

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: P368073

Luminaire Tested: **MSA-SA3D-730-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368073  
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-SA3D-730-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: 19525 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

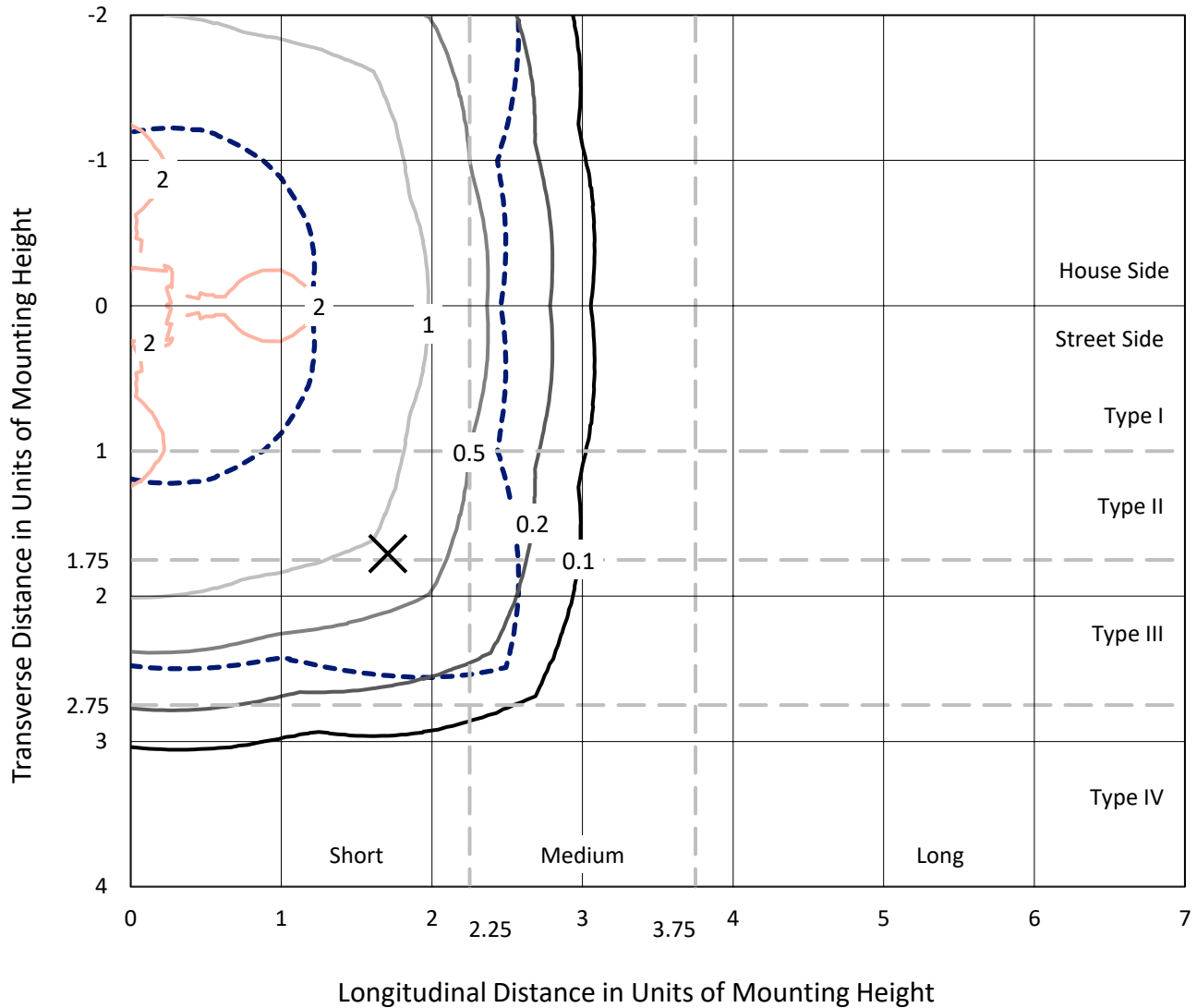
Input Watts (W): 192  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

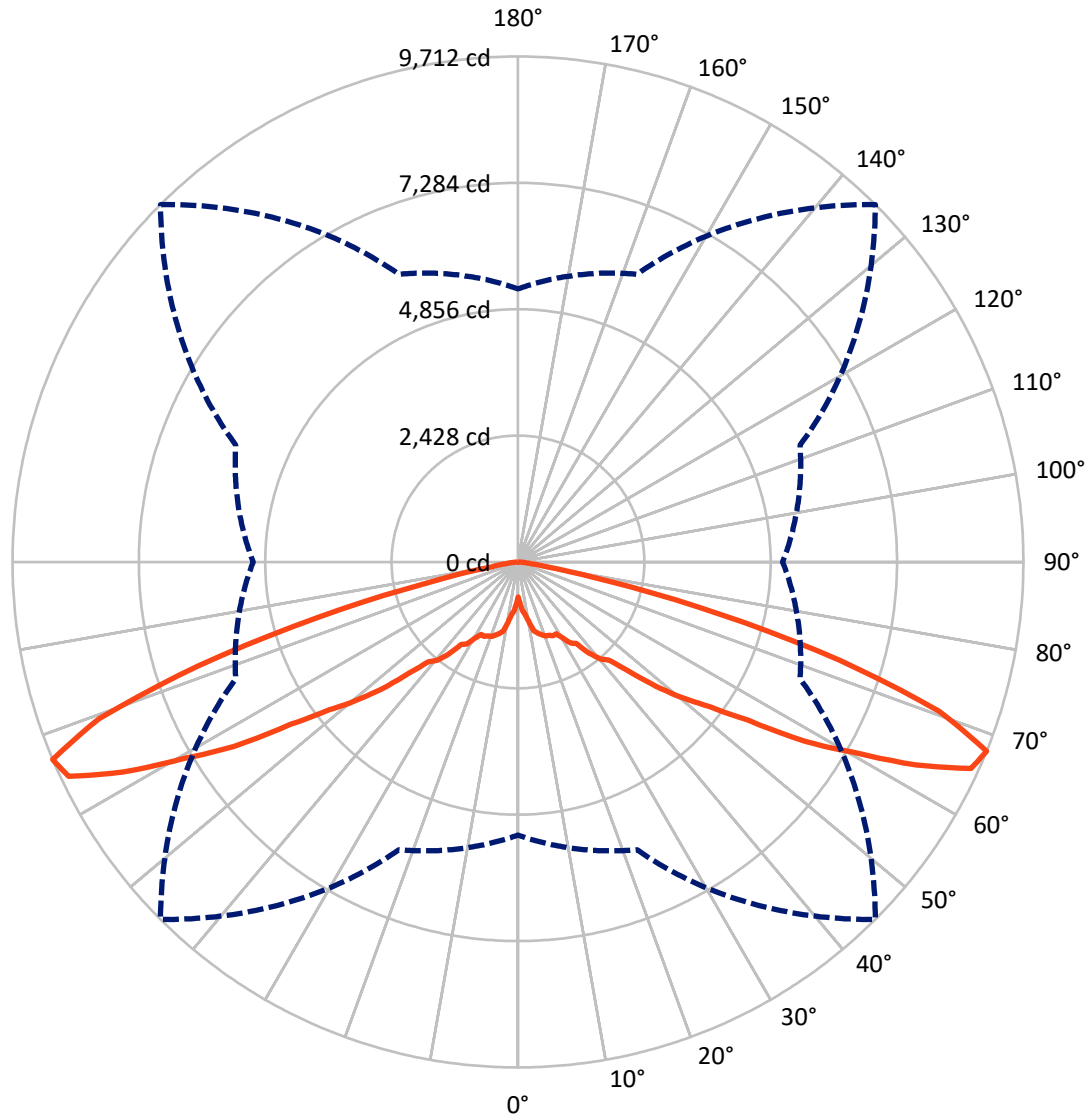
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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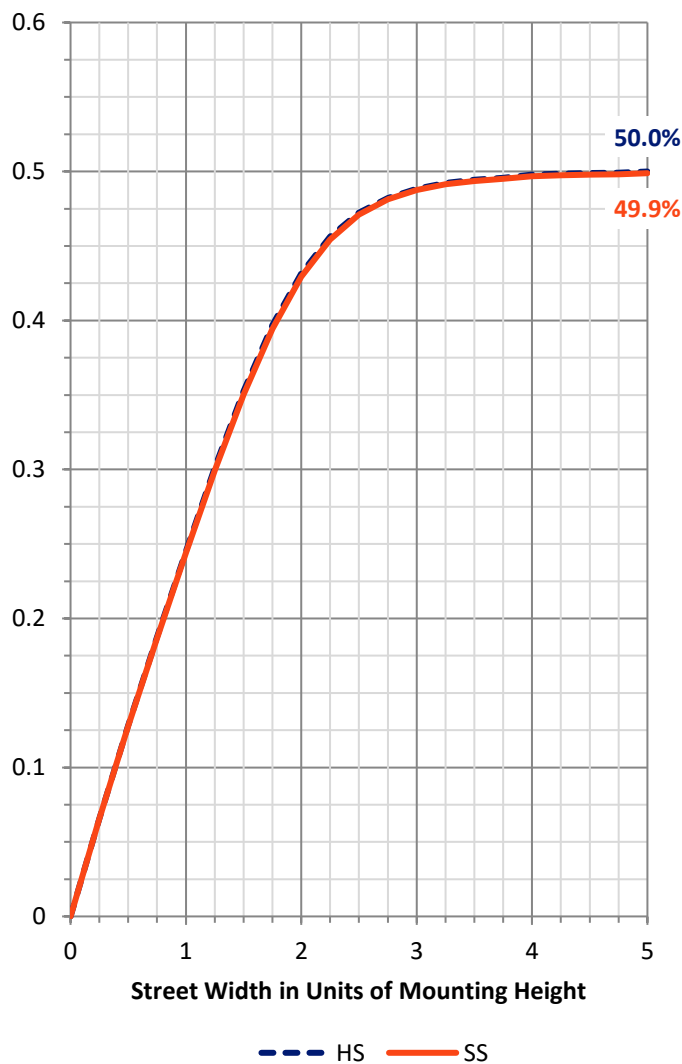
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9762.5	0.0	9762.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9762.5	0.0	9762.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19525.0	0.0	19525.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.8	0.5
10°-20°	394.5	2.0
20°-30°	752.7	3.9
30°-40°	1376.2	7.0
40°-50°	2668.3	13.7
50°-60°	5095.6	26.1
60°-70°	6884.6	35.3
70°-80°	2138.1	11.0
80°-90°	115.2	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°	19525.0	100.0
0°-180°	19525.0	100.0

**Coefficient of Utilization**



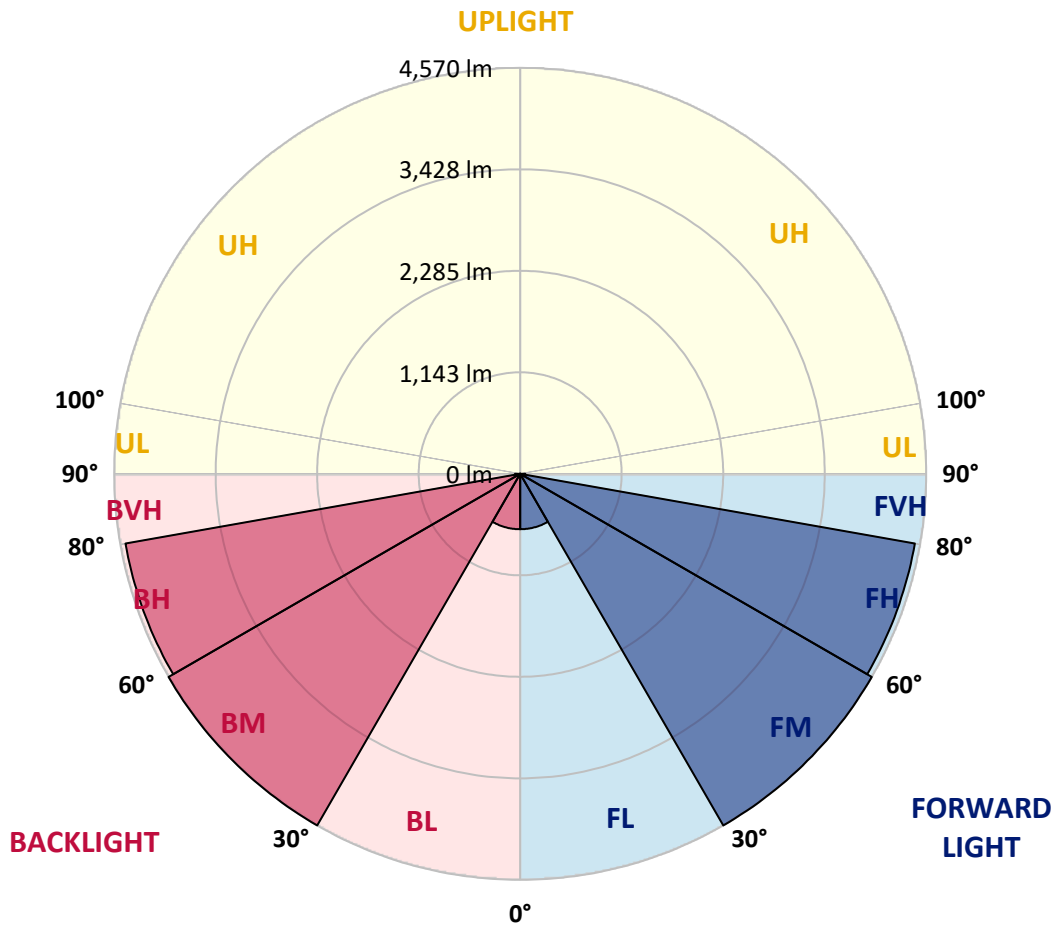
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.5	3.2			
FM (30°-60°)	4570.0	23.4			
FH (60°-80°)	4511.4	23.1			G2/5000
FVH (80°-90°)	57.6	0.3			G1/100
BL (0°-30°)	623.5	3.2	B2/1000		
BM (30°-60°)	4570.0	23.4	B3/5000		
BH (60°-80°)	4511.4	23.1	B4/5000		G2/5000
BVH (80°-90°)	57.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	669.1	669.1	669.1	669.1	669.1
2.5°	823.7	770.9	795.0	770.9	823.7
5°	1047.0	991.9	943.6	978.3	1050.0
7.5°	1203.1	1120.9	1019.1	1111.9	1196.3
10°	1229.5	1183.5	1179.0	1178.2	1226.5
12.5°	1328.3	1297.4	1359.3	1300.4	1331.4
15°	1405.3	1387.9	1415.8	1409.8	1408.3
17.5°	1524.5	1406.8	1470.2	1400.0	1520.7
20°	1577.3	1410.6	1516.9	1402.3	1576.5
22.5°	1642.1	1499.6	1531.3	1503.3	1636.1
25°	1679.1	1556.9	1568.2	1558.4	1679.8
27.5°	1830.7	1683.6	1562.9	1704.0	1858.6
30°	1946.1	1765.8	1686.6	1768.1	1960.5
32.5°	2112.8	1888.8	1857.9	1919.0	2139.2
35°	2319.5	2095.5	1922.0	2096.2	2363.3
37.5°	2724.6	2283.3	2222.2	2349.7	2754.7
40°	3010.5	2579.7	2449.2	2627.3	3059.5
42.5°	3449.5	2912.4	2581.3	2936.5	3524.9
45°	3858.3	3315.9	3002.2	3343.9	3913.4
47.5°	4290.5	3686.3	3568.6	3721.0	4331.3
50°	4801.2	4187.9	4105.7	4227.2	4818.5
52.5°	5403.9	4859.3	4616.4	4881.9	5409.9
55°	6119.7	5422.7	5368.4	5484.6	6128.8
57.5°	6819.7	6152.9	6501.4	6159.7	6698.3
60°	7319.1	6825.8	7433.0	6652.3	7049.8
62.5°	7350.8	7324.4	8593.1	7030.2	6974.4
65°	6665.8	7123.0	9564.7	6892.9	6330.9
67.5°	5247.0	5983.9	9711.7	5867.8	5086.3
70°	3297.1	4143.4	8585.6	4302.6	3390.6
72.5°	1520.7	2232.8	6465.2	2513.4	1607.4
75°	544.6	854.6	3988.8	918.0	569.5
77.5°	309.3	346.2	1762.8	347.7	319.8
80°	199.1	215.7	509.2	227.8	193.9
82.5°	113.1	150.9	223.3	159.9	104.1
85°	61.1	95.8	98.8	98.1	61.1
87.5°	21.9	37.7	21.9	43.0	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)