

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: P367546

Luminaire Tested: **MSA-SA2D-730-U-5NQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-5)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA2D-730-U-5NQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12569 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

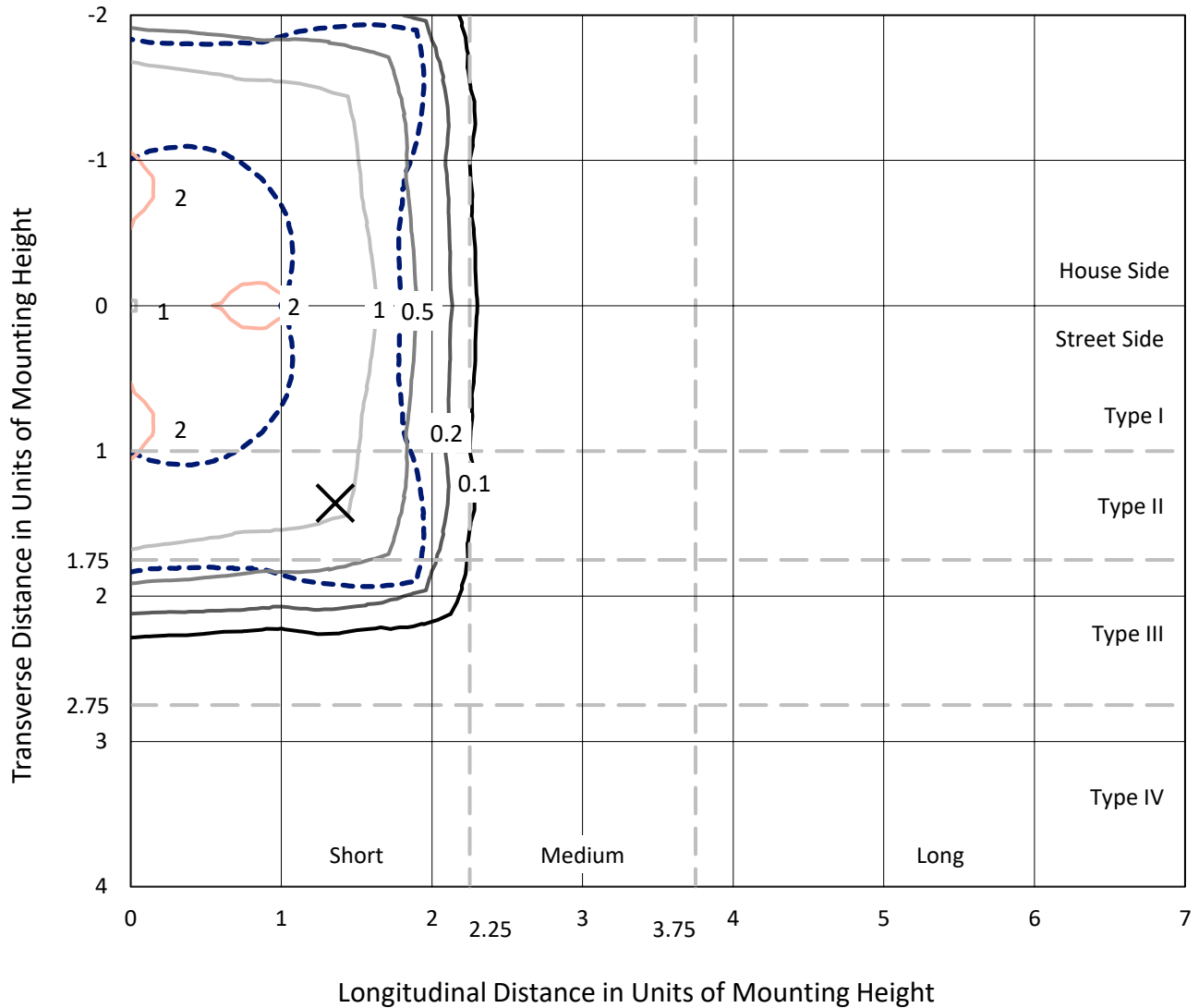
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

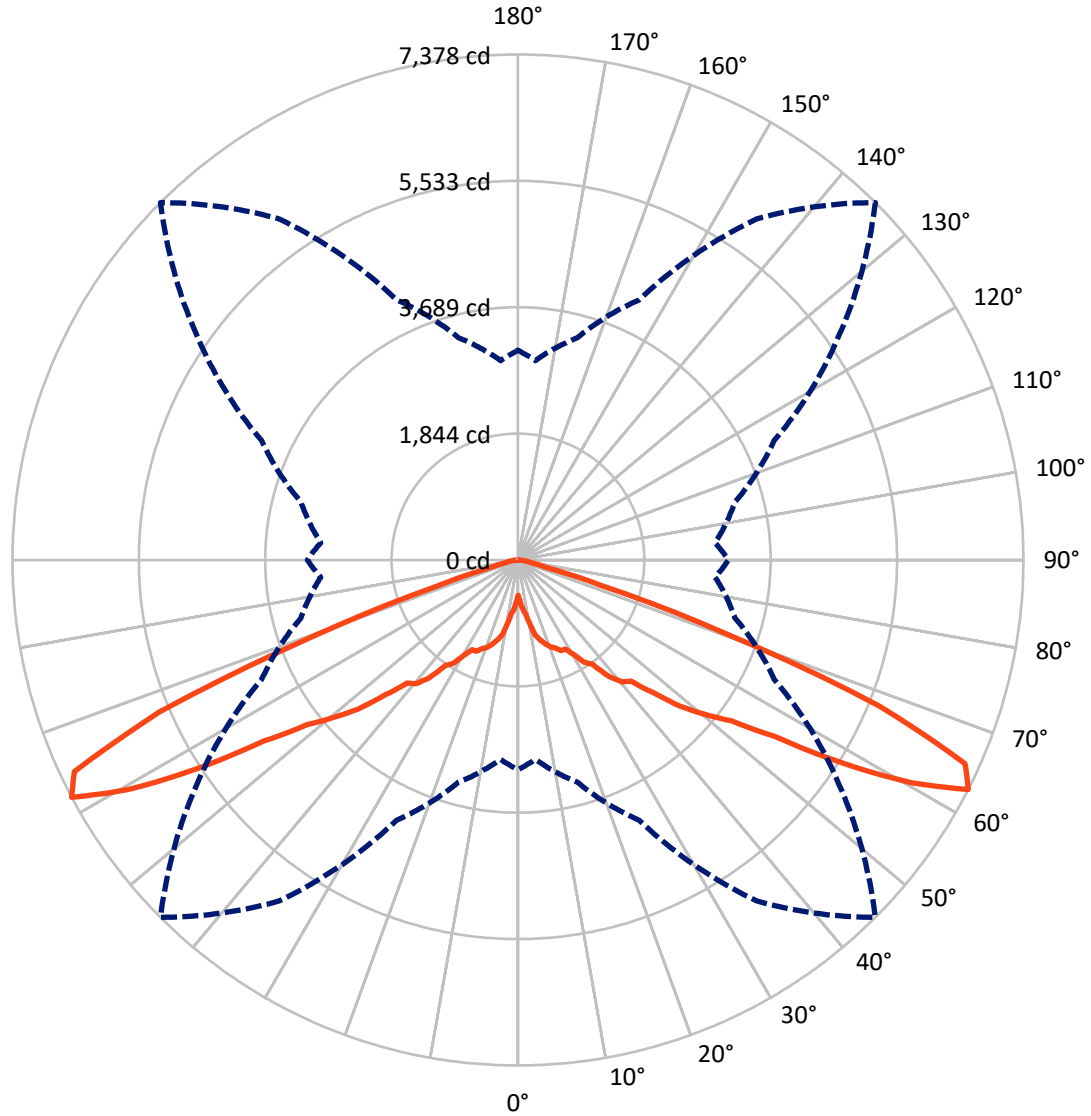
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

REPORT NUMBER: P367546
CATALOG NUMBER: MSA-SA2D-730-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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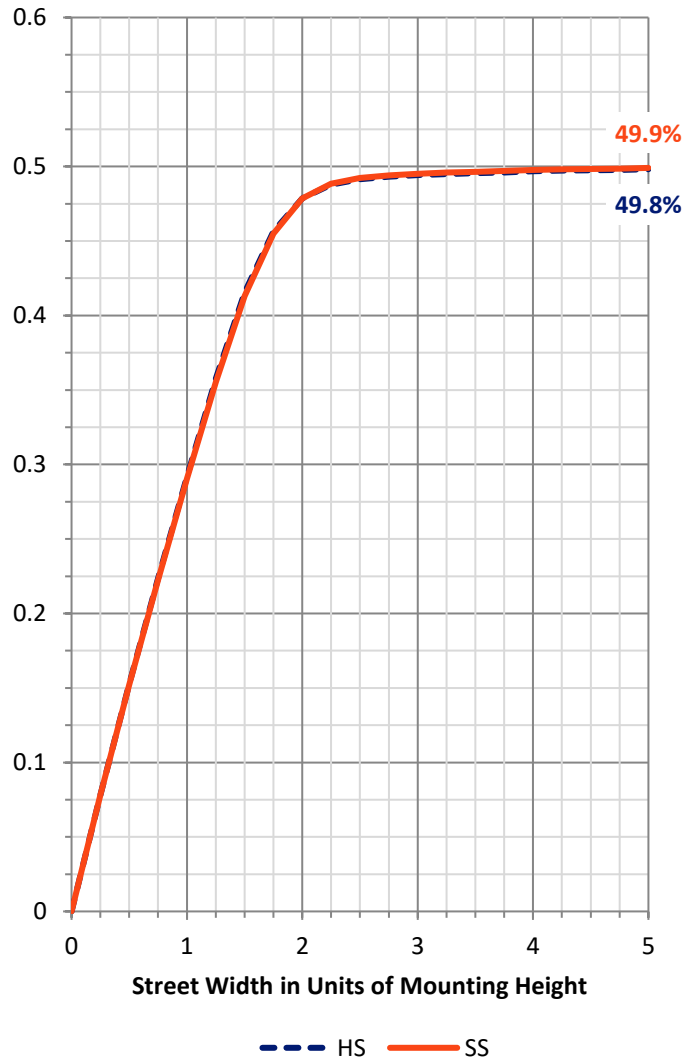
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6284.5	0.0	6284.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6284.5	0.0	6284.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12569.0	0.0	12569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	0.6
10°-20°	341.5	2.7
20°-30°	715.8	5.7
30°-40°	1348.6	10.7
40°-50°	2447.7	19.5
50°-60°	4135.8	32.9
60°-70°	3091.8	24.6
70°-80°	345.9	2.8
80°-90°	64.4	0.5
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°	12569.0	100.0
0°-180°	12569.0	100.0

Coefficient of Utilization



REPORT NUMBER: P367546

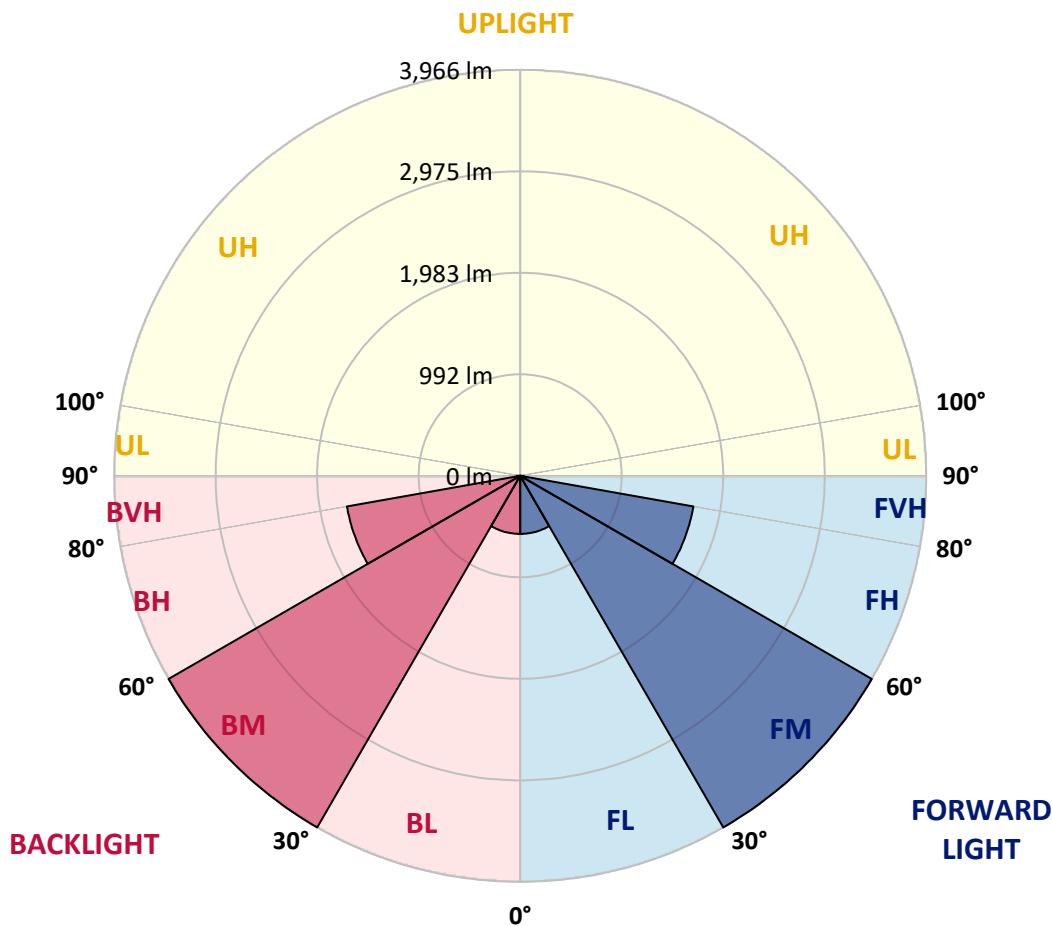
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	567.4	4.5			
FM (30°-60°)	3966.1	31.6			
FH (60°-80°)	1718.8	13.7			G1/1800
FVH (80°-90°)	32.2	0.3			G1/100
BL (0°-30°)	567.4	4.5	B2/1000		
BM (30°-60°)	3966.1	31.6	B3/5000		
BH (60°-80°)	1718.8	13.7	B3/2500		G1/1800
BVH (80°-90°)	32.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9
2.5°	624.9	613.6	574.3	588.1	602.4	600.3	596.8	586.0	576.3	616.7	624.9
5°	796.7	771.1	757.3	746.1	743.5	715.9	753.7	749.6	762.4	783.9	804.9
7.5°	933.7	909.7	873.4	865.7	824.3	793.6	826.4	866.7	879.5	918.9	942.4
10°	983.8	962.9	969.5	935.3	933.2	941.9	934.8	944.0	977.7	973.1	990.5
12.5°	1096.3	1099.9	1078.5	1069.8	1087.1	1125.0	1092.8	1081.5	1073.3	1108.1	1118.8
15°	1201.7	1222.7	1187.4	1181.7	1174.6	1209.9	1175.1	1192.0	1206.8	1214.0	1209.9
17.5°	1351.0	1352.0	1312.7	1249.8	1273.3	1284.5	1269.2	1240.0	1310.1	1345.4	1347.4
20°	1449.2	1452.8	1375.0	1276.9	1343.3	1353.6	1345.9	1285.0	1378.1	1436.9	1434.4
22.5°	1555.0	1542.8	1437.4	1365.8	1389.4	1395.5	1379.1	1371.5	1436.9	1543.8	1527.9
25°	1626.1	1648.6	1543.8	1497.8	1477.8	1463.5	1484.5	1488.6	1555.5	1652.7	1599.0
27.5°	1795.9	1757.0	1592.9	1610.3	1567.8	1471.2	1563.2	1613.8	1599.5	1765.2	1805.6
30°	1946.7	1947.8	1717.6	1750.9	1672.1	1593.9	1693.6	1766.7	1748.8	1961.1	1922.7
32.5°	2139.5	2146.7	1932.9	1844.0	1790.8	1775.9	1763.7	1844.5	1955.9	2127.8	2131.3
35°	2347.6	2409.0	2118.5	2025.0	1934.5	1869.0	1939.6	2051.6	2124.2	2398.8	2350.2
37.5°	2753.1	2649.8	2412.1	2236.2	2178.4	2152.3	2189.6	2254.6	2411.6	2648.3	2731.7
40°	2993.0	2964.3	2640.6	2493.4	2270.4	2340.0	2319.5	2497.5	2627.3	2980.7	2988.4
42.5°	3359.6	3215.4	2924.4	2737.3	2536.8	2416.2	2544.0	2782.8	2939.8	3238.4	3379.6
45°	3649.5	3464.4	3240.0	3097.8	2844.7	2755.2	2801.2	3107.0	3303.9	3508.9	3694.5
47.5°	3970.2	3769.7	3545.2	3292.6	3045.6	3191.4	3110.1	3379.0	3571.3	3865.3	4039.2
50°	4373.1	4151.2	3863.8	3655.2	3491.5	3542.7	3529.9	3721.6	3958.9	4226.9	4424.3
52.5°	4817.0	4565.9	4288.7	4094.9	4025.9	3899.1	4064.8	4143.5	4318.4	4563.9	4795.5
55°	5127.4	4876.3	4708.6	4771.0	4752.5	4549.0	4694.2	4702.4	4618.1	4706.5	4939.7
57.5°	5079.3	4839.5	4816.5	5052.2	5404.5	5601.4	5376.9	4894.2	4578.2	4536.8	4783.7
60°	4441.1	4236.1	4446.8	4978.6	6004.9	6604.2	5740.0	4749.5	4228.9	4013.6	4251.9
62.5°	3060.5	2921.9	3358.6	4190.1	6077.0	7377.8	5726.7	4127.2	3279.8	2889.2	3074.3
65°	1450.7	1400.6	1769.3	2656.5	5061.9	7171.3	5003.1	2792.5	1887.9	1508.0	1549.9
67.5°	545.6	520.6	649.4	1173.6	3188.3	5687.8	3363.2	1377.6	730.2	567.6	587.0
70°	309.9	292.0	308.9	428.0	1283.5	3221.5	1450.7	472.5	310.4	282.8	301.2
72.5°	243.9	230.1	232.7	258.7	442.8	1264.6	469.4	269.5	225.5	214.3	230.6
75°	201.5	189.2	188.7	203.0	258.2	410.6	265.4	206.1	182.6	174.4	187.7
77.5°	160.1	152.9	154.9	166.2	185.1	229.6	192.3	166.7	149.8	140.1	149.3
80°	117.1	116.1	124.3	134.5	138.1	154.4	144.2	134.5	119.7	105.9	109.4
82.5°	76.7	77.2	92.6	100.7	99.2	98.7	103.3	102.8	89.5	70.1	70.1
85°	44.0	45.0	56.8	63.4	62.4	49.6	65.5	66.0	57.3	42.4	40.9
87.5°	14.3	17.9	24.5	26.1	25.1	13.8	25.1	27.6	25.1	17.9	15.9
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)