

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: P368469

Luminaire Tested: **MSA-SA4C-730-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368469  
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-SA4C-730-U-5MQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23603 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

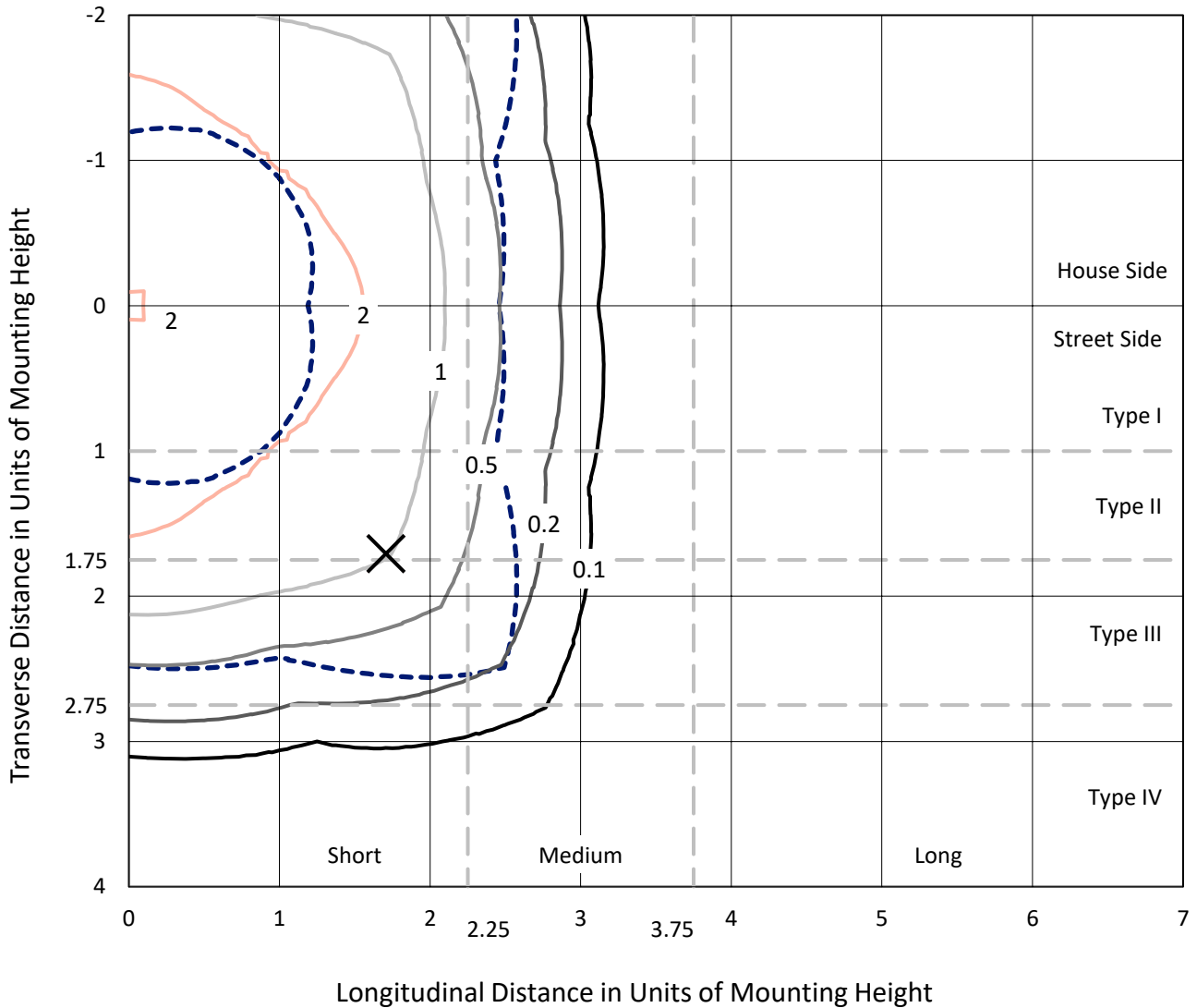
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P368469  
 CATALOG NUMBER: MSA-SA4C-730-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

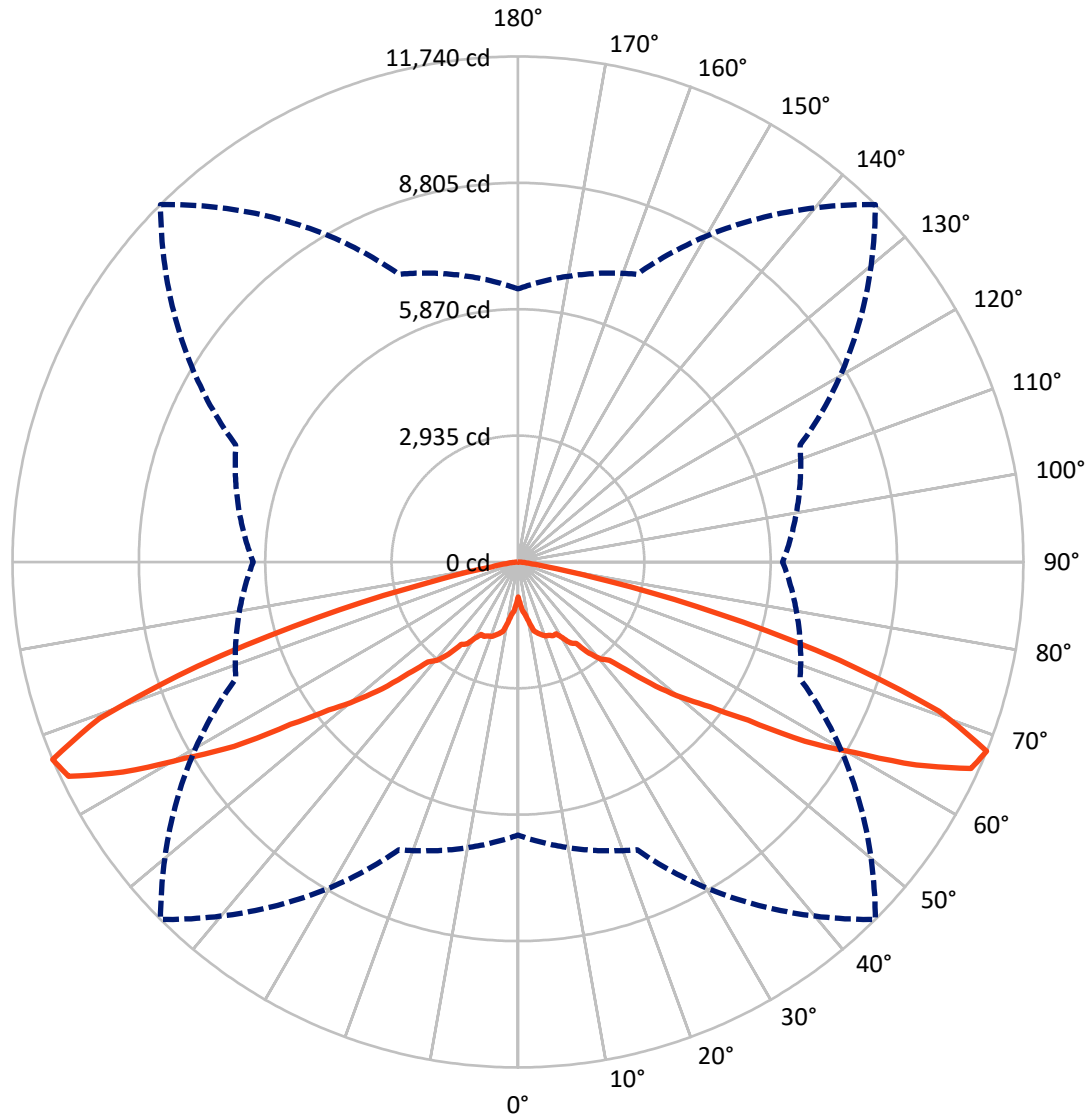
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P368469  
CATALOG NUMBER: MSA-SA4C-730-U-5MQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P368469  
 CATALOG NUMBER: MSA-SA4C-730-U-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11801.5	0.0	11801.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11801.5	0.0	11801.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23603.0	0.0	23603.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.6	0.5
10°-20°	476.9	2.0
20°-30°	909.9	3.9
30°-40°	1663.6	7.0
40°-50°	3225.6	13.7
50°-60°	6159.8	26.1
60°-70°	8322.6	35.3
70°-80°	2584.7	11.0
80°-90°	139.3	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°	23603.0	100.0
0°-180°	23603.0	100.0

**Coefficient of Utilization**

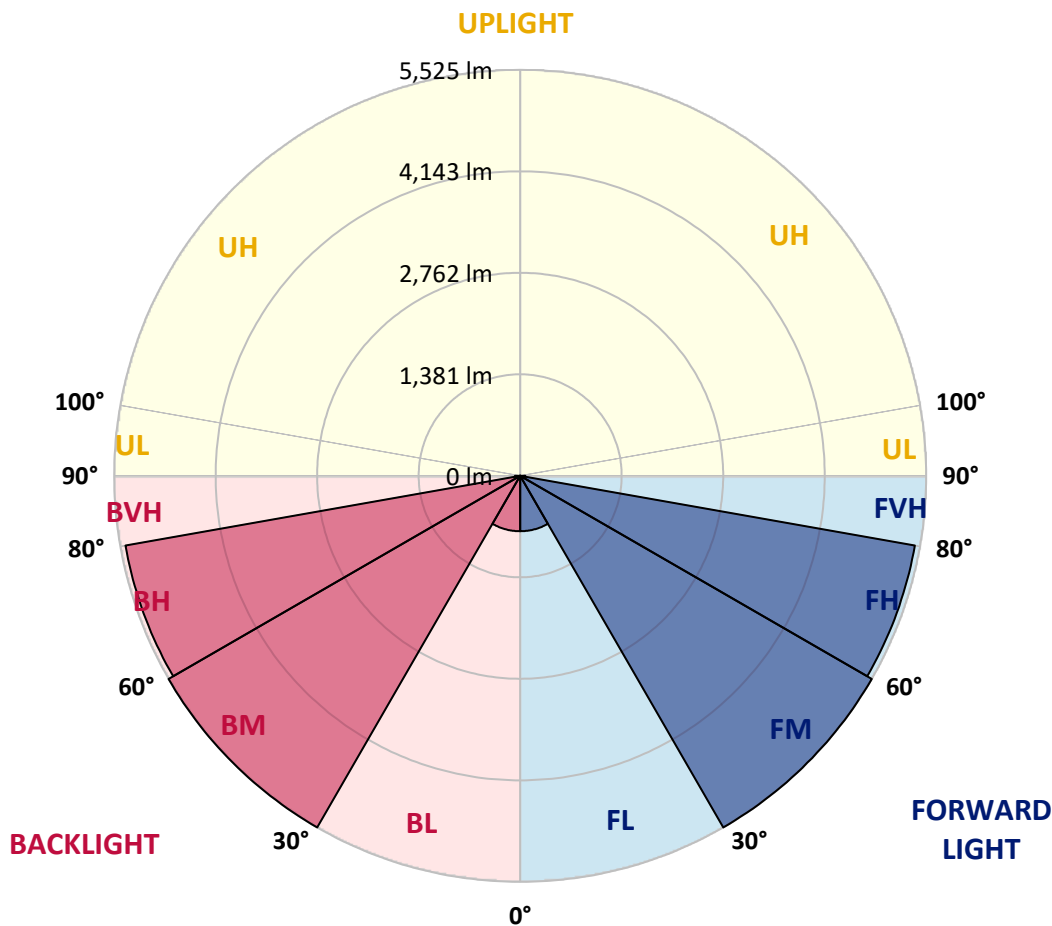


REPORT NUMBER: P368469  
 CATALOG NUMBER: MSA-SA4C-730-U-5MQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	753.7	3.2			
FM (30°-60°)	5524.5	23.4			
FH (60°-80°)	5453.6	23.1			G3/7500
FVH (80°-90°)	69.6	0.3			G1/100
BL (0°-30°)	753.7	3.2	B2/1000		
BM (30°-60°)	5524.5	23.4	B4/8500		
BH (60°-80°)	5453.6	23.1	B5		G3/7500
BVH (80°-90°)	69.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**  
 Type V Short





REPORT NUMBER: P368469

CATALOG NUMBER: MSA-SA4C-730-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	808.8	808.8	808.8	808.8	808.8
2.5°	995.7	931.9	961.1	931.9	995.7
5°	1265.7	1199.1	1140.7	1182.7	1269.3
7.5°	1454.4	1355.0	1231.9	1344.1	1446.2
10°	1486.3	1430.7	1425.2	1424.3	1482.7
12.5°	1605.8	1568.4	1643.2	1572.0	1609.4
15°	1698.8	1677.8	1711.6	1704.3	1702.4
17.5°	1842.9	1700.6	1777.2	1692.4	1838.3
20°	1906.7	1705.2	1833.7	1695.1	1905.8
22.5°	1985.1	1812.8	1851.1	1817.3	1977.8
25°	2029.8	1882.1	1895.7	1883.9	2030.7
27.5°	2213.1	2035.3	1889.4	2059.9	2246.8
30°	2352.6	2134.7	2038.9	2137.4	2369.9
32.5°	2554.1	2283.3	2245.9	2319.8	2586.0
35°	2804.0	2533.1	2323.4	2534.0	2856.8
37.5°	3293.6	2760.2	2686.3	2840.4	3330.1
40°	3639.2	3118.5	2960.8	3176.0	3698.5
42.5°	4169.9	3520.7	3120.4	3549.9	4261.1
45°	4664.1	4008.5	3629.2	4042.3	4730.7
47.5°	5186.6	4456.2	4314.0	4498.2	5235.9
50°	5804.0	5062.6	4963.2	5110.0	5824.9
52.5°	6532.5	5874.2	5580.6	5901.5	6539.8
55°	7397.9	6555.3	6489.7	6630.1	7408.8
57.5°	8244.1	7438.0	7859.3	7446.2	8097.3
60°	8847.7	8251.4	8985.4	8041.7	8522.2
62.5°	8886.0	8854.1	10387.9	8498.5	8431.0
65°	8058.1	8610.7	11562.3	8332.5	7653.2
67.5°	6342.9	7233.8	11740.1	7093.3	6148.6
70°	3985.7	5008.8	10378.7	5201.2	4098.8
72.5°	1838.3	2699.1	7815.5	3038.3	1943.2
75°	658.4	1033.1	4821.9	1109.7	688.5
77.5°	373.9	418.5	2131.0	420.4	386.6
80°	240.7	260.8	615.5	275.4	234.3
82.5°	136.8	182.4	269.9	193.3	125.8
85°	73.9	115.8	119.5	118.5	73.9
87.5°	26.4	45.6	26.4	52.0	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)