

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: P368163

Luminaire Tested: **MSA-SA3D-830-U-5WQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368163
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-SA3D-830-U-5WQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16968 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

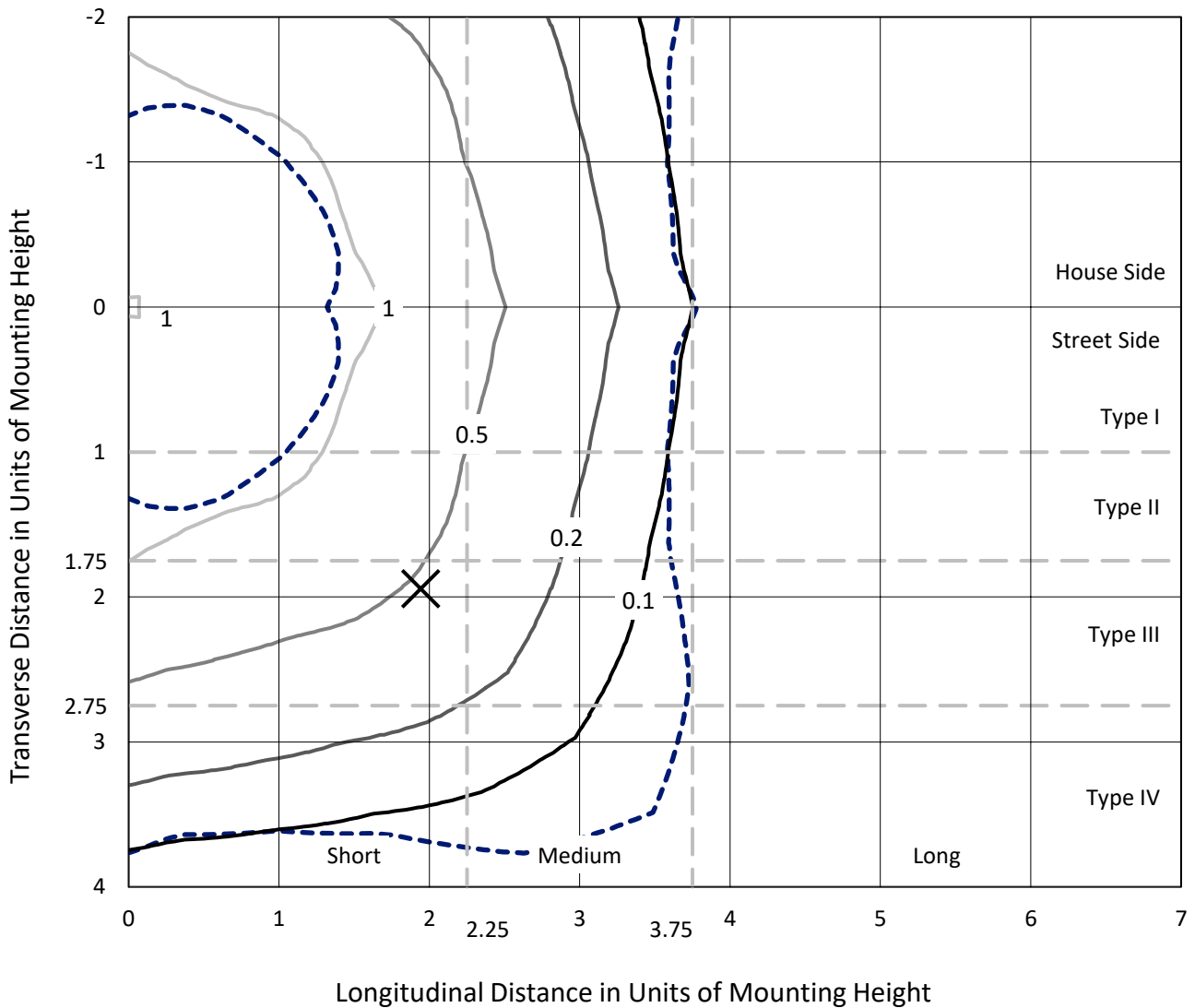
Input Watts (W): 192
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

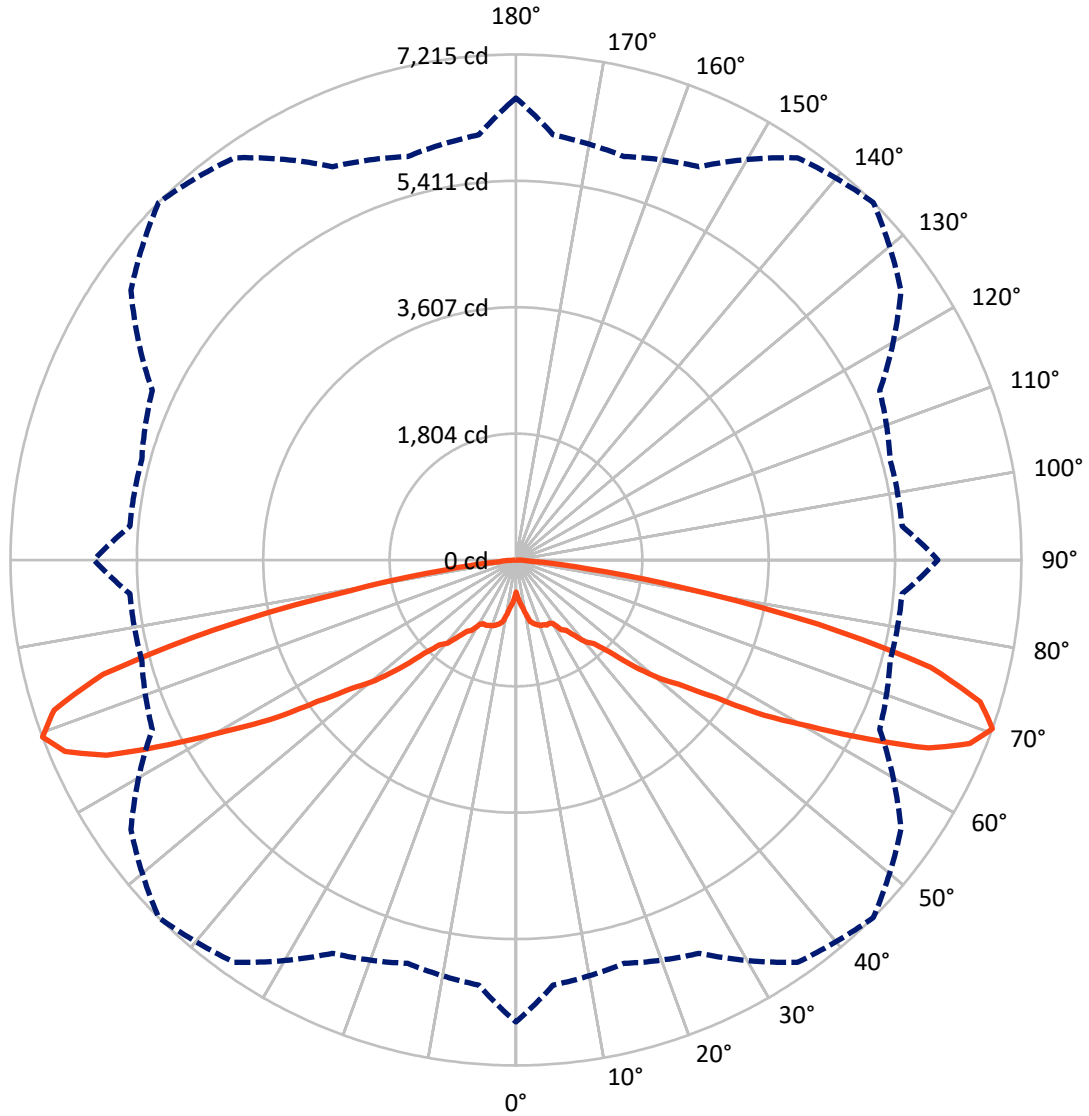
✕ Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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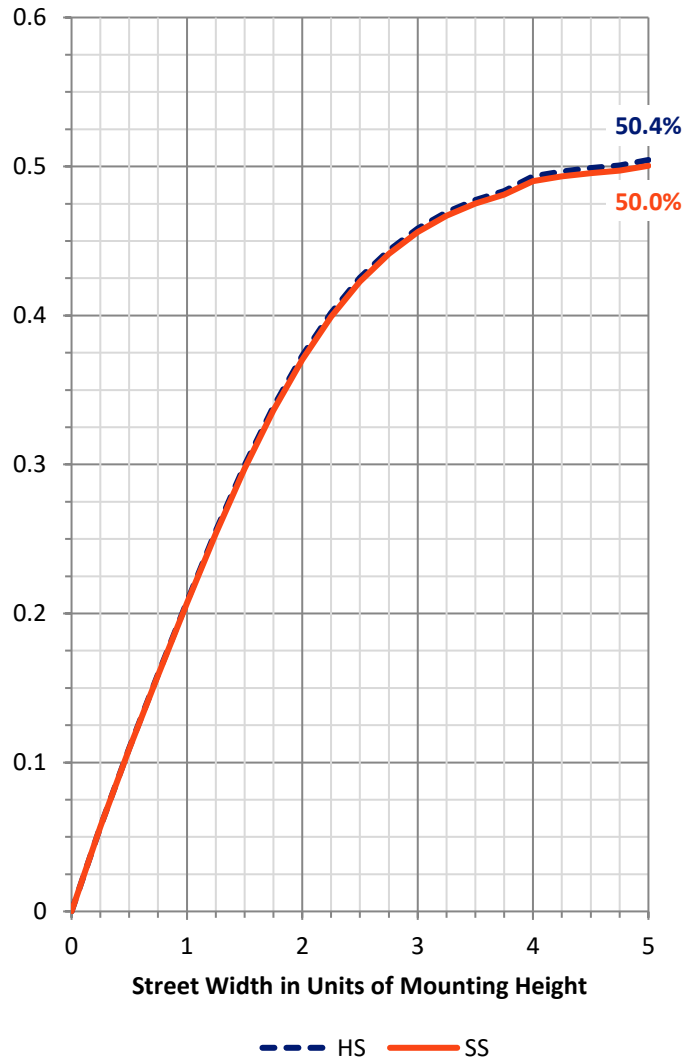
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8484.0	0.0	8484.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8484.0	0.0	8484.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16968.0	0.0	16968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	0.4
10°-20°	267.1	1.6
20°-30°	505.0	3.0
30°-40°	879.6	5.2
40°-50°	1681.5	9.9
50°-60°	3260.6	19.2
60°-70°	5709.5	33.6
70°-80°	4291.0	25.3
80°-90°	307.0	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°	16968.0	100.0
0°-180°	16968.0	100.0

Coefficient of Utilization

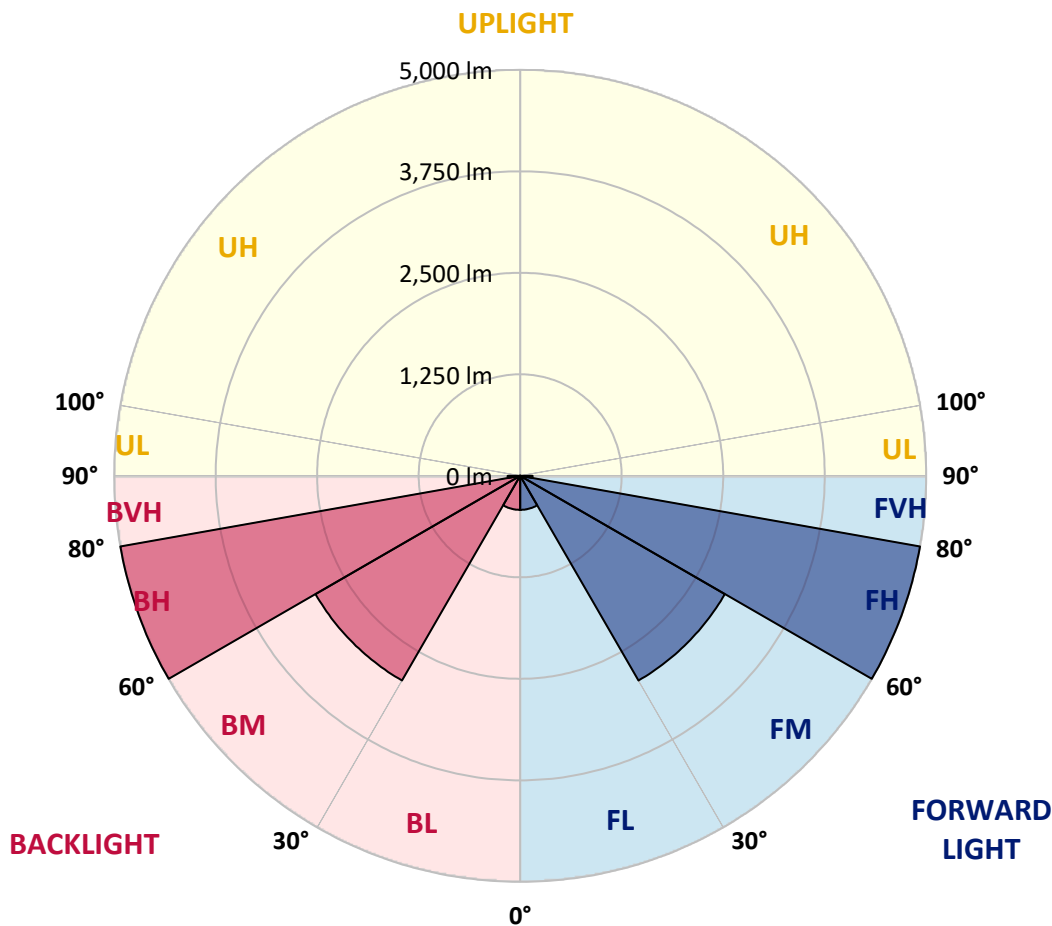


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	419.4	2.5			
FM (30°-60°)	2910.9	17.2			
FH (60°-80°)	5000.2	29.5			G3/7500
FVH (80°-90°)	153.5	0.9			G2/225
BL (0°-30°)	419.4	2.5	B1/500		
BM (30°-60°)	2910.9	17.2	B3/5000		
BH (60°-80°)	5000.2	29.5	B5		G3/7500
BVH (80°-90°)	153.5	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	458.8	458.8	458.8	458.8	458.8	458.8	458.8	458.8	458.8	458.8	458.8
2.5°	558.2	549.6	522.7	524.0	536.5	537.8	539.1	522.7	518.7	552.3	554.2
5°	708.9	689.2	669.4	661.5	649.7	616.8	653.0	656.9	664.8	690.5	702.4
7.5°	809.7	785.3	758.3	741.9	709.6	682.6	712.2	736.6	752.4	781.3	797.8
10°	828.7	814.3	812.9	784.0	778.1	787.9	786.0	786.6	810.3	811.0	820.8
12.5°	888.6	899.2	878.8	868.9	874.8	899.2	879.4	870.9	876.8	903.8	892.6
15°	967.0	979.5	948.5	932.7	916.9	940.0	919.6	934.7	953.8	973.6	963.7
17.5°	1053.9	1054.5	1012.4	953.8	967.6	970.9	963.7	951.2	1005.8	1053.2	1048.6
20°	1101.3	1100.6	1028.2	948.5	989.4	996.6	990.0	947.2	1029.5	1094.7	1092.7
22.5°	1150.0	1135.5	1048.6	984.1	999.2	1005.2	990.0	986.1	1048.6	1139.4	1138.8
25°	1176.3	1188.8	1093.4	1053.2	1040.7	1026.9	1040.0	1046.6	1106.5	1195.4	1169.7
27.5°	1258.6	1238.2	1106.5	1102.6	1076.2	1021.6	1067.0	1099.3	1102.6	1246.1	1272.4
30°	1333.0	1340.9	1165.8	1171.7	1123.6	1054.5	1125.0	1176.3	1186.2	1342.2	1339.5
32.5°	1412.0	1415.2	1271.1	1209.9	1189.5	1186.8	1159.8	1204.6	1282.3	1407.3	1412.6
35°	1531.8	1558.7	1365.2	1282.9	1257.3	1230.9	1254.6	1294.8	1367.2	1554.8	1541.6
37.5°	1806.2	1763.5	1569.9	1399.4	1382.3	1371.8	1390.9	1419.9	1568.0	1768.1	1829.3
40°	1997.8	1977.4	1714.1	1592.3	1484.4	1541.0	1496.2	1608.1	1730.5	1978.7	2018.2
42.5°	2294.7	2203.8	1933.3	1782.5	1670.6	1630.5	1655.5	1801.6	1957.6	2234.1	2311.8
45°	2579.7	2439.5	2207.8	2074.8	1905.0	1862.9	1896.4	2068.2	2248.6	2467.1	2604.0
47.5°	2870.6	2725.8	2471.1	2278.9	2140.0	2265.7	2155.8	2319.0	2498.7	2752.8	2874.6
50°	3172.8	3012.2	2760.7	2551.4	2539.5	2650.8	2519.1	2602.7	2769.3	3032.6	3176.1
52.5°	3519.7	3346.6	3095.1	2953.6	2981.2	2974.0	2947.7	2932.5	3096.4	3355.1	3525.6
55°	3932.4	3745.5	3544.7	3479.5	3555.9	3473.6	3512.4	3507.2	3530.9	3715.8	3915.3
57.5°	4431.4	4220.1	4018.6	4004.2	4102.2	4179.9	4110.8	4011.4	3969.9	4149.6	4378.0
60°	5060.0	4800.6	4579.5	4534.0	4813.8	4813.1	4750.6	4528.1	4512.3	4715.7	4990.9
62.5°	5754.4	5438.5	5196.9	5124.5	5562.9	5612.3	5417.4	5018.5	5100.1	5264.0	5590.5
65°	6344.2	5964.4	5739.3	5719.6	6255.4	6473.3	6042.8	5497.1	5523.4	5659.7	6013.1
67.5°	6728.7	6271.2	6092.1	6187.6	6853.7	6990.0	6589.8	5817.0	5723.5	5780.1	6202.7
70°	6593.7	6090.8	5961.8	6193.5	7008.4	7214.5	6707.6	5727.5	5528.7	5531.3	6022.4
72.5°	5571.5	5092.9	5154.1	5579.4	6642.4	6931.4	6162.6	5173.2	4766.4	4756.5	5202.2
75°	3684.2	3364.3	3605.9	4268.8	5522.1	6113.2	5106.1	4054.8	3544.7	3378.8	3723.1
77.5°	1611.4	1570.6	1774.0	2523.1	3764.5	4405.7	3657.9	2648.8	1928.0	1603.5	1751.6
80°	431.8	422.6	530.6	957.1	1832.6	2426.3	1979.4	1056.5	551.6	401.5	425.9
82.5°	157.3	161.3	196.8	267.9	603.6	1021.6	657.6	308.7	208.7	171.1	171.1
85°	68.5	66.5	95.4	107.3	164.6	231.0	188.9	131.0	105.3	79.0	75.7
87.5°	18.4	23.0	32.3	33.6	42.8	34.9	50.0	46.1	39.5	27.6	22.4
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)