

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: P367347

Luminaire Tested: **MSA-SA2B-760-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367347  
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-SA2B-760-U-5MQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10729 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

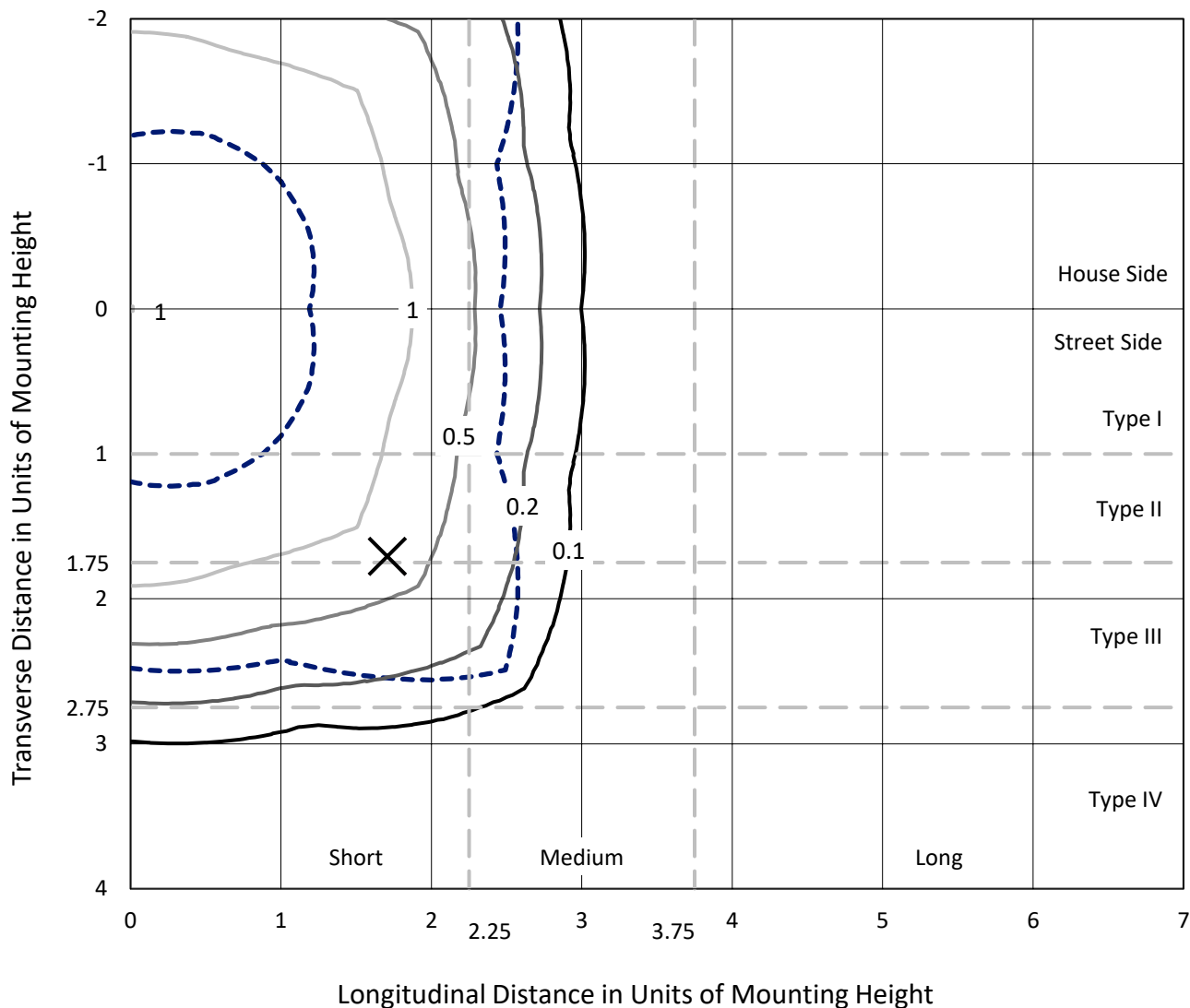
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

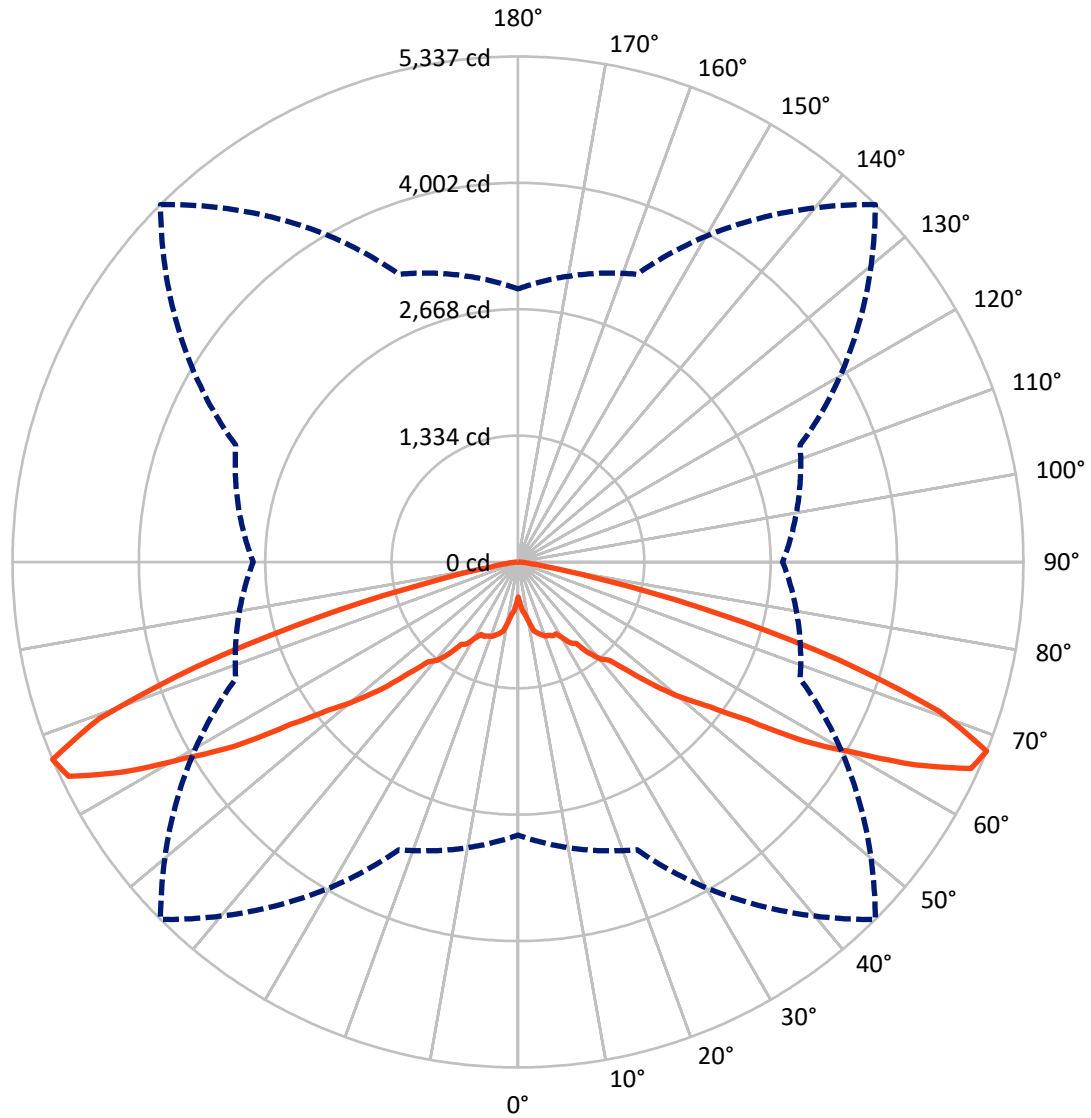
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.9 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	5364.5	0.0	5364.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5364.5	0.0	5364.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10729.0	0.0	10729.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.8	0.5
10°-20°	216.8	2.0
20°-30°	413.6	3.9
30°-40°	756.2	7.0
40°-50°	1466.2	13.7
50°-60°	2800.0	26.1
60°-70°	3783.1	35.3
70°-80°	1174.9	11.0
80°-90°	63.3	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°	10729.0	100.0
0°-180°	10729.0	100.0

**Coefficient of Utilization**



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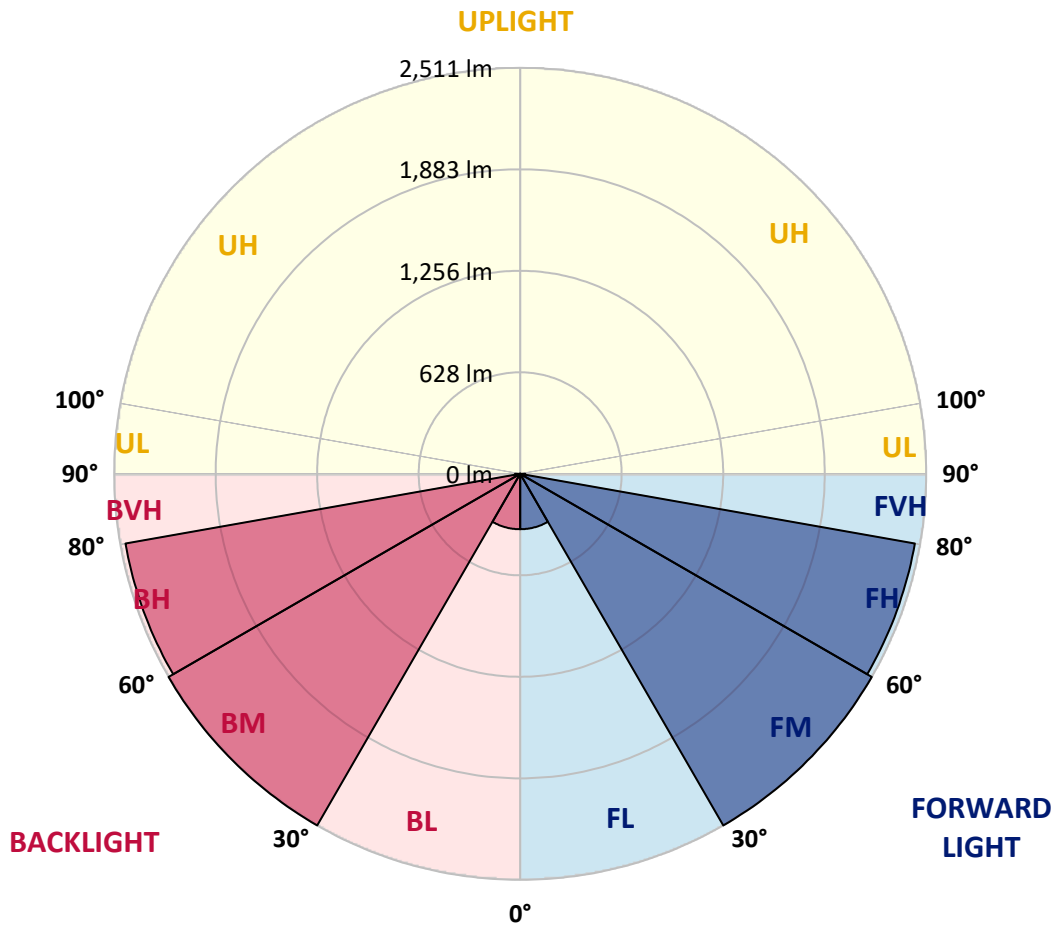
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.6	3.2			
FM (30°-60°)	2511.2	23.4			
FH (60°-80°)	2479.0	23.1			G2/5000
FVH (80°-90°)	31.6	0.3			G1/100
BL (0°-30°)	342.6	3.2	B1/500		
BM (30°-60°)	2511.2	23.4	B3/5000		
BH (60°-80°)	2479.0	23.1	B3/2500		G2/5000
BVH (80°-90°)	31.6	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	367.7	367.7	367.7	367.7	367.7
2.5°	452.6	423.6	436.9	423.6	452.6
5°	575.3	545.1	518.5	537.6	577.0
7.5°	661.1	615.9	560.0	611.0	657.4
10°	675.6	650.3	647.9	647.4	674.0
12.5°	729.9	712.9	746.9	714.6	731.6
15°	772.2	762.7	778.0	774.7	773.9
17.5°	837.7	773.0	807.8	769.3	835.6
20°	866.7	775.1	833.5	770.5	866.3
22.5°	902.4	824.0	841.4	826.1	899.0
25°	922.7	855.5	861.7	856.3	923.1
27.5°	1006.0	925.2	858.8	936.3	1021.3
30°	1069.4	970.3	926.8	971.6	1077.3
32.5°	1161.0	1037.9	1020.9	1054.5	1175.5
35°	1274.6	1151.5	1056.1	1151.9	1298.6
37.5°	1497.2	1254.7	1221.1	1291.1	1513.7
40°	1654.2	1417.6	1345.9	1443.7	1681.2
42.5°	1895.5	1600.4	1418.4	1613.6	1936.9
45°	2120.1	1822.1	1649.7	1837.5	2150.4
47.5°	2357.6	2025.6	1961.0	2044.7	2380.0
50°	2638.3	2301.3	2256.1	2322.8	2647.8
52.5°	2969.4	2670.2	2536.7	2682.6	2972.8
55°	3362.8	2979.8	2950.0	3013.8	3367.8
57.5°	3747.4	3381.0	3572.5	3384.8	3680.7
60°	4021.8	3750.8	4084.4	3655.4	3873.9
62.5°	4039.2	4024.7	4721.9	3863.1	3832.4
65°	3662.9	3914.1	5255.8	3787.6	3478.8
67.5°	2883.2	3288.2	5336.6	3224.4	2794.9
70°	1811.8	2276.8	4717.8	2364.3	1863.2
72.5°	835.6	1226.9	3552.6	1381.1	883.3
75°	299.3	469.6	2191.8	504.4	312.9
77.5°	169.9	190.3	968.7	191.1	175.7
80°	109.4	118.5	279.8	125.2	106.5
82.5°	62.2	82.9	122.7	87.9	57.2
85°	33.6	52.6	54.3	53.9	33.6
87.5°	12.0	20.7	12.0	23.6	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)