

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: P368337

Luminaire Tested: **MSA-SA4B-730-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368337
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-SA4B-730-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: 19058 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

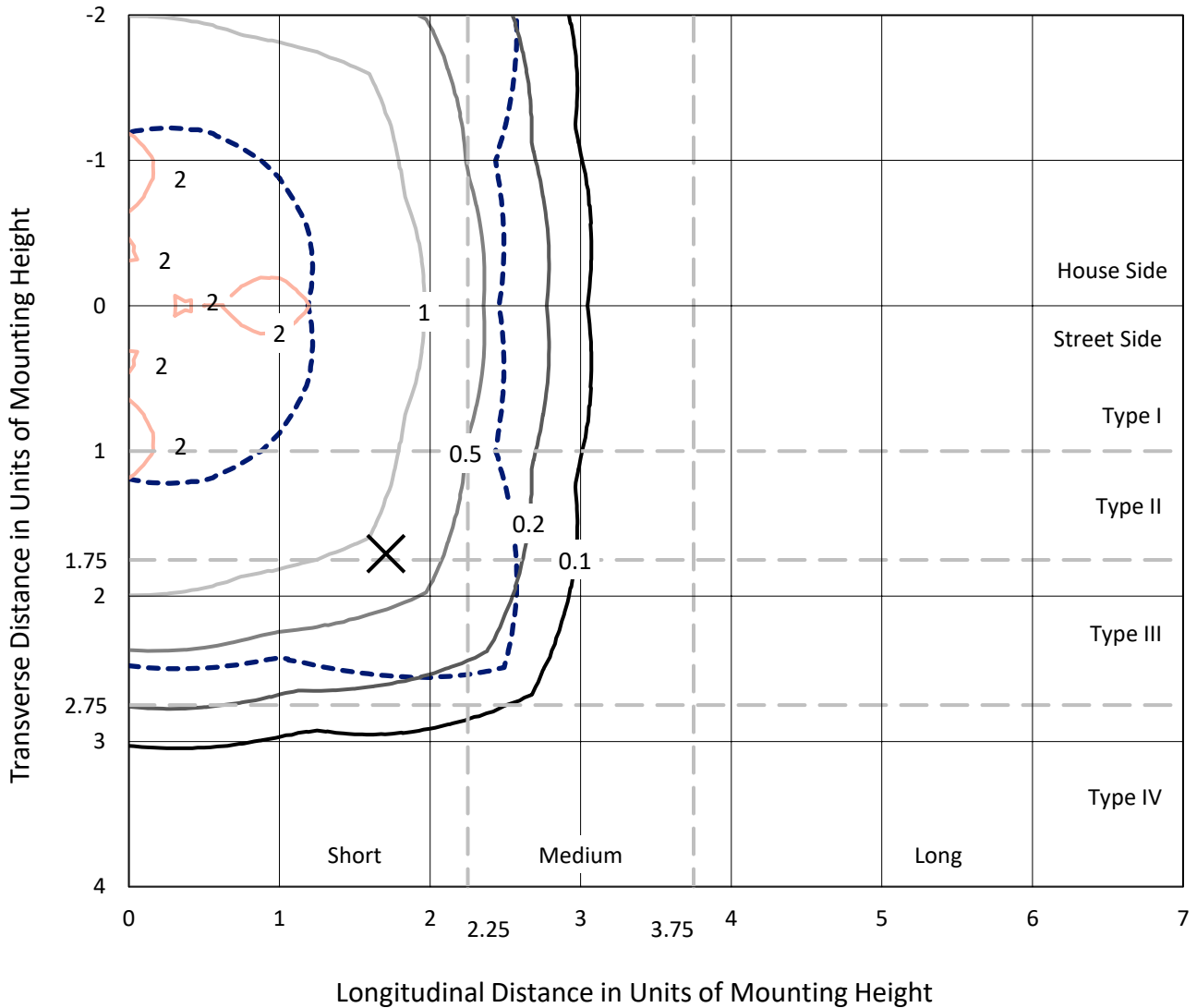
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

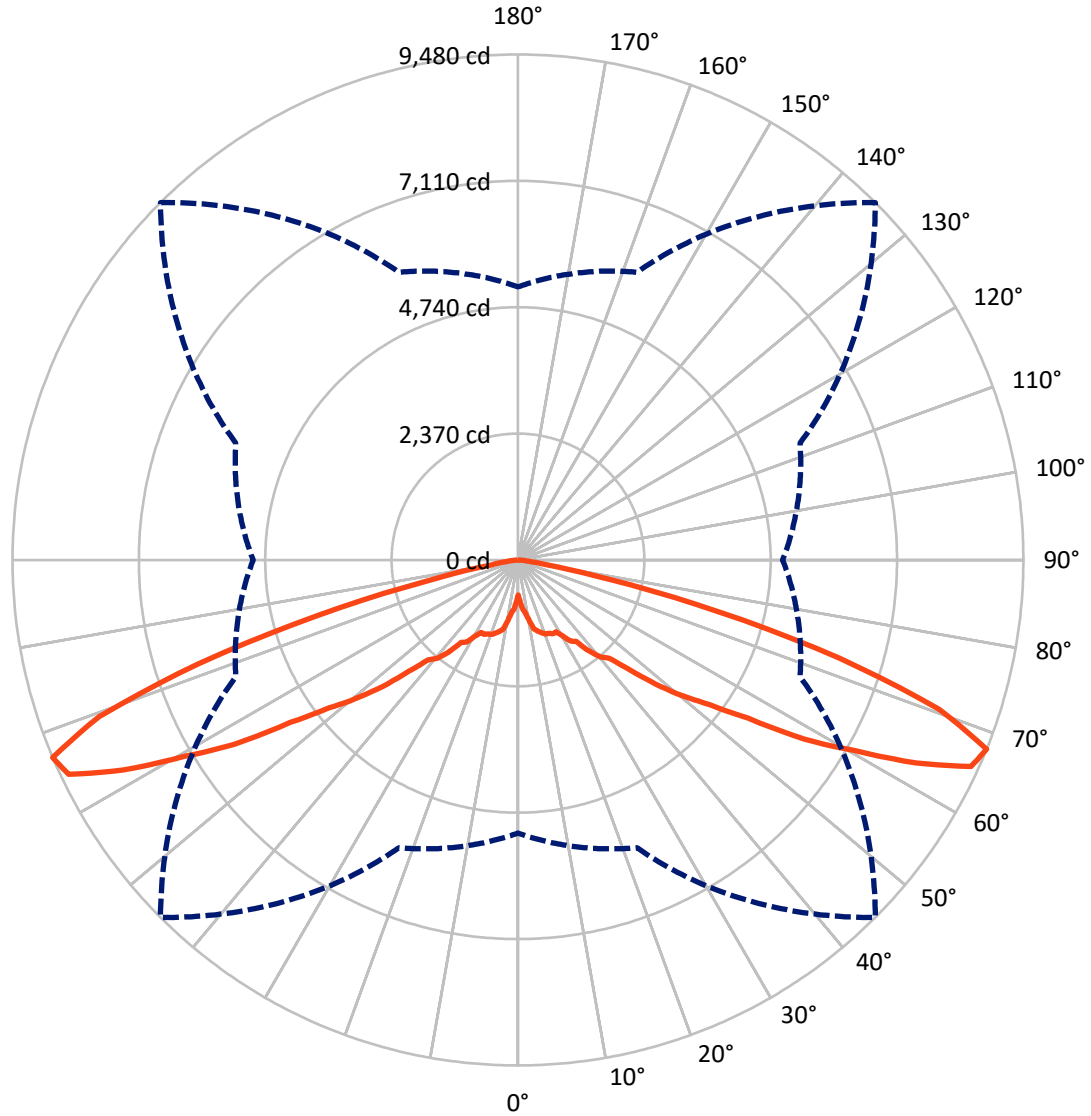
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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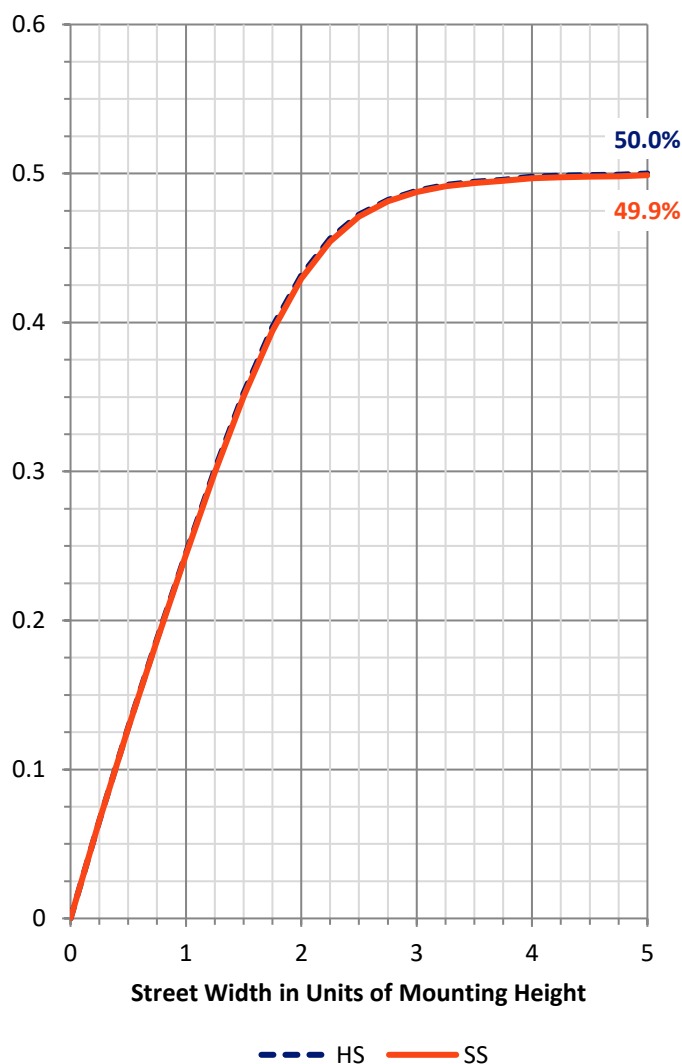
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9529.0	0.0	9529.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9529.0	0.0	9529.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19058.0	0.0	19058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	0.5
10°-20°	385.1	2.0
20°-30°	734.7	3.9
30°-40°	1343.3	7.0
40°-50°	2604.5	13.7
50°-60°	4973.7	26.1
60°-70°	6720.0	35.3
70°-80°	2087.0	11.0
80°-90°	112.4	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°	19058.0	100.0
0°-180°	19058.0	100.0

Coefficient of Utilization



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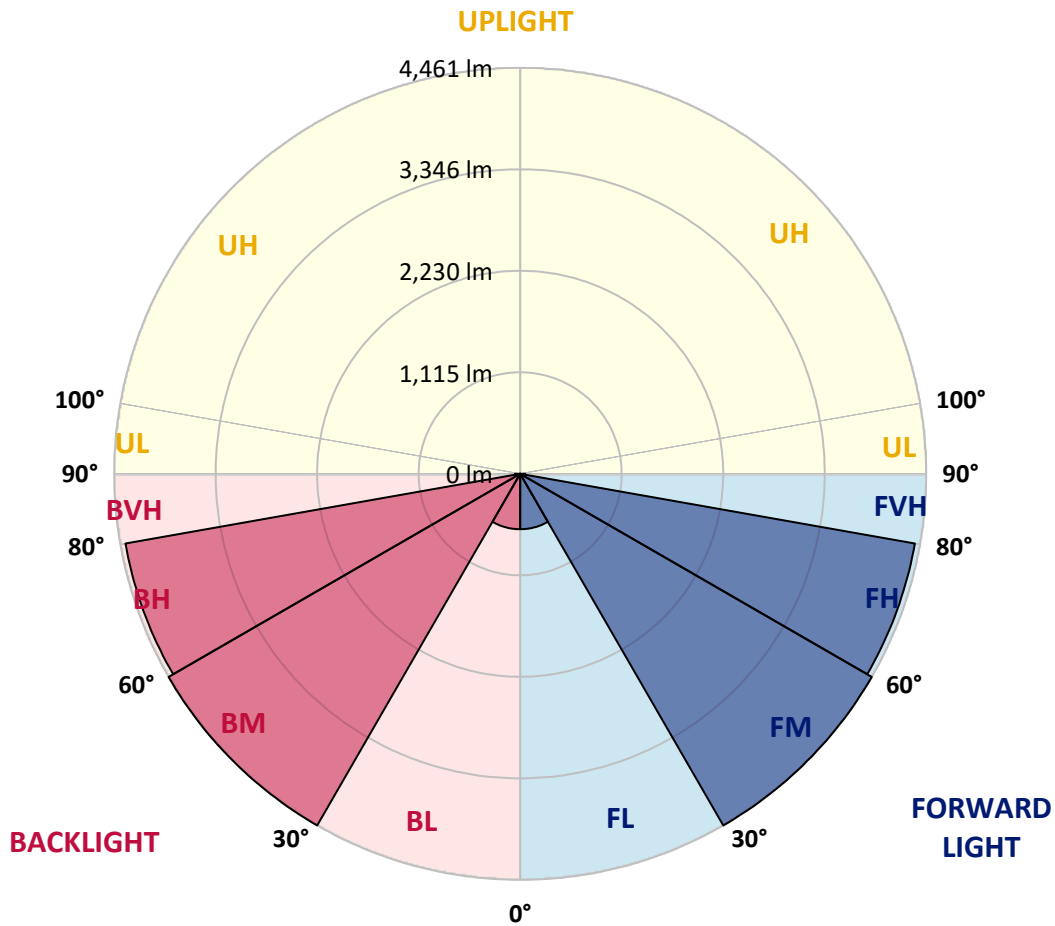
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.6	3.2			
FM (30°-60°)	4460.7	23.4			
FH (60°-80°)	4403.5	23.1			G2/5000
FVH (80°-90°)	56.2	0.3			G1/100
BL (0°-30°)	608.6	3.2	B2/1000		
BM (30°-60°)	4460.7	23.4	B3/5000		
BH (60°-80°)	4403.5	23.1	B4/5000		G2/5000
BVH (80°-90°)	56.2	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°	653.1	653.1	653.1	653.1	653.1
2.5°	804.0	752.5	776.0	752.5	804.0
5°	1021.9	968.2	921.1	954.9	1024.9
7.5°	1174.3	1094.1	994.7	1085.3	1167.7
10°	1200.1	1155.2	1150.8	1150.1	1197.2
12.5°	1296.6	1266.4	1326.8	1269.3	1299.5
15°	1371.7	1354.7	1382.0	1376.1	1374.6
17.5°	1488.0	1373.1	1435.0	1366.5	1484.3
20°	1539.5	1376.8	1480.6	1368.7	1538.8
22.5°	1602.9	1463.7	1494.6	1467.4	1597.0
25°	1638.9	1519.7	1530.7	1521.1	1639.7
27.5°	1786.9	1643.4	1525.5	1663.2	1814.2
30°	1899.6	1723.6	1646.3	1725.8	1913.6
32.5°	2062.3	1843.6	1813.4	1873.1	2088.1
35°	2264.0	2045.4	1876.0	2046.1	2306.7
37.5°	2659.4	2228.7	2169.0	2293.5	2688.9
40°	2938.4	2518.0	2390.7	2564.4	2986.3
42.5°	3367.0	2842.7	2519.5	2866.3	3440.6
45°	3766.0	3236.6	2930.4	3263.9	3819.8
47.5°	4187.9	3598.1	3483.3	3632.0	4227.7
50°	4686.4	4087.8	4007.5	4126.1	4703.3
52.5°	5274.6	4743.0	4506.0	4765.1	5280.5
55°	5973.4	5293.0	5240.0	5353.4	5982.2
57.5°	6656.6	6005.7	6345.9	6012.4	6538.1
60°	7144.0	6662.5	7255.2	6493.2	6881.2
62.5°	7174.9	7149.2	8387.6	6862.0	6807.5
65°	6506.4	6952.6	9335.9	6728.0	6179.5
67.5°	5121.5	5840.8	9479.5	5727.4	4964.7
70°	3218.2	4044.3	8380.2	4199.7	3309.5
72.5°	1484.3	2179.4	6310.6	2453.2	1569.0
75°	531.6	834.2	3893.4	896.0	555.9
77.5°	301.9	337.9	1720.7	339.4	312.2
80°	194.4	210.6	497.0	222.4	189.2
82.5°	110.4	147.3	217.9	156.1	101.6
85°	59.6	93.5	96.5	95.7	59.6
87.5°	21.4	36.8	21.4	42.0	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)