

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: P367809

Luminaire Tested: **MSA-SA3B-730-U-5MQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367809
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-SA3B-730-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14420 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

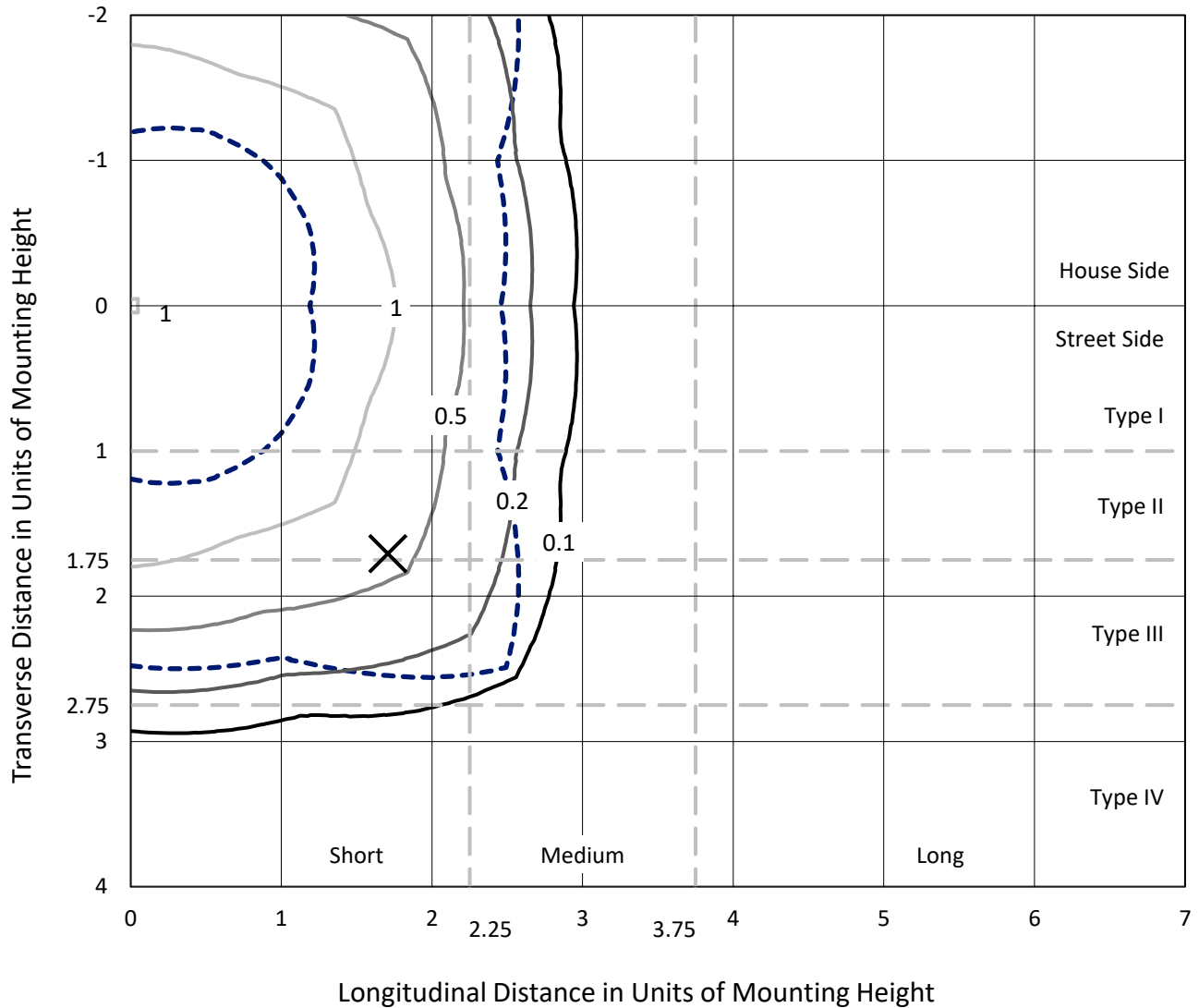
Input Watts (W): 126
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

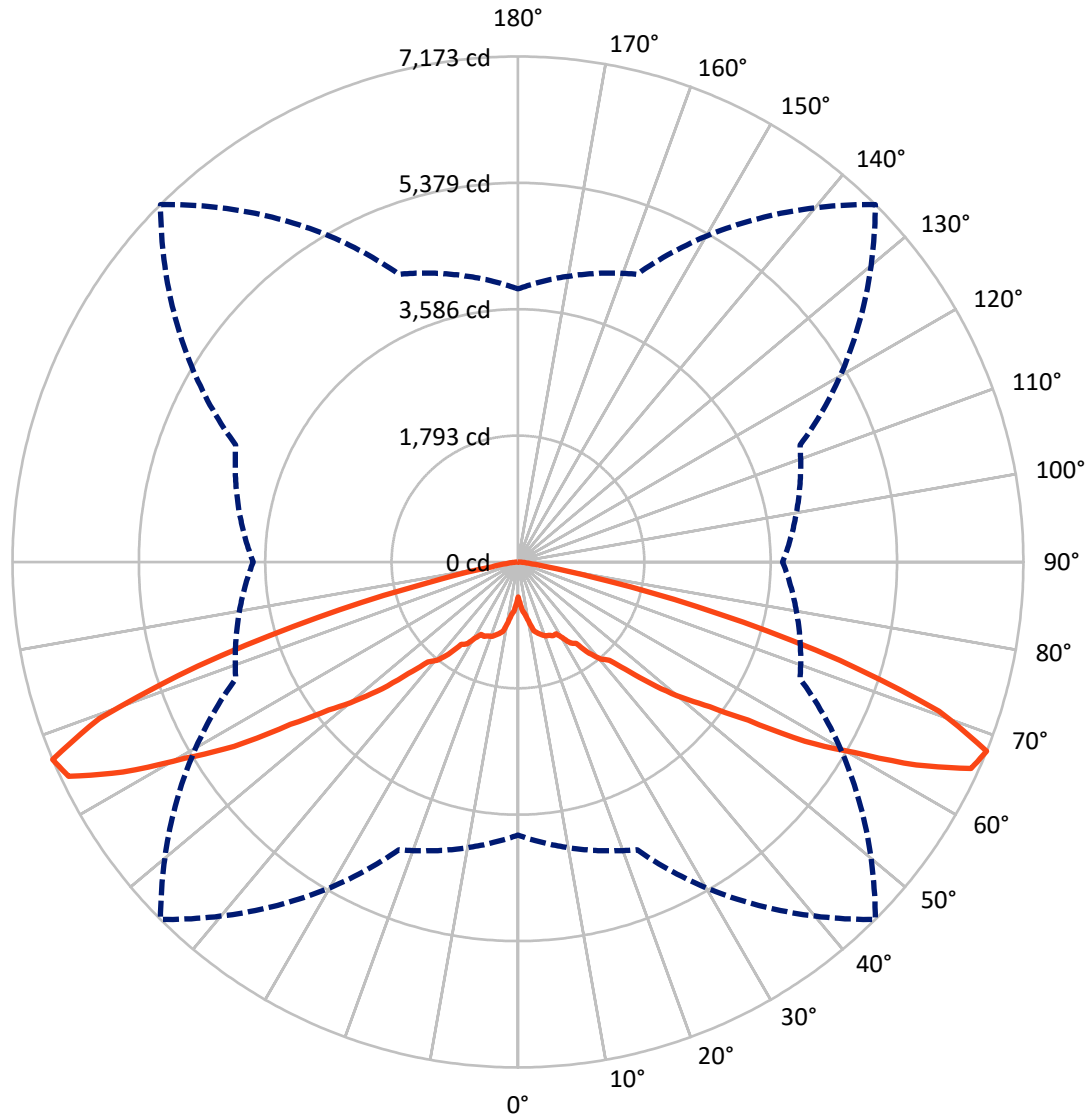
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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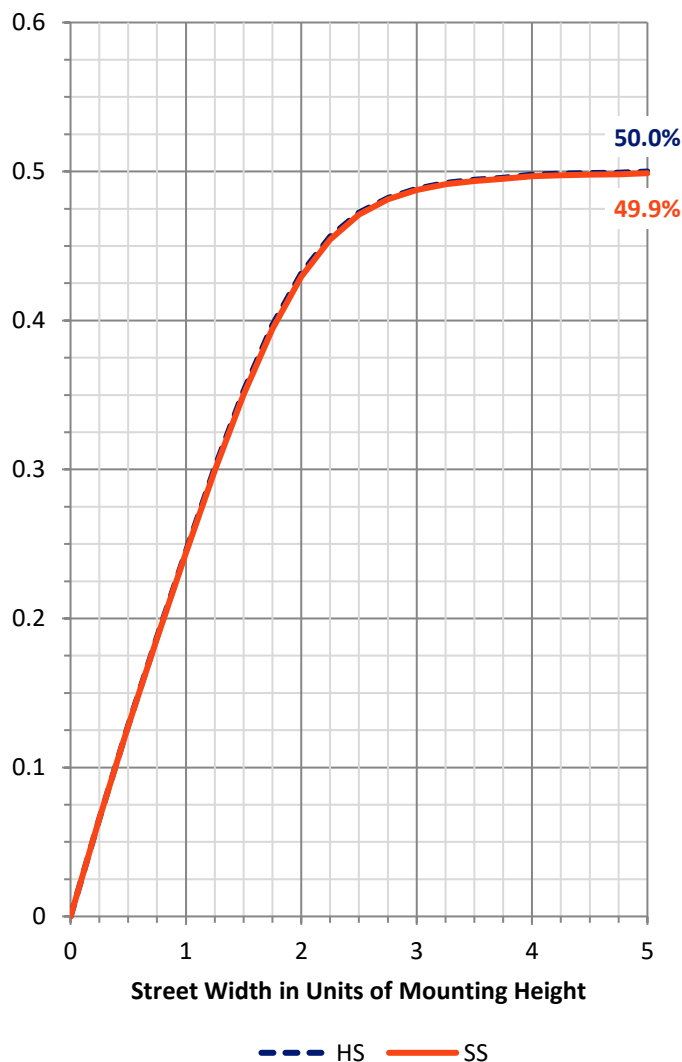
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7210.0	0.0	7210.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7210.0	0.0	7210.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14420.0	0.0	14420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	0.5
10°-20°	291.4	2.0
20°-30°	555.9	3.9
30°-40°	1016.4	7.0
40°-50°	1970.7	13.7
50°-60°	3763.3	26.1
60°-70°	5084.6	35.3
70°-80°	1579.1	11.0
80°-90°	85.1	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°	14420.0	100.0
0°-180°	14420.0	100.0

Coefficient of Utilization



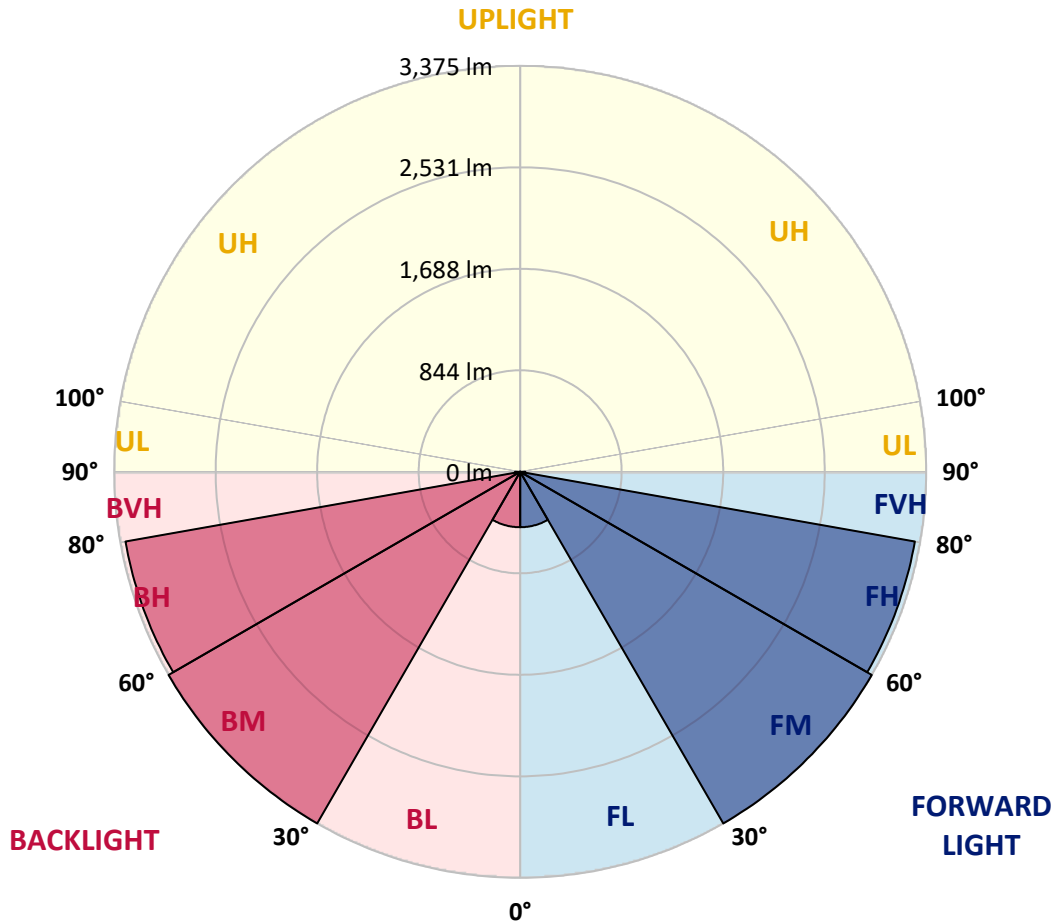
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.5	3.2			
FM (30°-60°)	3375.1	23.4			
FH (60°-80°)	3331.8	23.1			G2/5000
FVH (80°-90°)	42.5	0.3			G1/100
BL (0°-30°)	460.5	3.2	B1/500		
BM (30°-60°)	3375.1	23.4	B3/5000		
BH (60°-80°)	3331.8	23.1	B4/5000		G2/5000
BVH (80°-90°)	42.5	0.3			G1/100
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°	22.5°	45°	67.5°	90°
0°	494.1	494.1	494.1	494.1	494.1
2.5°	608.3	569.3	587.2	569.3	608.3
5°	773.2	732.6	696.9	722.5	775.5
7.5°	888.6	827.8	752.6	821.1	883.5
10°	908.1	874.1	870.7	870.2	905.8
12.5°	981.0	958.2	1003.9	960.4	983.3
15°	1037.9	1025.0	1045.7	1041.2	1040.1
17.5°	1125.9	1039.0	1085.8	1034.0	1123.1
20°	1164.9	1041.8	1120.3	1035.6	1164.3
22.5°	1212.8	1107.5	1130.9	1110.3	1208.3
25°	1240.1	1149.8	1158.2	1150.9	1240.6
27.5°	1352.1	1243.4	1154.3	1258.5	1372.7
30°	1437.3	1304.1	1245.7	1305.8	1447.9
32.5°	1560.4	1395.0	1372.1	1417.2	1579.9
35°	1713.0	1547.6	1419.5	1548.1	1745.4
37.5°	2012.2	1686.3	1641.2	1735.3	2034.5
40°	2223.3	1905.2	1808.9	1940.3	2259.6
42.5°	2547.6	2150.9	1906.4	2168.7	2603.3
45°	2849.5	2449.0	2217.2	2469.6	2890.2
47.5°	3168.7	2722.5	2635.6	2748.1	3198.8
50°	3545.9	3093.0	3032.2	3121.9	3558.7
52.5°	3991.0	3588.8	3409.4	3605.5	3995.4
55°	4519.7	4004.9	3964.8	4050.6	4526.3
57.5°	5036.6	4544.2	4801.5	4549.2	4946.9
60°	5405.4	5041.1	5489.6	4913.0	5206.6
62.5°	5428.8	5409.3	6346.4	5192.1	5150.8
65°	4923.0	5260.6	7063.9	5090.7	4675.6
67.5°	3875.1	4419.4	7172.5	4333.6	3756.5
70°	2435.0	3060.1	6340.8	3177.6	2504.1
72.5°	1123.1	1649.0	4774.8	1856.2	1187.2
75°	402.2	631.2	2945.9	678.0	420.6
77.5°	228.4	255.7	1301.9	256.8	236.2
80°	147.1	159.3	376.0	168.2	143.2
82.5°	83.6	111.4	164.9	118.1	76.9
85°	45.1	70.8	73.0	72.4	45.1
87.5°	16.2	27.9	16.2	31.8	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)