

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: P596695

Luminaire Tested: **MSA-SA3C-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P596695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3C-827-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: 14415 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

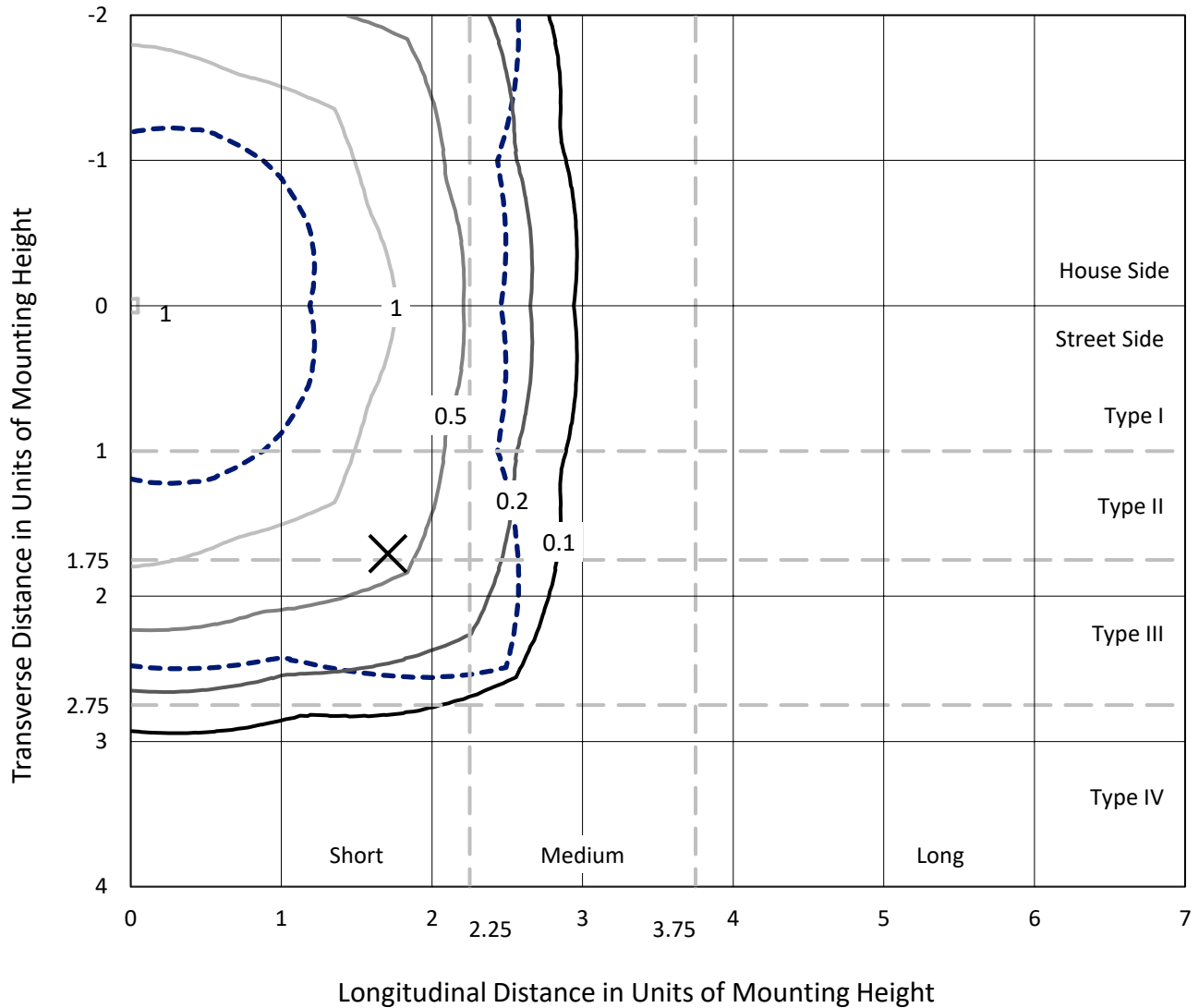
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

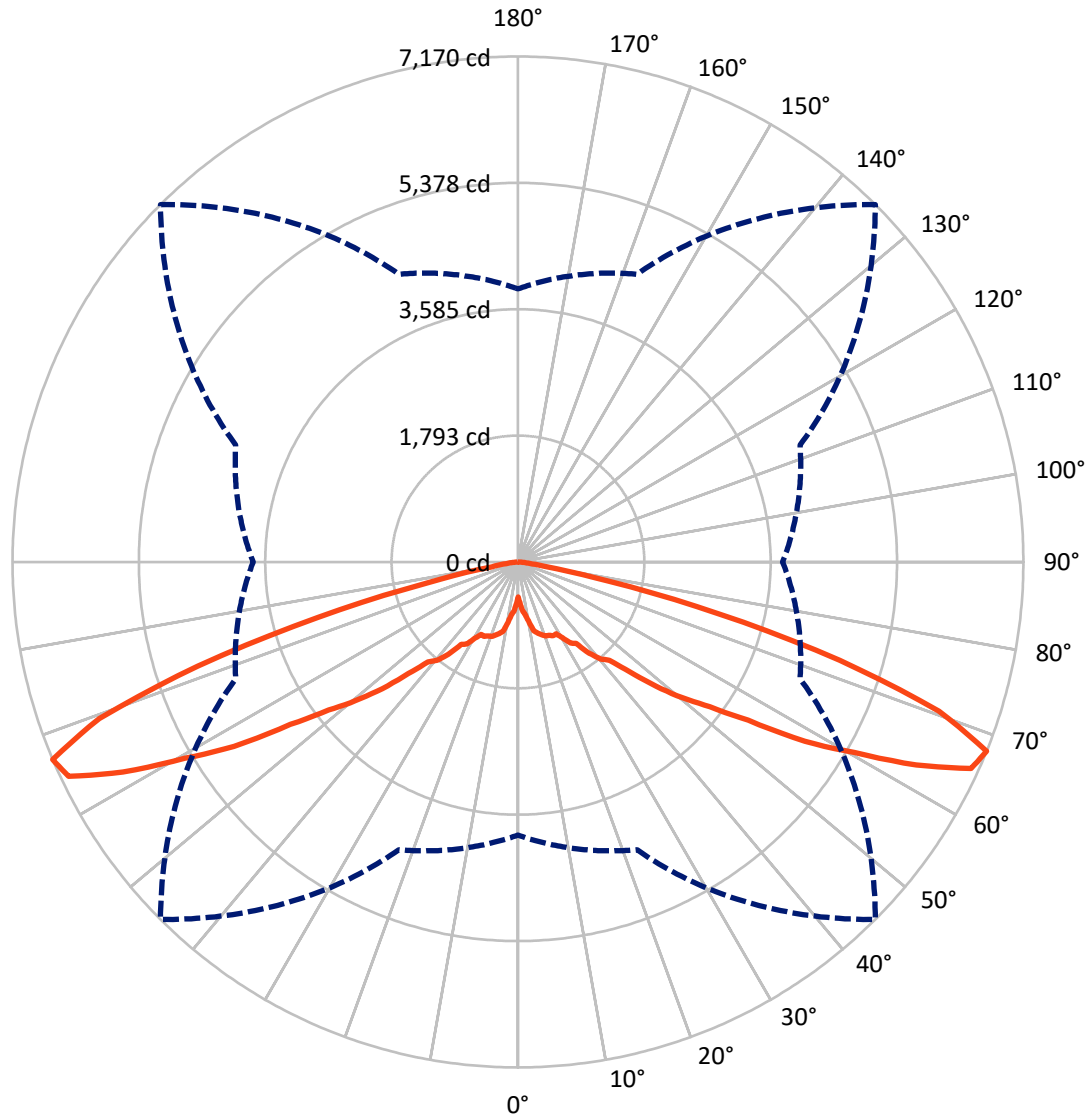
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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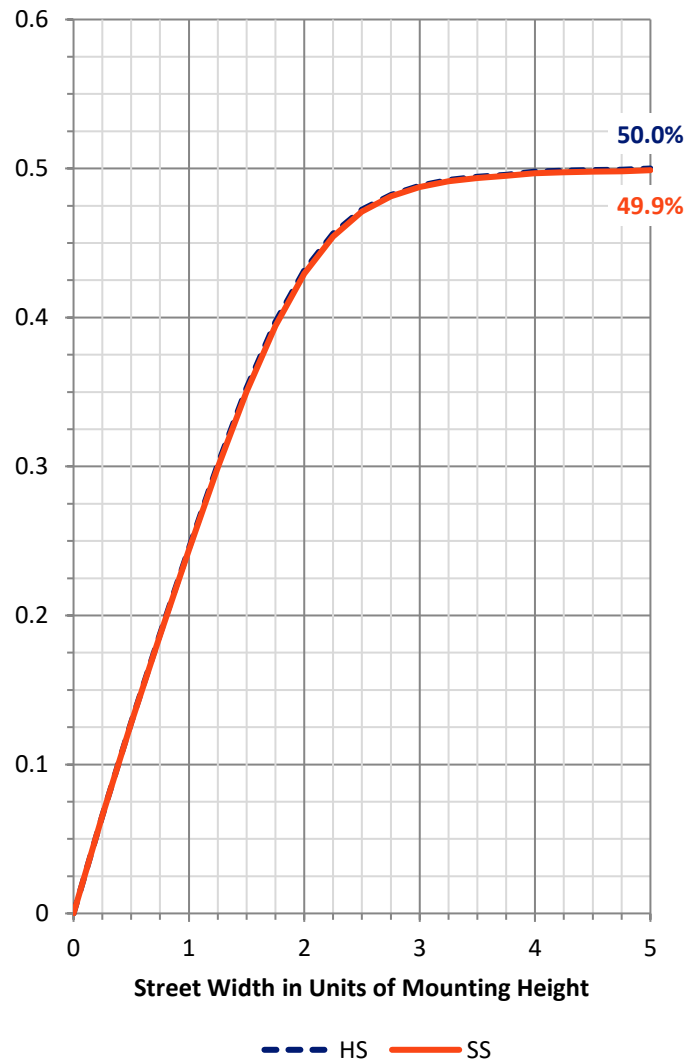
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7207.5	0.0	7207.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7207.5	0.0	7207.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14415.0	0.0	14415.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	0.5
10°-20°	291.3	2.0
20°-30°	555.7	3.9
30°-40°	1016.0	7.0
40°-50°	1970.0	13.7
50°-60°	3762.0	26.1
60°-70°	5082.8	35.3
70°-80°	1578.6	11.0
80°-90°	85.0	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°	14415.0	100.0
0°-180°	14415.0	100.0



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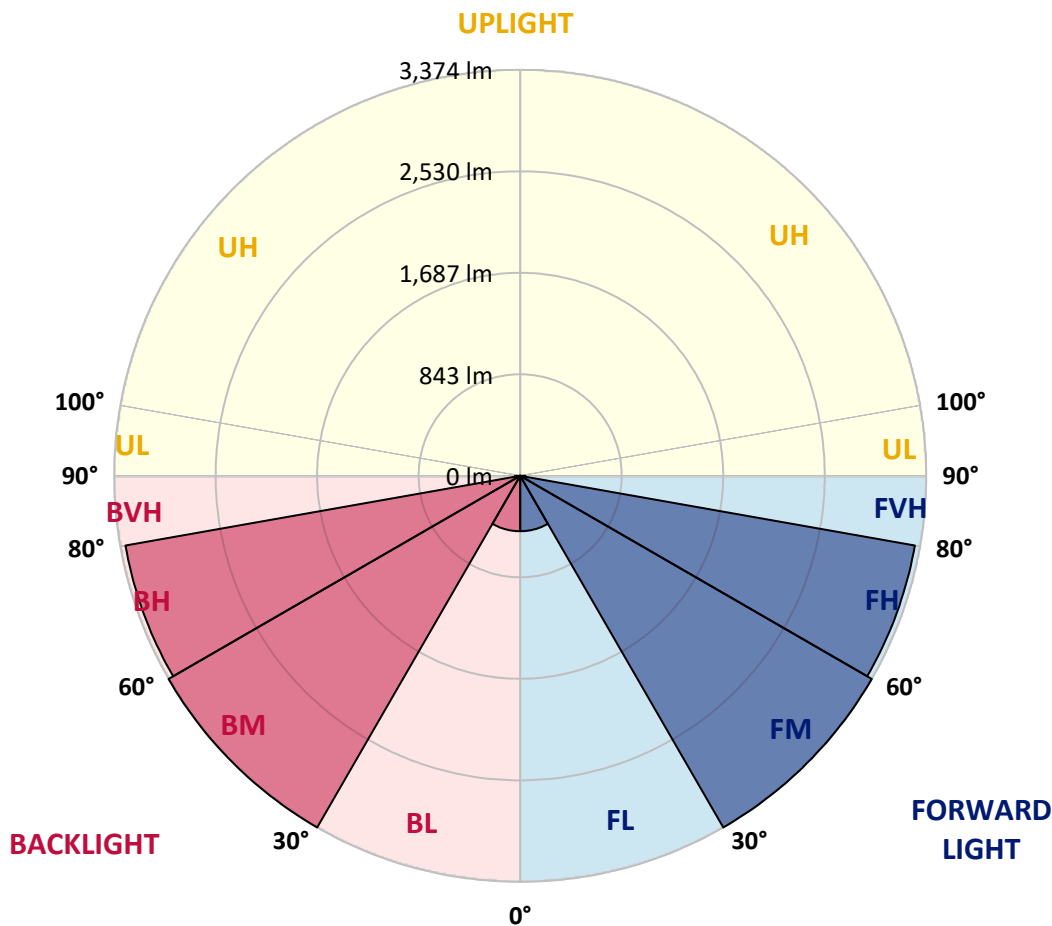
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.3	3.2			
FM (30°-60°)	3374.0	23.4			
FH (60°-80°)	3330.7	23.1			G2/5000
FVH (80°-90°)	42.5	0.3			G1/100
BL (0°-30°)	460.3	3.2	B1/500		
BM (30°-60°)	3374.0	23.4	B3/5000		
BH (60°-80°)	3330.7	23.1	B4/5000		G2/5000
BVH (80°-90°)	42.5	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°	494.0	494.0	494.0	494.0	494.0
2.5°	608.1	569.1	587.0	569.1	608.1
5°	773.0	732.3	696.7	722.3	775.2
7.5°	888.2	827.5	752.4	820.9	883.2
10°	907.7	873.8	870.4	869.9	905.5
12.5°	980.7	957.9	1003.5	960.1	982.9
15°	1037.5	1024.7	1045.3	1040.8	1039.7
17.5°	1125.5	1038.6	1085.4	1033.6	1122.7
20°	1164.5	1041.4	1119.9	1035.3	1163.9
22.5°	1212.4	1107.1	1130.5	1109.9	1207.9
25°	1239.6	1149.4	1157.8	1150.5	1240.2
27.5°	1351.6	1243.0	1153.9	1258.0	1372.2
30°	1436.8	1303.7	1245.2	1305.4	1447.4
32.5°	1559.9	1394.5	1371.6	1416.7	1579.4
35°	1712.5	1547.1	1419.0	1547.6	1744.8
37.5°	2011.5	1685.7	1640.6	1734.7	2033.8
40°	2222.6	1904.6	1808.2	1939.7	2258.8
42.5°	2546.7	2150.2	1905.7	2168.0	2602.4
45°	2848.5	2448.1	2216.4	2468.7	2889.2
47.5°	3167.6	2721.5	2634.7	2747.2	3197.7
50°	3544.6	3091.9	3031.2	3120.8	3557.4
52.5°	3989.6	3587.5	3408.2	3604.2	3994.1
55°	4518.1	4003.5	3963.4	4049.2	4524.8
57.5°	5034.9	4542.6	4799.9	4547.6	4945.2
60°	5403.6	5039.3	5487.6	4911.3	5204.7
62.5°	5426.9	5407.5	6344.2	5190.3	5149.1
65°	4921.3	5258.8	7061.4	5088.9	4674.0
67.5°	3873.8	4417.9	7170.0	4332.1	3755.1
70°	2434.2	3059.0	6338.6	3176.5	2503.2
72.5°	1122.7	1648.4	4773.2	1855.6	1186.7
75°	402.1	631.0	2944.9	677.7	420.5
77.5°	228.3	255.6	1301.5	256.7	236.1
80°	147.0	159.3	375.9	168.2	143.1
82.5°	83.5	111.4	164.8	118.1	76.9
85°	45.1	70.7	73.0	72.4	45.1
87.5°	16.1	27.8	16.1	31.7	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)