

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: P367699

Luminaire Tested: **MSA-SA3A-740-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367699
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-740-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: 12634 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

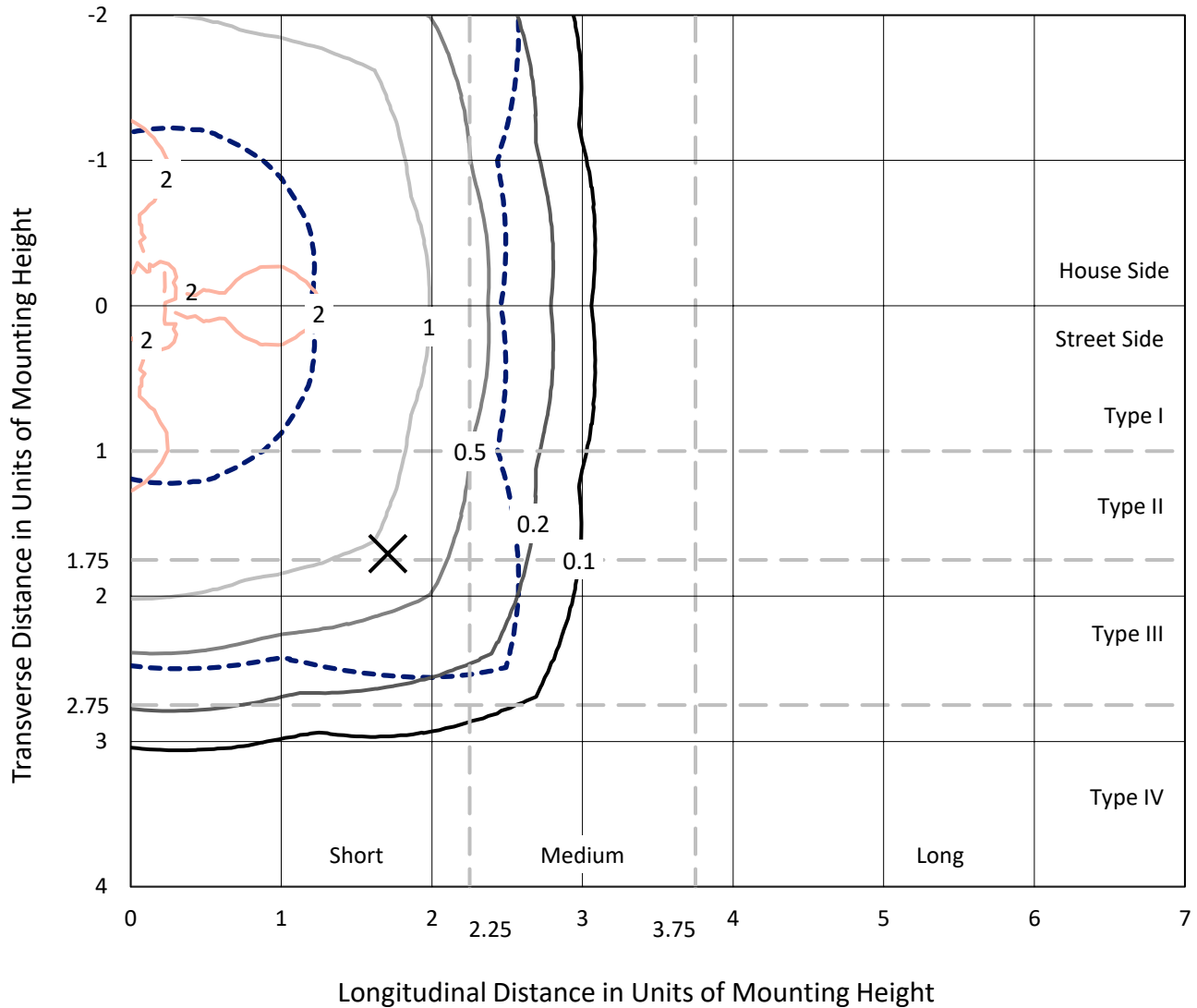
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

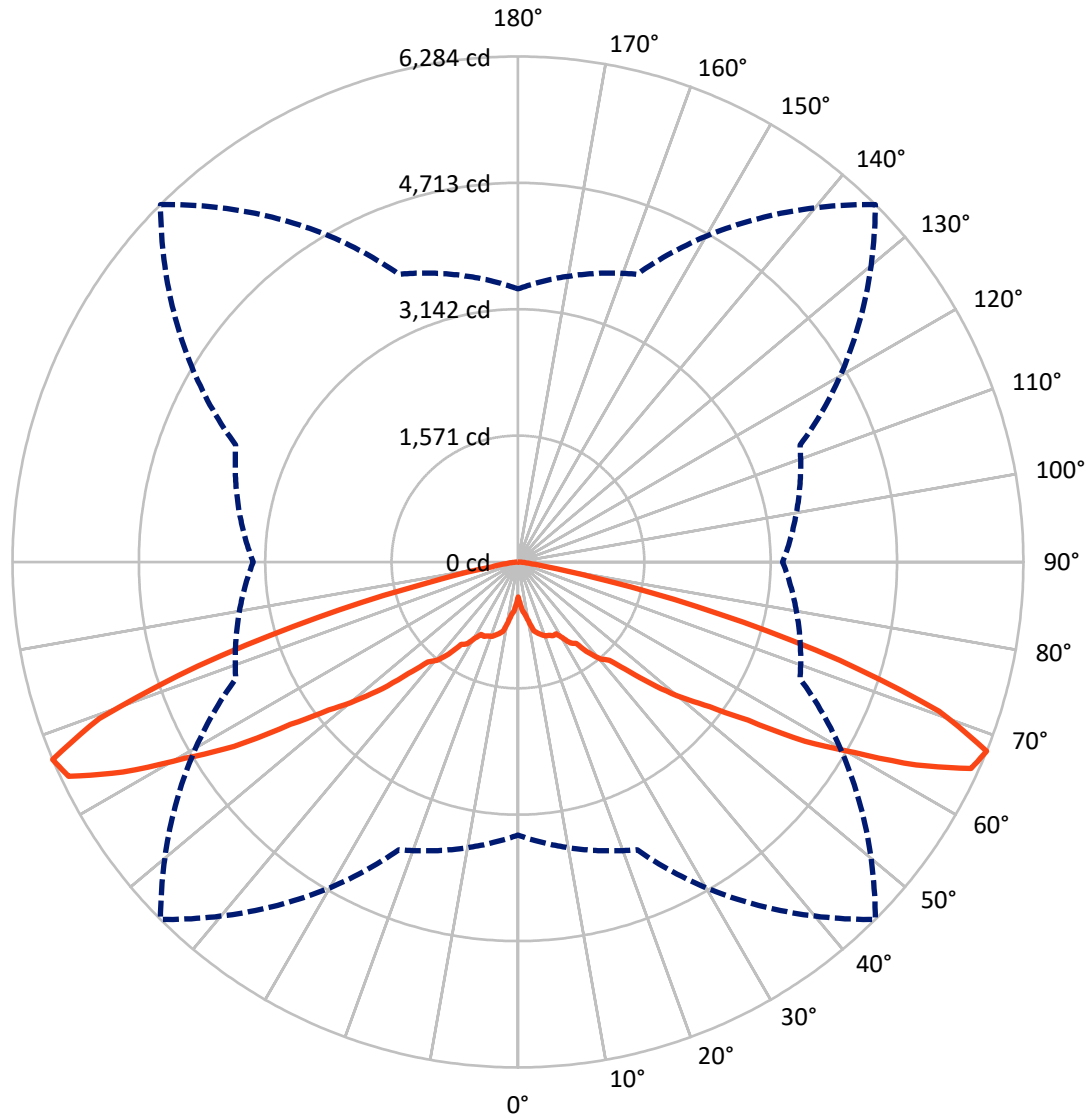
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 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	6317.0	0.0	6317.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6317.0	0.0	6317.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12634.0	0.0	12634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	0.5
10°-20°	255.3	2.0
20°-30°	487.0	3.9
30°-40°	890.5	7.0
40°-50°	1726.6	13.7
50°-60°	3297.2	26.1
60°-70°	4454.8	35.3
70°-80°	1383.5	11.0
80°-90°	74.5	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°	12634.0	100.0
0°-180°	12634.0	100.0

Coefficient of Utilization



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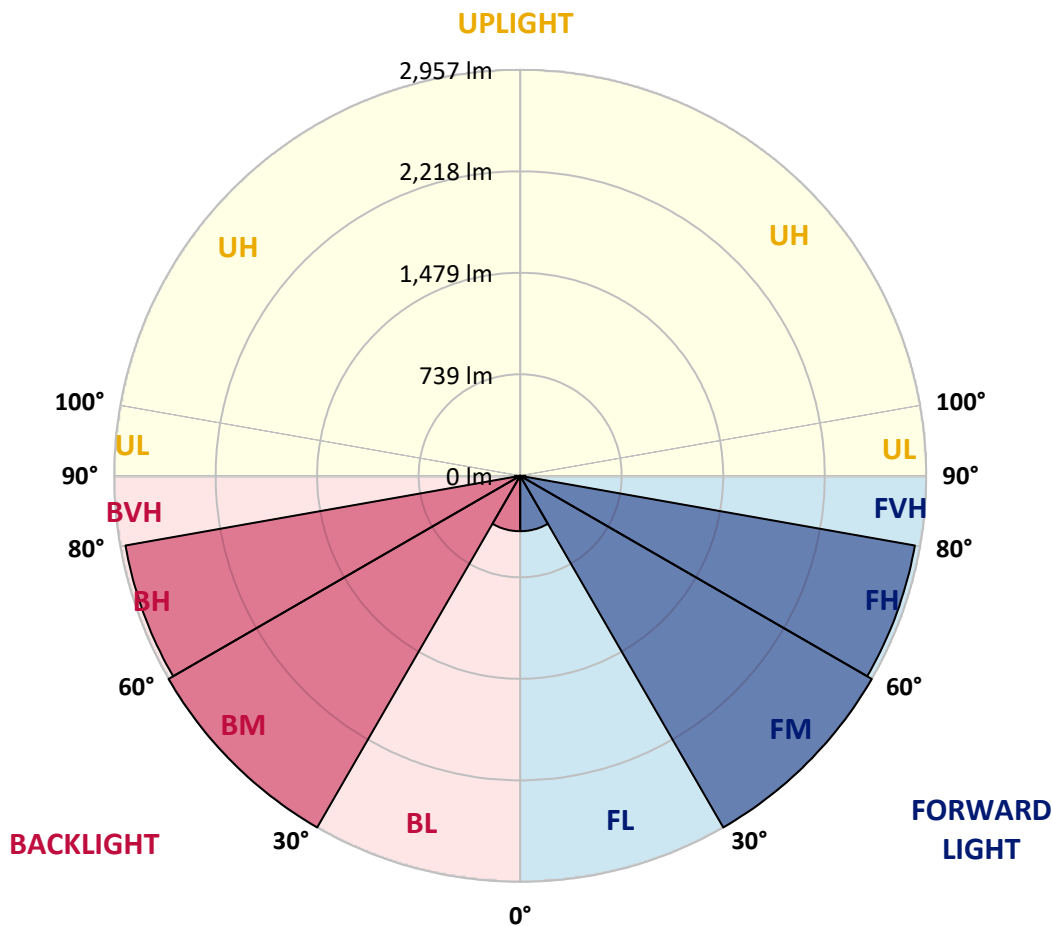
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	403.4	3.2			
FM (30°-60°)	2957.1	23.4			
FH (60°-80°)	2919.2	23.1			G2/5000
FVH (80°-90°)	37.3	0.3			G1/100
BL (0°-30°)	403.4	3.2	B1/500		
BM (30°-60°)	2957.1	23.4	B3/5000		
BH (60°-80°)	2919.2	23.1	B4/5000		G2/5000
BVH (80°-90°)	37.3	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°	432.9	432.9	432.9	432.9	432.9
2.5°	533.0	498.8	514.4	498.8	533.0
5°	677.5	641.8	610.6	633.1	679.4
7.5°	778.5	725.3	659.4	719.4	774.1
10°	795.6	765.8	762.9	762.4	793.6
12.5°	859.5	839.5	879.5	841.5	861.5
15°	909.3	898.1	916.1	912.2	911.3
17.5°	986.4	910.3	951.3	905.9	984.0
20°	1020.6	912.7	981.5	907.4	1020.1
22.5°	1062.6	970.3	990.8	972.8	1058.7
25°	1086.5	1007.4	1014.7	1008.4	1087.0
27.5°	1184.6	1089.4	1011.3	1102.6	1202.7
30°	1259.3	1142.6	1091.4	1144.1	1268.5
32.5°	1367.1	1222.2	1202.2	1241.7	1384.2
35°	1500.9	1355.9	1243.7	1356.4	1529.2
37.5°	1763.0	1477.4	1437.9	1520.4	1782.5
40°	1948.0	1669.3	1584.8	1700.0	1979.7
42.5°	2232.0	1884.5	1670.2	1900.1	2280.8
45°	2496.6	2145.6	1942.6	2163.7	2532.2
47.5°	2776.3	2385.3	2309.2	2407.7	2802.6
50°	3106.7	2709.9	2656.7	2735.3	3117.9
52.5°	3496.7	3144.3	2987.1	3158.9	3500.6
55°	3959.9	3508.9	3473.7	3548.9	3965.7
57.5°	4412.8	3981.4	4206.8	3985.7	4334.2
60°	4735.9	4416.7	4809.6	4304.5	4561.7
62.5°	4756.4	4739.4	5560.3	4549.0	4512.9
65°	4313.3	4609.0	6189.0	4460.2	4096.5
67.5°	3395.2	3872.0	6284.2	3796.9	3291.2
70°	2133.4	2681.1	5555.4	2784.1	2194.0
72.5°	984.0	1444.7	4183.4	1626.3	1040.1
75°	352.4	553.0	2581.0	594.0	368.5
77.5°	200.1	224.0	1140.7	225.0	207.0
80°	128.9	139.6	329.5	147.4	125.4
82.5°	73.2	97.6	144.5	103.5	67.4
85°	39.5	62.0	63.9	63.5	39.5
87.5°	14.2	24.4	14.2	27.8	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)