

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: P368579

Luminaire Tested: **MSA-SA4D-727-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368579
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-SA4D-727-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: 23697 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: B5 - U0 - G3

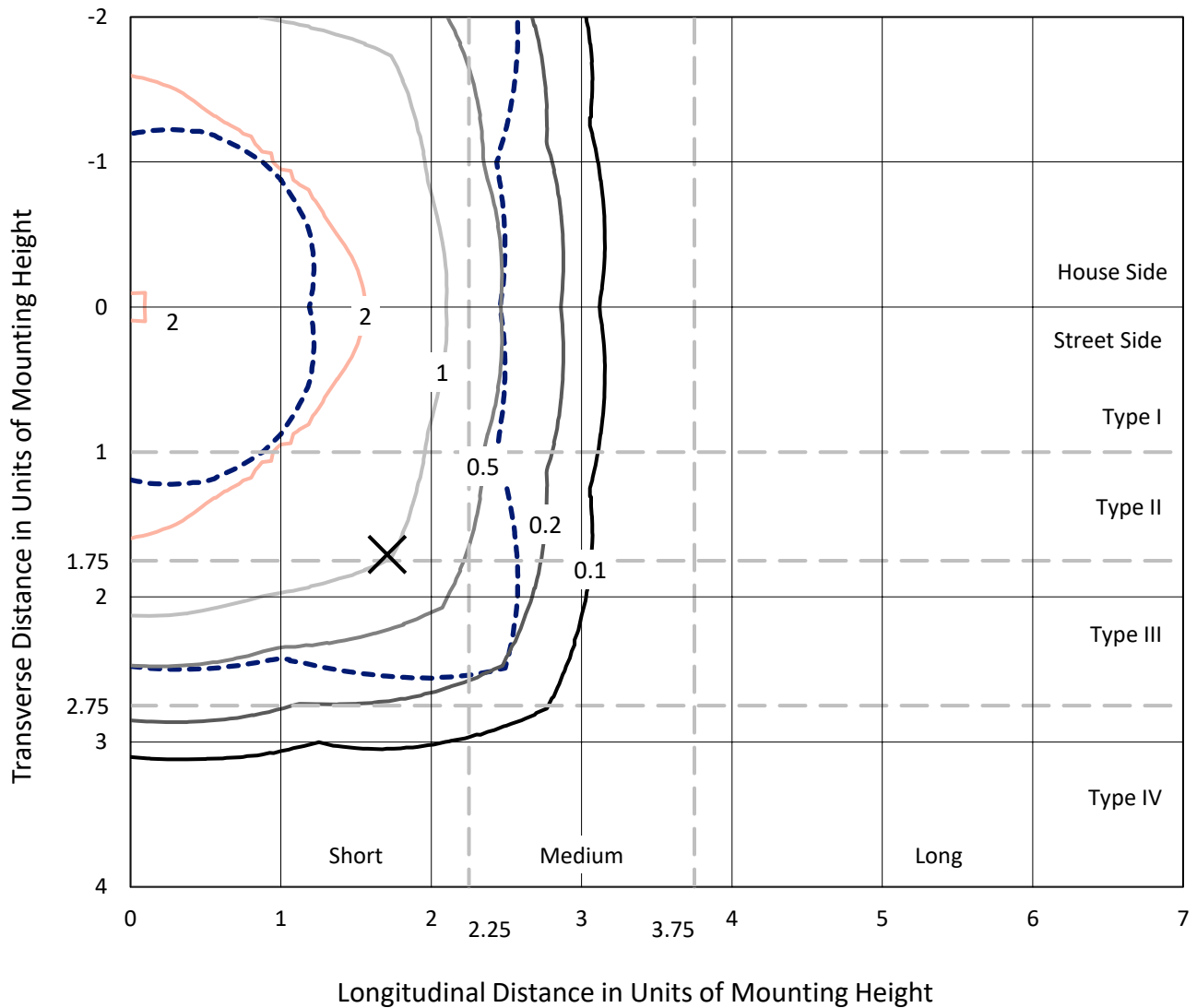
Input Watts (W): 259
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

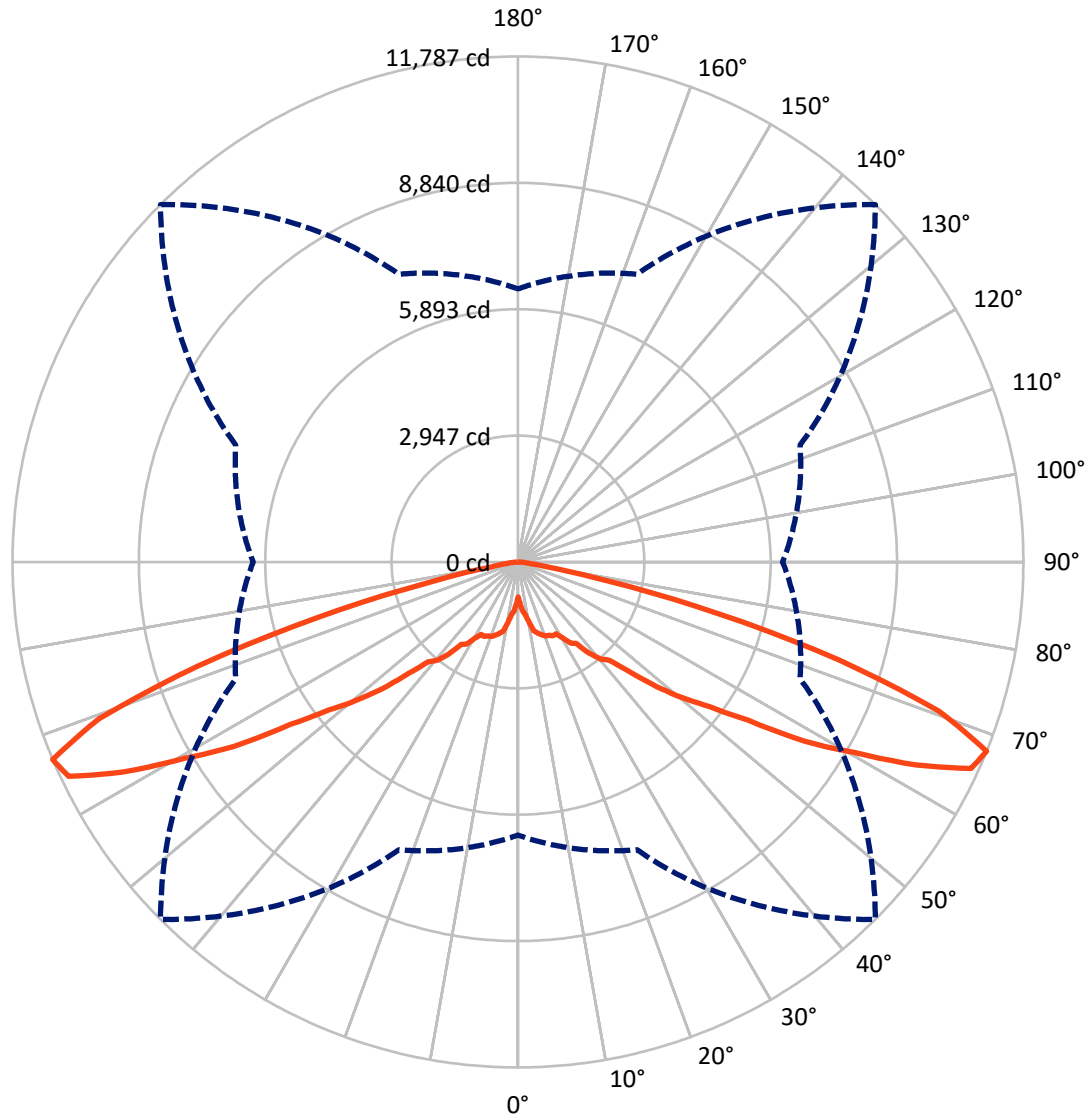
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	11848.5	0.0	11848.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11848.5	0.0	11848.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23697.0	0.0	23697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	0.5
10°-20°	478.8	2.0
20°-30°	913.5	3.9
30°-40°	1670.2	7.0
40°-50°	3238.5	13.7
50°-60°	6184.4	26.1
60°-70°	8355.7	35.3
70°-80°	2595.0	11.0
80°-90°	139.8	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°	23697.0	100.0
0°-180°	23697.0	100.0

Coefficient of Utilization



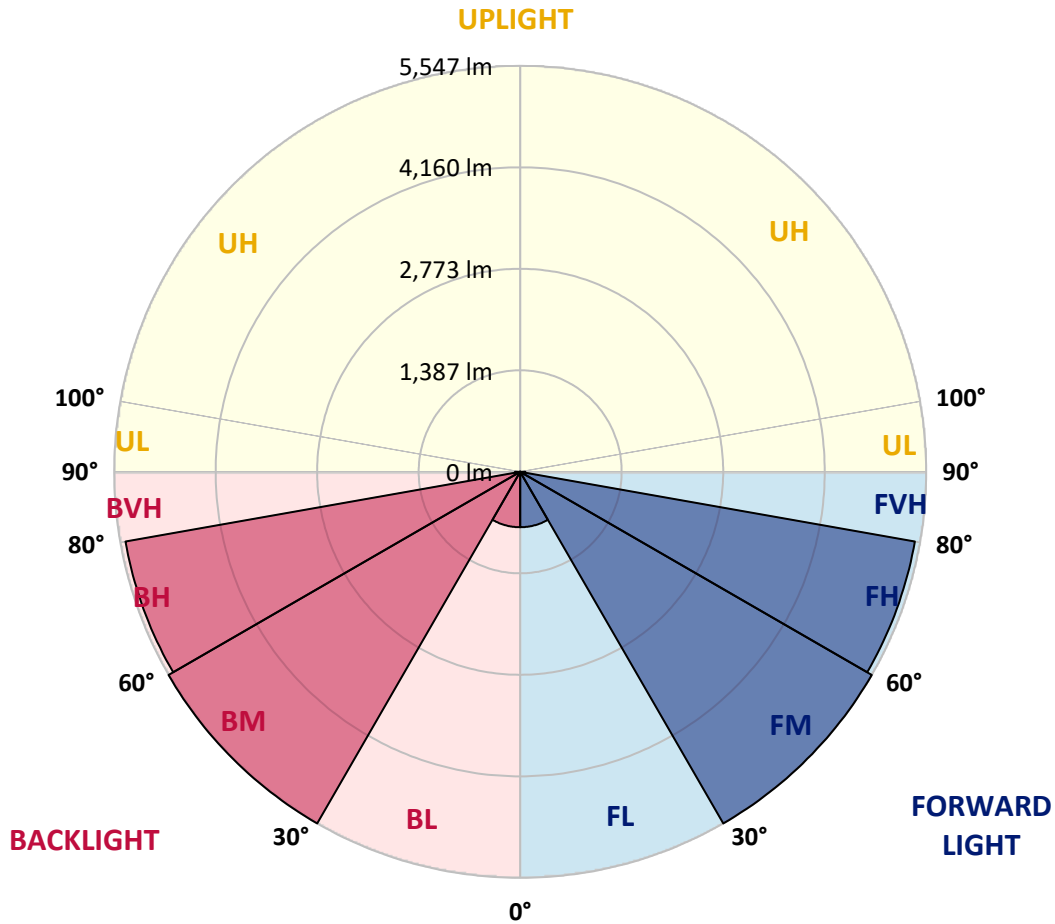
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	756.7	3.2			
FM (30°-60°)	5546.5	23.4			
FH (60°-80°)	5475.4	23.1			G3/7500
FVH (80°-90°)	69.9	0.3			G1/100
BL (0°-30°)	756.7	3.2	B2/1000		
BM (30°-60°)	5546.5	23.4	B4/8500		
BH (60°-80°)	5475.4	23.1	B5		G3/7500
BVH (80°-90°)	69.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	812.0	812.0	812.0	812.0	812.0
2.5°	999.7	935.6	964.9	935.6	999.7
5°	1270.7	1203.9	1145.3	1187.4	1274.4
7.5°	1460.2	1360.4	1236.8	1349.4	1452.0
10°	1492.2	1436.4	1430.9	1430.0	1488.6
12.5°	1612.2	1574.6	1649.7	1578.3	1615.8
15°	1705.6	1684.5	1718.4	1711.0	1709.2
17.5°	1850.2	1707.4	1784.3	1699.1	1845.6
20°	1914.3	1712.0	1841.0	1701.9	1913.4
22.5°	1993.0	1820.0	1858.4	1824.6	1985.7
25°	2037.9	1889.6	1903.3	1891.4	2038.8
27.5°	2221.9	2043.4	1896.9	2068.1	2255.8
30°	2362.0	2143.2	2047.0	2145.9	2379.4
32.5°	2564.3	2292.4	2254.8	2329.0	2596.3
35°	2815.1	2543.2	2332.7	2544.1	2868.2
37.5°	3306.7	2771.2	2697.0	2851.7	3343.4
40°	3653.7	3131.0	2972.6	3188.6	3713.2
42.5°	4186.5	3534.7	3132.8	3564.0	4278.1
45°	4682.7	4024.5	3643.6	4058.4	4749.6
47.5°	5207.3	4474.0	4331.2	4516.1	5256.7
50°	5827.1	5082.8	4983.0	5130.4	5848.1
52.5°	6558.6	5897.6	5602.8	5925.0	6565.9
55°	7427.4	6581.4	6515.5	6656.5	7438.3
57.5°	8276.9	7467.6	7890.6	7475.9	8129.5
60°	8883.0	8284.2	9021.2	8073.7	8556.1
62.5°	8921.4	8889.4	10429.2	8532.3	8464.6
65°	8090.2	8645.0	11608.4	8365.7	7683.7
67.5°	6368.1	7262.6	11786.9	7121.6	6173.1
70°	4001.6	5028.8	10420.1	5221.9	4115.1
72.5°	1845.6	2709.8	7846.6	3050.4	1950.9
75°	661.0	1037.2	4841.1	1114.1	691.2
77.5°	375.3	420.2	2139.5	422.0	388.2
80°	241.7	261.8	618.0	276.5	235.3
82.5°	137.3	183.1	271.0	194.1	126.3
85°	74.2	116.3	119.9	119.0	74.2
87.5°	26.5	45.8	26.5	52.2	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)