

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: P596077

Luminaire Tested: **MSA-SA3A-AMB-U-5MQ**

Issue Date: 4/29/2022

Test Information

Test Method: LM-79-08
Report Number: P596077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2109-400-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 4/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA3A-AMB-U-5MQ
Description: POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH
AND TYPE V MEDIUM OPTICS.
Light Source: (48) 1549K CCT, -21.5 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2567 lumens
Efficiency: N/A
Efficacy: 42.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

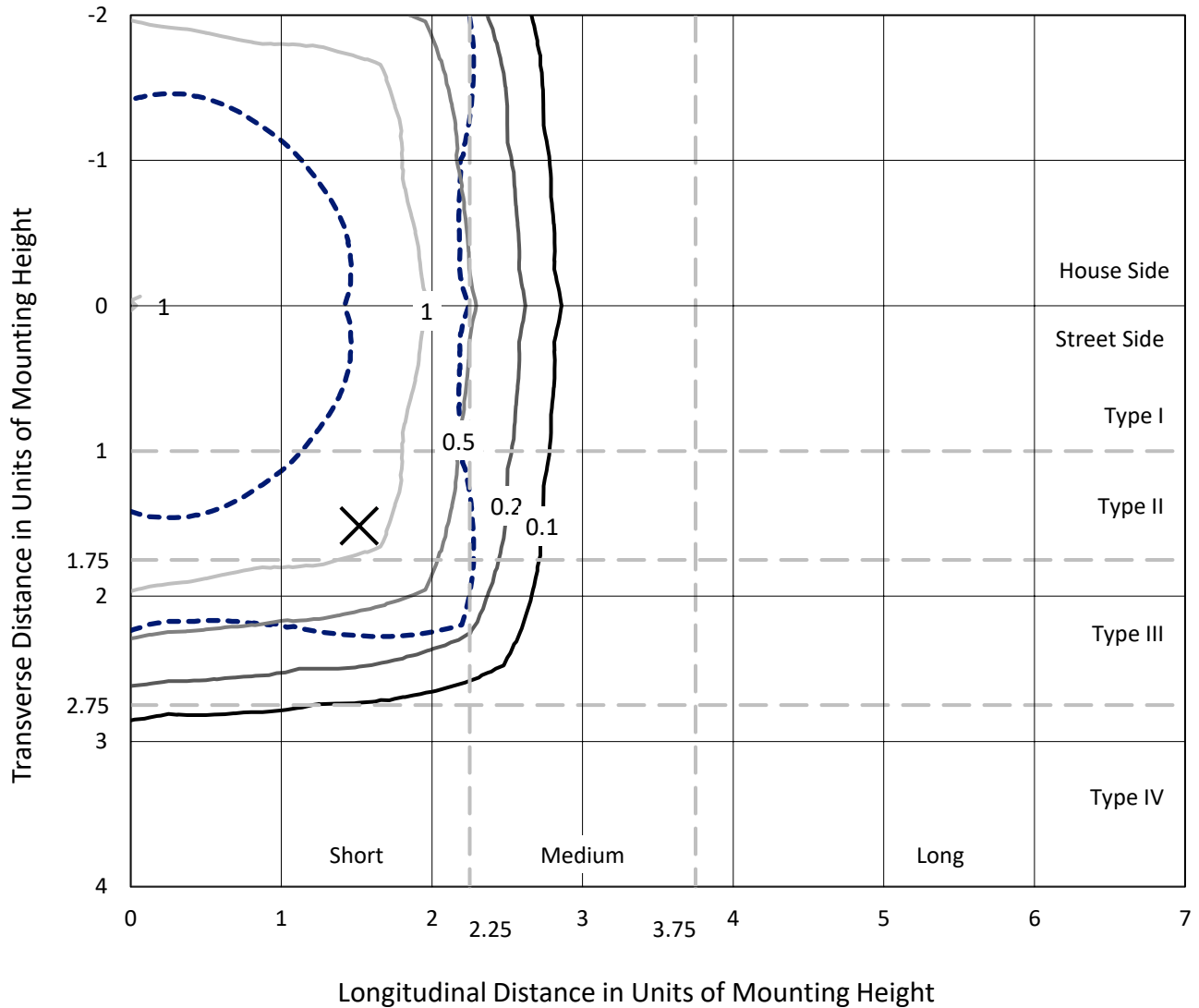
Input Watts (W): 59.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

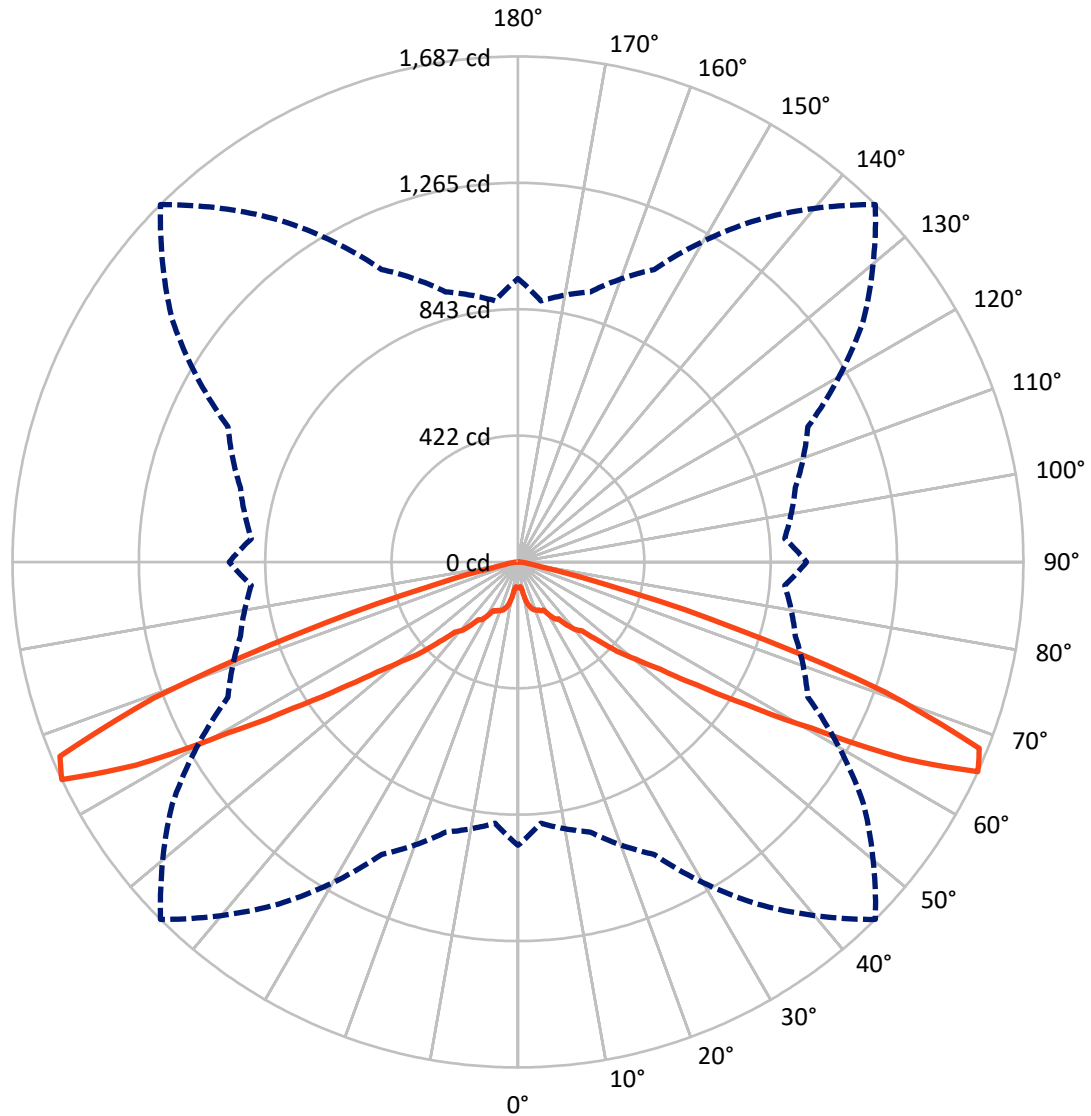
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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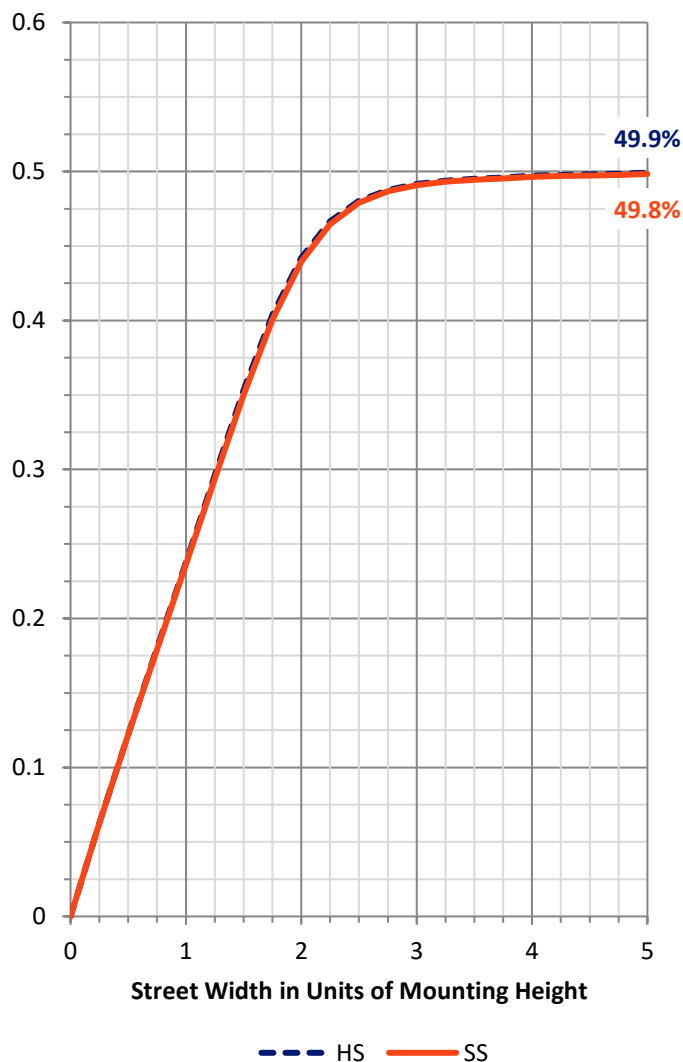
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1283.5	0.0	1283.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1283.5	0.0	1283.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2567.0	0.0	2567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.4
10°-20°	43.1	1.7
20°-30°	86.8	3.4
30°-40°	164.1	6.4
40°-50°	327.0	12.7
50°-60°	700.6	27.3
60°-70°	1011.5	39.4
70°-80°	206.5	8.0
80°-90°	16.9	0.7
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°	2567.0	100.0
0°-180°	2567.0	100.0

Coefficient of Utilization



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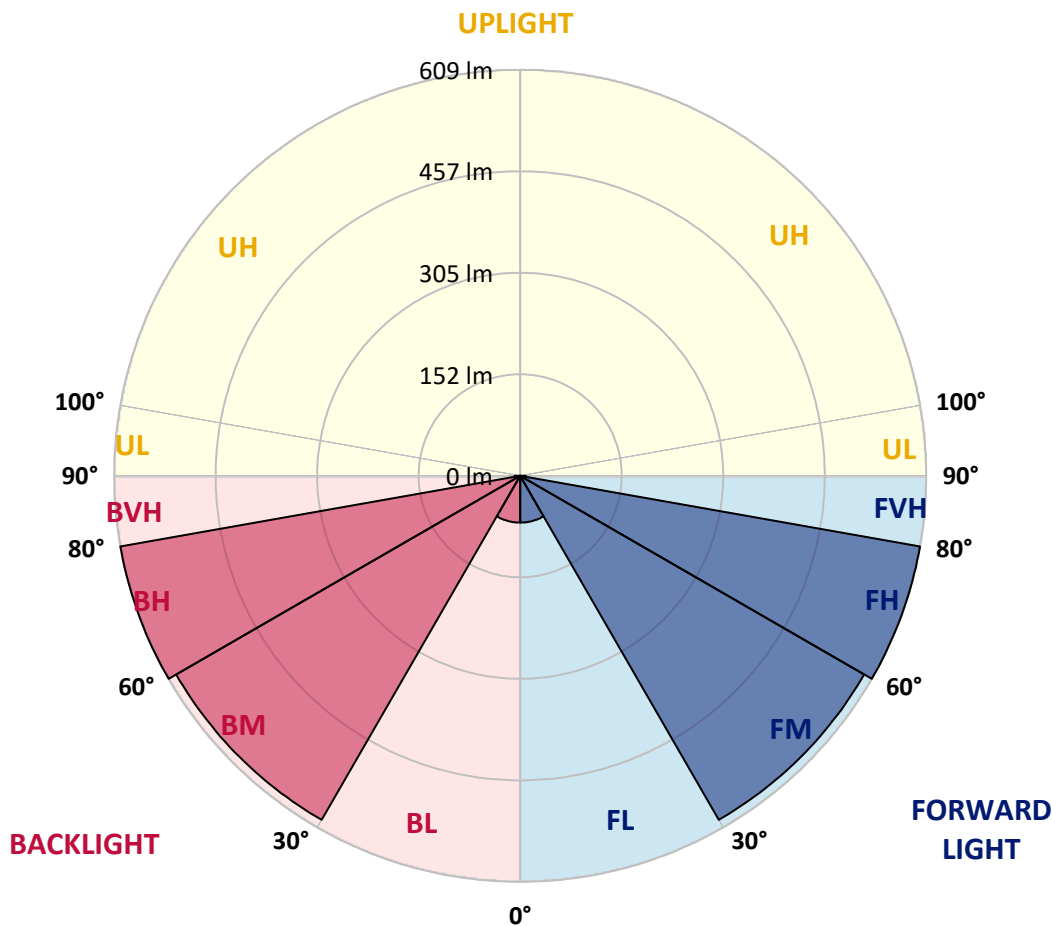
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	70.2	2.7			
FM (30°-60°)	595.8	23.2			
FH (60°-80°)	609.0	23.7			G0/660
FVH (80°-90°)	8.5	0.3			G0/10
BL (0°-30°)	70.2	2.7	B0/110		
BM (30°-60°)	595.8	23.2	B1/1000		
BH (60°-80°)	609.0	23.7	B2/1000		G0/660
BVH (80°-90°)	8.5	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
2.5°	105.4	93.4	92.6	85.4	83.8	86.2	83.8	83.8	93.4	94.2	104.6
5°	127.7	116.5	115.0	101.4	87.8	83.0	88.6	99.0	115.0	118.1	130.1
7.5°	142.9	132.5	127.7	114.2	99.8	91.0	99.8	114.2	127.7	130.9	140.5
10°	137.3	133.3	128.5	116.5	118.1	119.7	117.3	118.1	131.7	133.3	137.3
12.5°	137.3	137.3	138.9	135.7	138.1	142.9	140.5	136.5	141.3	140.5	145.3
15°	146.9	147.7	148.5	148.5	151.7	157.3	154.1	150.9	152.5	149.3	149.3
17.5°	158.9	162.0	158.9	158.9	163.6	166.8	163.6	160.5	159.7	164.4	161.2
20°	172.4	173.2	166.0	162.0	169.2	171.6	170.8	163.6	168.4	171.6	170.8
22.5°	186.0	184.4	173.2	166.0	171.6	174.0	169.2	166.8	175.6	186.0	186.0
25°	192.4	196.4	186.0	181.2	178.8	180.4	181.2	181.2	186.0	196.4	197.2
27.5°	209.9	208.3	190.0	194.8	190.8	182.0	191.6	195.6	190.0	208.3	213.1
30°	228.3	230.7	204.4	209.9	208.3	205.2	209.9	209.9	207.5	233.1	225.1
32.5°	254.6	249.9	229.9	223.5	223.5	226.7	220.3	224.3	235.5	257.0	259.4
35°	275.4	280.2	252.3	245.1	241.9	233.1	242.7	245.9	257.0	284.2	281.8
37.5°	326.5	312.1	283.4	272.2	265.8	268.2	271.4	276.2	288.2	322.5	328.1
40°	360.0	355.2	320.1	307.3	285.8	297.0	292.2	311.3	329.7	368.0	379.2
42.5°	415.9	405.5	368.0	352.8	331.3	314.5	330.5	352.8	380.8	423.1	432.7
45°	476.6	451.0	419.9	402.3	376.0	372.0	379.2	408.7	422.3	466.2	486.1
47.5°	541.2	513.3	479.0	455.0	426.3	445.4	435.9	463.8	490.1	521.3	552.4
50°	611.5	581.9	548.4	520.5	506.1	509.3	512.5	529.2	558.8	592.3	621.8
52.5°	705.7	667.3	625.8	607.5	617.1	595.5	621.8	611.5	633.8	676.1	709.7
55°	847.8	809.4	758.4	739.2	738.4	724.8	744.0	727.2	740.0	787.9	837.4
57.5°	997.8	938.0	898.0	889.3	901.2	897.2	898.8	891.7	907.6	950.7	1005.0
60°	1109.6	1044.1	1034.6	1041.7	1105.6	1127.1	1100.0	1046.5	1046.5	1066.5	1137.5
62.5°	1112.0	1043.3	1057.7	1109.6	1312.3	1444.9	1309.2	1126.4	1076.9	1055.3	1133.5
65°	945.9	874.9	933.2	1076.9	1393.8	1686.7	1408.1	1067.3	958.7	893.3	963.5
67.5°	641.8	590.7	664.2	852.5	1251.7	1660.4	1257.3	843.0	665.8	570.0	637.8
70°	326.5	297.8	364.0	499.7	865.3	1297.2	862.9	505.3	360.0	299.3	334.5
72.5°	140.5	130.9	158.9	231.5	453.4	760.7	461.4	226.7	144.5	124.5	138.1
75°	63.1	60.7	68.7	86.2	166.8	309.7	166.0	77.4	63.9	61.5	68.7
77.5°	44.7	43.1	46.3	49.5	61.5	85.4	63.9	49.5	44.7	43.9	46.3
80°	31.1	30.3	33.5	37.5	39.1	41.5	40.7	39.1	35.1	30.3	31.9
82.5°	15.2	16.0	23.9	26.3	27.9	26.3	29.5	27.9	24.7	17.6	17.6
85°	8.0	8.8	15.2	16.0	16.8	12.8	16.0	16.8	16.0	10.4	9.6
87.5°	3.2	4.8	5.6	5.6	5.6	3.2	5.6	7.2	6.4	5.6	3.2
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)