

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: P366819

Luminaire Tested: **MSA-SA1B-760-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: MSA-SA1B-760-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS
EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5455 lumens
Efficiency: N/A
Efficacy: 124.0 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): 44
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: 24 FT

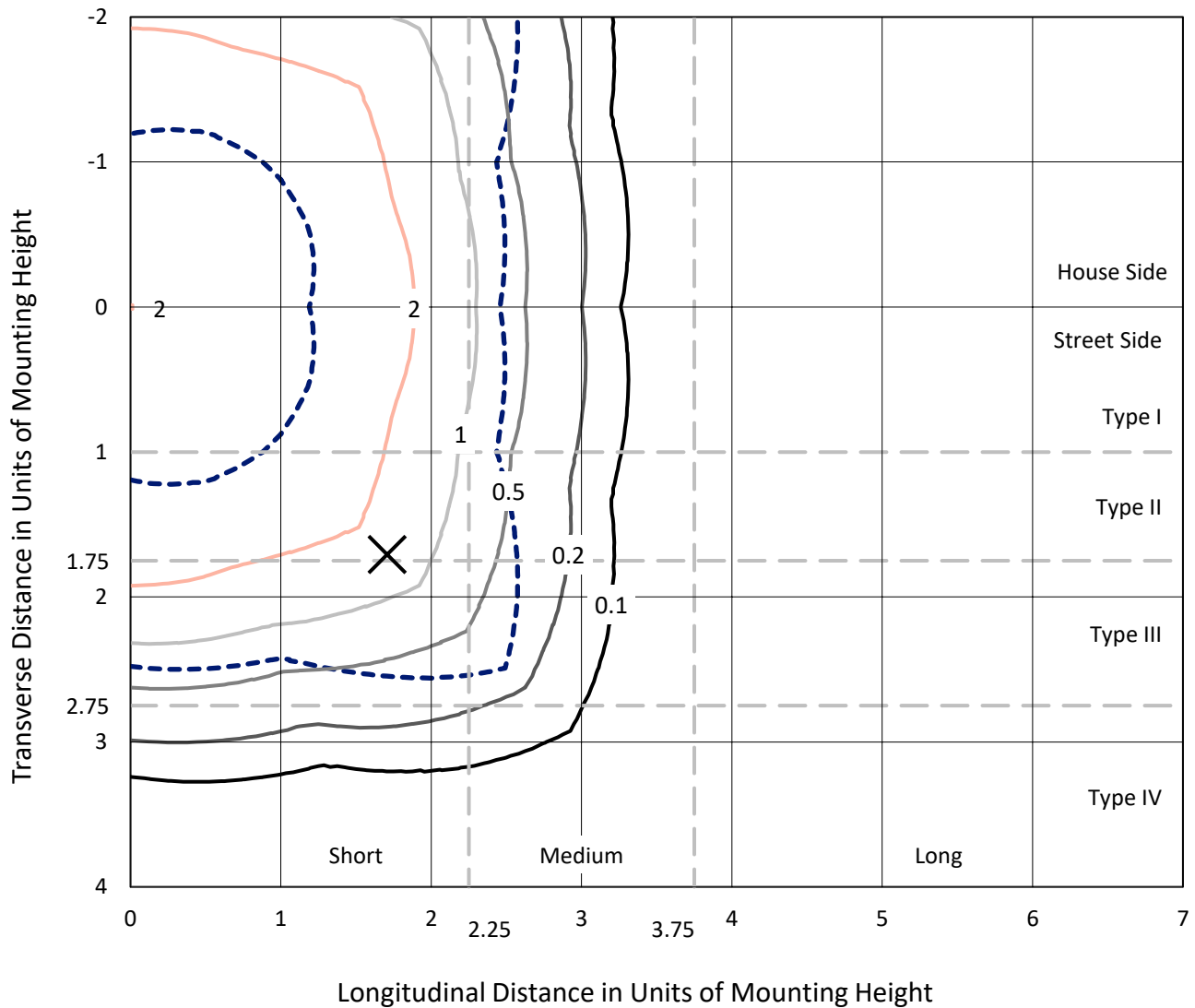


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Iso-Footcandle Lines of Horizontal Illumination

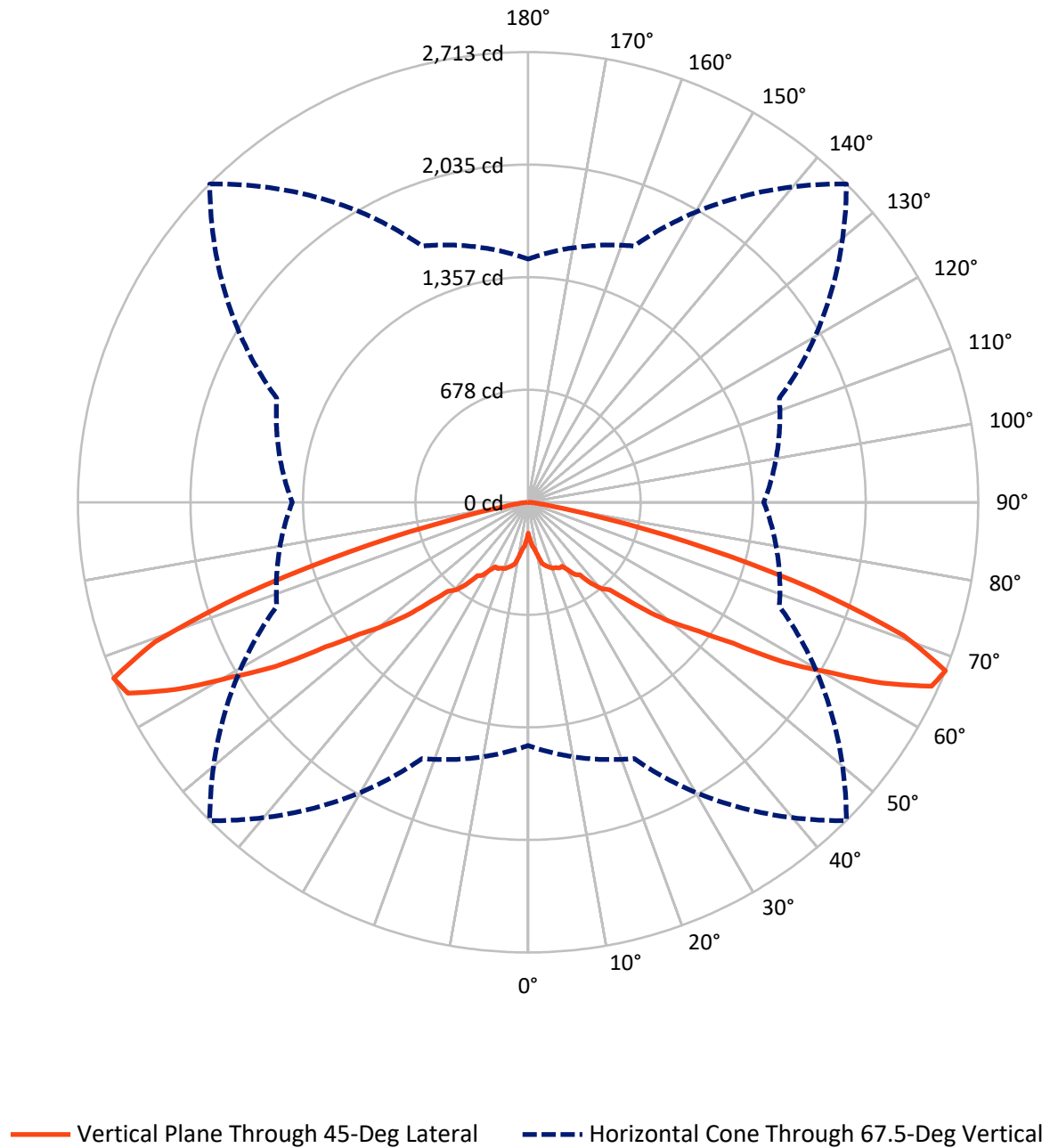
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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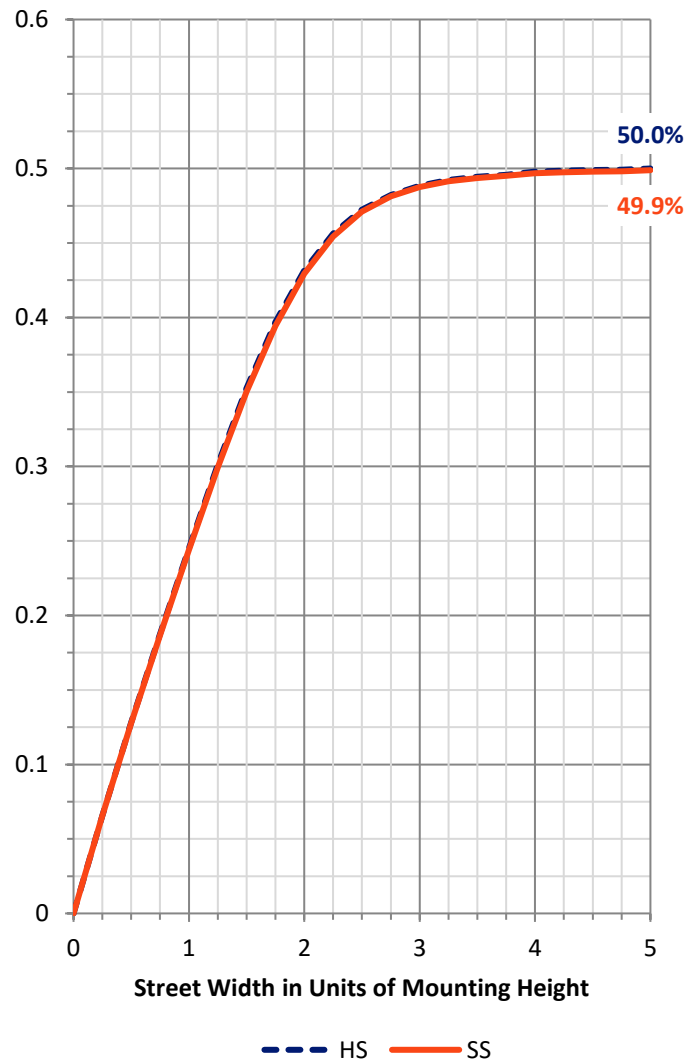
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2727.5	0.0	2727.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2727.5	0.0	2727.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5455.0	0.0	5455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.9	0.5
10°-20°	110.2	2.0
20°-30°	210.3	3.9
30°-40°	384.5	7.0
40°-50°	745.5	13.7
50°-60°	1423.6	26.1
60°-70°	1923.5	35.3
70°-80°	597.4	11.0
80°-90°	32.2	0.6
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°	5455.0	100.0
0°-180°	5455.0	100.0

Coefficient of Utilization



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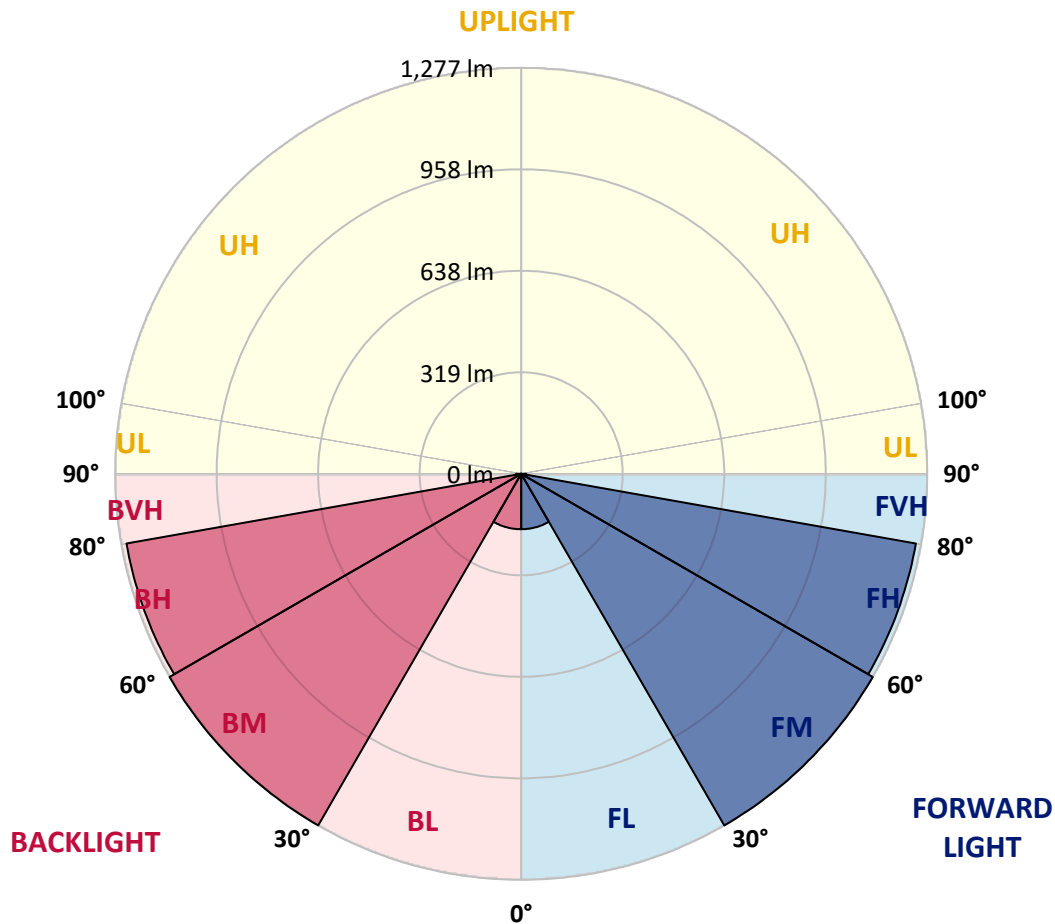
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	174.2	3.2			
FM	(30°-60°)	1276.8	23.4			
FH	(60°-80°)	1260.4	23.1			G1/1800
FVH	(80°-90°)	16.1	0.3			G1/100
BL	(0°-30°)	174.2	3.2	B1/500		
BM	(30°-60°)	1276.8	23.4	B2/2500		
BH	(60°-80°)	1260.4	23.1	B3/2500		G1/1800
BVH	(80°-90°)	16.1	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°	22.5°	45°	67.5°	90°
0°	186.9	186.9	186.9	186.9	186.9
2.5°	230.1	215.4	222.1	215.4	230.1
5°	292.5	277.1	263.6	273.3	293.4
7.5°	336.1	313.2	284.7	310.6	334.2
10°	343.5	330.7	329.4	329.2	342.7
12.5°	371.1	362.5	379.8	363.3	372.0
15°	392.6	387.8	395.6	393.9	393.5
17.5°	425.9	393.0	410.7	391.1	424.9
20°	440.7	394.1	423.8	391.8	440.5
22.5°	458.8	419.0	427.8	420.0	457.1
25°	469.1	435.0	438.1	435.4	469.3
27.5°	511.5	470.4	436.7	476.1	519.3
30°	543.7	493.4	471.2	494.0	547.7
32.5°	590.3	527.7	519.1	536.1	597.7
35°	648.0	585.4	537.0	585.7	660.3
37.5°	761.2	637.9	620.9	656.5	769.6
40°	841.1	720.7	684.3	734.0	854.8
42.5°	963.7	813.7	721.2	820.4	984.8
45°	1078.0	926.4	838.8	934.2	1093.3
47.5°	1198.7	1029.9	997.0	1039.6	1210.1
50°	1341.4	1170.0	1147.1	1181.0	1346.2
52.5°	1509.8	1357.6	1289.7	1363.9	1511.5
55°	1709.8	1515.0	1499.9	1532.3	1712.3
57.5°	1905.3	1719.0	1816.4	1720.9	1871.4
60°	2044.8	1907.0	2076.7	1858.5	1969.6
62.5°	2053.7	2046.3	2400.8	1964.1	1948.5
65°	1862.3	1990.0	2672.2	1925.8	1768.8
67.5°	1465.9	1671.8	2713.3	1639.4	1421.0
70°	921.2	1157.6	2398.7	1202.1	947.3
72.5°	424.9	623.8	1806.3	702.2	449.1
75°	152.2	238.8	1114.4	256.5	159.1
77.5°	86.4	96.7	492.5	97.2	89.4
80°	55.6	60.3	142.3	63.6	54.2
82.5°	31.6	42.1	62.4	44.7	29.1
85°	17.1	26.8	27.6	27.4	17.1
87.5°	6.1	10.5	6.1	12.0	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)