

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: P368095

Luminaire Tested: **MSA-SA3D-740-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368095  
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-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: 21439 lumens  
Efficiency: N/A  
Efficacy: 111.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

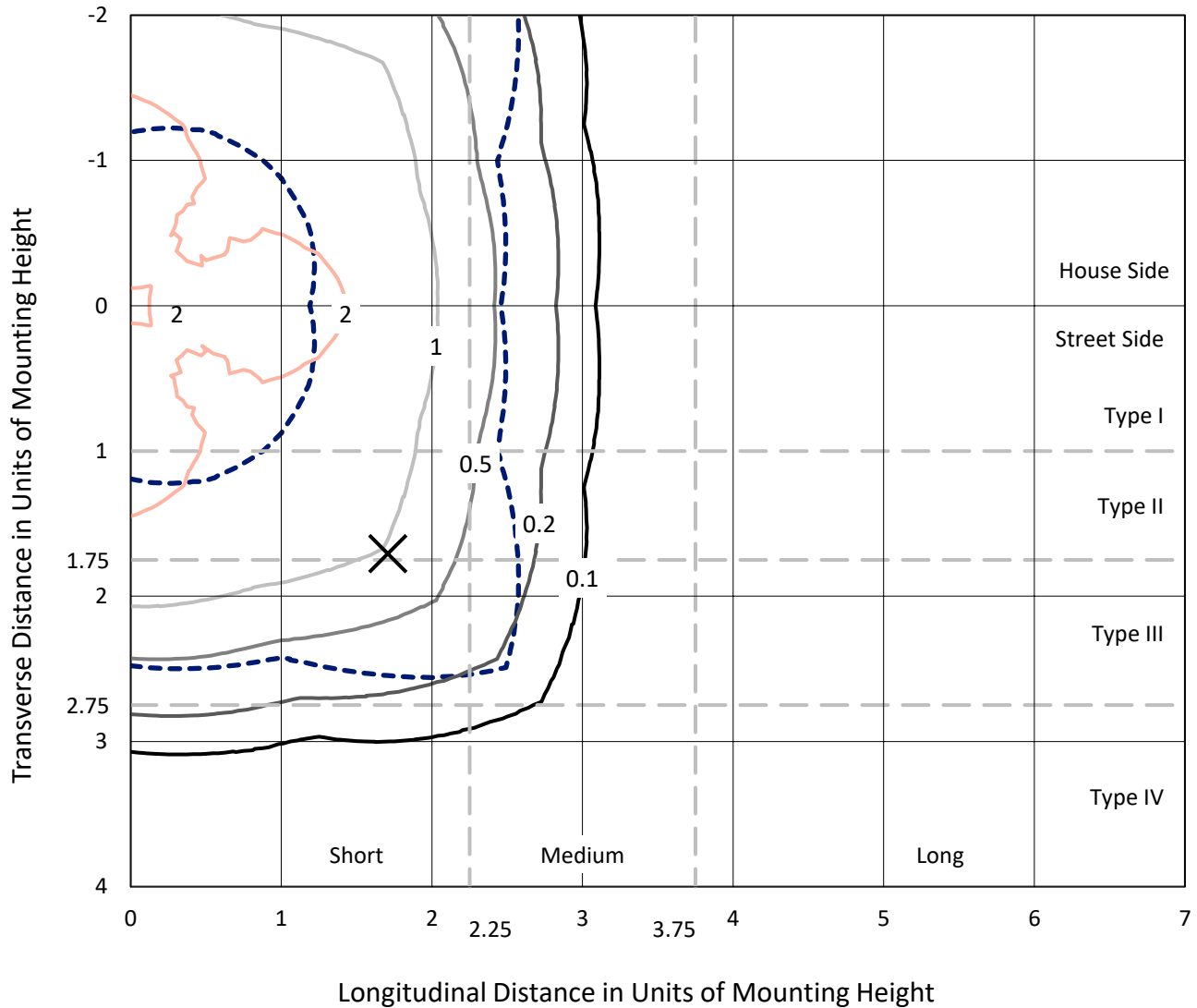
Input Watts (W): 192  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

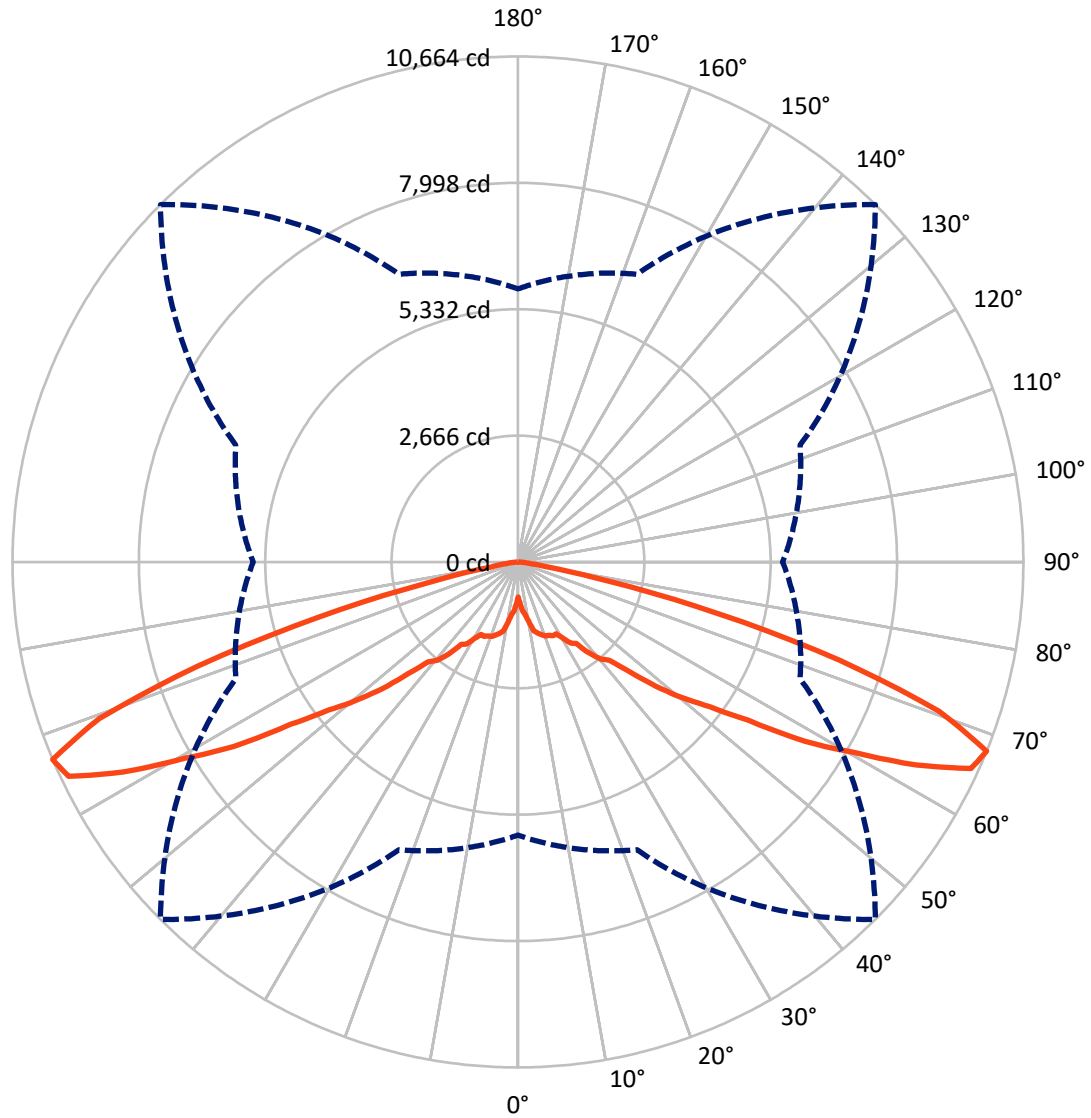
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	10719.5	0.0	10719.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10719.5	0.0	10719.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21439.0	0.0	21439.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.6	0.5
10°-20°	433.2	2.0
20°-30°	826.5	3.9
30°-40°	1511.1	7.0
40°-50°	2929.9	13.7
50°-60°	5595.1	26.1
60°-70°	7559.5	35.3
70°-80°	2347.7	11.0
80°-90°	126.5	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°	21439.0	100.0
0°-180°	21439.0	100.0

**Coefficient of Utilization**

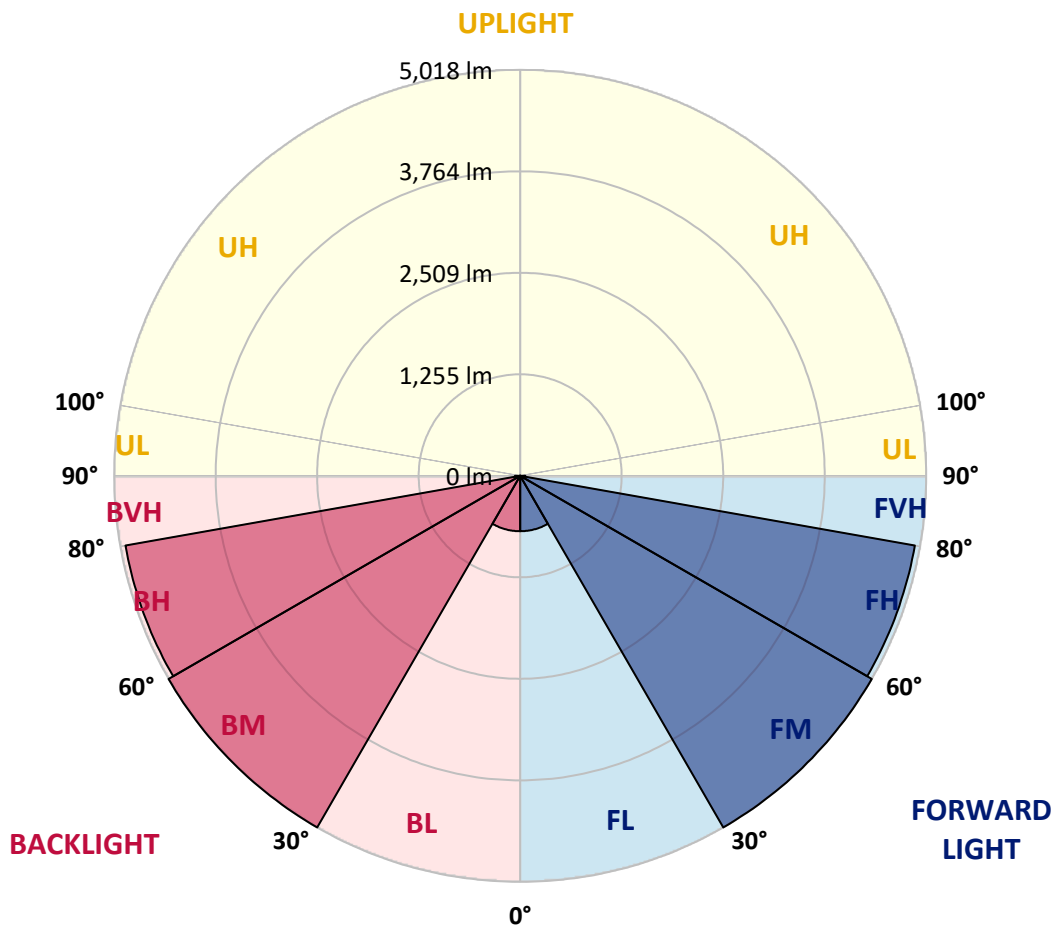


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	684.6	3.2			
FM (30°-60°)	5018.0	23.4			
FH (60°-80°)	4953.6	23.1			G2/5000
FVH (80°-90°)	63.2	0.3			G1/100
BL (0°-30°)	684.6	3.2	B2/1000		
BM (30°-60°)	5018.0	23.4	B4/8500		
BH (60°-80°)	4953.6	23.1	B4/5000		G2/5000
BVH (80°-90°)	63.2	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°	734.7	734.7	734.7	734.7	734.7
2.5°	904.5	846.5	873.0	846.5	904.5
5°	1149.6	1089.2	1036.1	1074.2	1152.9
7.5°	1321.1	1230.8	1119.0	1220.8	1313.6
10°	1350.1	1299.5	1294.6	1293.7	1346.7
12.5°	1458.6	1424.6	1492.5	1427.9	1461.9
15°	1543.0	1524.0	1554.6	1548.0	1546.4
17.5°	1673.9	1544.7	1614.3	1537.2	1669.8
20°	1731.9	1548.8	1665.6	1539.7	1731.1
22.5°	1803.1	1646.6	1681.4	1650.7	1796.5
25°	1843.7	1709.5	1721.9	1711.2	1844.5
27.5°	2010.2	1848.7	1716.1	1871.0	2040.8
30°	2136.9	1938.9	1852.0	1941.4	2152.6
32.5°	2319.9	2073.9	2040.0	2107.1	2348.9
35°	2546.9	2300.9	2110.4	2301.7	2594.9
37.5°	2991.7	2507.1	2440.0	2580.0	3024.8
40°	3305.6	2832.6	2689.3	2884.8	3359.4
42.5°	3787.6	3197.9	2834.3	3224.4	3870.4
45°	4236.5	3641.0	3296.5	3671.7	4297.0
47.5°	4711.1	4047.7	3918.5	4085.8	4755.8
50°	5271.8	4598.5	4508.2	4641.5	5290.9
52.5°	5933.6	5335.6	5068.9	5360.5	5940.2
55°	6719.6	5954.3	5894.7	6022.2	6729.6
57.5°	7488.2	6756.1	7138.7	6763.5	7354.9
60°	8036.6	7494.9	8161.6	7304.4	7740.9
62.5°	8071.3	8042.3	9435.5	7719.3	7658.0
65°	7319.3	7821.2	10502.3	7568.6	6951.5
67.5°	5761.3	6570.5	10663.8	6443.0	5584.9
70°	3620.3	4549.6	9427.2	4724.4	3723.0
72.5°	1669.8	2451.6	7099.0	2759.7	1765.0
75°	598.0	938.4	4379.8	1008.0	625.3
77.5°	339.6	380.2	1935.6	381.8	351.2
80°	218.7	236.9	559.1	250.1	212.9
82.5°	124.2	165.7	245.2	175.6	114.3
85°	67.1	105.2	108.5	107.7	67.1
87.5°	24.0	41.4	24.0	47.2	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)