

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: P596761

Luminaire Tested: **MSA-SA4B-827-U-5MQ**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P596761  
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-SA4B-827-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: 15384 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

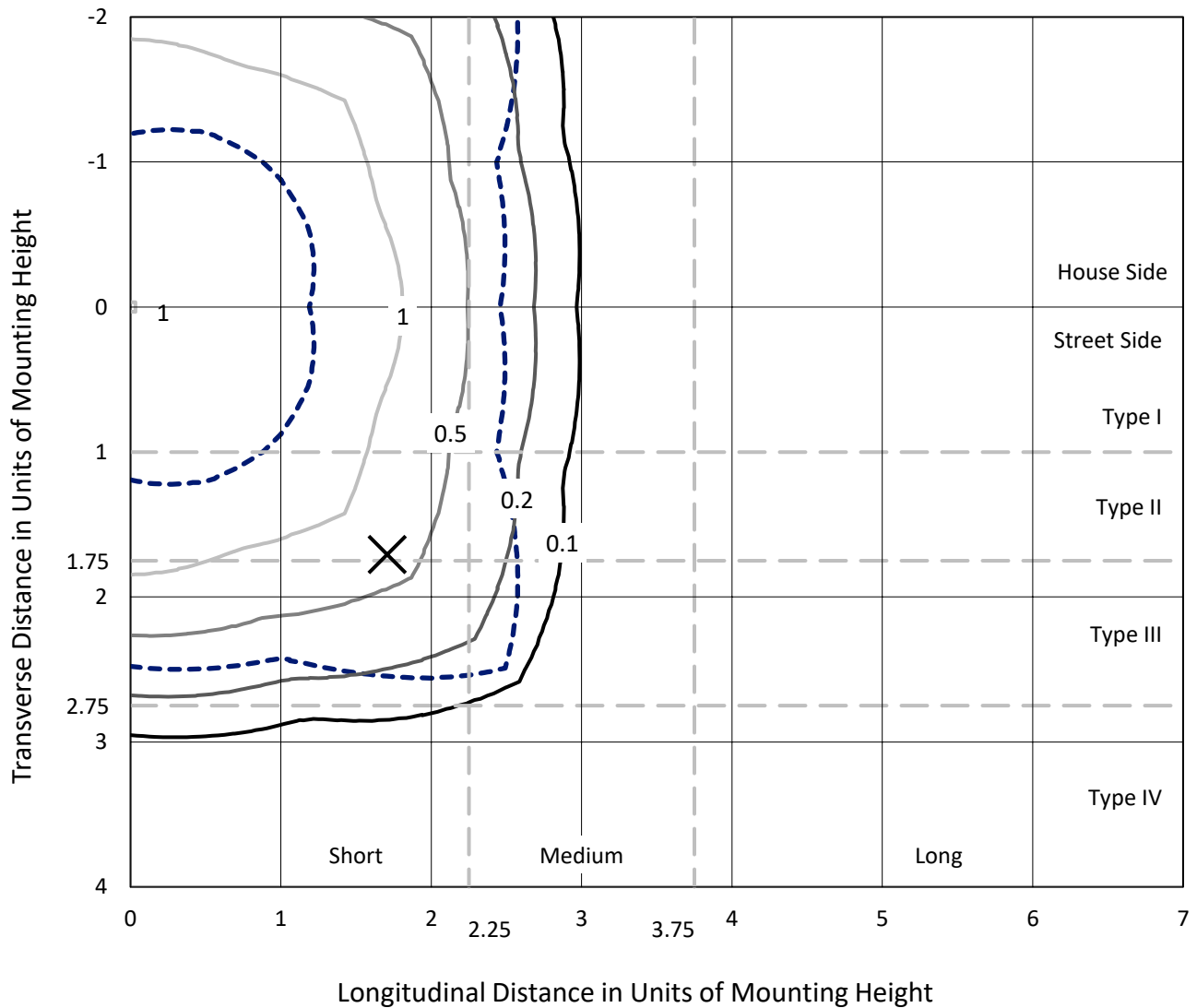
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

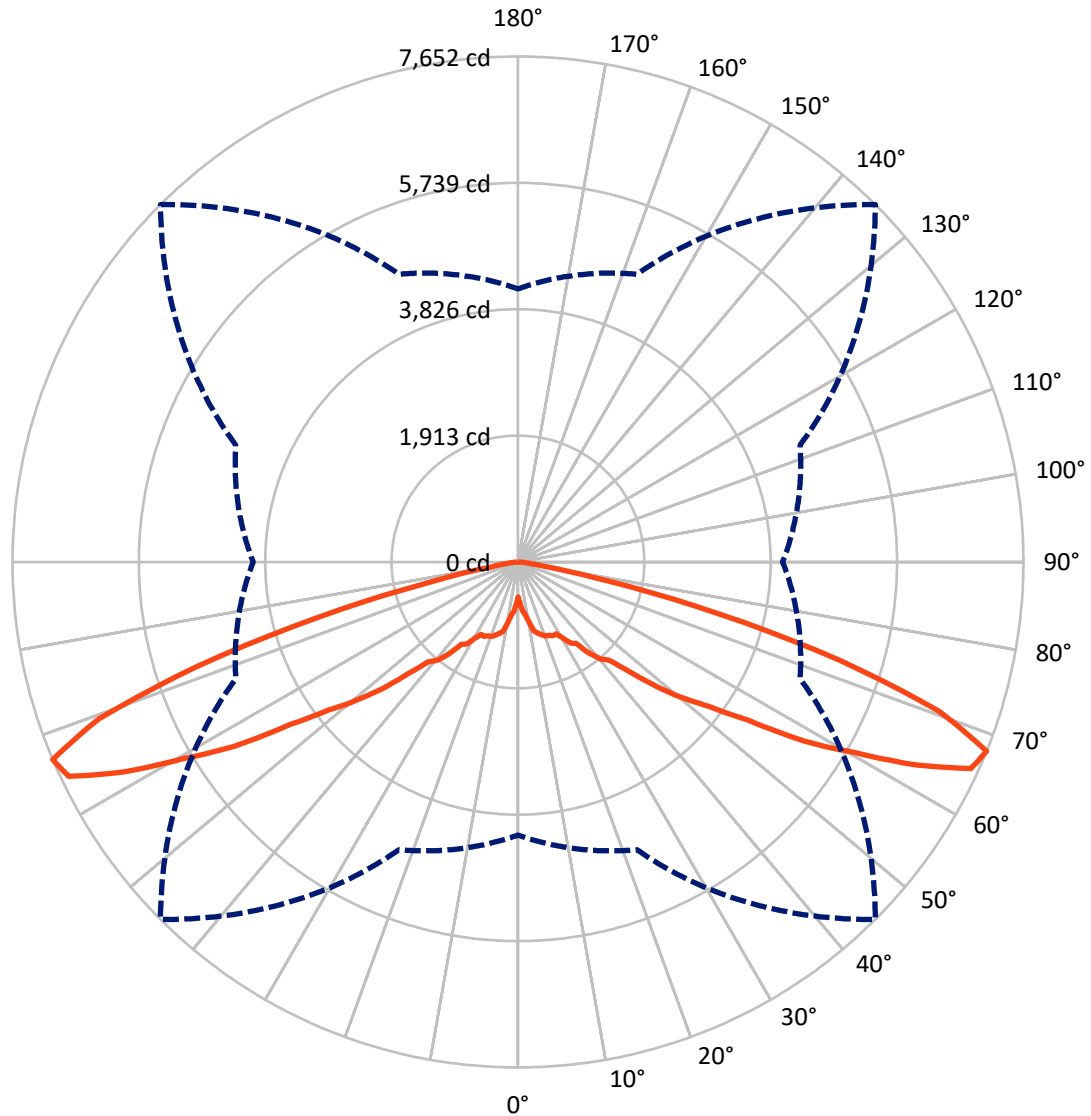
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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
<b>House Side</b>	Lumens	7692.0	0.0	7692.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7692.0	0.0	7692.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15384.0	0.0	15384.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.6	0.5
10°-20°	310.8	2.0
20°-30°	593.1	3.9
30°-40°	1084.3	7.0
40°-50°	2102.4	13.7
50°-60°	4014.9	26.1
60°-70°	5424.5	35.3
70°-80°	1684.7	11.0
80°-90°	90.8	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°	15384.0	100.0
0°-180°	15384.0	100.0

**Coefficient of Utilization**



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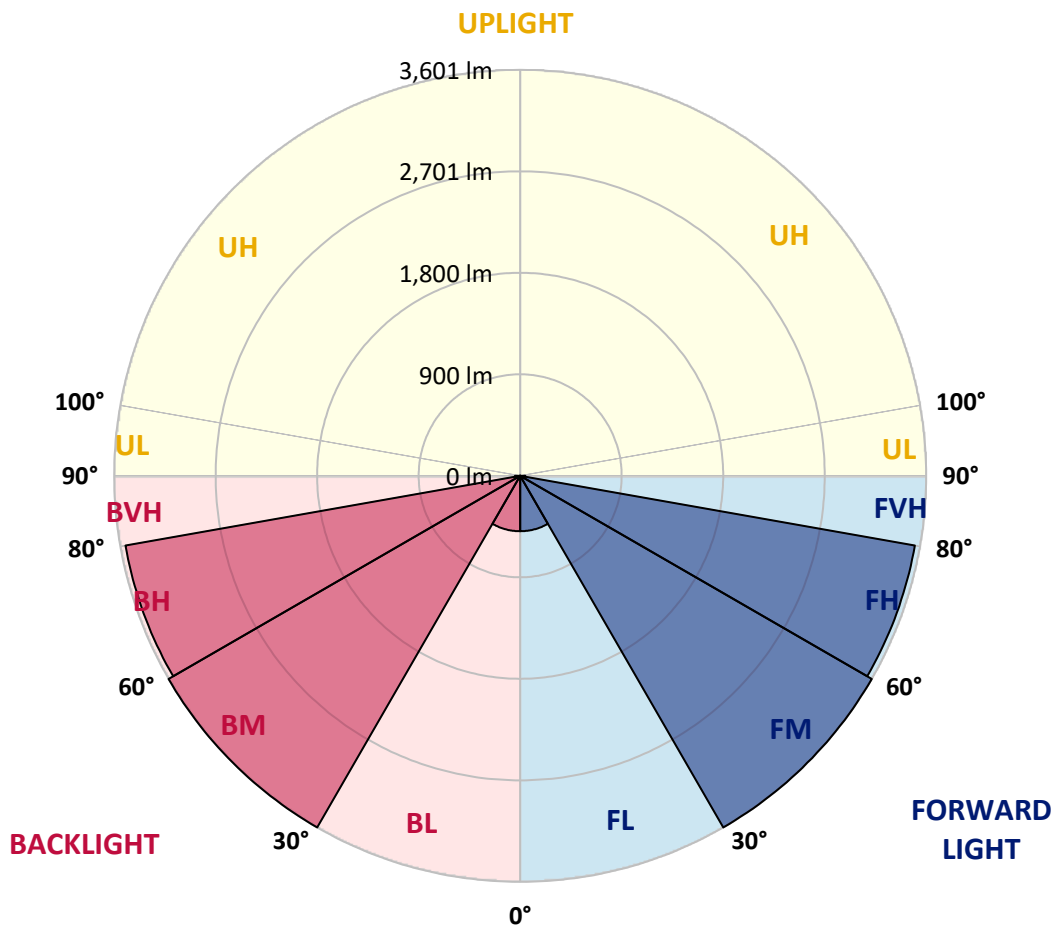
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	491.3	3.2			
FM (30°-60°)	3600.8	23.4			
FH (60°-80°)	3554.6	23.1			G2/5000
FVH (80°-90°)	45.4	0.3			G1/100
BL (0°-30°)	491.3	3.2	B1/500		
BM (30°-60°)	3600.8	23.4	B3/5000		
BH (60°-80°)	3554.6	23.1	B4/5000		G2/5000
BVH (80°-90°)	45.4	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°	527.2	527.2	527.2	527.2	527.2
2.5°	649.0	607.4	626.4	607.4	649.0
5°	824.9	781.5	743.5	770.8	827.3
7.5°	948.0	883.2	802.9	876.0	942.6
10°	968.8	932.5	928.9	928.3	966.4
12.5°	1046.6	1022.2	1071.0	1024.6	1049.0
15°	1107.2	1093.6	1115.6	1110.8	1109.6
17.5°	1201.1	1108.4	1158.4	1103.1	1198.2
20°	1242.7	1111.4	1195.2	1104.9	1242.2
22.5°	1293.9	1181.5	1206.5	1184.5	1289.1
25°	1323.0	1226.7	1235.6	1227.9	1323.6
27.5°	1442.4	1326.5	1231.5	1342.6	1464.4
30°	1533.4	1391.3	1328.9	1393.1	1544.7
32.5°	1664.7	1488.2	1463.8	1512.0	1685.5
35°	1827.6	1651.1	1514.4	1651.6	1862.0
37.5°	2146.7	1799.0	1750.9	1851.3	2170.5
40°	2372.0	2032.6	1929.8	2070.1	2410.6
42.5°	2717.9	2294.7	2033.8	2313.7	2777.3
45°	3040.0	2612.7	2365.4	2634.7	3083.4
47.5°	3380.6	2904.5	2811.8	2931.8	3412.6
50°	3782.9	3299.7	3234.9	3330.6	3796.6
52.5°	4257.8	3828.7	3637.3	3846.5	4262.5
55°	4821.8	4272.6	4229.9	4321.4	4828.9
57.5°	5373.3	4848.0	5122.5	4853.3	5277.7
60°	5766.8	5378.1	5856.5	5241.4	5554.6
62.5°	5791.8	5771.0	6770.6	5539.2	5495.2
65°	5252.1	5612.3	7536.1	5431.0	4988.2
67.5°	4134.2	4714.8	7652.0	4623.3	4007.6
70°	2597.8	3264.7	6764.7	3390.1	2671.5
72.5°	1198.2	1759.2	5094.0	1980.3	1266.5
75°	429.1	673.4	3142.8	723.3	448.7
77.5°	243.7	272.8	1389.0	274.0	252.0
80°	156.9	170.0	401.2	179.5	152.7
82.5°	89.1	118.9	175.9	126.0	82.0
85°	48.1	75.5	77.9	77.3	48.1
87.5°	17.2	29.7	17.2	33.9	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)