

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: P366995

Luminaire Tested: **MSA-SA1D-727-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366995
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-SA1D-727-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6177 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

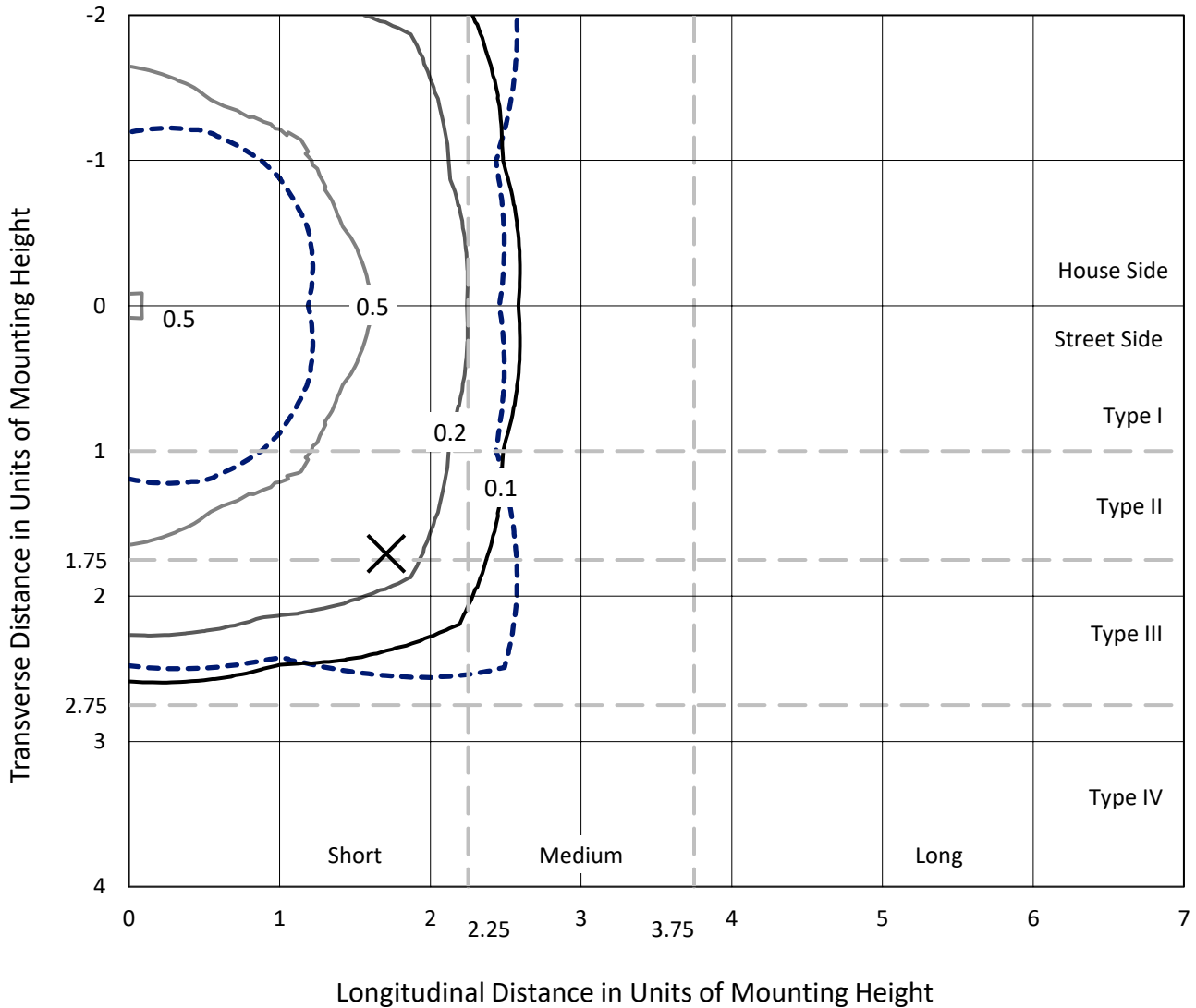
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

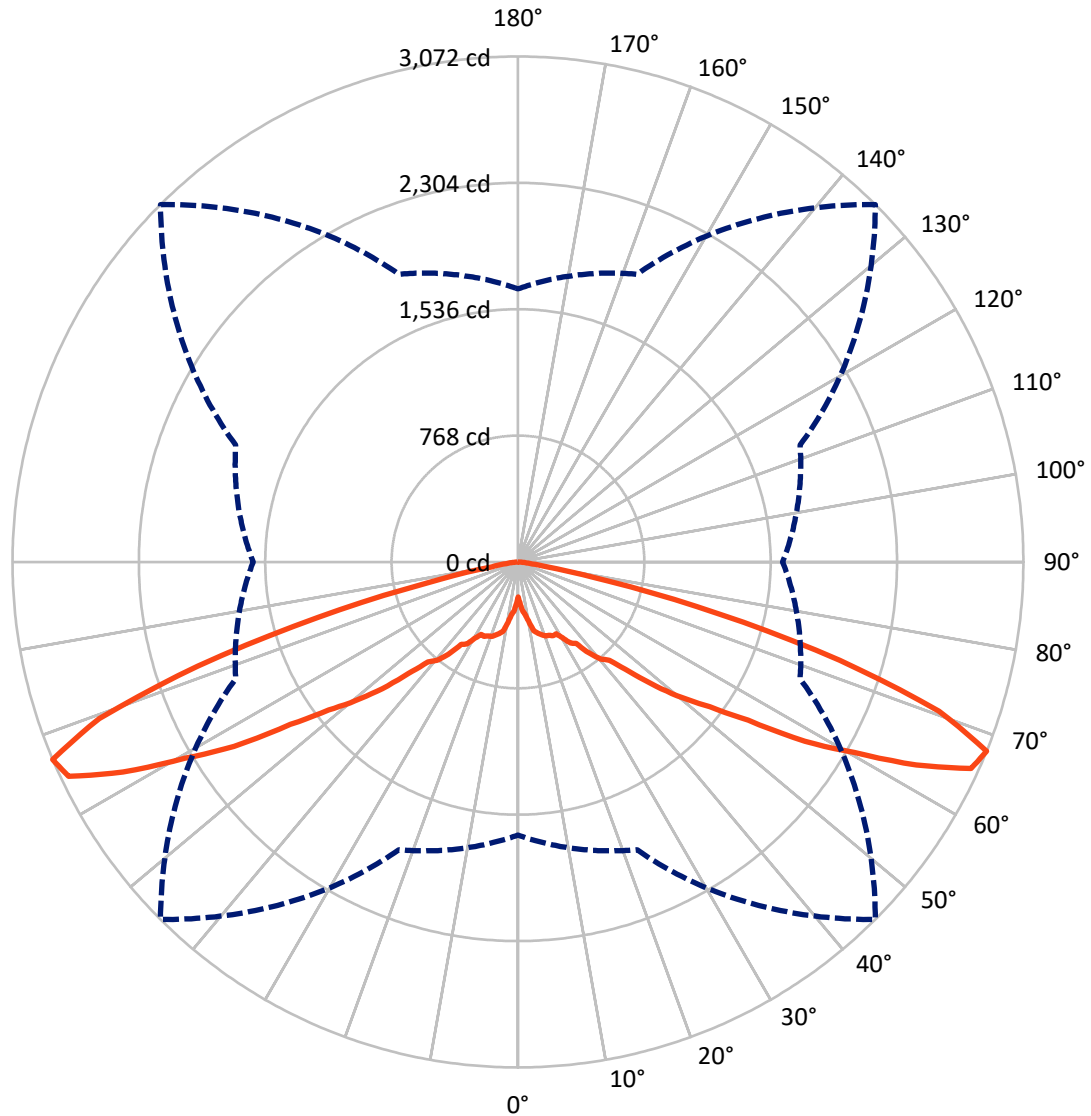
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	3088.5	0.0	3088.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3088.5	0.0	3088.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6177.0	0.0	6177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	0.5
10°-20°	124.8	2.0
20°-30°	238.1	3.9
30°-40°	435.4	7.0
40°-50°	844.2	13.7
50°-60°	1612.1	26.1
60°-70°	2178.0	35.3
70°-80°	676.4	11.0
80°-90°	36.4	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°	6177.0	100.0
0°-180°	6177.0	100.0

Coefficient of Utilization



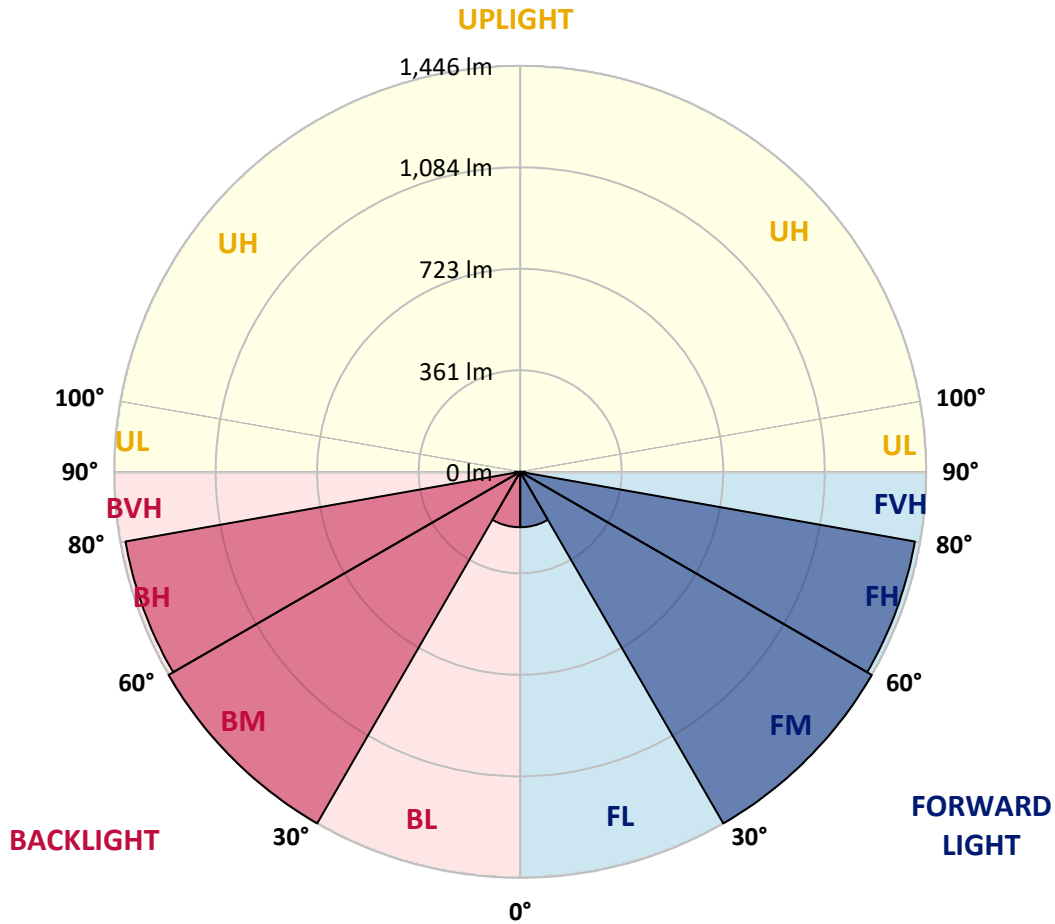
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	197.2	3.2			
FM (30°-60°)	1445.8	23.4			
FH (60°-80°)	1427.2	23.1			G1/1800
FVH (80°-90°)	18.2	0.3			G1/100
BL (0°-30°)	197.2	3.2	B1/500		
BM (30°-60°)	1445.8	23.4	B2/2500		
BH (60°-80°)	1427.2	23.1	B3/2500		G1/1800
BVH (80°-90°)	18.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	211.7	211.7	211.7	211.7	211.7
2.5°	260.6	243.9	251.5	243.9	260.6
5°	331.2	313.8	298.5	309.5	332.2
7.5°	380.6	354.6	322.4	351.8	378.5
10°	389.0	374.4	373.0	372.8	388.0
12.5°	420.2	410.5	430.0	411.4	421.2
15°	444.6	439.1	447.9	446.0	445.5
17.5°	482.3	445.1	465.1	442.9	481.1
20°	499.0	446.3	479.9	443.6	498.8
22.5°	519.5	474.4	484.4	475.6	517.6
25°	531.2	492.5	496.1	493.0	531.4
27.5°	579.2	532.6	494.5	539.1	588.0
30°	615.7	558.6	533.6	559.4	620.2
32.5°	668.4	597.5	587.8	607.1	676.8
35°	733.8	662.9	608.0	663.2	747.6
37.5°	862.0	722.4	703.0	743.4	871.5
40°	952.4	816.1	774.9	831.2	967.9
42.5°	1091.3	921.4	816.6	929.0	1115.1
45°	1220.6	1049.0	949.8	1057.9	1238.0
47.5°	1357.4	1166.2	1129.0	1177.2	1370.3
50°	1518.9	1324.9	1298.9	1337.3	1524.4
52.5°	1709.6	1537.3	1460.5	1544.5	1711.5
55°	1936.1	1715.6	1698.4	1735.1	1938.9
57.5°	2157.5	1946.6	2056.8	1948.7	2119.1
60°	2315.5	2159.4	2351.5	2104.5	2230.3
62.5°	2325.5	2317.2	2718.5	2224.1	2206.4
65°	2108.8	2253.4	3025.9	2180.7	2002.9
67.5°	1660.0	1893.1	3072.4	1856.4	1609.1
70°	1043.1	1310.8	2716.2	1361.2	1072.7
72.5°	481.1	706.4	2045.4	795.1	508.5
75°	172.3	270.4	1261.9	290.4	180.2
77.5°	97.8	109.5	557.7	110.0	101.2
80°	63.0	68.3	161.1	72.1	61.3
82.5°	35.8	47.7	70.6	50.6	32.9
85°	19.3	30.3	31.3	31.0	19.3
87.5°	6.9	11.9	6.9	13.6	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)