

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: P367897

Luminaire Tested: **MSA-SA3B-830-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367897  
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-830-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: 12582 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

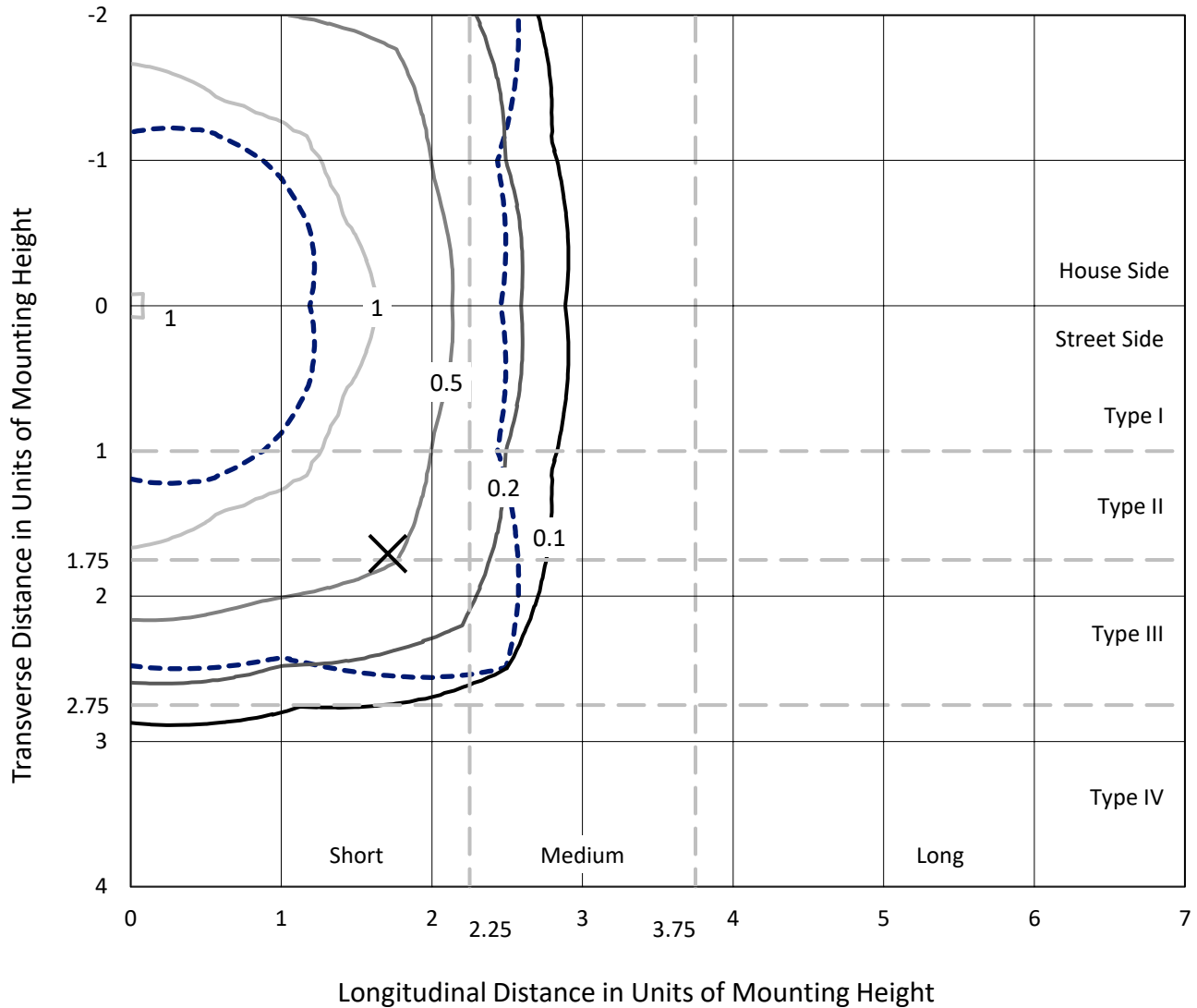
Input Watts (W): 126  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

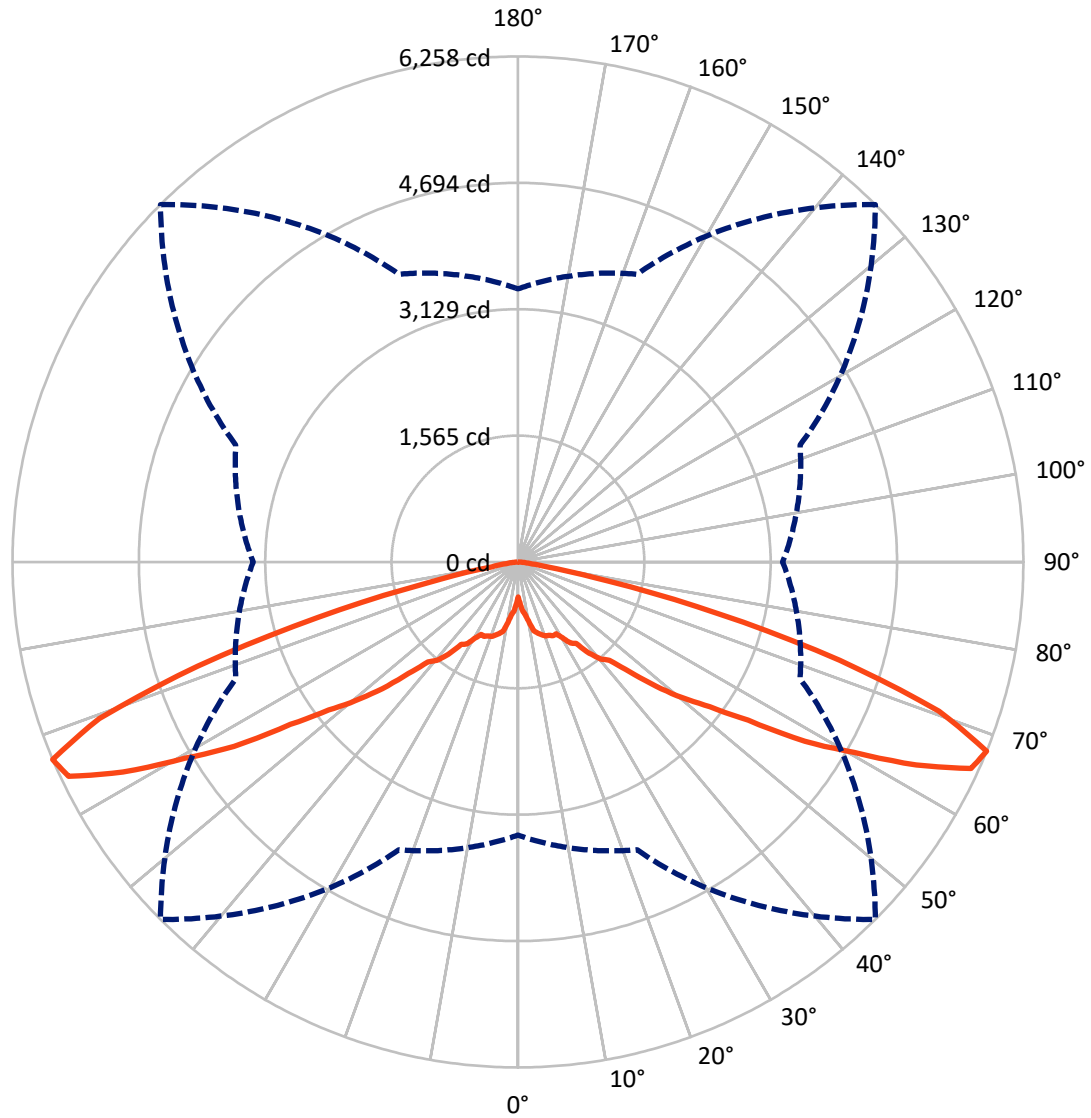
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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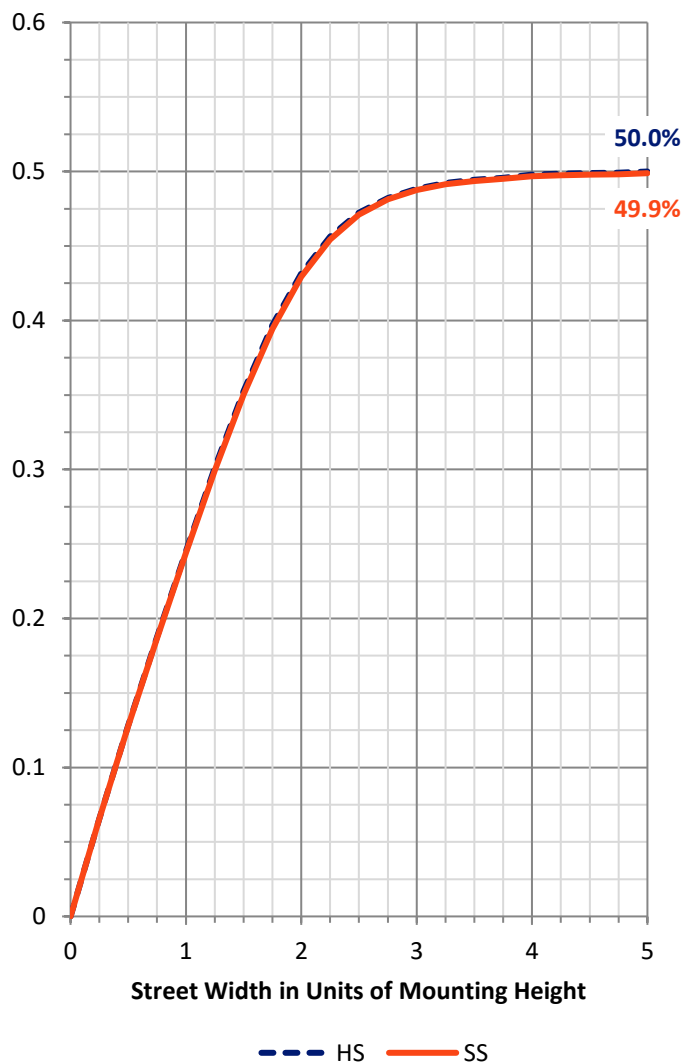
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6291.0	0.0	6291.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6291.0	0.0	6291.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12582.0	0.0	12582.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.3	0.5
10°-20°	254.2	2.0
20°-30°	485.0	3.9
30°-40°	886.8	7.0
40°-50°	1719.5	13.7
50°-60°	3283.6	26.1
60°-70°	4436.5	35.3
70°-80°	1377.8	11.0
80°-90°	74.2	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°	12582.0	100.0
0°-180°	12582.0	100.0

**Coefficient of Utilization**



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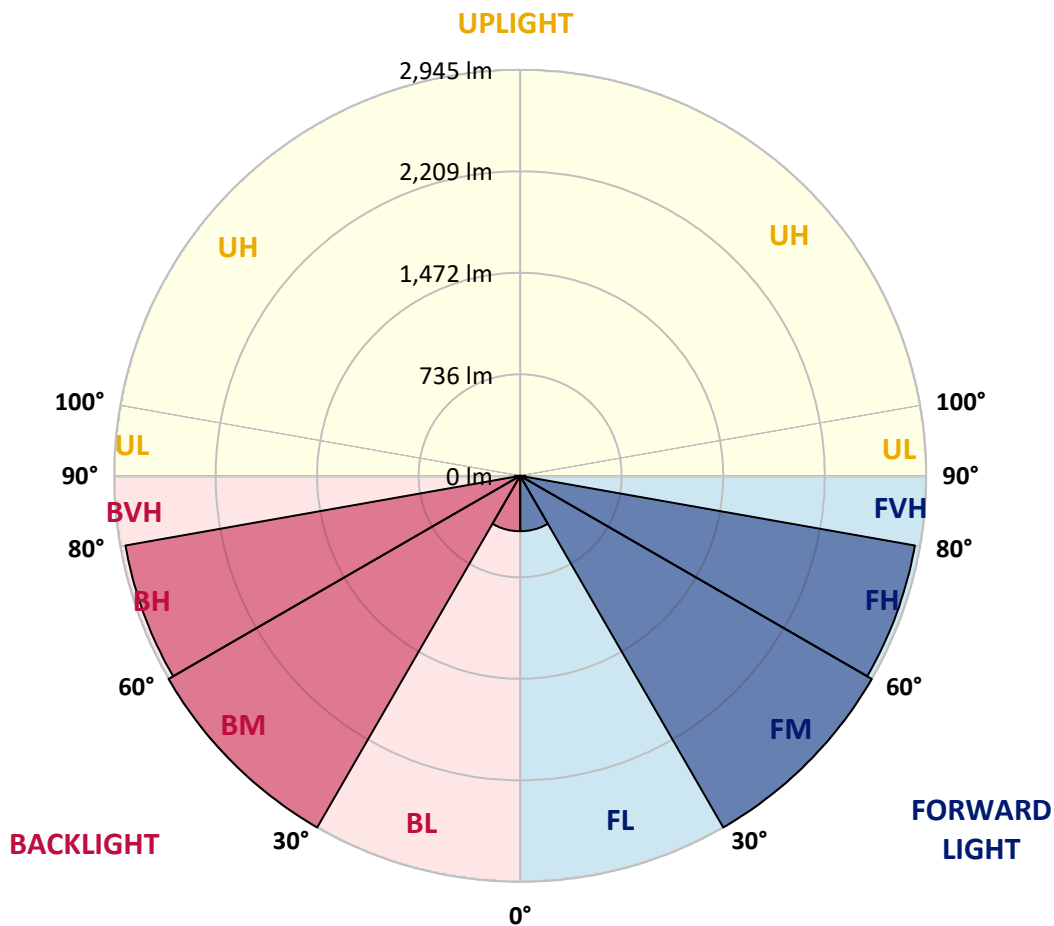
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.8	3.2			
FM (30°-60°)	2944.9	23.4			
FH (60°-80°)	2907.2	23.1			G2/5000
FVH (80°-90°)	37.1	0.3			G1/100
BL (0°-30°)	401.8	3.2	B1/500		
BM (30°-60°)	2944.9	23.4	B3/5000		
BH (60°-80°)	2907.2	23.1	B4/5000		G2/5000
BVH (80°-90°)	37.1	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°	431.2	431.2	431.2	431.2	431.2
2.5°	530.8	496.8	512.3	496.8	530.8
5°	674.7	639.2	608.1	630.4	676.6
7.5°	775.3	722.3	656.7	716.5	770.9
10°	792.3	762.7	759.7	759.3	790.4
12.5°	856.0	836.1	875.9	838.0	857.9
15°	905.6	894.4	912.4	908.5	907.5
17.5°	982.4	906.5	947.4	902.2	979.9
20°	1016.4	909.0	977.5	903.6	1015.9
22.5°	1058.2	966.3	986.7	968.8	1054.3
25°	1082.0	1003.3	1010.6	1004.2	1082.5
27.5°	1179.7	1084.9	1007.2	1098.1	1197.7
30°	1254.1	1137.9	1086.9	1139.4	1263.3
32.5°	1361.5	1217.1	1197.2	1236.6	1378.5
35°	1494.7	1350.3	1238.5	1350.8	1522.9
37.5°	1755.7	1471.4	1432.0	1514.1	1775.2
40°	1940.0	1662.4	1578.3	1693.0	1971.5
42.5°	2222.8	1876.8	1663.4	1892.3	2271.5
45°	2486.3	2136.8	1934.6	2154.8	2521.8
47.5°	2764.8	2375.5	2299.7	2397.8	2791.1
50°	3093.9	2698.7	2645.7	2724.0	3105.1
52.5°	3482.3	3131.3	2974.8	3145.9	3486.2
55°	3943.6	3494.4	3459.4	3534.3	3949.4
57.5°	4394.7	3965.0	4189.5	3969.3	4316.4
60°	4716.4	4398.5	4789.8	4286.8	4542.9
62.5°	4736.9	4719.8	5537.4	4530.3	4494.3
65°	4295.5	4590.1	6163.5	4441.8	4079.7
67.5°	3381.2	3856.1	6258.3	3781.2	3277.6
70°	2124.7	2670.0	5532.6	2772.6	2184.9
72.5°	979.9	1438.8	4166.2	1619.6	1035.8
75°	351.0	550.7	2570.4	591.6	367.0
77.5°	199.3	223.1	1136.0	224.1	206.1
80°	128.3	139.0	328.1	146.8	124.9
82.5°	72.9	97.2	143.9	103.0	67.1
85°	39.4	61.7	63.7	63.2	39.4
87.5°	14.1	24.3	14.1	27.7	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)