

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: P367831

Luminaire Tested: **MSA-SA3B-740-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367831  
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-SA3B-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: 15833 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

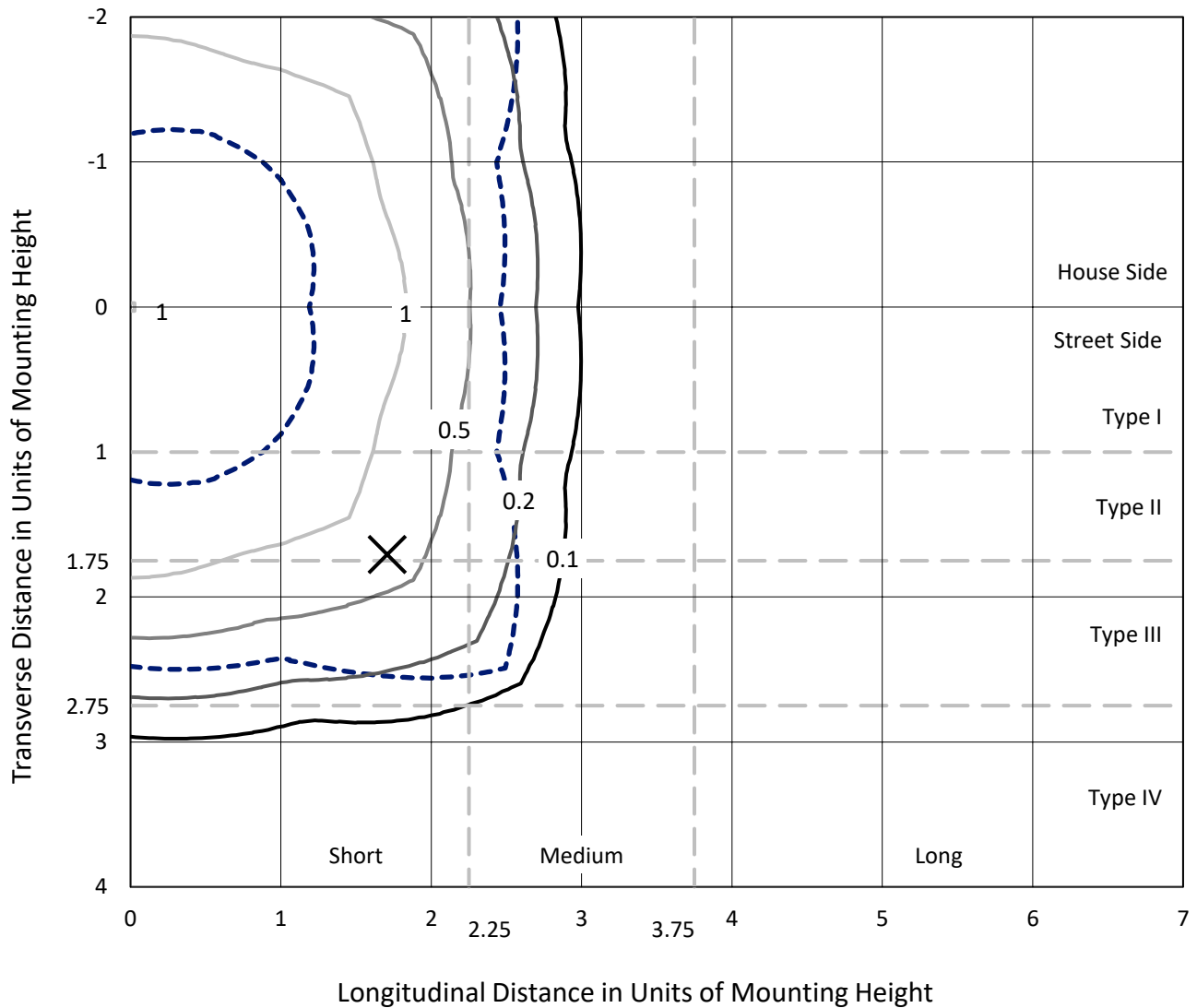
Input Watts (W): 126  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P367831  
 CATALOG NUMBER: MSA-SA3B-740-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

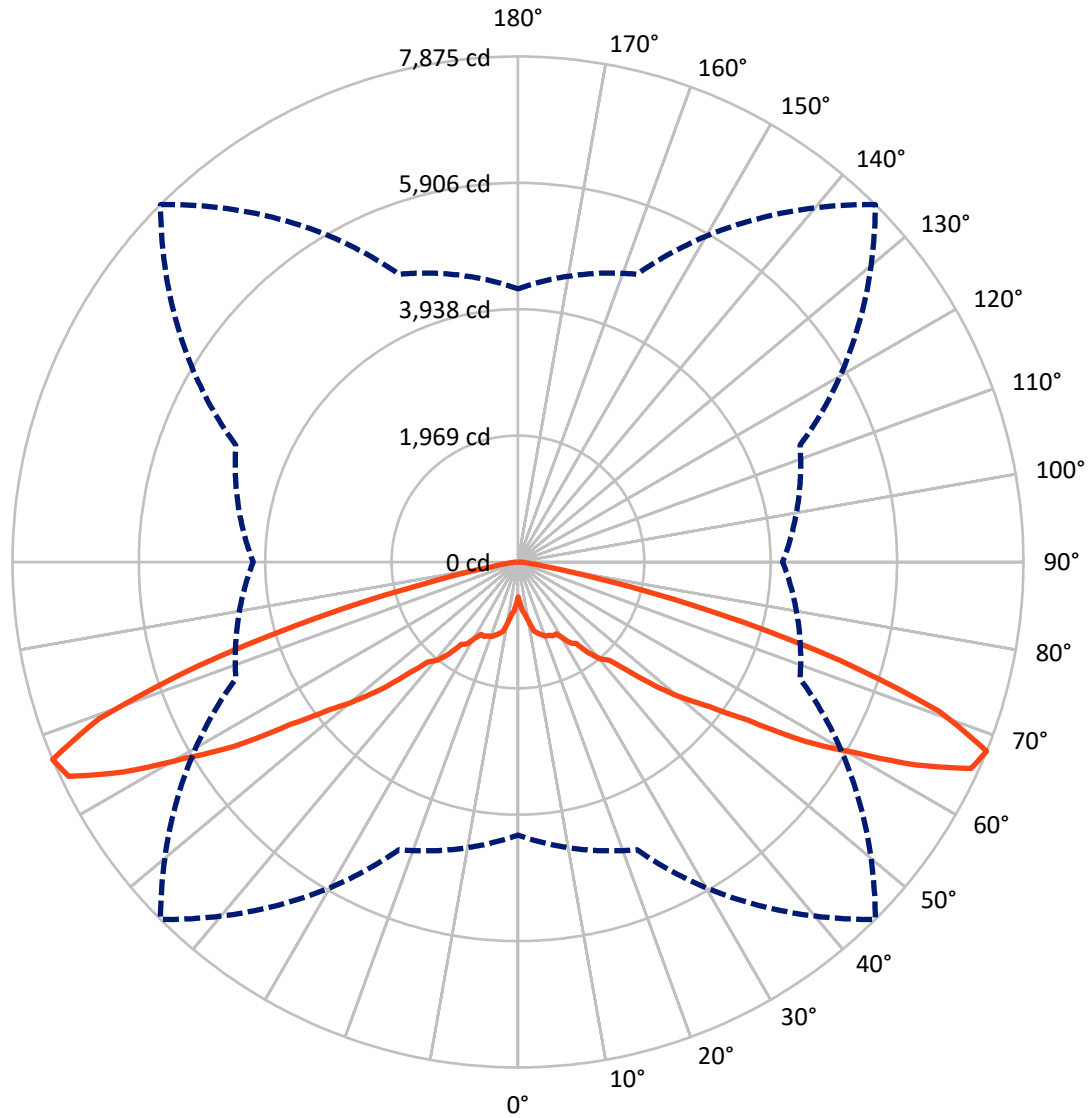
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type V - Short - N/A

REPORT NUMBER: P367831  
CATALOG NUMBER: MSA-SA3B-740-U-5MQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P367831  
 CATALOG NUMBER: MSA-SA3B-740-U-5MQ

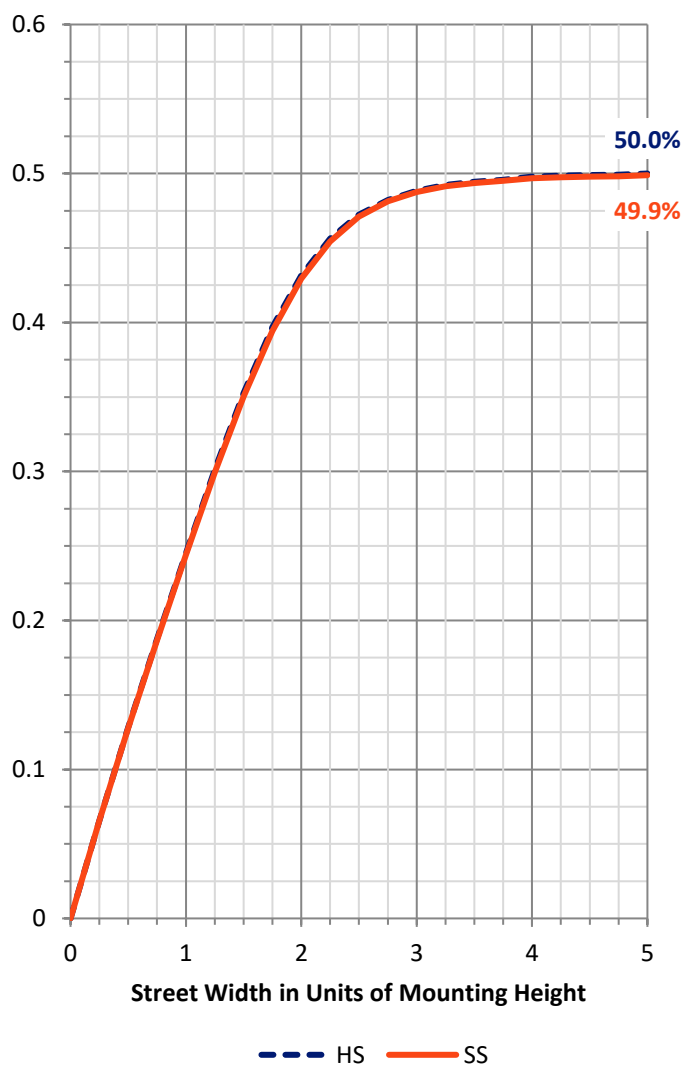
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7916.5	0.0	7916.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7916.5	0.0	7916.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15833.0	0.0	15833.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.9	0.5
10°-20°	319.9	2.0
20°-30°	610.4	3.9
30°-40°	1115.9	7.0
40°-50°	2163.8	13.7
50°-60°	4132.0	26.1
60°-70°	5582.8	35.3
70°-80°	1733.8	11.0
80°-90°	93.4	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°	15833.0	100.0
0°-180°	15833.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P367831

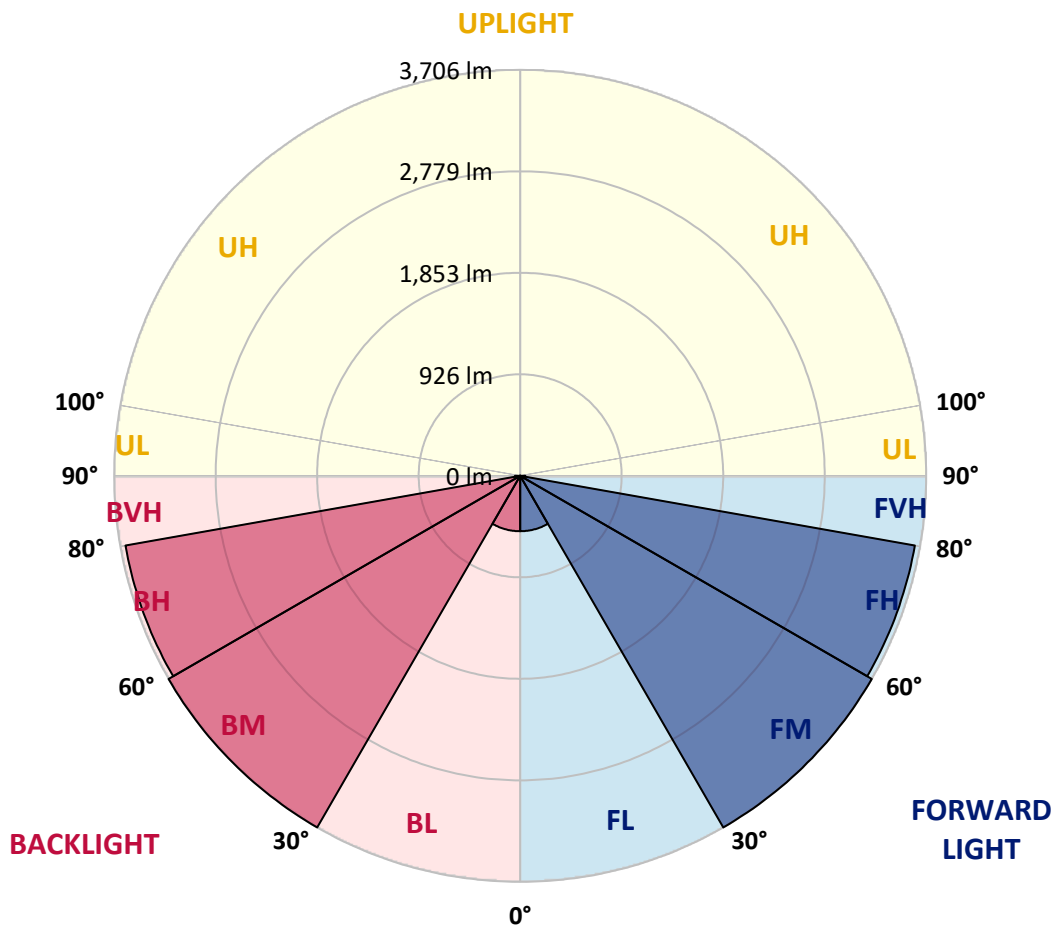
CATALOG NUMBER: MSA-SA3B-740-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.6	3.2			
FM (30°-60°)	3705.9	23.4			
FH (60°-80°)	3658.3	23.1			G2/5000
FVH (80°-90°)	46.7	0.3			G1/100
BL (0°-30°)	505.6	3.2	B2/1000		
BM (30°-60°)	3705.9	23.4	B3/5000		
BH (60°-80°)	3658.3	23.1	B4/5000		G2/5000
BVH (80°-90°)	46.7	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





REPORT NUMBER: P367831  
 CATALOG NUMBER: MSA-SA3B-740-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	542.6	542.6	542.6	542.6	542.6
2.5°	668.0	625.1	644.7	625.1	668.0
5°	849.0	804.4	765.2	793.3	851.5
7.5°	975.6	909.0	826.4	901.6	970.1
10°	997.0	959.7	956.1	955.4	994.6
12.5°	1077.2	1052.1	1102.2	1054.5	1079.6
15°	1139.6	1125.5	1148.1	1143.2	1142.0
17.5°	1236.2	1140.8	1192.2	1135.3	1233.1
20°	1279.0	1143.8	1230.1	1137.1	1278.4
22.5°	1331.6	1216.0	1241.7	1219.1	1326.7
25°	1361.6	1262.5	1271.7	1263.7	1362.2
27.5°	1484.5	1365.3	1267.4	1381.8	1507.2
30°	1578.1	1431.9	1367.7	1433.8	1589.7
32.5°	1713.3	1531.6	1506.6	1556.1	1734.7
35°	1880.9	1699.2	1558.6	1699.9	1916.4
37.5°	2209.4	1851.5	1802.0	1905.4	2233.8
40°	2441.2	2091.9	1986.1	2130.5	2481.0
42.5°	2797.2	2361.7	2093.2	2381.3	2858.4
45°	3128.7	2688.9	2434.5	2711.6	3173.4
47.5°	3479.2	2989.3	2893.8	3017.4	3512.3
50°	3893.3	3396.0	3329.4	3427.8	3907.4
52.5°	4382.1	3940.4	3743.5	3958.8	4387.0
55°	4962.5	4397.3	4353.3	4447.5	4969.9
57.5°	5530.2	4989.5	5272.0	4995.0	5431.7
60°	5935.1	5535.1	6027.5	5394.4	5716.7
62.5°	5960.8	5939.4	6968.2	5700.8	5655.6
65°	5405.4	5776.1	7756.1	5589.5	5133.8
67.5°	4254.8	4852.4	7875.3	4758.2	4124.5
70°	2673.6	3359.9	6962.1	3489.0	2749.5
72.5°	1233.1	1810.6	5242.7	2038.1	1303.5
75°	441.6	693.0	3234.5	744.4	461.8
77.5°	250.8	280.8	1429.5	282.0	259.4
80°	161.5	174.9	412.9	184.7	157.2
82.5°	91.8	122.3	181.1	129.7	84.4
85°	49.5	77.7	80.1	79.5	49.5
87.5°	17.7	30.6	17.7	34.9	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)