

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: P368471

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

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA4C-730-U-5WQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23507 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

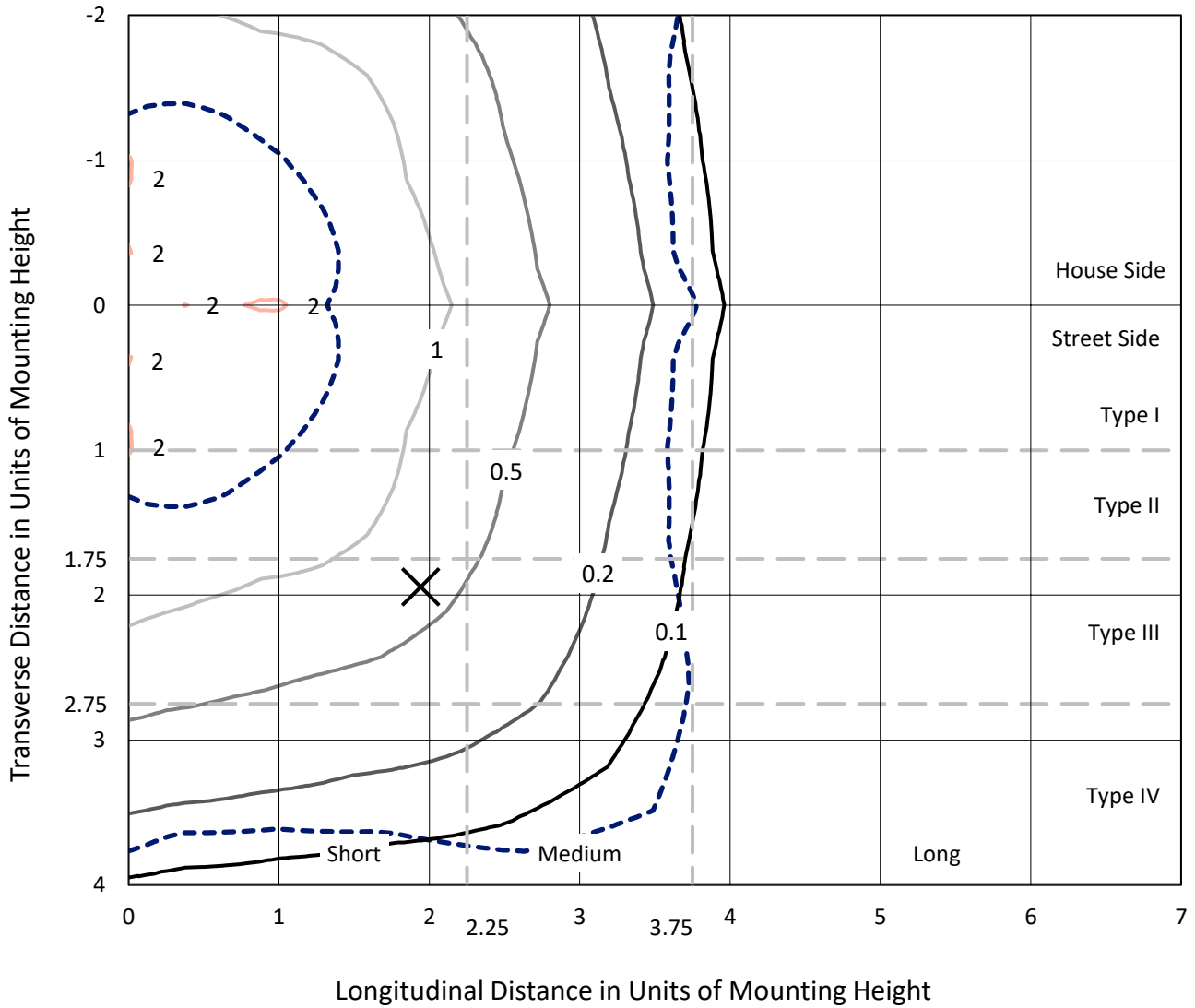
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P368471
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Iso-Footcandle Lines of Horizontal Illumination

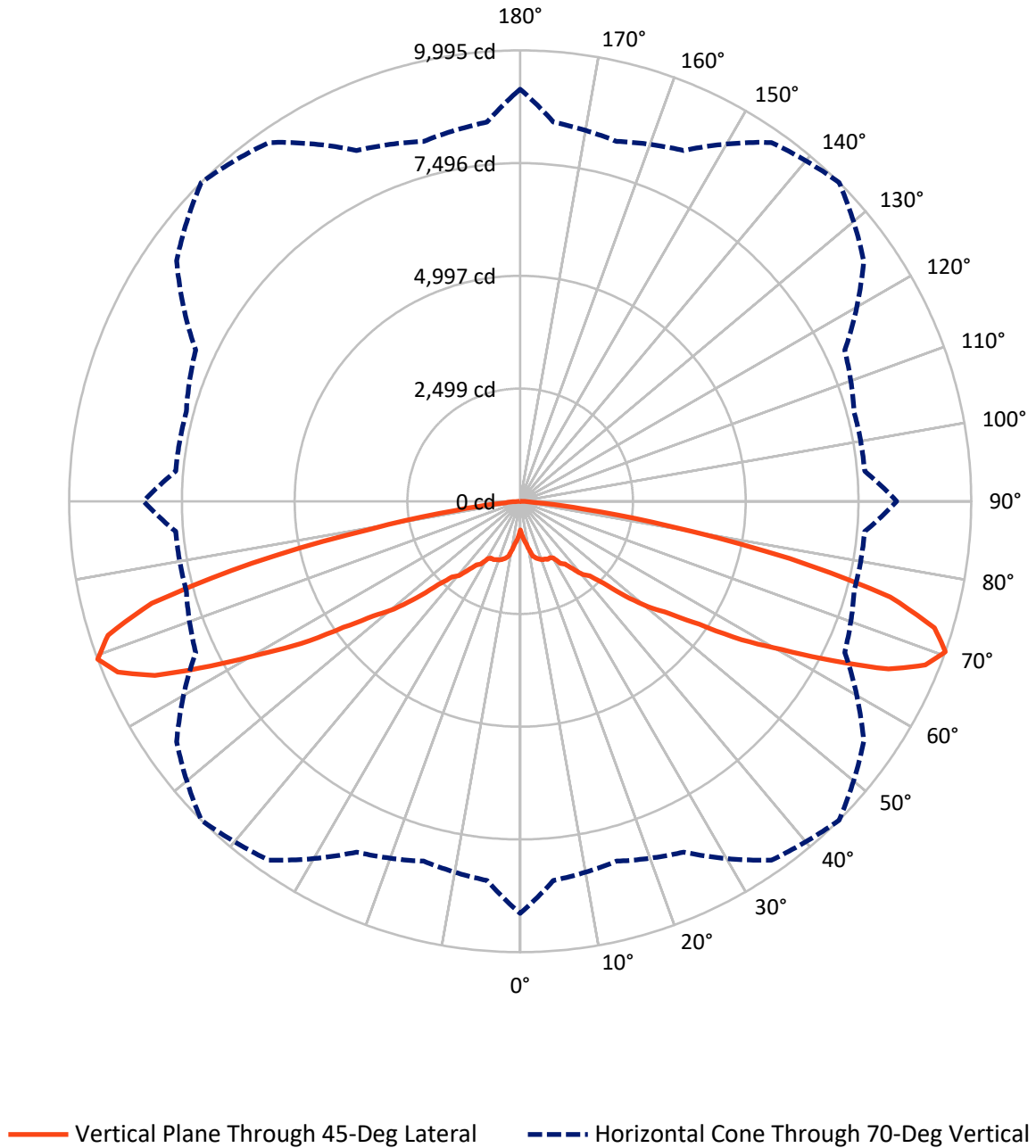
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

REPORT NUMBER: P368471
CATALOG NUMBER: MSA-SA4C-730-U-5WQ

Luminous Intensity Polar Plot



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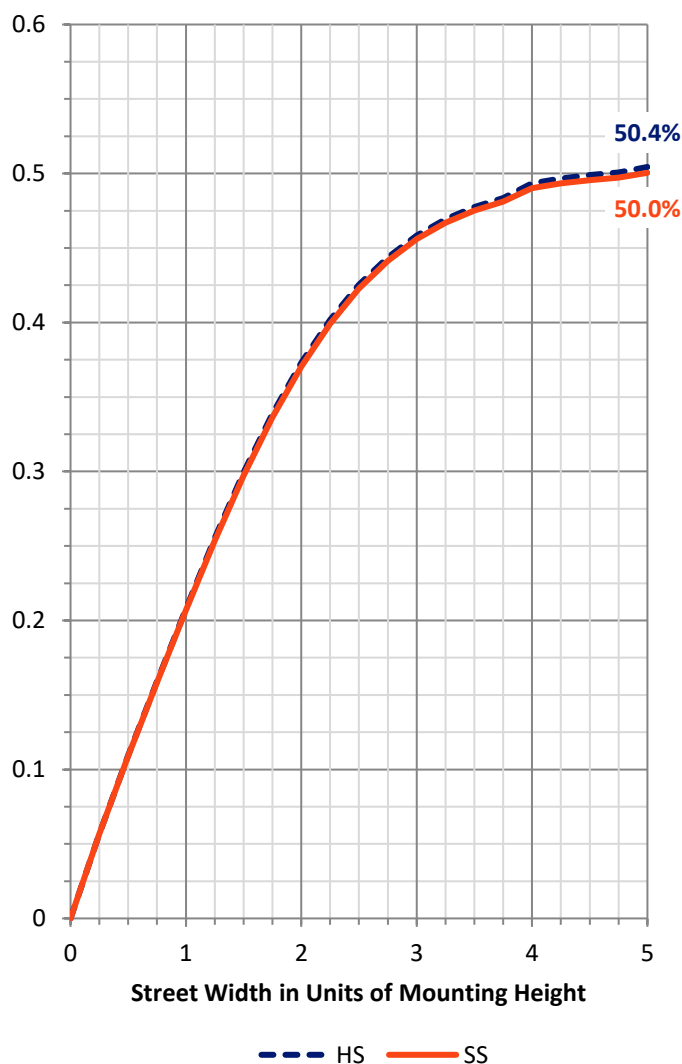
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11753.5	0.0	11753.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11753.5	0.0	11753.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23507.0	0.0	23507.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	0.4
10°-20°	370.0	1.6
20°-30°	699.6	3.0
30°-40°	1218.6	5.2
40°-50°	2329.6	9.9
50°-60°	4517.2	19.2
60°-70°	7909.7	33.6
70°-80°	5944.6	25.3
80°-90°	425.3	1.8
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°	23507.0	100.0
0°-180°	23507.0	100.0

Coefficient of Utilization



REPORT NUMBER: P368471

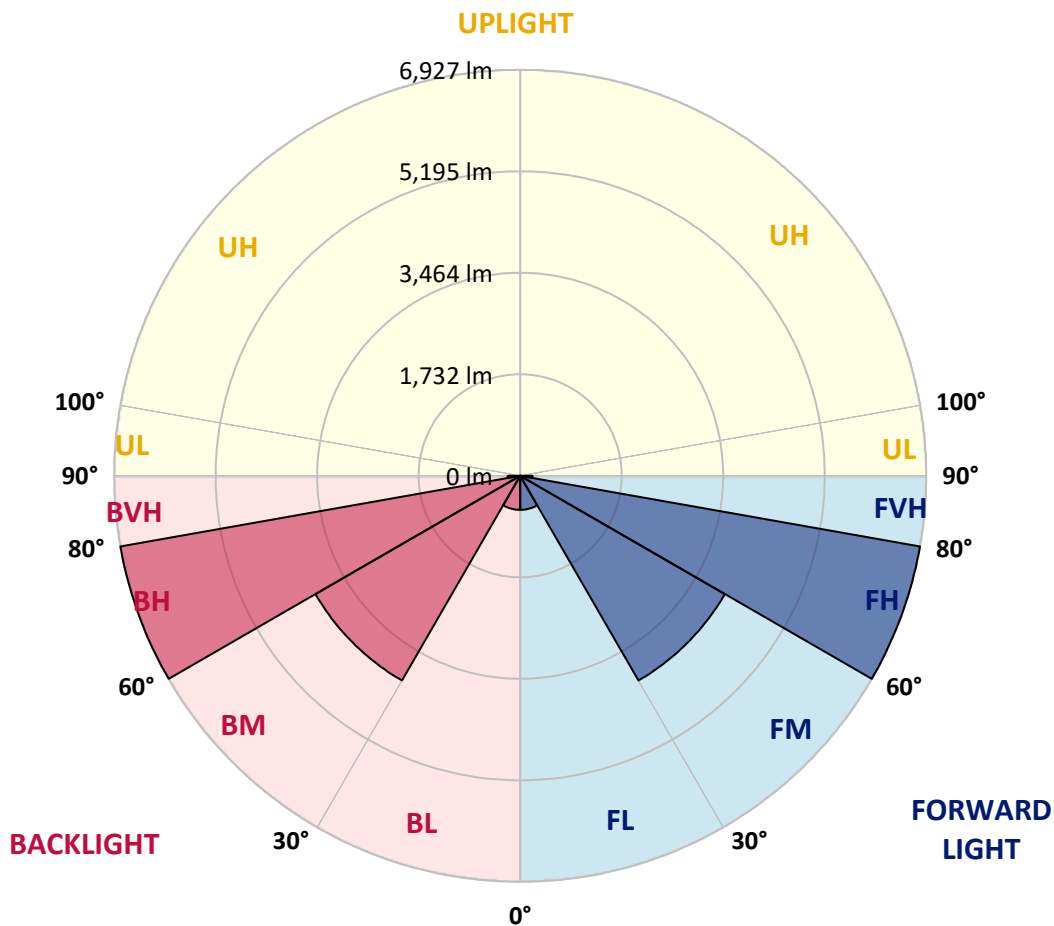
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.0	2.5			
FM (30°-60°)	4032.6	17.2			
FH (60°-80°)	6927.2	29.5			G3/7500
FVH (80°-90°)	212.7	0.9			G2/225
BL (0°-30°)	581.0	2.5	B2/1000		
BM (30°-60°)	4032.6	17.2	B3/5000		
BH (60°-80°)	6927.2	29.5	B5		G3/7500
BVH (80°-90°)	212.7	0.9			G2/225
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: P368471

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6	635.6
2.5°	773.3	761.5	724.1	725.9	743.2	745.0	746.9	724.1	718.6	765.1	767.8
5°	982.1	954.8	927.4	916.5	900.1	854.5	904.6	910.1	921.0	956.6	973.0
7.5°	1121.7	1087.9	1050.5	1027.7	983.1	945.7	986.7	1020.4	1042.3	1082.5	1105.3
10°	1148.1	1128.1	1126.2	1086.1	1077.9	1091.6	1088.8	1089.8	1122.6	1123.5	1137.2
12.5°	1231.1	1245.7	1217.4	1203.7	1211.9	1245.7	1218.3	1206.5	1214.7	1252.1	1236.6
15°	1339.6	1356.9	1314.1	1292.2	1270.3	1302.2	1274.0	1294.9	1321.4	1348.7	1335.1
17.5°	1460.0	1460.9	1402.5	1321.4	1340.5	1345.1	1335.1	1317.7	1393.4	1459.1	1452.7
20°	1525.7	1524.7	1424.4	1314.1	1370.6	1380.7	1371.5	1312.3	1426.3	1516.5	1513.8
22.5°	1593.1	1573.1	1452.7	1363.3	1384.3	1392.5	1371.5	1366.1	1452.7	1578.5	1577.6
25°	1629.6	1646.9	1514.7	1459.1	1441.8	1422.6	1440.8	1450.0	1532.9	1656.1	1620.5
27.5°	1743.6	1715.3	1532.9	1527.5	1491.0	1415.3	1478.2	1522.9	1527.5	1726.3	1762.8
30°	1846.6	1857.6	1615.0	1623.2	1556.7	1460.9	1558.5	1629.6	1643.3	1859.4	1855.8
32.5°	1956.1	1960.6	1760.9	1676.1	1647.8	1644.2	1606.8	1668.8	1776.4	1949.7	1957.0
35°	2122.1	2159.4	1891.3	1777.3	1741.8	1705.3	1738.1	1793.8	1894.1	2154.0	2135.7
37.5°	2502.3	2443.0	2174.9	1938.8	1915.0	1900.5	1926.9	1967.0	2172.2	2449.4	2534.2
40°	2767.7	2739.4	2374.7	2205.9	2056.4	2134.8	2072.8	2227.8	2397.5	2741.2	2796.0
42.5°	3179.0	3053.1	2678.3	2469.5	2314.5	2258.8	2293.5	2495.9	2712.1	3095.1	3202.7
45°	3573.8	3379.6	3058.6	2874.4	2639.1	2580.7	2627.3	2865.3	3115.1	3417.9	3607.6
47.5°	3976.9	3776.3	3423.4	3157.1	2964.7	3138.8	2986.6	3212.7	3461.7	3813.7	3982.4
50°	4395.5	4173.0	3824.6	3534.6	3518.2	3672.3	3489.9	3605.8	3836.5	4201.2	4400.0
52.5°	4876.1	4636.2	4287.9	4091.8	4130.1	4120.1	4083.6	4062.6	4289.7	4648.1	4884.3
55°	5447.8	5188.9	4910.7	4820.4	4926.2	4812.2	4866.0	4858.7	4891.6	5147.8	5424.1
57.5°	6139.1	5846.4	5567.3	5547.2	5683.1	5790.7	5695.0	5557.3	5499.8	5748.8	6065.2
60°	7010.0	6650.7	6344.3	6281.3	6668.9	6668.0	6581.4	6273.1	6251.3	6533.0	6914.2
62.5°	7972.1	7534.3	7199.7	7099.3	7706.7	7775.1	7505.1	6952.5	7065.6	7292.7	7745.0
65°	8789.1	8263.0	7951.1	7923.7	8666.0	8967.9	8371.5	7615.5	7652.0	7840.7	8330.4
67.5°	9321.7	8687.9	8439.9	8572.1	9495.0	9683.7	9129.3	8058.7	7929.2	8007.6	8593.1
70°	9134.8	8438.0	8259.3	8580.3	9709.3	9994.7	9292.5	7934.7	7659.3	7662.9	8343.2
72.5°	7718.5	7055.6	7140.4	7729.5	9202.2	9602.6	8537.4	7166.8	6603.3	6589.6	7206.9
75°	5104.0	4660.9	4995.5	5913.8	7650.1	8469.1	7073.8	5617.5	4910.7	4680.9	5157.9
77.5°	2232.4	2175.9	2457.6	3495.4	5215.3	6103.5	5067.6	3669.6	2671.0	2221.5	2426.6
80°	598.2	585.5	735.0	1325.9	2538.8	3361.4	2742.2	1463.6	764.2	556.3	590.0
82.5°	218.0	223.4	272.7	371.2	836.2	1415.3	911.0	427.7	289.1	237.1	237.1
85°	94.8	92.1	132.2	148.6	228.0	320.1	261.7	181.5	145.9	109.4	104.9
87.5°	25.5	31.9	44.7	46.5	59.3	48.3	69.3	63.8	54.7	38.3	31.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)