

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: P367149

Luminaire Tested: **MSA-SA2A-730-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367149
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-SA2A-730-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7797 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

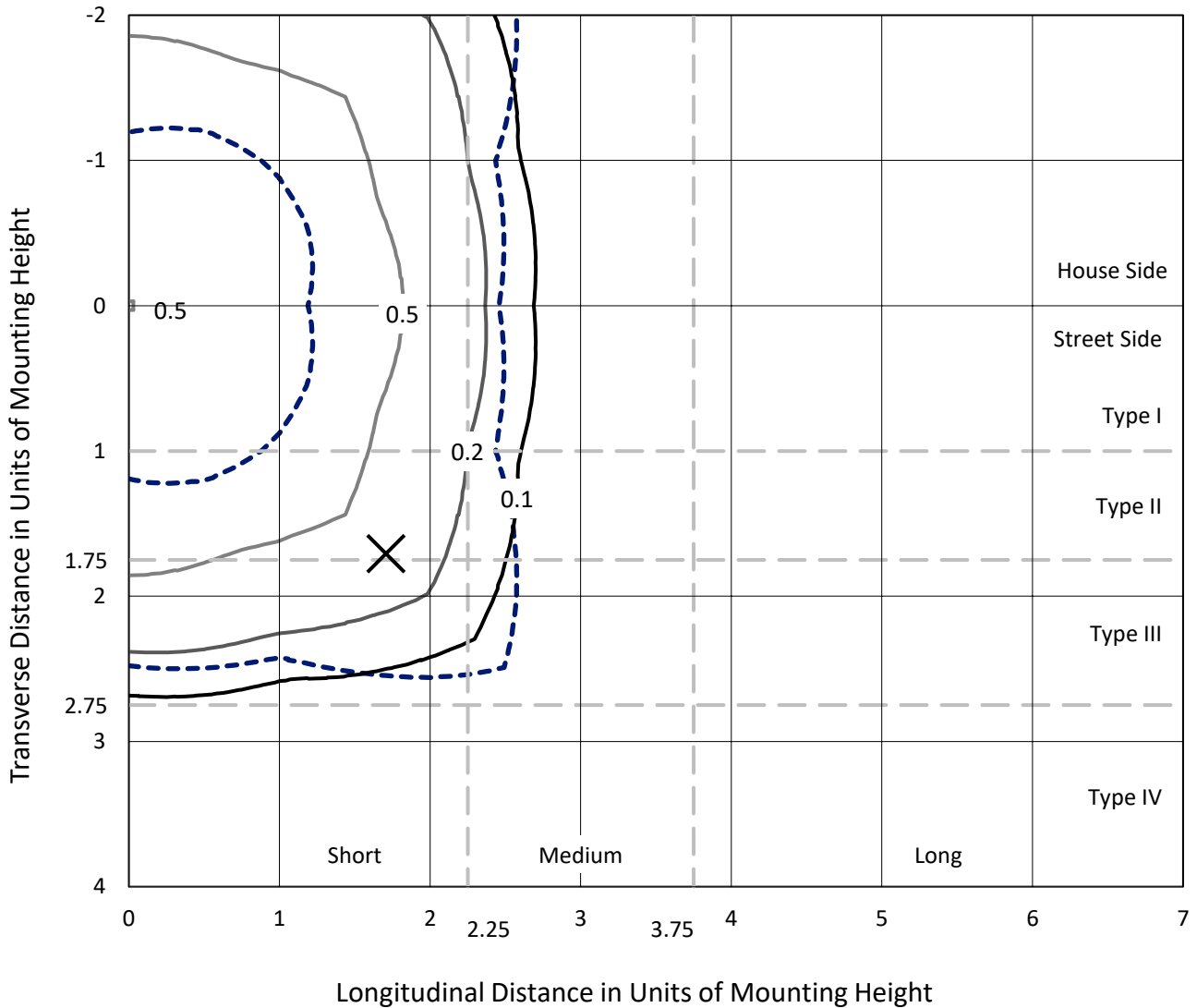
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

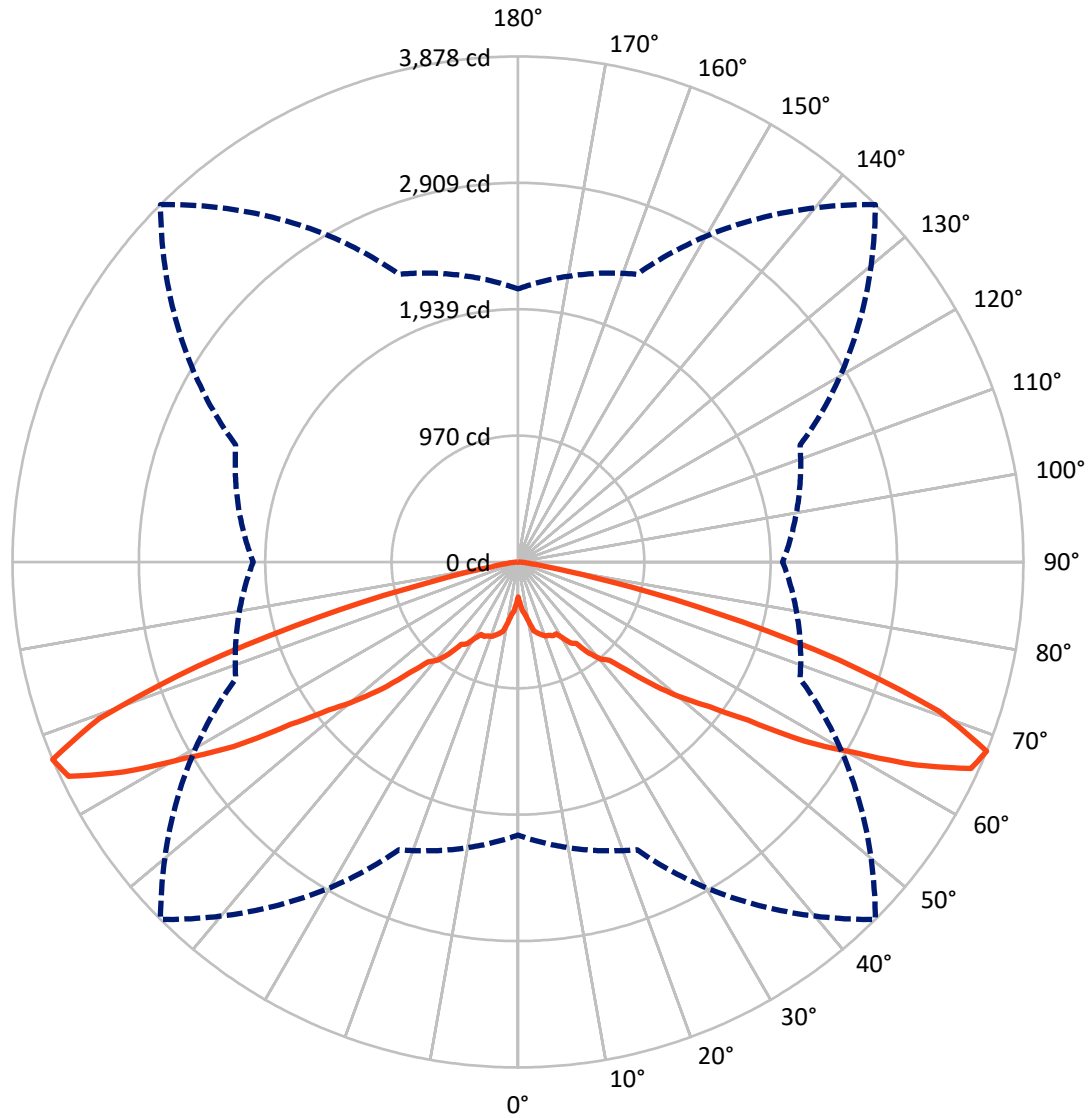
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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	3898.5	0.0	3898.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3898.5	0.0	3898.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7797.0	0.0	7797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	0.5
10°-20°	157.5	2.0
20°-30°	300.6	3.9
30°-40°	549.6	7.0
40°-50°	1065.6	13.7
50°-60°	2034.8	26.1
60°-70°	2749.3	35.3
70°-80°	853.8	11.0
80°-90°	46.0	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°	7797.0	100.0
0°-180°	7797.0	100.0

Coefficient of Utilization



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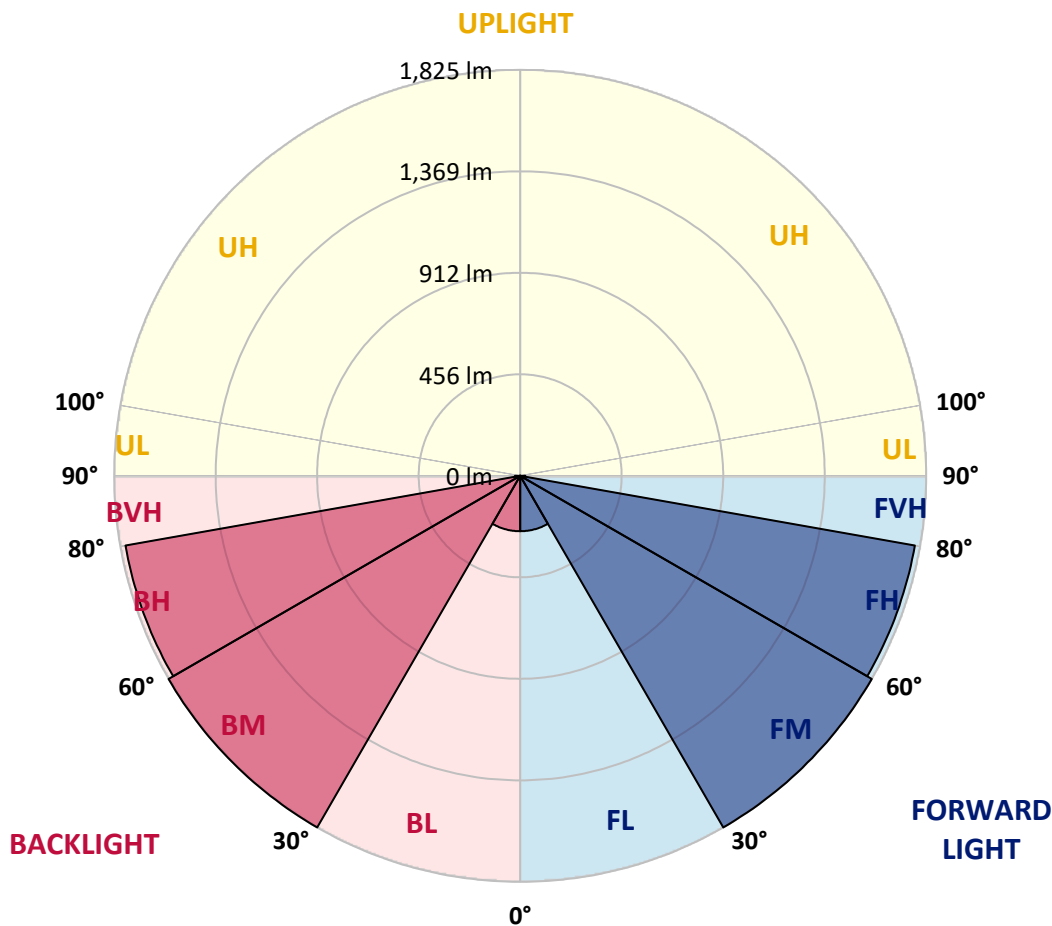
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	249.0	3.2			
FM (30°-60°)	1825.0	23.4			
FH (60°-80°)	1801.6	23.1			G2/5000
FVH (80°-90°)	23.0	0.3			G1/100
BL (0°-30°)	249.0	3.2	B1/500		
BM (30°-60°)	1825.0	23.4	B2/2500		
BH (60°-80°)	1801.6	23.1	B3/2500		G2/5000
BVH (80°-90°)	23.0	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°	267.2	267.2	267.2	267.2	267.2
2.5°	328.9	307.8	317.5	307.8	328.9
5°	418.1	396.1	376.8	390.7	419.3
7.5°	480.4	447.6	407.0	444.0	477.7
10°	491.0	472.6	470.8	470.5	489.8
12.5°	530.5	518.1	542.8	519.3	531.7
15°	561.2	554.2	565.4	563.0	562.4
17.5°	608.8	561.8	587.1	559.1	607.3
20°	629.9	563.3	605.8	560.0	629.6
22.5°	655.8	598.8	611.5	600.3	653.4
25°	670.5	621.7	626.2	622.3	670.8
27.5°	731.1	672.3	624.1	680.5	742.2
30°	777.2	705.2	673.5	706.1	782.9
32.5°	843.7	754.3	741.9	766.3	854.3
35°	926.3	836.8	767.5	837.1	943.7
37.5°	1088.0	911.8	887.4	938.3	1100.1
40°	1202.2	1030.2	978.1	1049.2	1221.8
42.5°	1377.5	1163.0	1030.8	1172.7	1407.6
45°	1540.8	1324.2	1198.9	1335.3	1562.7
47.5°	1713.4	1472.1	1425.1	1485.9	1729.6
50°	1917.3	1672.4	1639.6	1688.0	1924.2
52.5°	2158.0	1940.5	1843.5	1949.5	2160.4
55°	2443.8	2165.5	2143.8	2190.2	2447.4
57.5°	2723.3	2457.1	2596.2	2459.8	2674.9
60°	2922.8	2725.8	2968.2	2656.5	2815.2
62.5°	2935.4	2924.9	3431.5	2807.4	2785.1
65°	2661.9	2844.4	3819.5	2752.6	2528.2
67.5°	2095.3	2389.6	3878.2	2343.2	2031.1
70°	1316.6	1654.6	3428.5	1718.2	1354.0
72.5°	607.3	891.6	2581.8	1003.7	641.9
75°	217.5	341.3	1592.9	366.6	227.4
77.5°	123.5	138.3	704.0	138.9	127.7
80°	79.5	86.1	203.3	91.0	77.4
82.5°	45.2	60.2	89.2	63.9	41.6
85°	24.4	38.3	39.5	39.2	24.4
87.5°	8.7	15.1	8.7	17.2	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)