

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: P366623

Luminaire Tested: **MSA-SA1A-730-U-5WQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366623
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-SA1A-730-U-5WQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS
EACH AND TYPE V WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3948 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

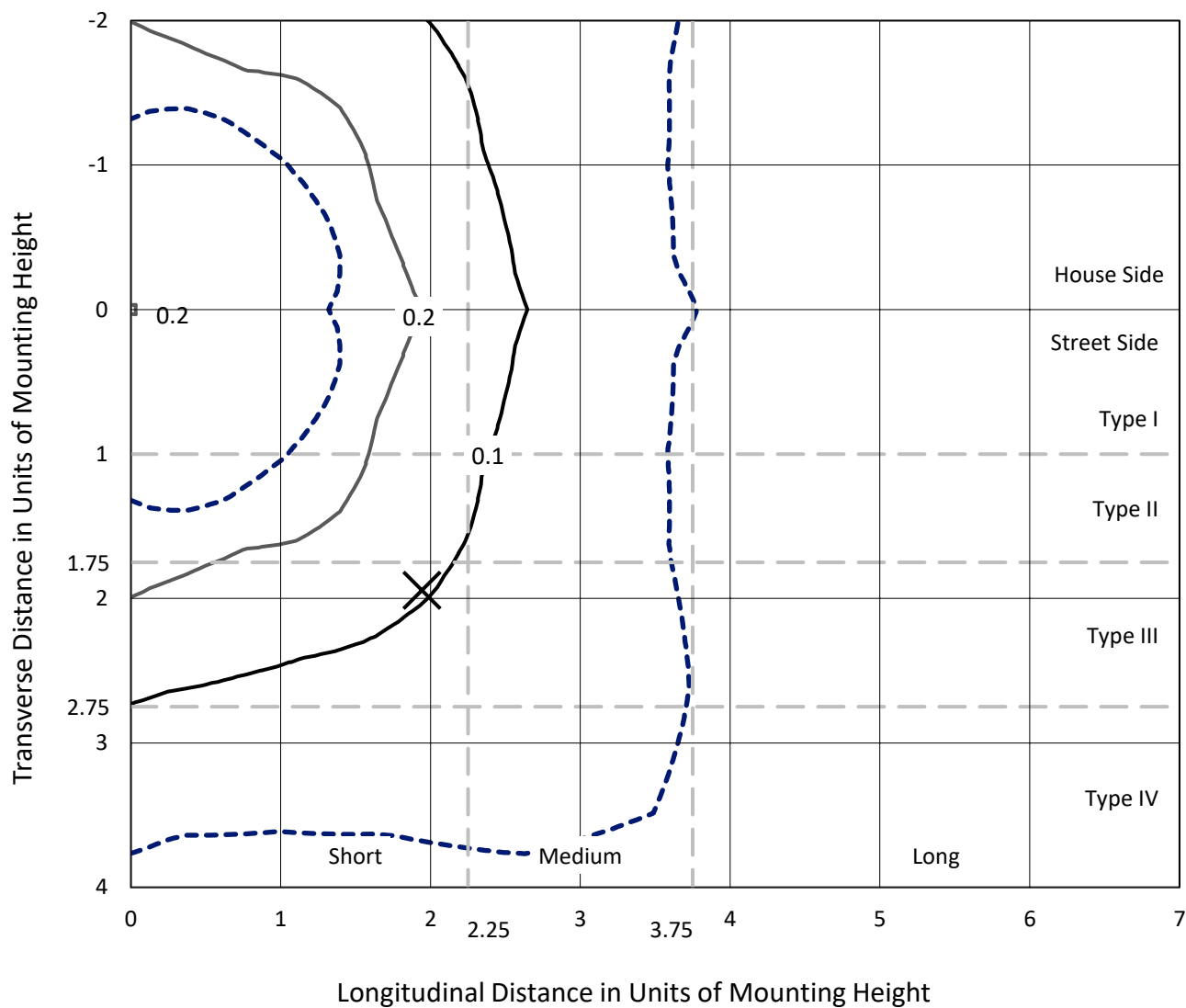
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

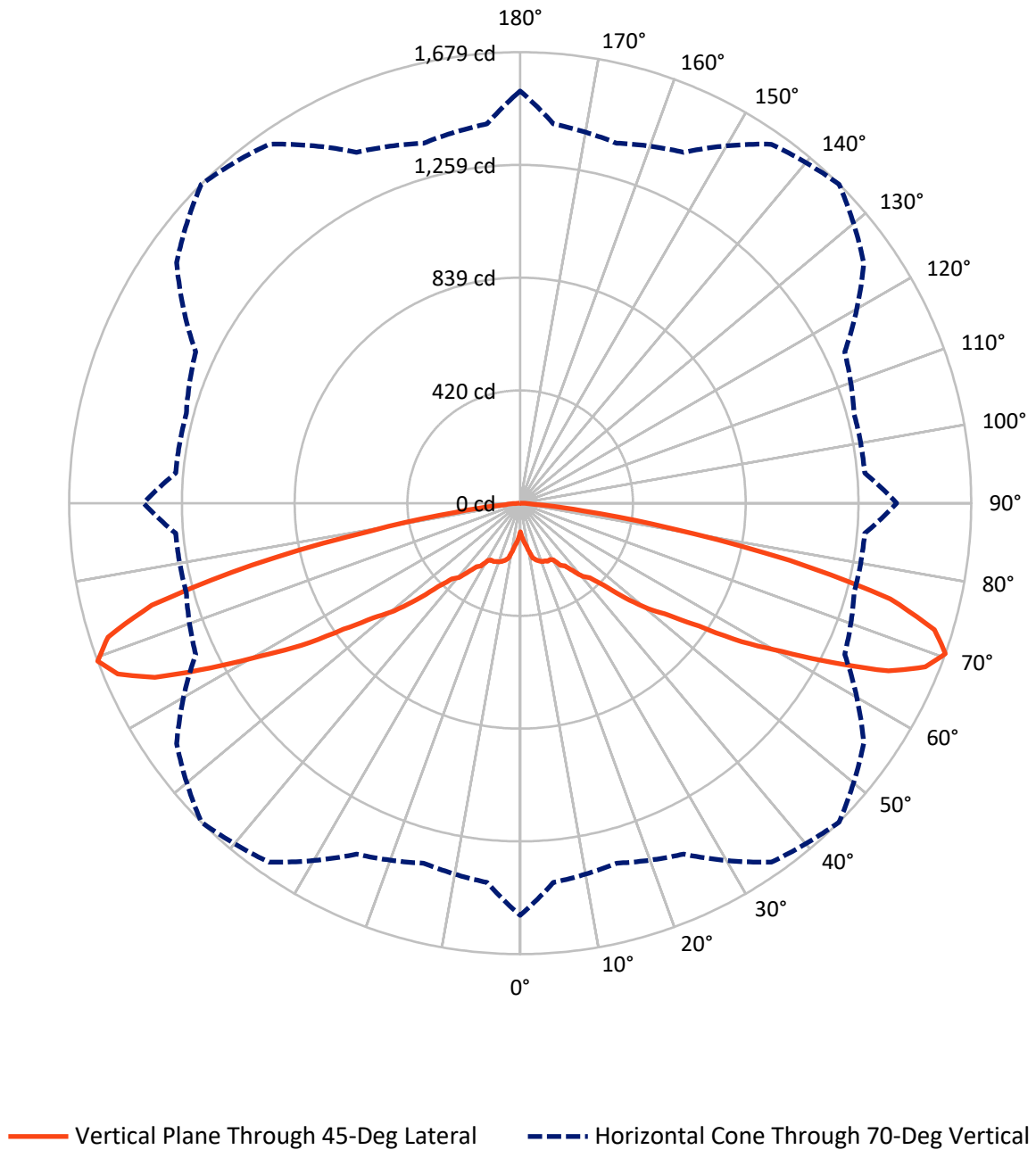
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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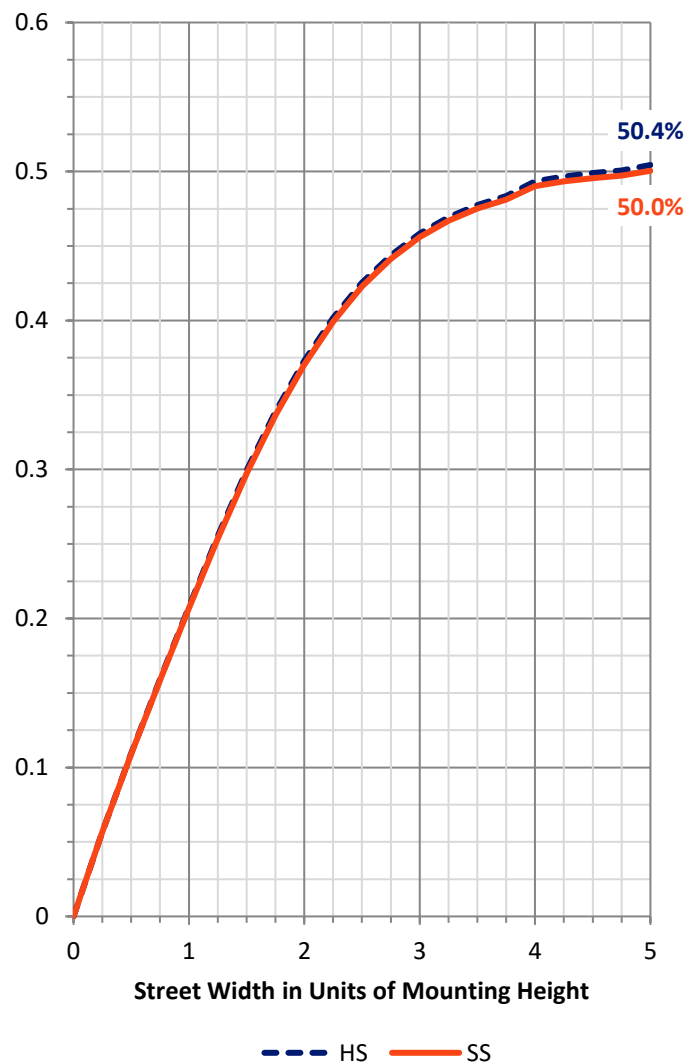
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1974.0	0.0	1974.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1974.0	0.0	1974.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3948.0	0.0	3948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.5	0.4
10°-20°	62.1	1.6
20°-30°	117.5	3.0
30°-40°	204.7	5.2
40°-50°	391.2	9.9
50°-60°	758.7	19.2
60°-70°	1328.4	33.6
70°-80°	998.4	25.3
80°-90°	71.4	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°	3948.0	100.0
0°-180°	3948.0	100.0

Coefficient of Utilization



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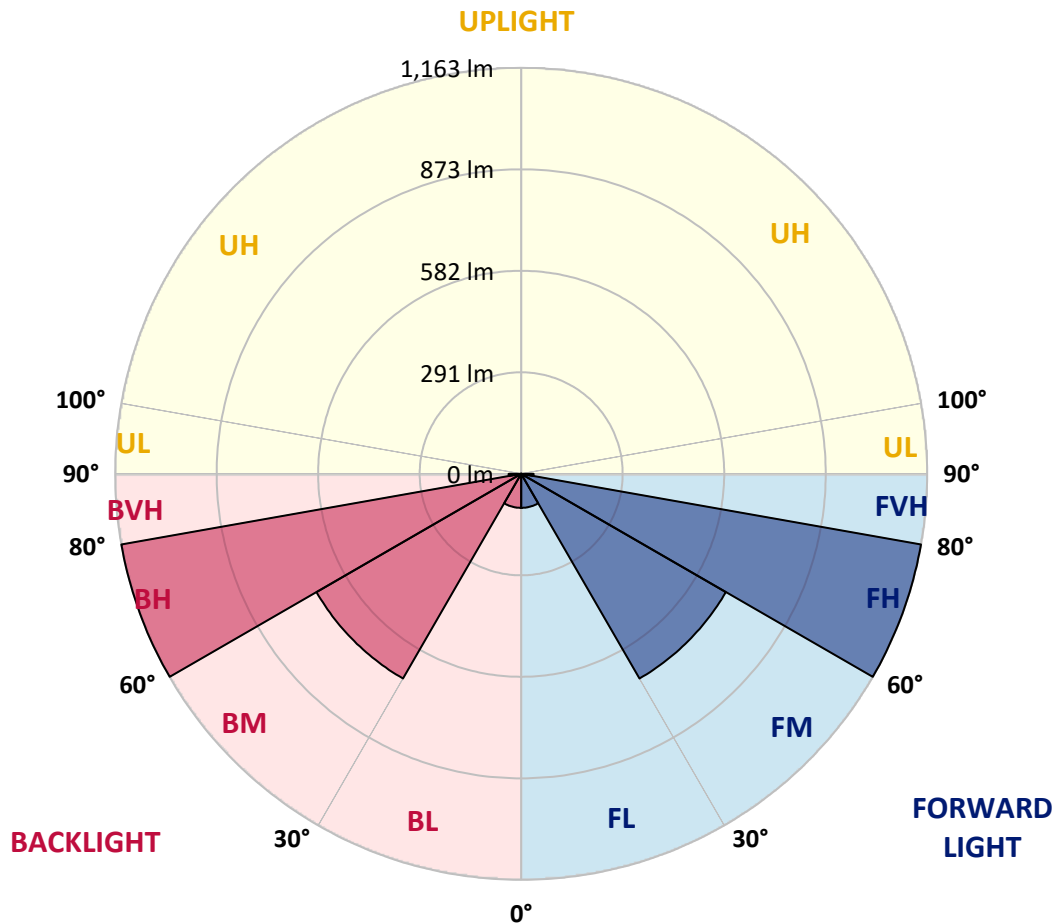
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	97.6	2.5			
FM	(30°-60°)	677.3	17.2			
FH	(60°-80°)	1163.4	29.5			G1/1800
FVH	(80°-90°)	35.7	0.9			G1/100
BL	(0°-30°)	97.6	2.5	B0/110		
BM	(30°-60°)	677.3	17.2	B1/1000		
BH	(60°-80°)	1163.4	29.5	B3/2500		G1/1800
BVH	(80°-90°)	35.7	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8	106.8
2.5°	129.9	127.9	121.6	121.9	124.8	125.1	125.4	121.6	120.7	128.5	129.0
5°	165.0	160.4	155.8	153.9	151.2	143.5	151.9	152.9	154.7	160.7	163.4
7.5°	188.4	182.7	176.4	172.6	165.1	158.8	165.7	171.4	175.1	181.8	185.6
10°	192.8	189.5	189.1	182.4	181.0	183.3	182.9	183.0	188.5	188.7	191.0
12.5°	206.8	209.2	204.5	202.2	203.5	209.2	204.6	202.6	204.0	210.3	207.7
15°	225.0	227.9	220.7	217.0	213.3	218.7	214.0	217.5	221.9	226.5	224.2
17.5°	245.2	245.4	235.6	221.9	225.1	225.9	224.2	221.3	234.0	245.1	244.0
20°	256.2	256.1	239.2	220.7	230.2	231.9	230.3	220.4	239.5	254.7	254.2
22.5°	267.6	264.2	244.0	229.0	232.5	233.9	230.3	229.4	244.0	265.1	265.0
25°	273.7	276.6	254.4	245.1	242.1	238.9	242.0	243.5	257.5	278.1	272.2
27.5°	292.8	288.1	257.5	256.5	250.4	237.7	248.3	255.8	256.5	289.9	296.1
30°	310.1	312.0	271.2	272.6	261.4	245.4	261.7	273.7	276.0	312.3	311.7
32.5°	328.5	329.3	295.7	281.5	276.8	276.1	269.9	280.3	298.4	327.5	328.7
35°	356.4	362.7	317.6	298.5	292.5	286.4	291.9	301.3	318.1	361.8	358.7
37.5°	420.3	410.3	365.3	325.6	321.6	319.2	323.6	330.4	364.8	411.4	425.6
40°	464.8	460.1	398.8	370.5	345.4	358.5	348.1	374.2	402.7	460.4	469.6
42.5°	533.9	512.8	449.8	414.8	388.7	379.4	385.2	419.2	455.5	519.8	537.9
45°	600.2	567.6	513.7	482.8	443.2	433.4	441.2	481.2	523.2	574.0	605.9
47.5°	667.9	634.2	575.0	530.2	497.9	527.2	501.6	539.6	581.4	640.5	668.8
50°	738.2	700.9	642.3	593.6	590.9	616.8	586.1	605.6	644.3	705.6	739.0
52.5°	818.9	778.7	720.1	687.2	693.7	692.0	685.8	682.3	720.5	780.6	820.3
55°	915.0	871.5	824.8	809.6	827.4	808.2	817.3	816.0	821.5	864.6	911.0
57.5°	1031.1	981.9	935.0	931.7	954.5	972.6	956.5	933.3	923.7	965.5	1018.7
60°	1177.3	1117.0	1065.5	1055.0	1120.0	1119.9	1105.3	1053.6	1049.9	1097.2	1161.2
62.5°	1338.9	1265.4	1209.2	1192.3	1294.3	1305.8	1260.5	1167.7	1186.7	1224.8	1300.8
65°	1476.1	1387.8	1335.4	1330.8	1455.5	1506.2	1406.0	1279.0	1285.1	1316.9	1399.1
67.5°	1565.6	1459.1	1417.5	1439.7	1594.7	1626.4	1533.3	1353.5	1331.7	1344.9	1443.2
70°	1534.2	1417.2	1387.2	1441.1	1630.7	1678.6	1560.7	1332.6	1286.4	1287.0	1401.2
72.5°	1296.3	1185.0	1199.2	1298.2	1545.5	1612.8	1433.9	1203.7	1109.0	1106.7	1210.4
75°	857.2	782.8	839.0	993.2	1284.8	1422.4	1188.0	943.5	824.8	786.2	866.3
77.5°	374.9	365.4	412.8	587.1	875.9	1025.1	851.1	616.3	448.6	373.1	407.6
80°	100.5	98.3	123.4	222.7	426.4	564.5	460.5	245.8	128.3	93.4	99.1
82.5°	36.6	37.5	45.8	62.3	140.4	237.7	153.0	71.8	48.6	39.8	39.8
85°	15.9	15.5	22.2	25.0	38.3	53.8	44.0	30.5	24.5	18.4	17.6
87.5°	4.3	5.4	7.5	7.8	10.0	8.1	11.6	10.7	9.2	6.4	5.2
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)