

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: P368075

Luminaire Tested: **MSA-SA3D-730-U-5WQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368075
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-730-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: 19446 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

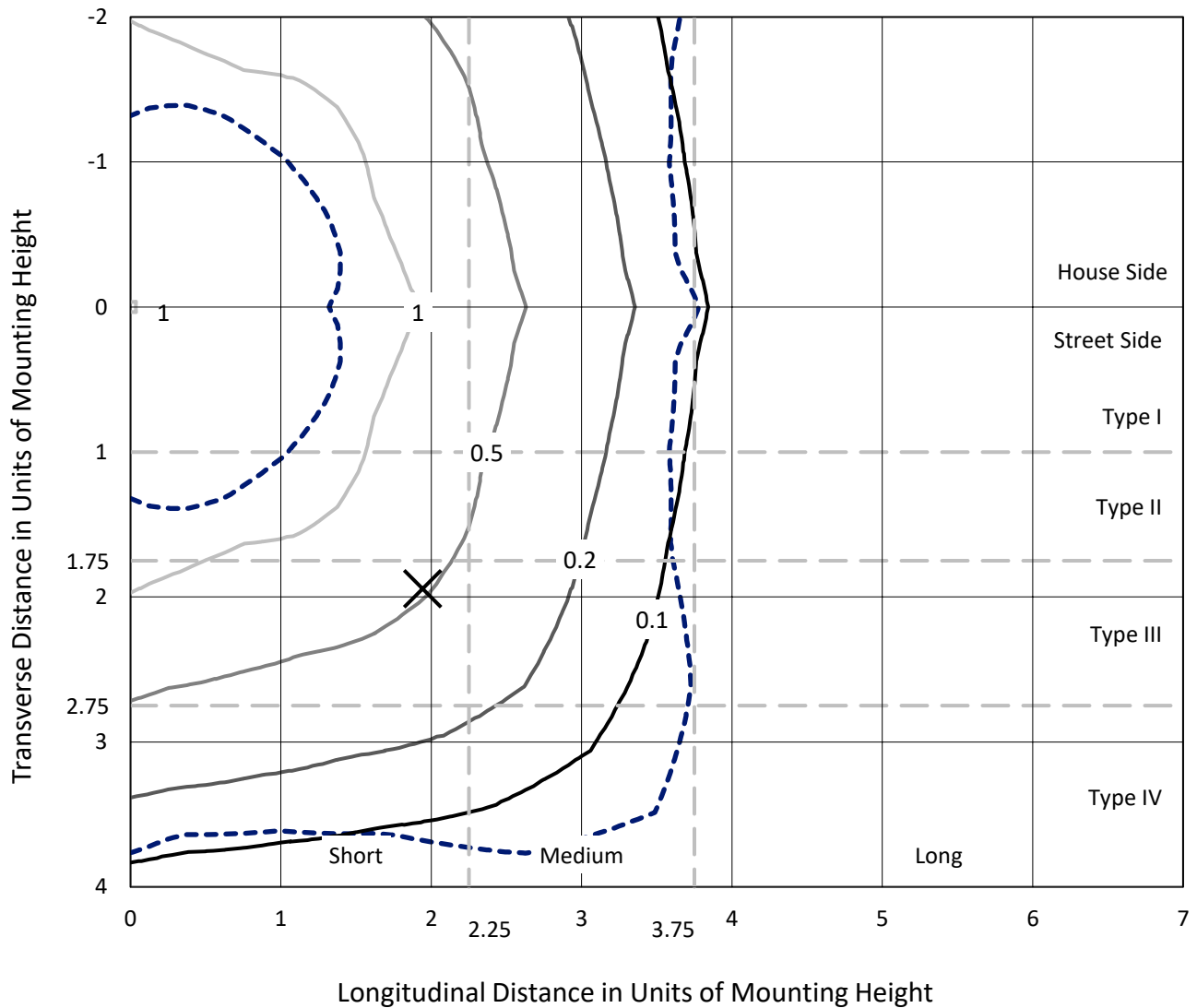
Input Watts (W): 192
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

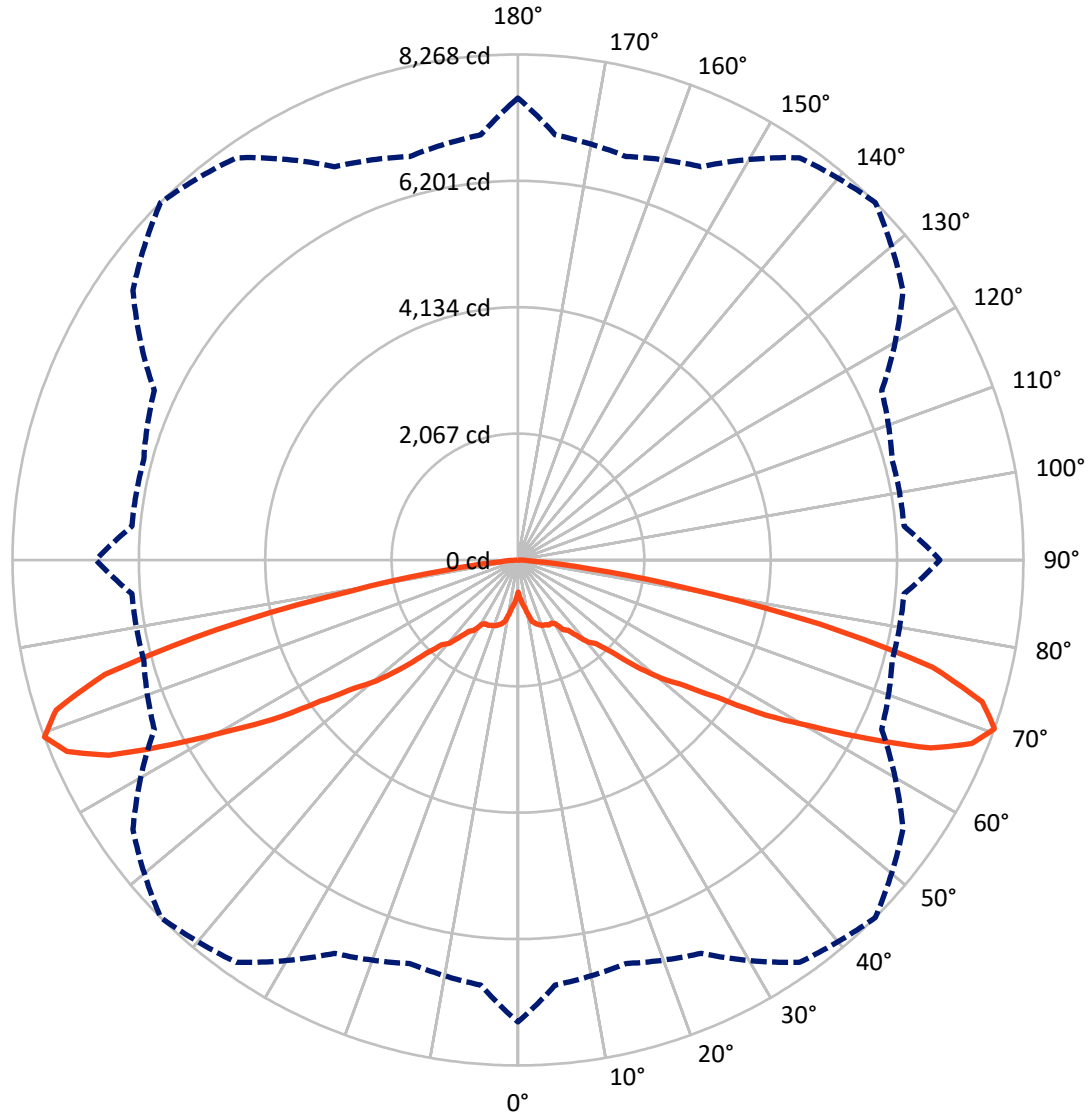
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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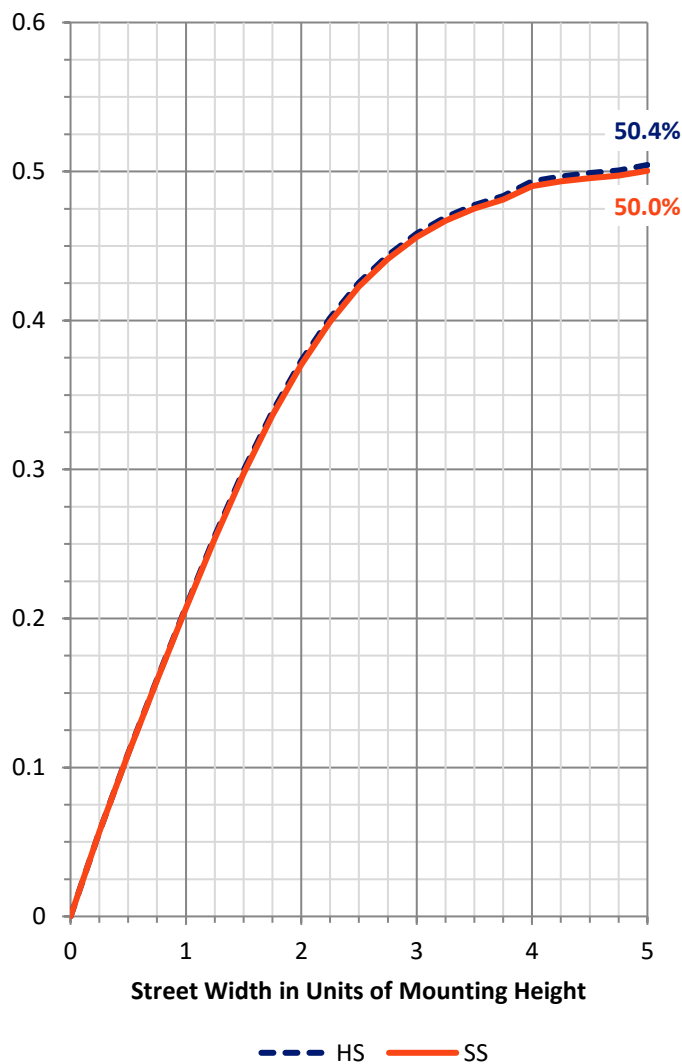
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9723.0	0.0	9723.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9723.0	0.0	9723.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19446.0	0.0	19446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	0.4
10°-20°	306.1	1.6
20°-30°	578.7	3.0
30°-40°	1008.1	5.2
40°-50°	1927.1	9.9
50°-60°	3736.8	19.2
60°-70°	6543.3	33.6
70°-80°	4917.6	25.3
80°-90°	351.9	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°	19446.0	100.0
0°-180°	19446.0	100.0

Coefficient of Utilization

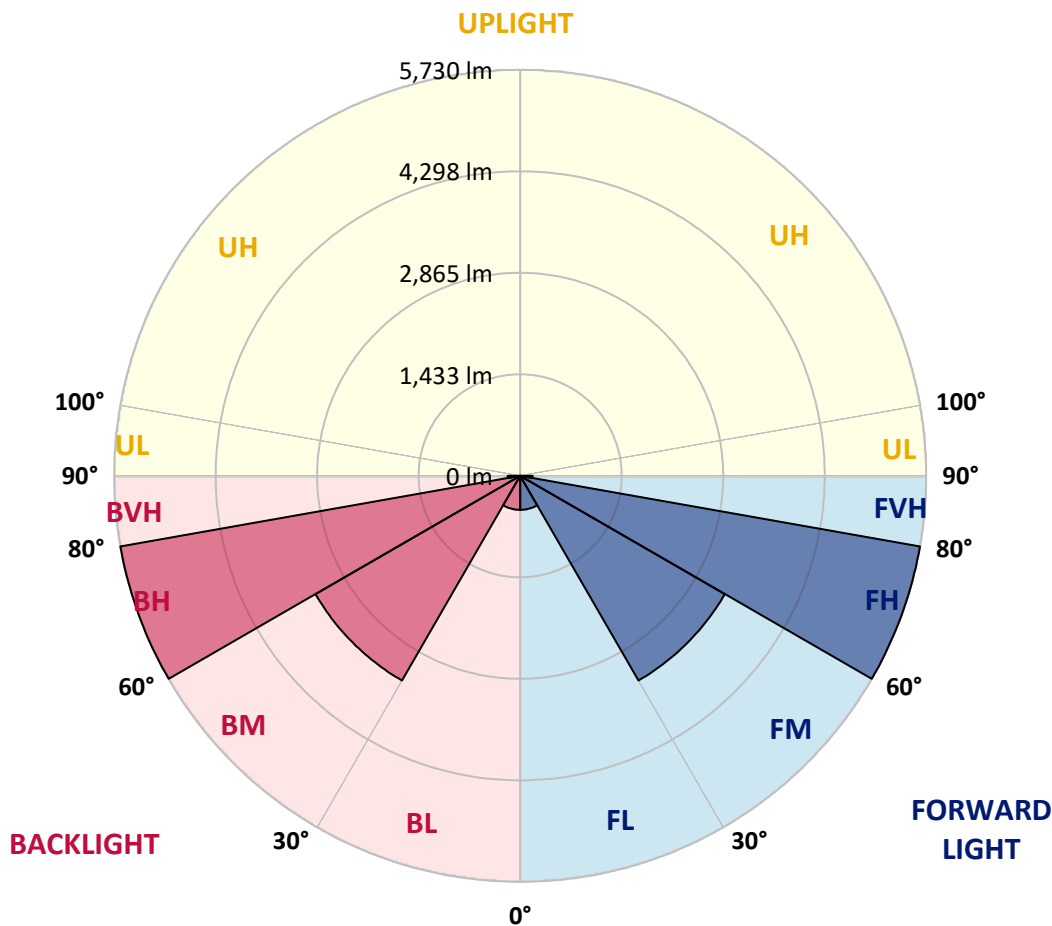


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.6	2.5			
FM (30°-60°)	3336.0	17.2			
FH (60°-80°)	5730.4	29.5			G3/7500
FVH (80°-90°)	175.9	0.9			G2/225
BL (0°-30°)	480.6	2.5	B1/500		
BM (30°-60°)	3336.0	17.2	B3/5000		
BH (60°-80°)	5730.4	29.5	B5		G3/7500
BVH (80°-90°)	175.9	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°	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8	525.8
2.5°	639.7	629.9	599.0	600.5	614.8	616.3	617.8	599.0	594.5	632.9	635.2
5°	812.5	789.8	767.2	758.2	744.6	706.9	748.3	752.9	761.9	791.3	804.9
7.5°	927.9	900.0	869.1	850.2	813.2	782.3	816.2	844.2	862.3	895.5	914.3
10°	949.8	933.2	931.7	898.5	891.7	903.0	900.7	901.5	928.6	929.4	940.7
12.5°	1018.4	1030.5	1007.1	995.8	1002.6	1030.5	1007.9	998.1	1004.8	1035.8	1022.9
15°	1108.2	1122.5	1087.1	1069.0	1050.9	1077.3	1053.9	1071.2	1093.1	1115.7	1104.4
17.5°	1207.8	1208.5	1160.2	1093.1	1108.9	1112.7	1104.4	1090.1	1152.7	1207.0	1201.7
20°	1262.1	1261.3	1178.3	1087.1	1133.8	1142.1	1134.6	1085.6	1179.9	1254.5	1252.3
22.5°	1317.9	1301.3	1201.7	1127.8	1145.2	1151.9	1134.6	1130.1	1201.7	1305.8	1305.1
25°	1348.1	1362.4	1253.0	1207.0	1192.7	1176.8	1191.9	1199.5	1268.1	1370.0	1340.5
27.5°	1442.4	1419.0	1268.1	1263.6	1233.4	1170.8	1222.9	1259.8	1263.6	1428.0	1458.2
30°	1527.6	1536.7	1336.0	1342.8	1287.7	1208.5	1289.2	1348.1	1359.4	1538.2	1535.2
32.5°	1618.2	1621.9	1456.7	1386.6	1363.2	1360.2	1329.2	1380.5	1469.5	1612.9	1618.9
35°	1755.5	1786.4	1564.6	1470.3	1440.9	1410.7	1437.9	1483.9	1566.9	1781.9	1766.8
37.5°	2070.0	2021.0	1799.2	1603.8	1584.2	1572.1	1594.0	1627.2	1796.9	2026.3	2096.4
40°	2289.6	2266.2	1964.4	1824.9	1701.1	1766.0	1714.7	1843.0	1983.3	2267.7	2312.9
42.5°	2629.8	2525.7	2215.6	2042.9	1914.6	1868.6	1897.3	2064.7	2243.5	2560.4	2649.4
45°	2956.4	2795.7	2530.2	2377.8	2183.2	2134.9	2173.4	2370.3	2577.0	2827.4	2984.3
47.5°	3289.9	3123.9	2832.0	2611.7	2452.5	2596.6	2470.6	2657.7	2863.6	3154.8	3294.4
50°	3636.1	3452.1	3163.9	2924.0	2910.4	3037.9	2887.0	2982.8	3173.7	3475.4	3639.9
52.5°	4033.7	3835.3	3547.1	3384.9	3416.6	3408.3	3378.1	3360.8	3548.6	3845.1	4040.5
55°	4506.7	4292.4	4062.4	3987.7	4075.2	3980.9	4025.4	4019.4	4046.5	4258.5	4487.1
57.5°	5078.5	4836.4	4605.5	4588.9	4701.3	4790.3	4711.1	4597.2	4549.7	4755.6	5017.4
60°	5799.0	5501.7	5248.3	5196.2	5516.8	5516.1	5444.4	5189.4	5171.3	5404.4	5719.7
62.5°	6594.8	6232.7	5955.9	5872.9	6375.3	6431.9	6208.6	5751.4	5845.0	6032.8	6407.0
65°	7270.8	6835.5	6577.5	6554.8	7168.9	7418.6	6925.2	6299.9	6330.0	6486.2	6891.3
67.5°	7711.3	7187.0	6981.8	7091.2	7854.6	8010.8	7552.1	6666.5	6559.4	6624.2	7108.6
70°	7556.7	6980.3	6832.5	7098.0	8031.9	8268.0	7687.2	6563.9	6336.1	6339.1	6901.9
72.5°	6385.1	5836.7	5906.8	6394.2	7612.5	7943.7	7062.5	5928.7	5462.5	5451.2	5961.9
75°	4222.3	3855.7	4132.5	4892.2	6328.5	7006.0	5851.8	4647.0	4062.4	3872.3	4266.8
77.5°	1846.7	1800.0	2033.1	2891.6	4314.3	5049.1	4192.1	3035.6	2209.6	1837.7	2007.4
80°	494.9	484.3	608.0	1096.9	2100.2	2780.7	2268.4	1210.8	632.2	460.2	488.1
82.5°	180.3	184.8	225.6	307.0	691.8	1170.8	753.6	353.8	239.1	196.1	196.1
85°	78.5	76.2	109.4	123.0	188.6	264.8	216.5	150.1	120.7	90.5	86.8
87.5°	21.1	26.4	37.0	38.5	49.0	40.0	57.3	52.8	45.3	31.7	25.6
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)