

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: P367260

Luminaire Tested: **MSA-SA2B-727-U-5NQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367260
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-SA2B-727-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: 8524 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

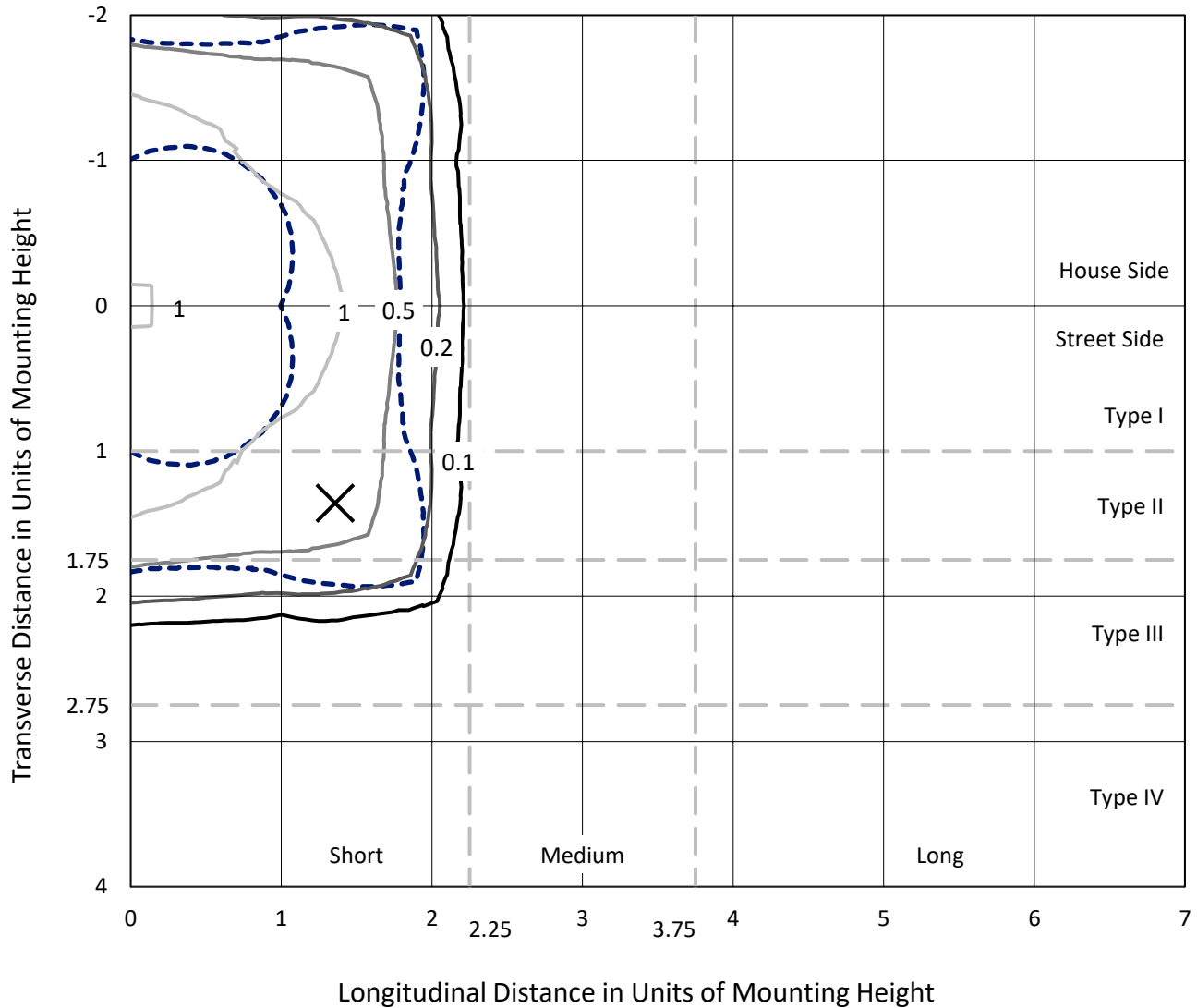
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

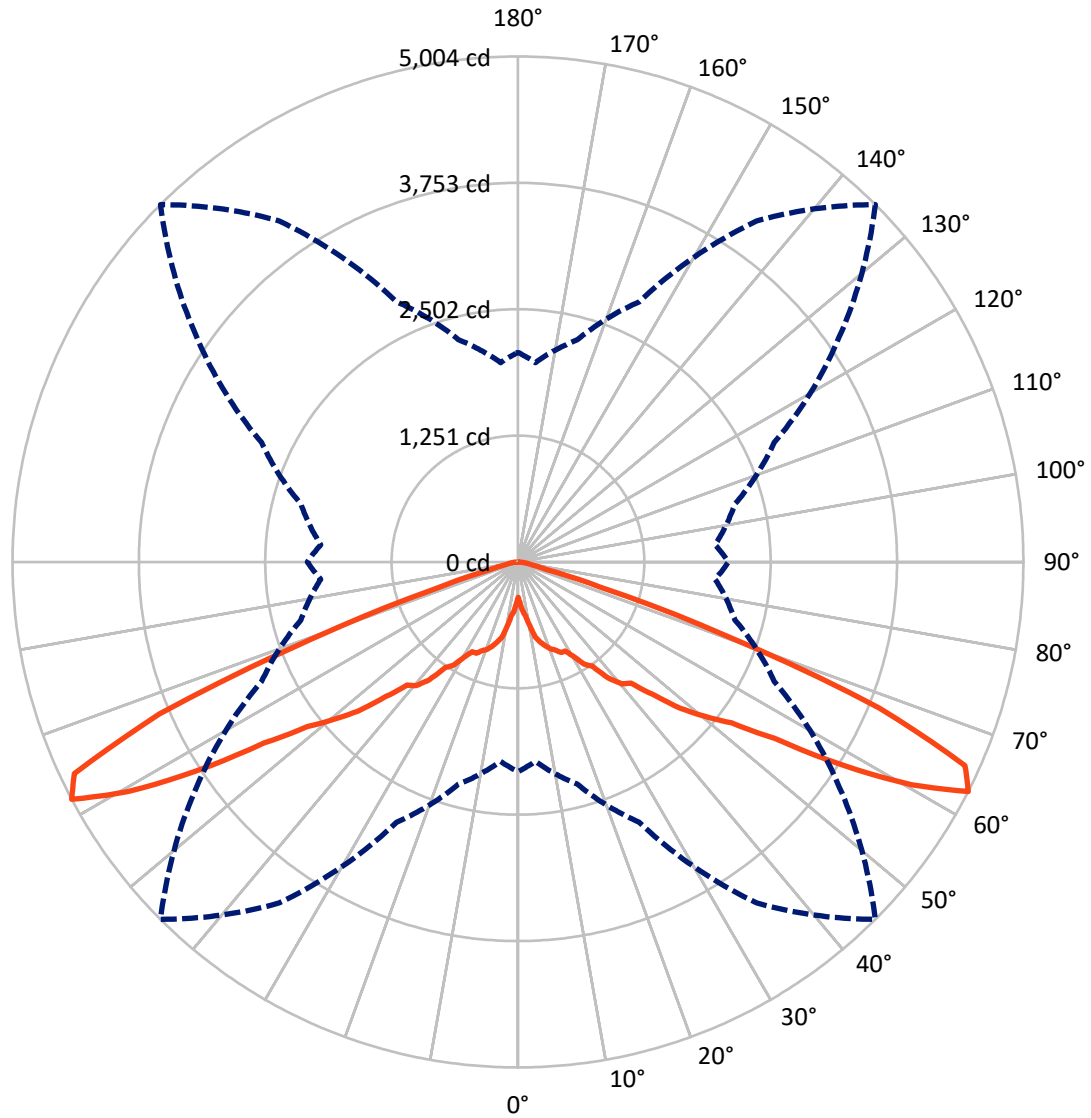
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - N/A

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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	4262.0	0.0	4262.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4262.0	0.0	4262.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8524.0	0.0	8524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	0.6
10°-20°	231.6	2.7
20°-30°	485.4	5.7
30°-40°	914.6	10.7
40°-50°	1660.0	19.5
50°-60°	2804.8	32.9
60°-70°	2096.8	24.6
70°-80°	234.6	2.8
80°-90°	43.6	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°	8524.0	100.0
0°-180°	8524.0	100.0

Coefficient of Utilization



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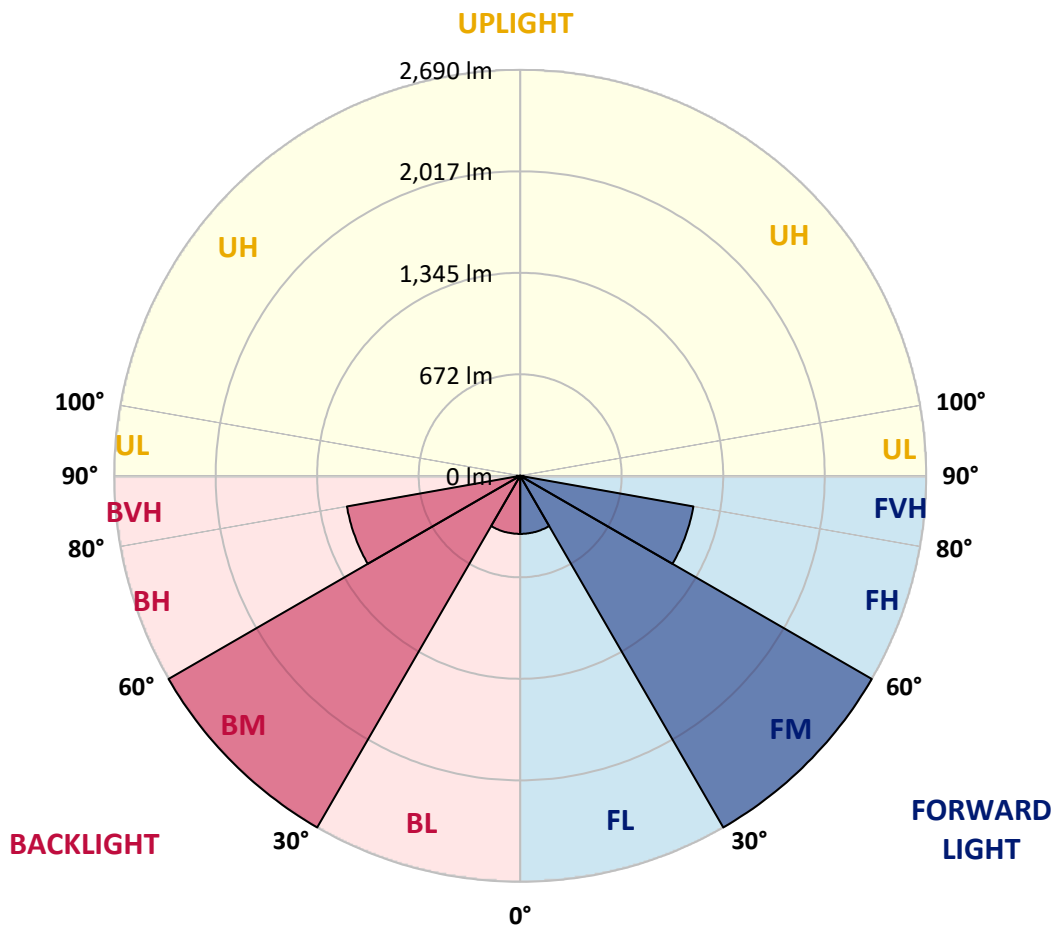
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.8	4.5			
FM (30°-60°)	2689.7	31.6			
FH (60°-80°)	1165.7	13.7			G1/1800
FVH (80°-90°)	21.8	0.3			G1/100
BL (0°-30°)	384.8	4.5	B1/500		
BM (30°-60°)	2689.7	31.6	B3/5000		
BH (60°-80°)	1165.7	13.7	B3/2500		G1/1800
BVH (80°-90°)	21.8	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°	348.5	348.5	348.5	348.5	348.5	348.5	348.5	348.5	348.5	348.5	348.5
2.5°	423.8	416.1	389.4	398.8	408.5	407.1	404.7	397.4	390.8	418.2	423.8
5°	540.3	523.0	513.6	506.0	504.2	485.5	511.2	508.4	517.1	531.6	545.8
7.5°	633.2	616.9	592.3	587.1	559.0	538.2	560.4	587.8	596.5	623.2	639.1
10°	667.2	653.0	657.5	634.3	632.9	638.8	633.9	640.2	663.1	659.9	671.7
12.5°	743.5	745.9	731.4	725.5	737.3	762.9	741.1	733.5	727.9	751.5	758.8
15°	815.0	829.2	805.2	801.4	796.6	820.5	796.9	808.4	818.4	823.3	820.5
17.5°	916.2	916.9	890.2	847.6	863.5	871.1	860.7	841.0	888.5	912.4	913.8
20°	982.8	985.2	932.5	865.9	911.0	918.0	912.8	871.5	934.6	974.5	972.7
22.5°	1054.6	1046.3	974.8	926.3	942.2	946.4	935.3	930.1	974.5	1047.0	1036.2
25°	1102.8	1118.0	1047.0	1015.7	1002.2	992.5	1006.7	1009.5	1054.9	1120.8	1084.4
27.5°	1217.9	1191.6	1080.2	1092.0	1063.3	997.7	1060.1	1094.5	1084.8	1197.1	1224.5
30°	1320.2	1320.9	1164.9	1187.4	1134.0	1080.9	1148.6	1198.2	1186.0	1329.9	1303.9
32.5°	1451.0	1455.8	1310.9	1250.5	1214.5	1204.4	1196.1	1250.9	1326.5	1443.0	1445.4
35°	1592.1	1633.7	1436.7	1373.3	1311.9	1267.5	1315.4	1391.3	1440.6	1626.8	1593.8
37.5°	1867.1	1797.1	1635.8	1516.5	1477.3	1459.6	1485.0	1529.0	1635.5	1796.0	1852.6
40°	2029.8	2010.3	1790.8	1690.9	1539.7	1586.9	1573.0	1693.7	1781.8	2021.4	2026.6
42.5°	2278.4	2180.6	1983.3	1856.4	1720.4	1638.6	1725.3	1887.2	1993.7	2196.2	2291.9
45°	2475.0	2349.5	2197.3	2100.9	1929.2	1868.5	1899.7	2107.1	2240.6	2379.7	2505.6
47.5°	2692.5	2556.5	2404.3	2233.0	2065.5	2164.3	2109.2	2291.6	2422.0	2621.4	2739.3
50°	2965.7	2815.2	2620.3	2478.9	2367.9	2402.6	2393.9	2523.9	2684.8	2866.6	3000.4
52.5°	3266.8	3096.5	2908.5	2777.1	2730.3	2644.3	2756.6	2810.0	2928.6	3095.1	3252.2
55°	3477.3	3307.0	3193.2	3235.5	3223.1	3085.0	3183.5	3189.1	3131.9	3191.9	3350.0
57.5°	3444.7	3282.0	3266.4	3426.3	3665.2	3798.7	3646.5	3319.1	3104.8	3076.7	3244.2
60°	3011.9	2872.8	3015.7	3376.3	4072.4	4478.8	3892.7	3221.0	2868.0	2722.0	2883.6
62.5°	2075.5	1981.6	2277.7	2841.6	4121.2	5003.5	3883.7	2798.9	2224.3	1959.4	2084.9
65°	983.8	949.9	1199.9	1801.6	3432.9	4863.4	3393.0	1893.8	1280.3	1022.7	1051.1
67.5°	370.0	353.0	440.4	795.9	2162.2	3857.3	2280.8	934.3	495.2	384.9	398.1
70°	210.2	198.0	209.5	290.3	870.4	2184.8	983.8	320.4	210.5	191.8	204.3
72.5°	165.4	156.1	157.8	175.5	300.3	857.6	318.4	182.8	152.9	145.3	156.4
75°	136.6	128.3	128.0	137.7	175.1	278.5	180.0	139.8	123.8	118.3	127.3
77.5°	108.5	103.7	105.1	112.7	125.5	155.7	130.4	113.1	101.6	95.0	101.3
80°	79.4	78.7	84.3	91.2	93.6	104.7	97.8	91.2	81.1	71.8	74.2
82.5°	52.0	52.4	62.8	68.3	67.3	66.9	70.1	69.7	60.7	47.5	47.5
85°	29.8	30.5	38.5	43.0	42.3	33.6	44.4	44.7	38.8	28.8	27.7
87.5°	9.7	12.1	16.6	17.7	17.0	9.4	17.0	18.7	17.0	12.1	10.8
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)