

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: P367525

Luminaire Tested: **MSA-SA2D-727-U-5WQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367525
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-SA2D-727-U-5WQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12100 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

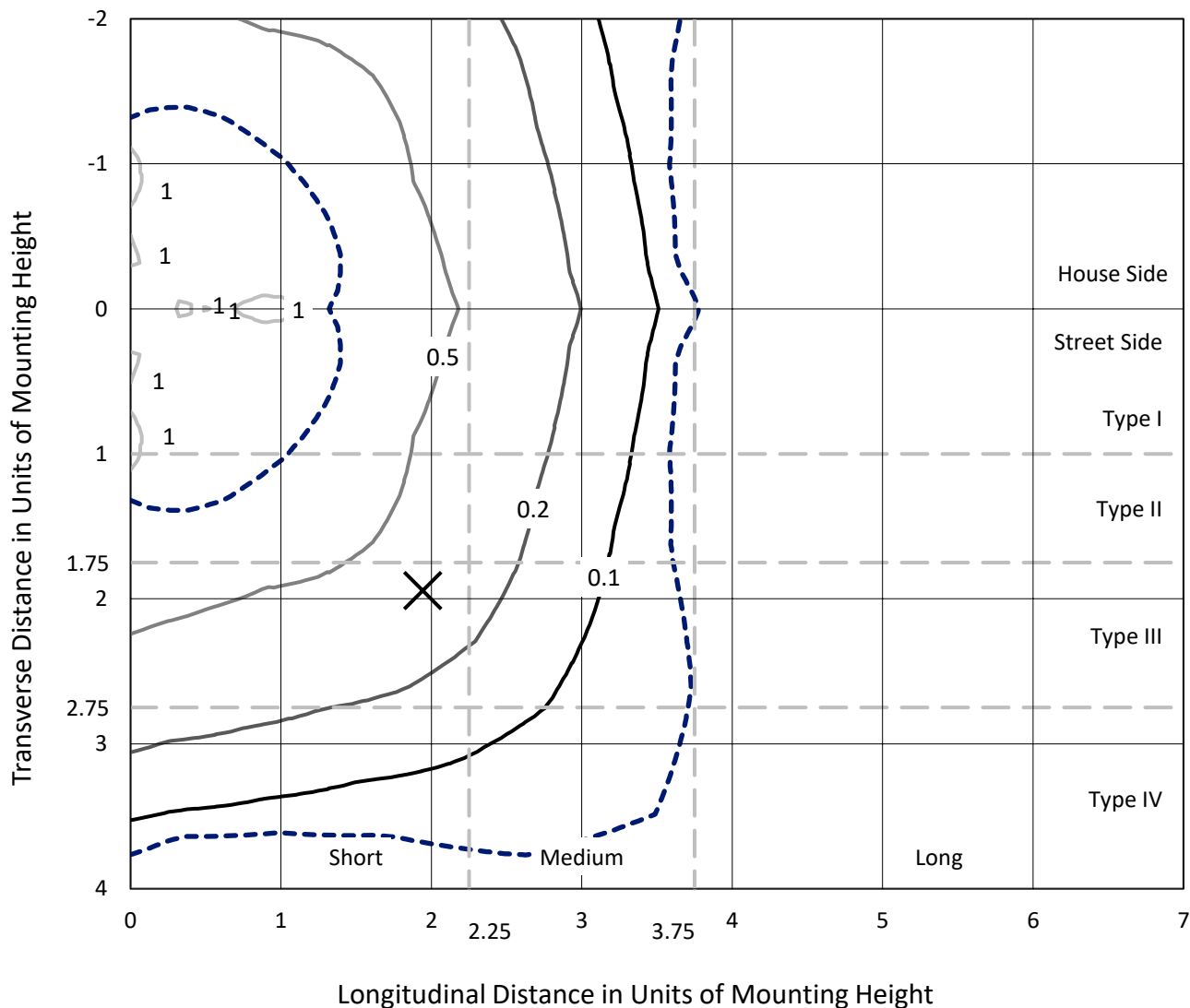
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

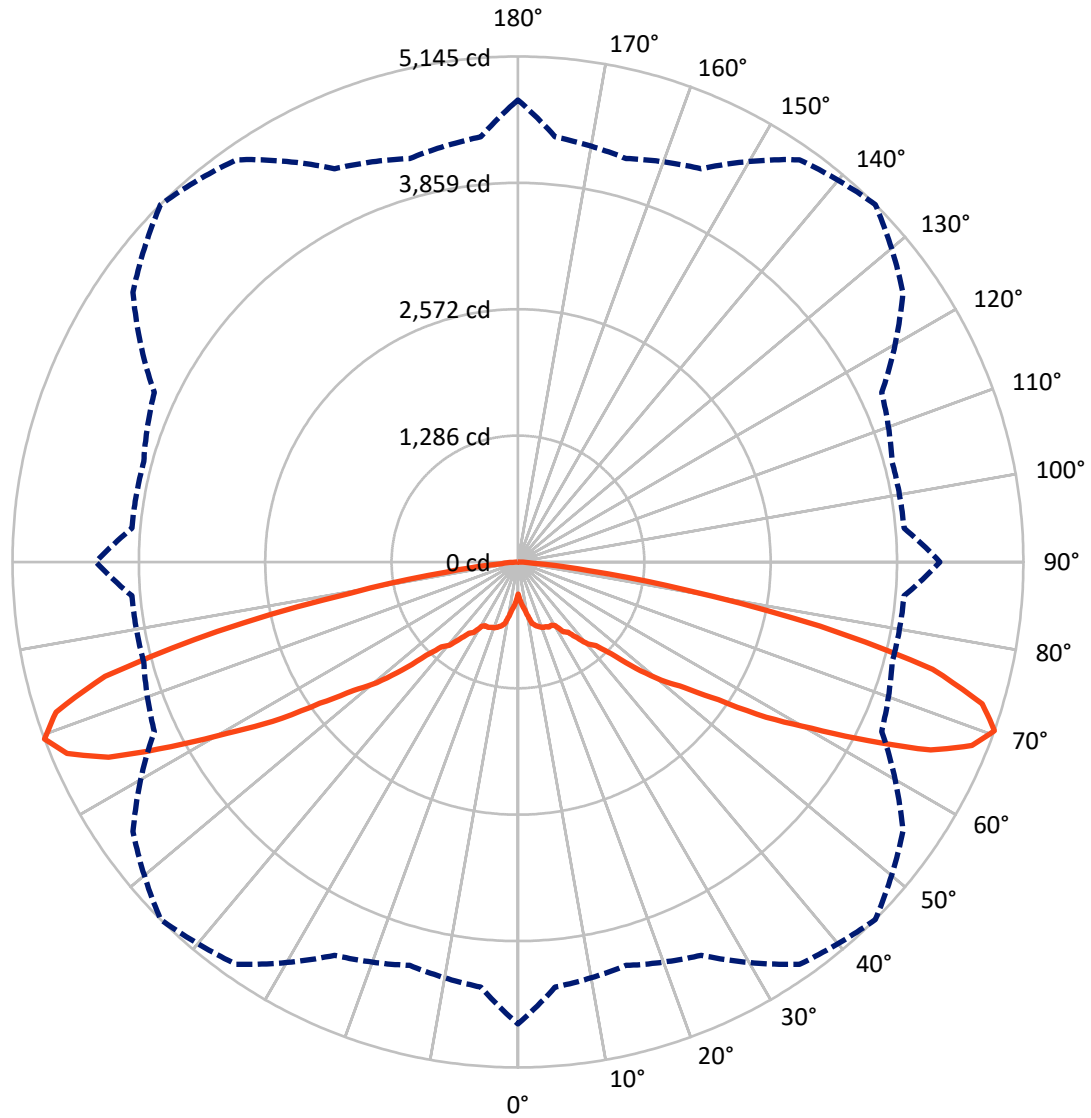
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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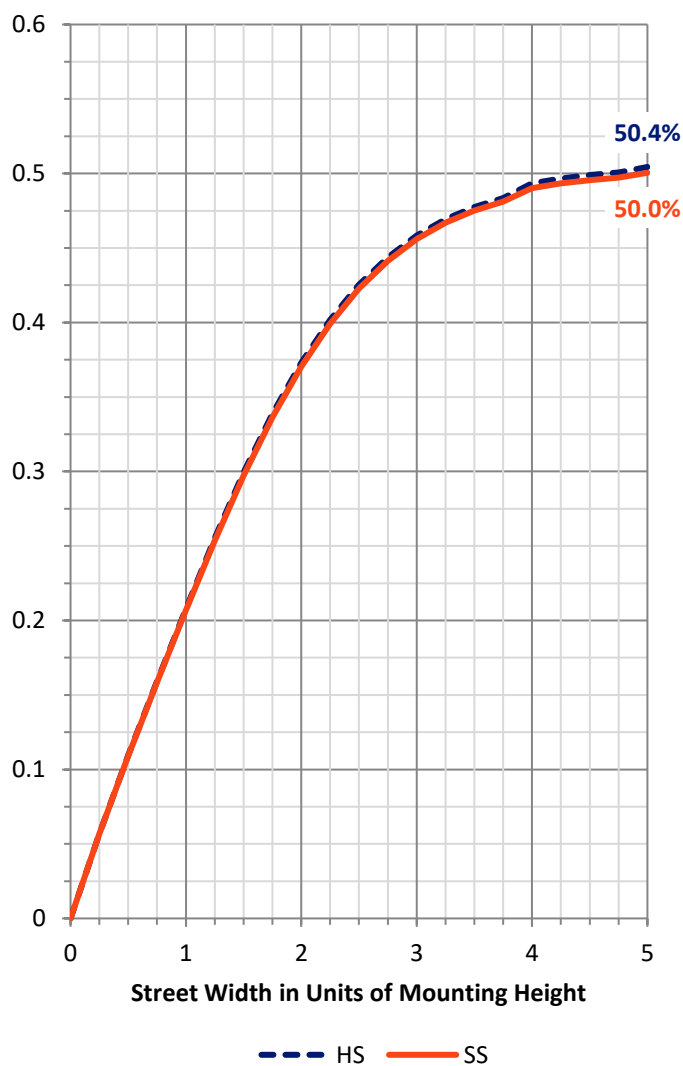
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6050.0	0.0	6050.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6050.0	0.0	6050.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12100.0	0.0	12100.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	0.4
10°-20°	190.5	1.6
20°-30°	360.1	3.0
30°-40°	627.2	5.2
40°-50°	1199.1	9.9
50°-60°	2325.2	19.2
60°-70°	4071.4	33.6
70°-80°	3059.9	25.3
80°-90°	218.9	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°	12100.0	100.0
0°-180°	12100.0	100.0

Coefficient of Utilization

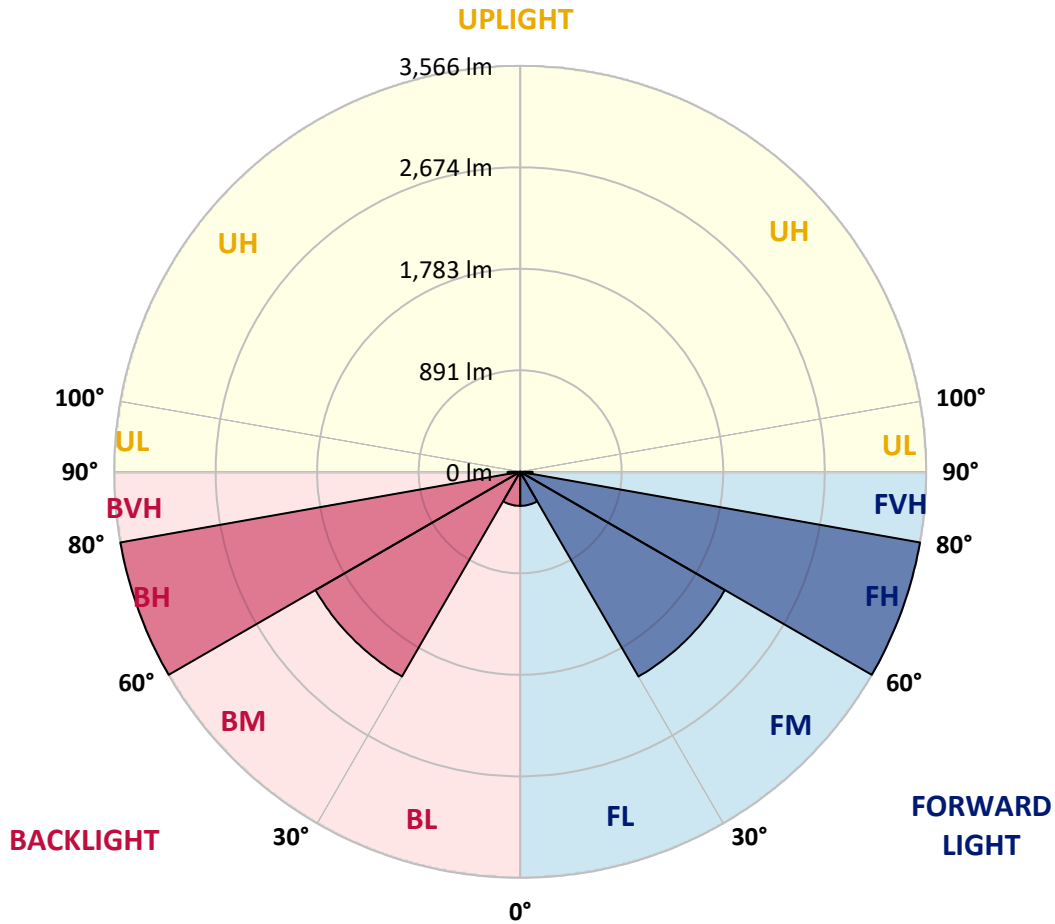


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	299.1	2.5			
FM (30°-60°)	2075.8	17.2			
FH (60°-80°)	3565.7	29.5			G2/5000
FVH (80°-90°)	109.5	0.9			G2/225
BL (0°-30°)	299.1	2.5	B1/500		
BM (30°-60°)	2075.8	17.2	B2/2500		
BH (60°-80°)	3565.7	29.5	B4/5000		G2/5000
BVH (80°-90°)	109.5	0.9			G2/225
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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2	327.2
2.5°	398.1	392.0	372.7	373.6	382.6	383.5	384.4	372.7	369.9	393.8	395.2
5°	505.5	491.5	477.4	471.8	463.3	439.8	465.6	468.5	474.1	492.4	500.9
7.5°	577.4	560.0	540.8	529.0	506.0	486.8	507.9	525.3	536.5	557.2	568.9
10°	591.0	580.7	579.7	559.1	554.8	561.9	560.5	560.9	577.8	578.3	585.3
12.5°	633.7	641.2	626.7	619.6	623.8	641.2	627.1	621.0	625.2	644.5	636.5
15°	689.6	698.5	676.4	665.1	653.9	670.3	655.8	666.6	680.2	694.2	687.2
17.5°	751.5	752.0	721.9	680.2	690.0	692.4	687.2	678.3	717.3	751.0	747.8
20°	785.3	784.8	733.2	676.4	705.5	710.7	706.0	675.5	734.1	780.6	779.2
22.5°	820.1	809.7	747.8	701.8	712.6	716.8	706.0	703.2	747.8	812.5	812.1
25°	838.8	847.7	779.7	751.0	742.1	732.3	741.7	746.4	789.1	852.4	834.1
27.5°	897.5	883.0	789.1	786.3	767.5	728.5	760.9	783.9	786.3	888.6	907.4
30°	950.5	956.2	831.3	835.5	801.3	752.0	802.2	838.8	845.9	957.1	955.2
32.5°	1006.9	1009.2	906.4	862.8	848.2	846.3	827.1	859.0	914.4	1003.6	1007.3
35°	1092.3	1111.6	973.5	914.9	896.6	877.8	894.7	923.3	975.0	1108.7	1099.3
37.5°	1288.0	1257.5	1119.5	998.0	985.8	978.2	991.9	1012.5	1118.1	1260.8	1304.5
40°	1424.6	1410.1	1222.3	1135.5	1058.5	1098.9	1067.0	1146.8	1234.1	1411.0	1439.2
42.5°	1636.3	1571.6	1378.6	1271.1	1191.3	1162.7	1180.6	1284.8	1396.0	1593.2	1648.5
45°	1839.6	1739.6	1574.4	1479.6	1358.5	1328.4	1352.4	1474.9	1603.5	1759.3	1857.0
47.5°	2047.1	1943.8	1762.1	1625.1	1526.0	1615.7	1537.3	1653.7	1781.9	1963.1	2049.9
50°	2262.5	2148.0	1968.7	1819.4	1811.0	1890.3	1796.4	1856.0	1974.8	2162.5	2264.9
52.5°	2509.9	2386.5	2207.1	2106.2	2125.9	2120.8	2102.0	2091.2	2208.1	2392.6	2514.1
55°	2804.2	2670.9	2527.7	2481.3	2535.7	2477.0	2504.7	2501.0	2517.9	2649.8	2792.0
57.5°	3160.0	3009.4	2865.7	2855.4	2925.3	2980.7	2931.4	2860.6	2831.0	2959.1	3122.0
60°	3608.3	3423.4	3265.6	3233.3	3432.8	3432.3	3387.7	3229.0	3217.8	3362.8	3559.0
62.5°	4103.5	3878.2	3706.0	3654.3	3966.9	4002.1	3863.2	3578.7	3636.9	3753.8	3986.7
65°	4524.1	4253.3	4092.7	4078.7	4460.8	4616.1	4309.1	3920.0	3938.8	4035.9	4288.0
67.5°	4798.3	4472.0	4344.3	4412.4	4887.4	4984.6	4699.2	4148.1	4081.5	4121.8	4423.2
70°	4702.0	4343.4	4251.4	4416.6	4997.8	5144.7	4783.2	4084.3	3942.5	3944.4	4294.6
72.5°	3973.0	3631.8	3675.4	3978.7	4736.8	4942.8	4394.6	3689.1	3399.0	3391.9	3709.7
75°	2627.3	2399.1	2571.4	3044.1	3937.8	4359.4	3641.2	2891.5	2527.7	2409.5	2655.0
77.5°	1149.1	1120.0	1265.0	1799.2	2684.5	3141.7	2608.5	1888.9	1374.9	1143.5	1249.1
80°	307.9	301.4	378.3	682.5	1306.8	1730.2	1411.5	753.4	393.4	286.3	303.7
82.5°	112.2	115.0	140.4	191.0	430.4	728.5	468.9	220.2	148.8	122.0	122.0
85°	48.8	47.4	68.1	76.5	117.4	164.8	134.7	93.4	75.1	56.3	54.0
87.5°	13.1	16.4	23.0	23.9	30.5	24.9	35.7	32.9	28.2	19.7	16.0
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)