

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: P368557

Luminaire Tested: **MSA-SA4C-830-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368557
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-SA4C-830-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20594 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

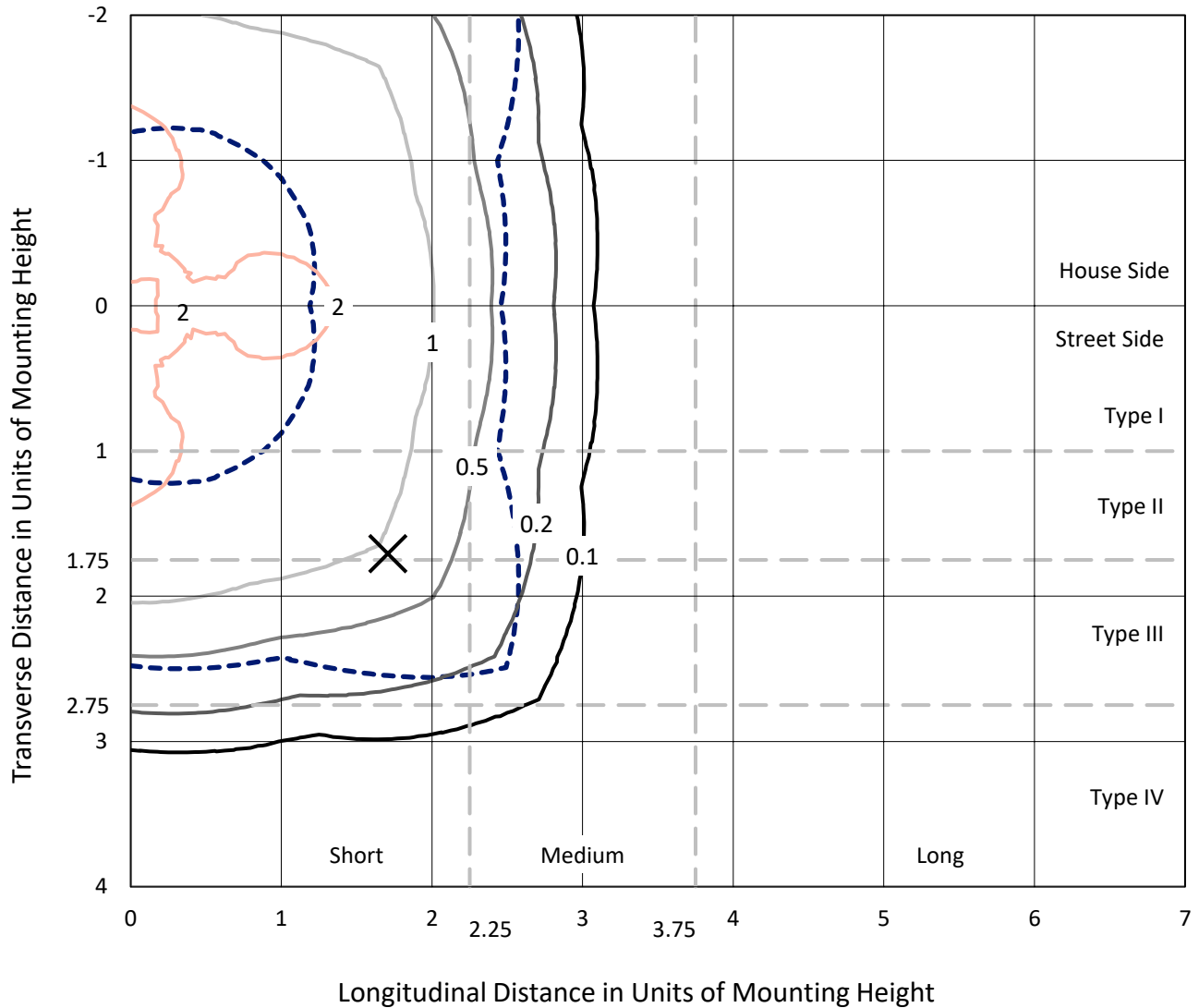
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

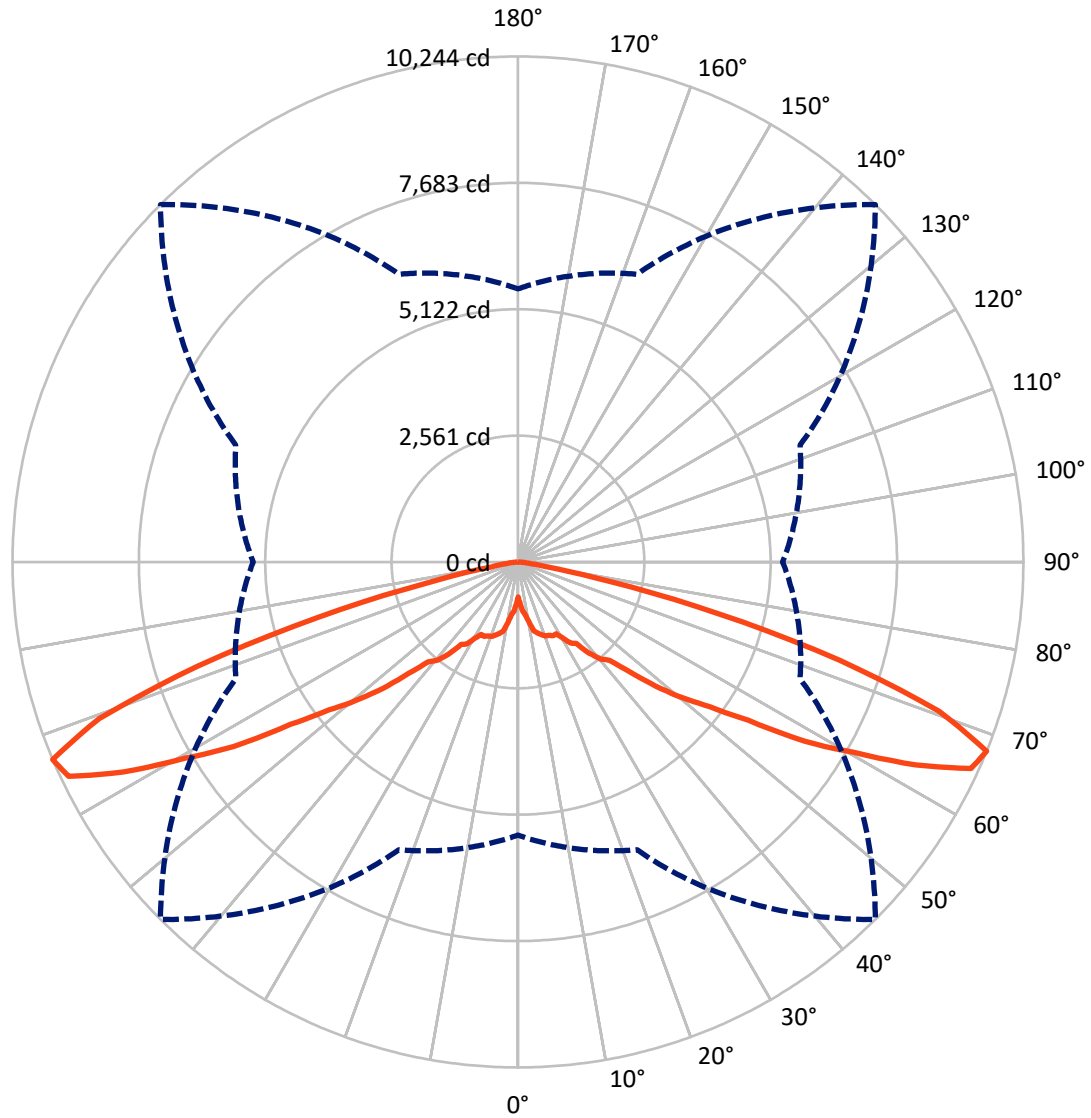
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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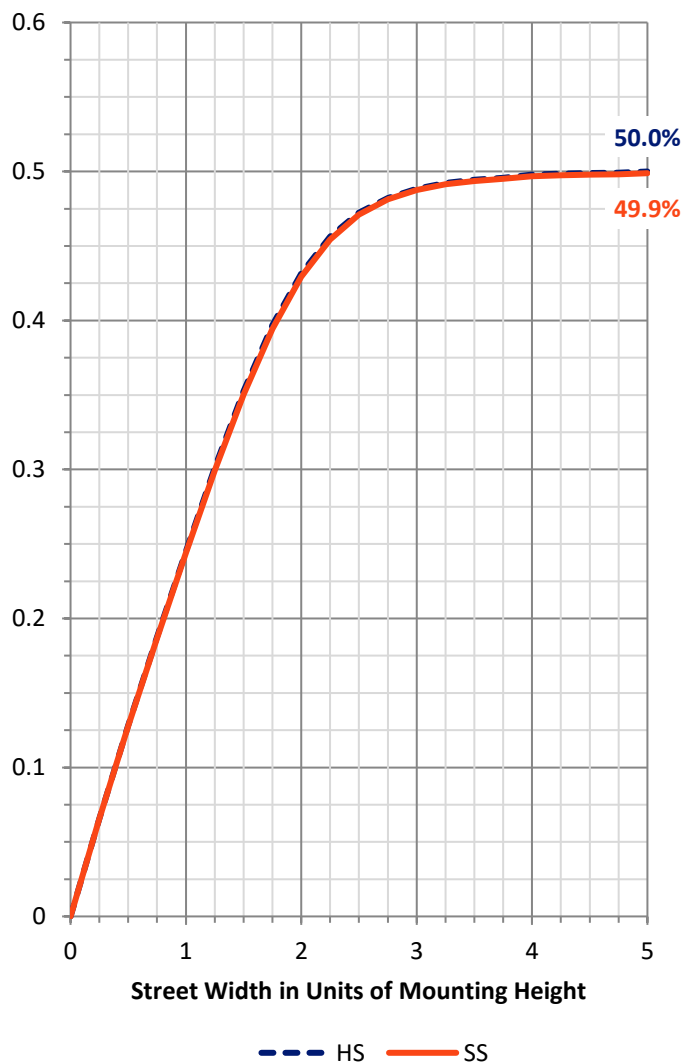
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10297.0	0.0	10297.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10297.0	0.0	10297.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20594.0	0.0	20594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	0.5
10°-20°	416.1	2.0
20°-30°	793.9	3.9
30°-40°	1451.5	7.0
40°-50°	2814.4	13.7
50°-60°	5374.6	26.1
60°-70°	7261.6	35.3
70°-80°	2255.2	11.0
80°-90°	121.5	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°	20594.0	100.0
0°-180°	20594.0	100.0

Coefficient of Utilization



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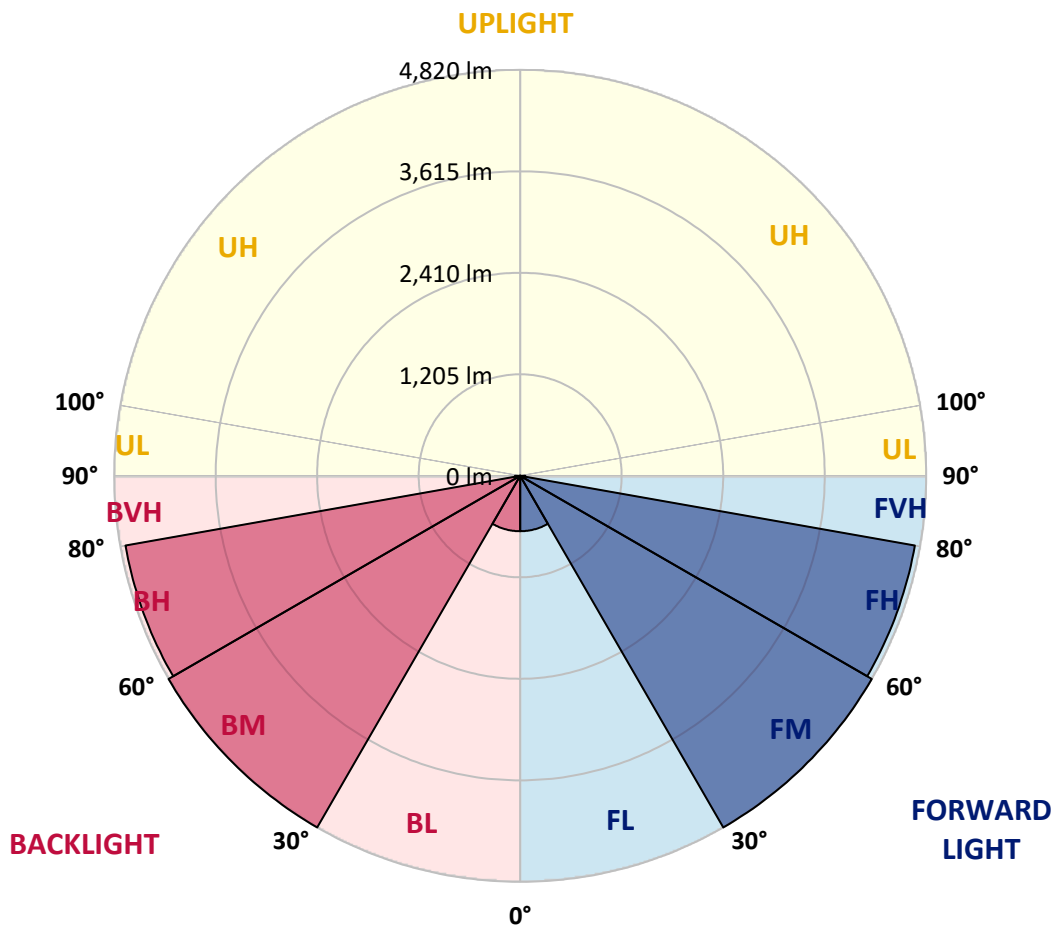
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.6	3.2			
FM (30°-60°)	4820.2	23.4			
FH (60°-80°)	4758.4	23.1			G2/5000
FVH (80°-90°)	60.7	0.3			G1/100
BL (0°-30°)	657.6	3.2	B2/1000		
BM (30°-60°)	4820.2	23.4	B3/5000		
BH (60°-80°)	4758.4	23.1	B4/5000		G2/5000
BVH (80°-90°)	60.7	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°	705.7	705.7	705.7	705.7	705.7
2.5°	868.8	813.1	838.6	813.1	868.8
5°	1104.3	1046.2	995.3	1031.9	1107.5
7.5°	1269.0	1182.3	1074.9	1172.7	1261.8
10°	1296.8	1248.3	1243.5	1242.7	1293.7
12.5°	1401.1	1368.4	1433.7	1371.6	1404.3
15°	1482.2	1463.9	1493.4	1487.0	1485.4
17.5°	1607.9	1483.8	1550.6	1476.7	1603.9
20°	1663.6	1487.8	1600.0	1479.0	1662.8
22.5°	1732.0	1581.7	1615.1	1585.6	1725.7
25°	1771.0	1642.1	1654.1	1643.7	1771.8
27.5°	1930.9	1775.8	1648.5	1797.3	1960.4
30°	2052.7	1862.5	1779.0	1864.9	2067.8
32.5°	2228.5	1992.2	1959.6	2024.0	2256.3
35°	2446.5	2210.2	2027.2	2211.0	2492.6
37.5°	2873.7	2408.3	2343.9	2478.3	2905.6
40°	3175.3	2721.0	2583.3	2771.1	3227.0
42.5°	3638.3	3071.8	2722.6	3097.3	3717.9
45°	4069.5	3497.5	3166.5	3526.9	4127.6
47.5°	4525.4	3888.1	3764.0	3924.7	4568.4
50°	5064.1	4417.2	4330.5	4458.6	5082.4
52.5°	5699.7	5125.3	4869.1	5149.2	5706.1
55°	6454.8	5719.6	5662.4	5784.9	6464.3
57.5°	7193.1	6489.8	6857.4	6496.9	7065.0
60°	7719.8	7199.5	7839.9	7016.5	7435.8
62.5°	7753.2	7725.4	9063.6	7415.1	7356.2
65°	7030.8	7512.9	10088.3	7270.3	6677.5
67.5°	5534.3	6311.6	10243.5	6189.0	5364.8
70°	3477.6	4370.3	9055.6	4538.2	3576.3
72.5°	1603.9	2355.0	6819.2	2651.0	1695.4
75°	574.4	901.4	4207.2	968.3	600.7
77.5°	326.2	365.2	1859.3	366.8	337.3
80°	210.0	227.5	537.0	240.3	204.5
82.5°	119.3	159.1	235.5	168.7	109.8
85°	64.4	101.0	104.2	103.4	64.4
87.5°	23.1	39.8	23.1	45.3	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)