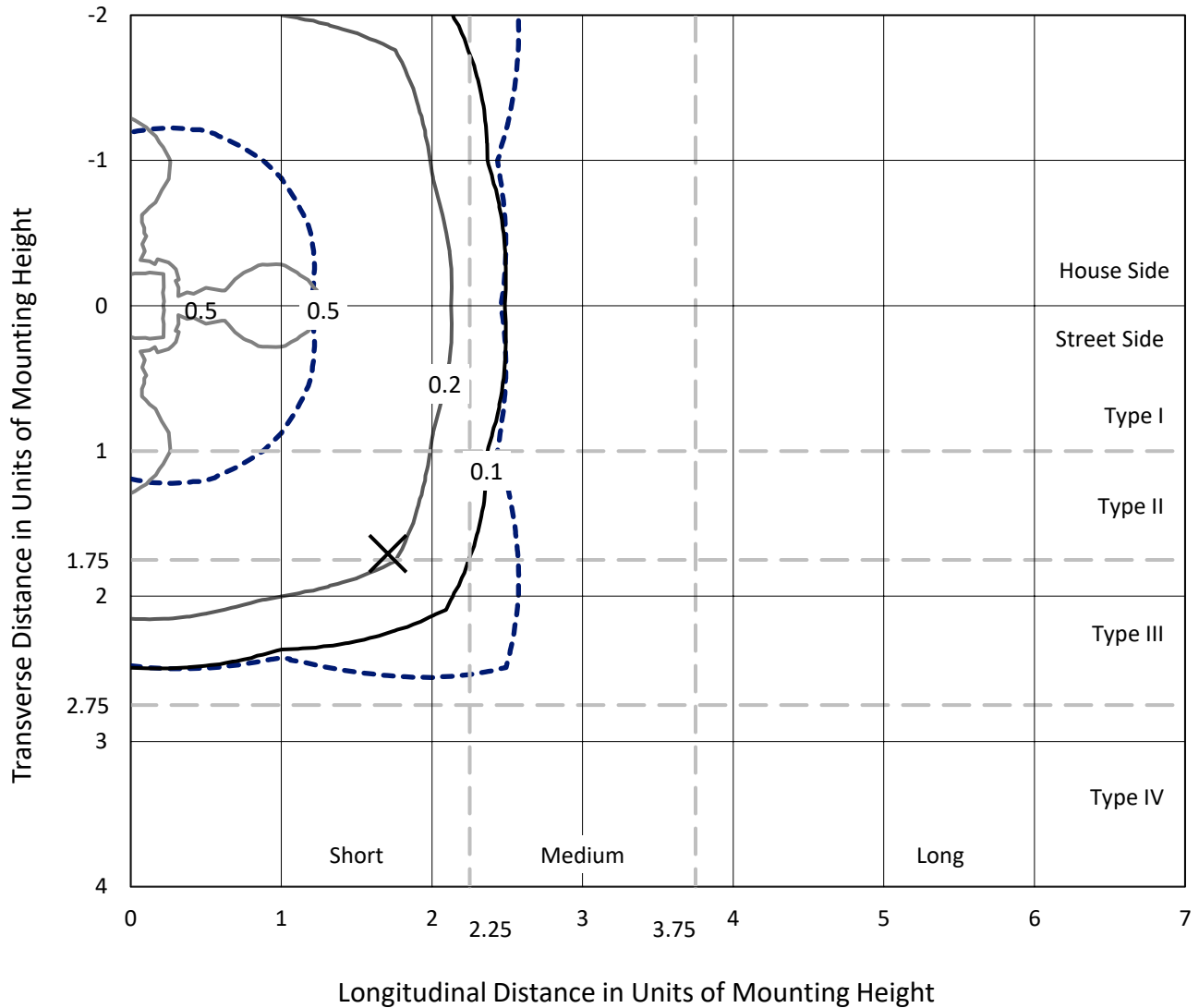
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

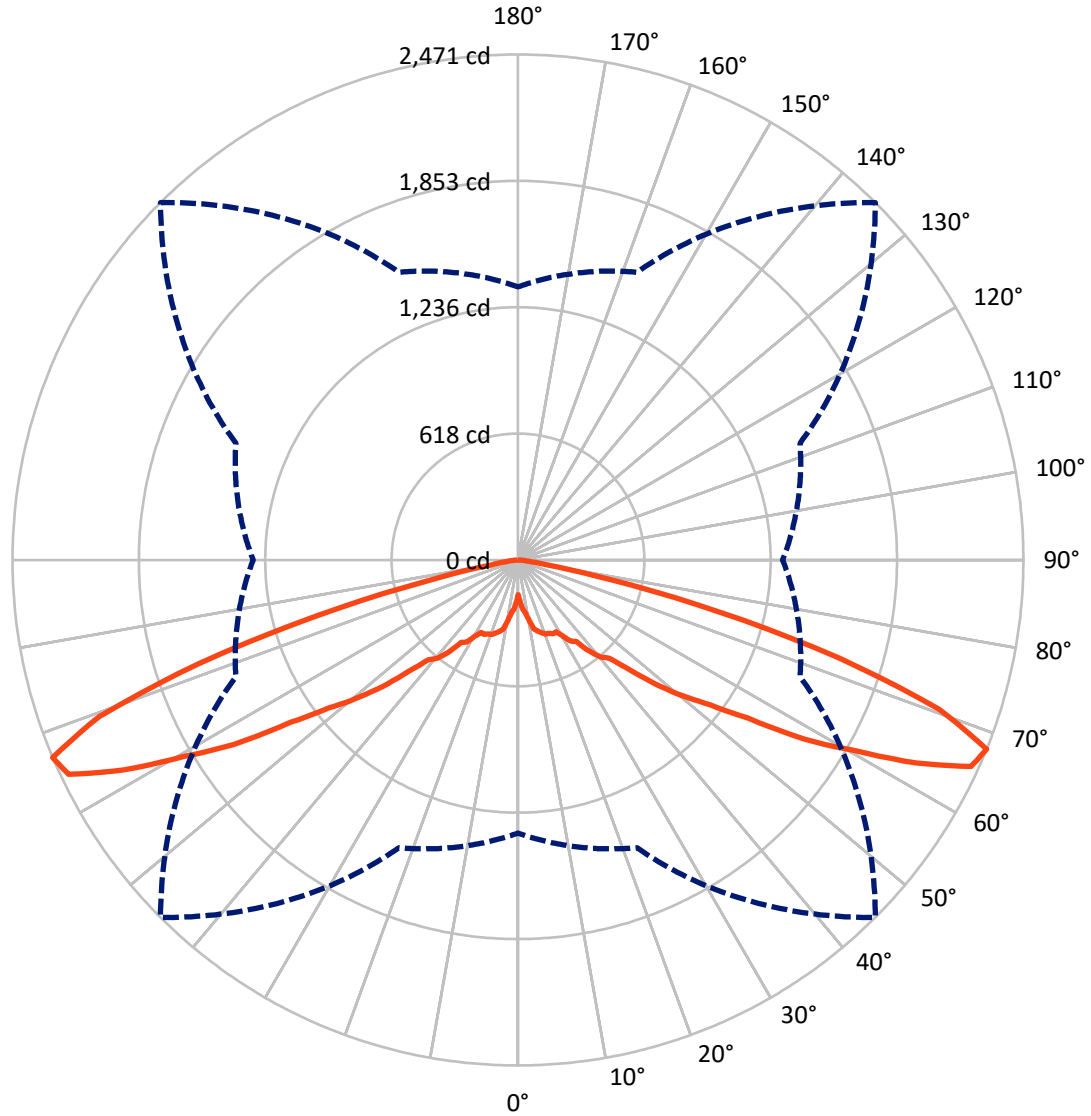
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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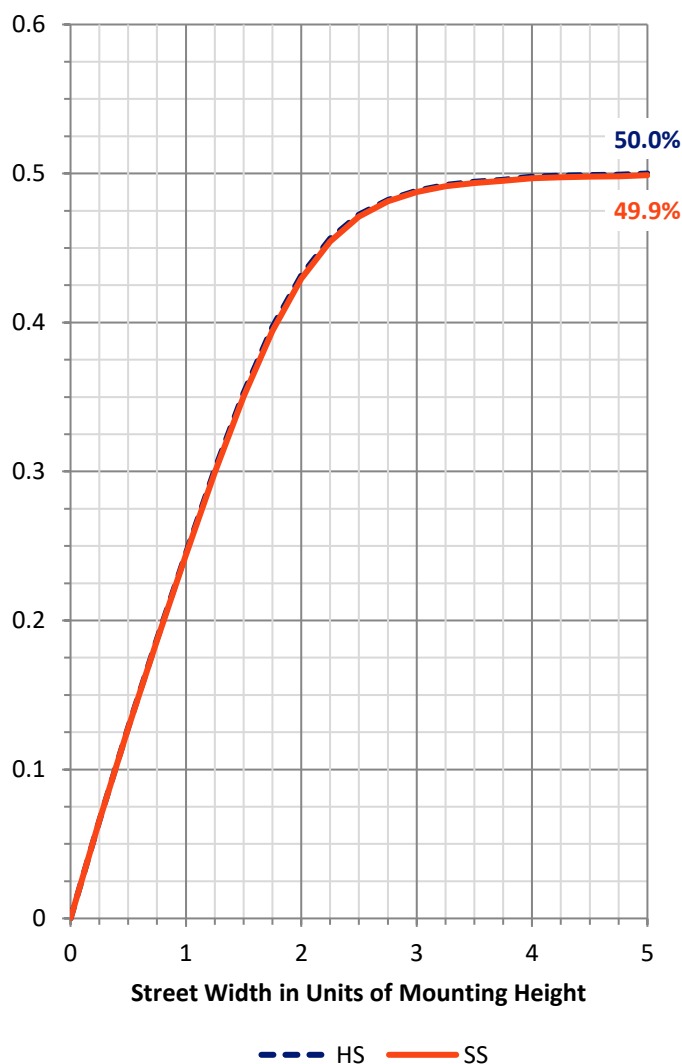
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2484.0	0.0	2484.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2484.0	0.0	2484.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4968.0	0.0	4968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	0.5
10°-20°	100.4	2.0
20°-30°	191.5	3.9
30°-40°	350.2	7.0
40°-50°	678.9	13.7
50°-60°	1296.5	26.1
60°-70°	1751.8	35.3
70°-80°	544.0	11.0
80°-90°	29.3	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°	4968.0	100.0
0°-180°	4968.0	100.0

Coefficient of Utilization



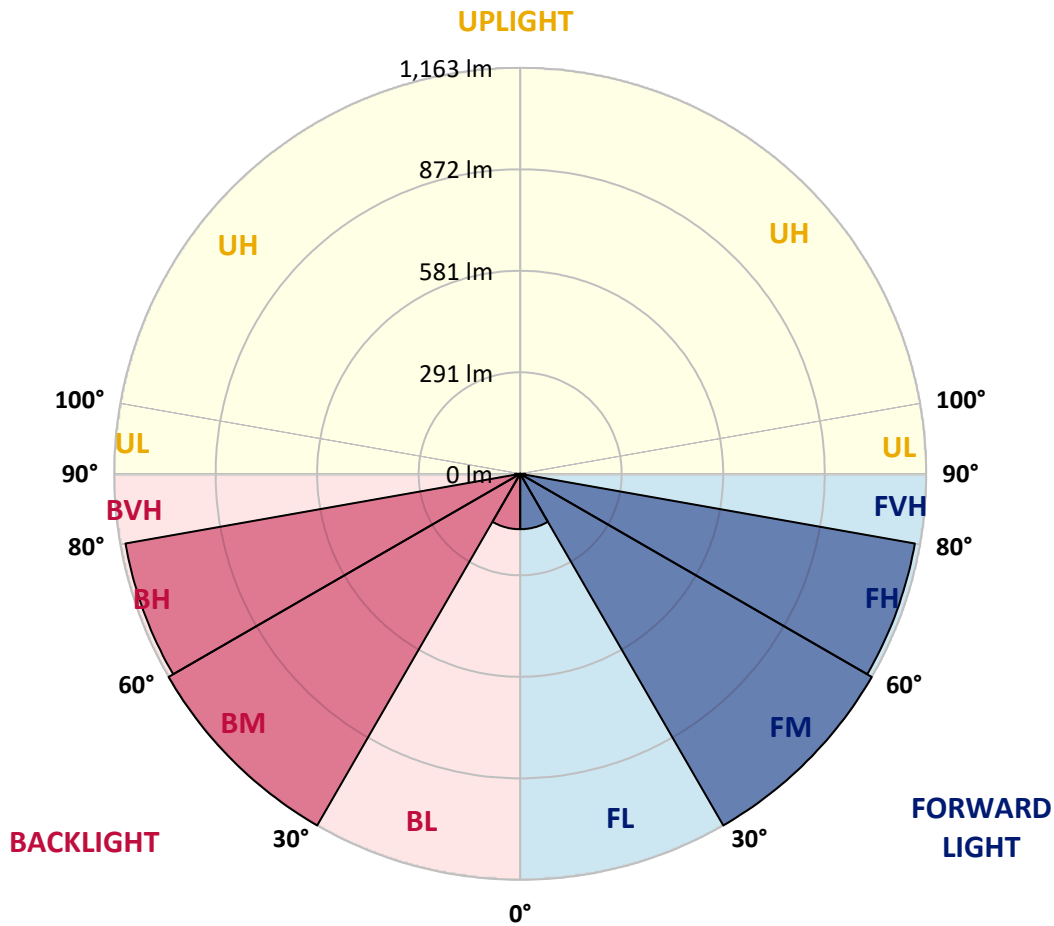
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	158.6	3.2			
FM (30°-60°)	1162.8	23.4			
FH (60°-80°)	1147.9	23.1			G1/1800
FVH (80°-90°)	14.7	0.3			G1/100
BL (0°-30°)	158.6	3.2	B1/500		
BM (30°-60°)	1162.8	23.4	B2/2500		
BH (60°-80°)	1147.9	23.1	B3/2500		G1/1800
BVH (80°-90°)	14.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	170.2	170.2	170.2	170.2	170.2
2.5°	209.6	196.2	202.3	196.2	209.6
5°	266.4	252.4	240.1	248.9	267.2
7.5°	306.1	285.2	259.3	282.9	304.4
10°	312.8	301.1	300.0	299.8	312.1
12.5°	338.0	330.1	345.9	330.9	338.8
15°	357.6	353.1	360.3	358.7	358.3
17.5°	387.9	357.9	374.1	356.2	386.9
20°	401.3	358.9	386.0	356.8	401.1
22.5°	417.8	381.6	389.6	382.5	416.3
25°	427.2	396.1	399.0	396.5	427.4
27.5°	465.8	428.4	397.7	433.6	472.9
30°	495.2	449.3	429.2	449.9	498.8
32.5°	537.6	480.6	472.7	488.3	544.3
35°	590.2	533.2	489.0	533.4	601.3
37.5°	693.2	581.0	565.4	597.9	700.9
40°	766.0	656.4	623.2	668.5	778.5
42.5°	877.7	741.0	656.8	747.2	896.9
45°	981.7	843.7	763.9	850.8	995.7
47.5°	1091.7	938.0	908.0	946.8	1102.1
50°	1221.6	1065.6	1044.7	1075.6	1226.0
52.5°	1375.0	1236.4	1174.6	1242.2	1376.5
55°	1557.1	1379.8	1366.0	1395.5	1559.4
57.5°	1735.2	1565.6	1654.2	1567.3	1704.3
60°	1862.3	1736.8	1891.3	1692.6	1793.8
62.5°	1870.3	1863.6	2186.5	1788.8	1774.6
65°	1696.1	1812.4	2433.7	1753.8	1610.9
67.5°	1335.1	1522.6	2471.1	1493.0	1294.2
70°	838.9	1054.3	2184.5	1094.8	862.7
72.5°	386.9	568.1	1645.0	639.5	409.0
75°	138.6	217.5	1014.9	233.6	144.9
77.5°	78.7	88.1	448.5	88.5	81.4
80°	50.7	54.9	129.6	58.0	49.3
82.5°	28.8	38.4	56.8	40.7	26.5
85°	15.5	24.4	25.1	25.0	15.5
87.5°	5.6	9.6	5.6	10.9	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)