

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: P367765

Luminaire Tested: **MSA-SA3A-830-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367765
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-SA3A-830-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10040 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

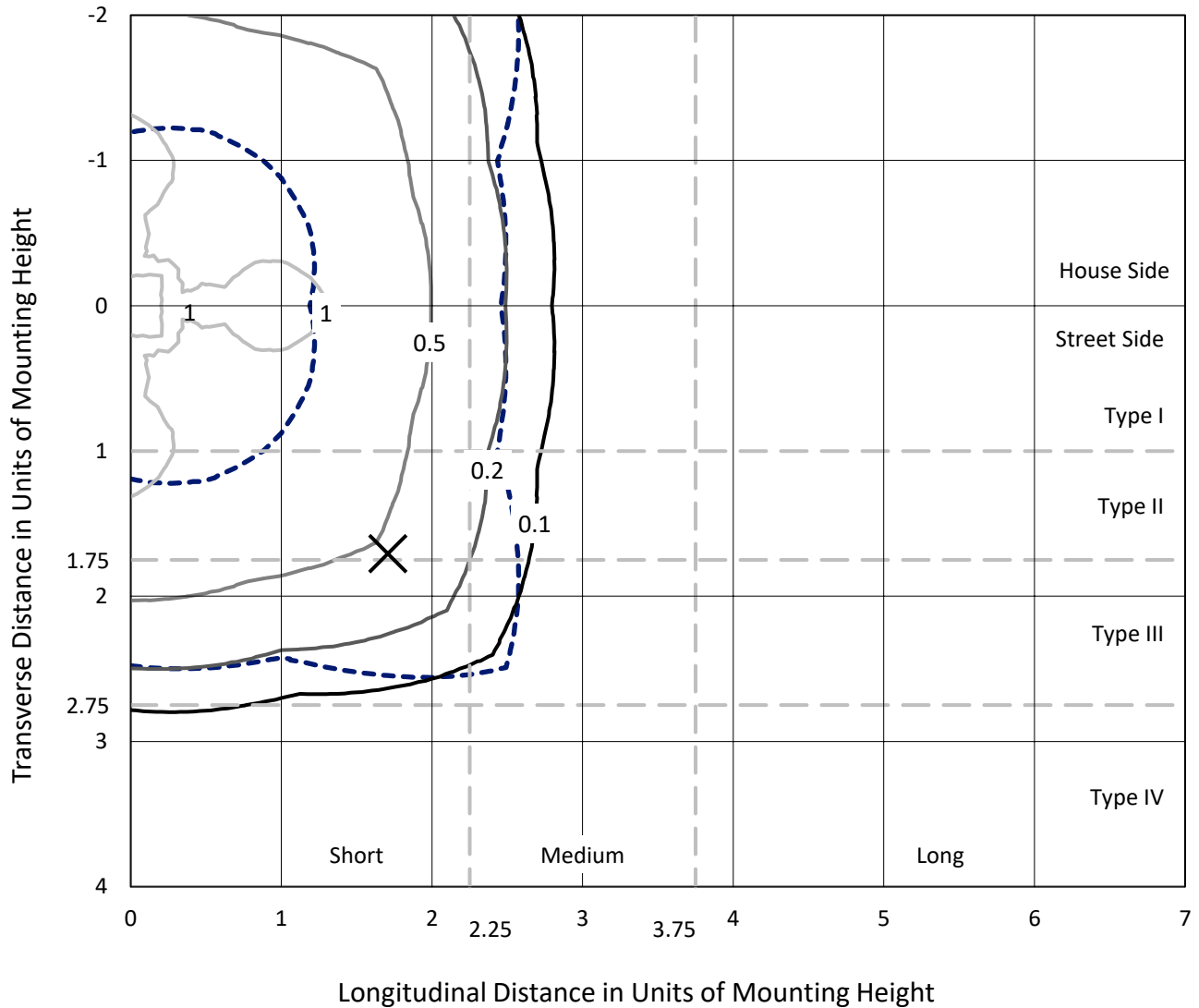
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

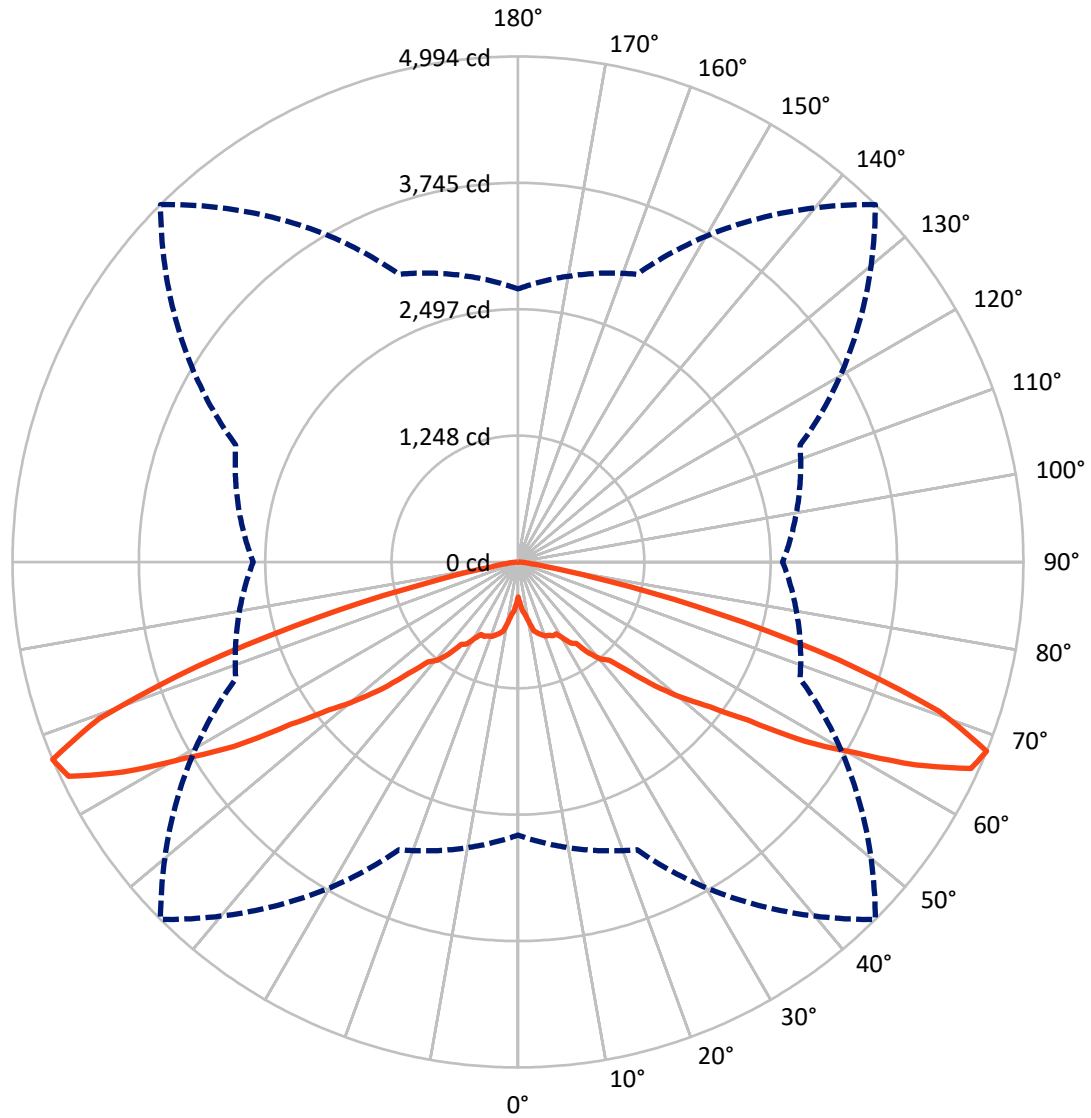
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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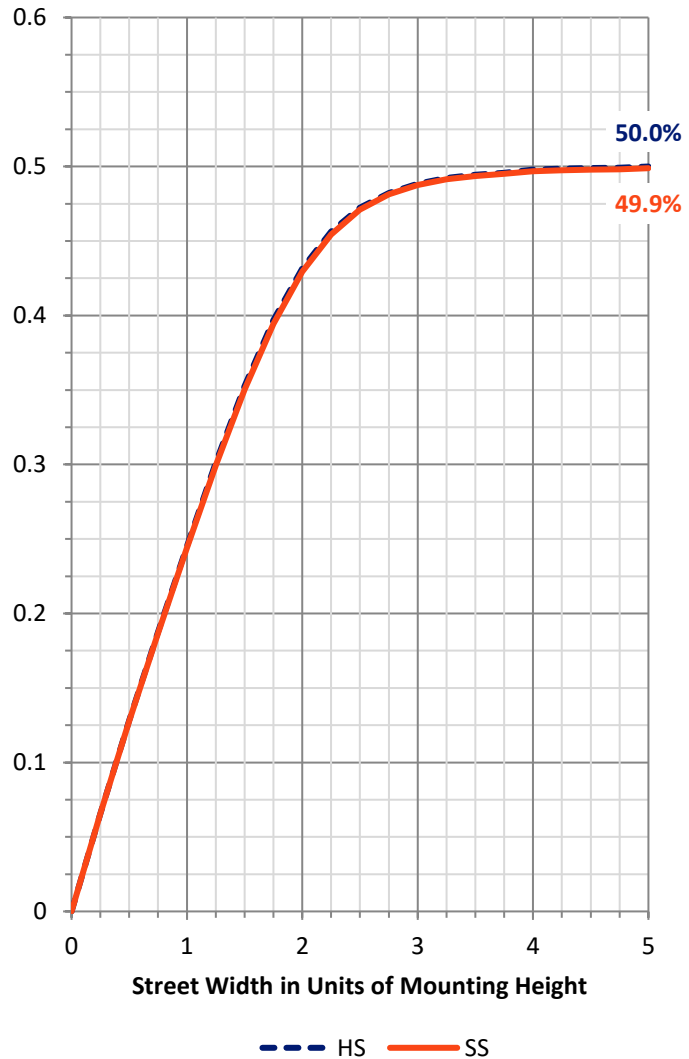
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5020.0	0.0	5020.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5020.0	0.0	5020.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10040.0	0.0	10040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	0.5
10°-20°	202.9	2.0
20°-30°	387.0	3.9
30°-40°	707.6	7.0
40°-50°	1372.1	13.7
50°-60°	2620.2	26.1
60°-70°	3540.2	35.3
70°-80°	1099.5	11.0
80°-90°	59.2	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°	10040.0	100.0
0°-180°	10040.0	100.0

Coefficient of Utilization



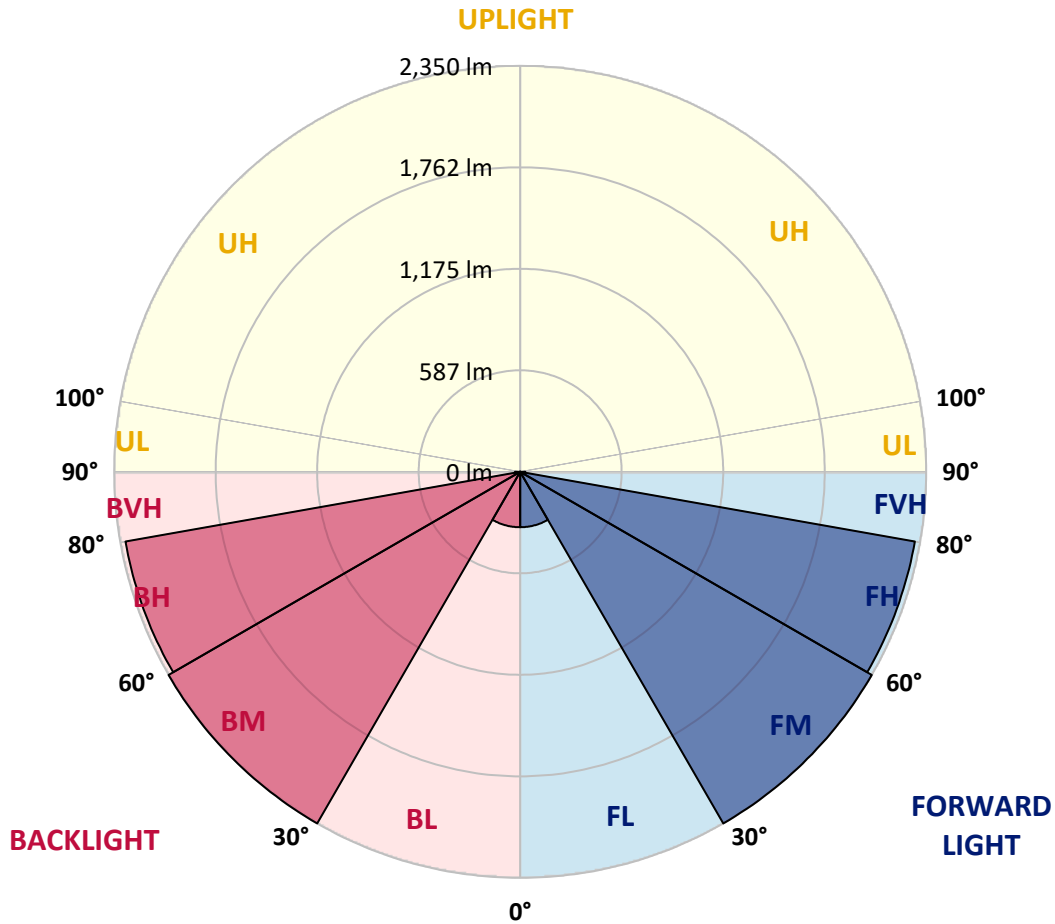
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	320.6	3.2			
FM (30°-60°)	2350.0	23.4			
FH (60°-80°)	2319.8	23.1			G2/5000
FVH (80°-90°)	29.6	0.3			G1/100
BL (0°-30°)	320.6	3.2	B1/500		
BM (30°-60°)	2350.0	23.4	B2/2500		
BH (60°-80°)	2319.8	23.1	B3/2500		G2/5000
BVH (80°-90°)	29.6	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	344.0	344.0	344.0	344.0	344.0
2.5°	423.6	396.4	408.8	396.4	423.6
5°	538.4	510.1	485.2	503.1	539.9
7.5°	618.7	576.4	524.0	571.7	615.2
10°	632.2	608.6	606.3	605.9	630.7
12.5°	683.0	667.1	699.0	668.7	684.6
15°	722.6	713.7	728.0	724.9	724.2
17.5°	783.9	723.4	756.0	719.9	782.0
20°	811.0	725.3	780.0	721.1	810.7
22.5°	844.4	771.1	787.4	773.0	841.3
25°	863.4	800.6	806.4	801.4	863.8
27.5°	941.4	865.7	803.7	876.2	955.7
30°	1000.7	908.0	867.3	909.2	1008.1
32.5°	1086.4	971.2	955.3	986.8	1100.0
35°	1192.7	1077.5	988.3	1077.9	1215.2
37.5°	1401.0	1174.1	1142.7	1208.2	1416.5
40°	1548.0	1326.5	1259.4	1351.0	1573.2
42.5°	1773.8	1497.6	1327.3	1510.0	1812.5
45°	1984.0	1705.1	1543.7	1719.5	2012.3
47.5°	2206.2	1895.6	1835.0	1913.4	2227.2
50°	2468.8	2153.5	2111.2	2173.7	2477.8
52.5°	2778.7	2498.7	2373.8	2510.3	2781.8
55°	3146.8	2788.4	2760.5	2820.2	3151.5
57.5°	3506.8	3163.9	3343.1	3167.4	3444.3
60°	3763.6	3509.9	3822.1	3420.7	3625.1
62.5°	3779.9	3766.3	4418.7	3615.0	3586.3
65°	3427.7	3662.7	4918.3	3544.4	3255.4
67.5°	2698.1	3077.0	4993.9	3017.3	2615.4
70°	1695.4	2130.6	4414.8	2212.4	1743.5
72.5°	782.0	1148.1	3324.5	1292.4	826.6
75°	280.0	439.5	2051.1	472.0	292.8
77.5°	159.0	178.0	906.5	178.8	164.5
80°	102.4	110.9	261.8	117.1	99.7
82.5°	58.2	77.6	114.8	82.2	53.5
85°	31.4	49.3	50.8	50.4	31.4
87.5°	11.2	19.4	11.2	22.1	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)