

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: STREETWORKS

Report Number: P236702

Luminaire Tested: **ARCH-L-AF72-90-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-90-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13037.9 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

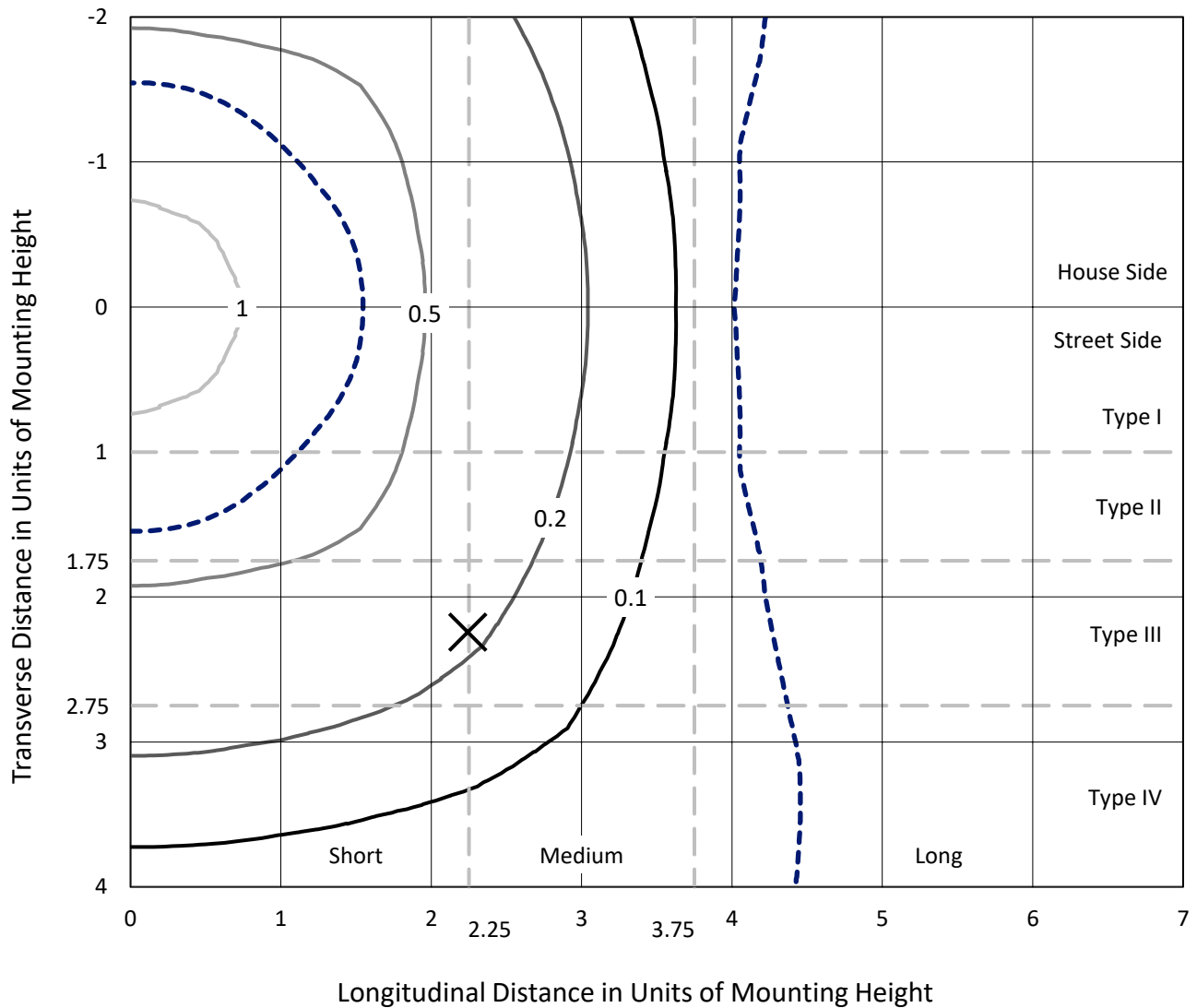
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

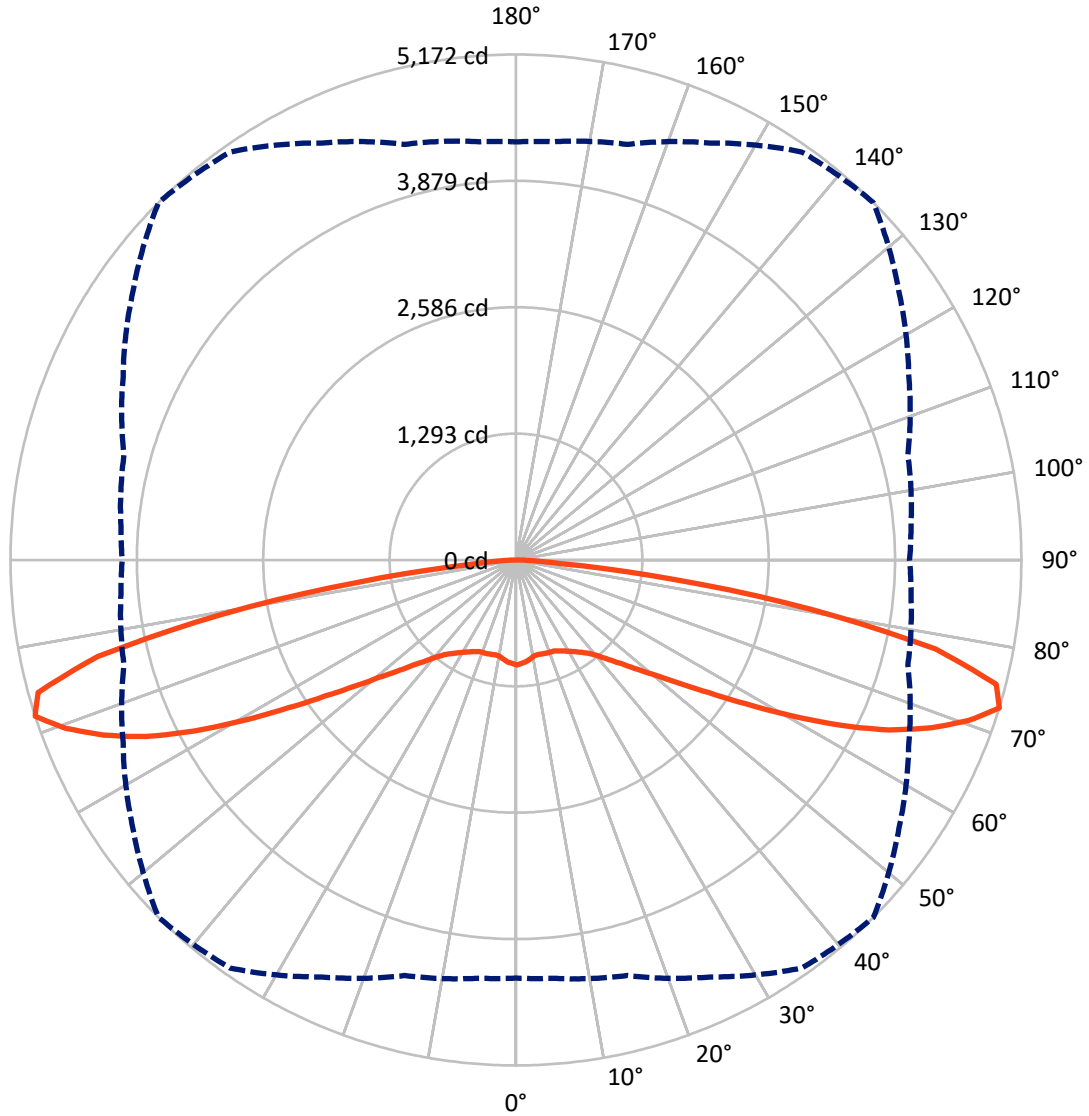
✕ Max cd
 - - - 1/2 Max cd



Based on 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 72.5-Deg Vertical

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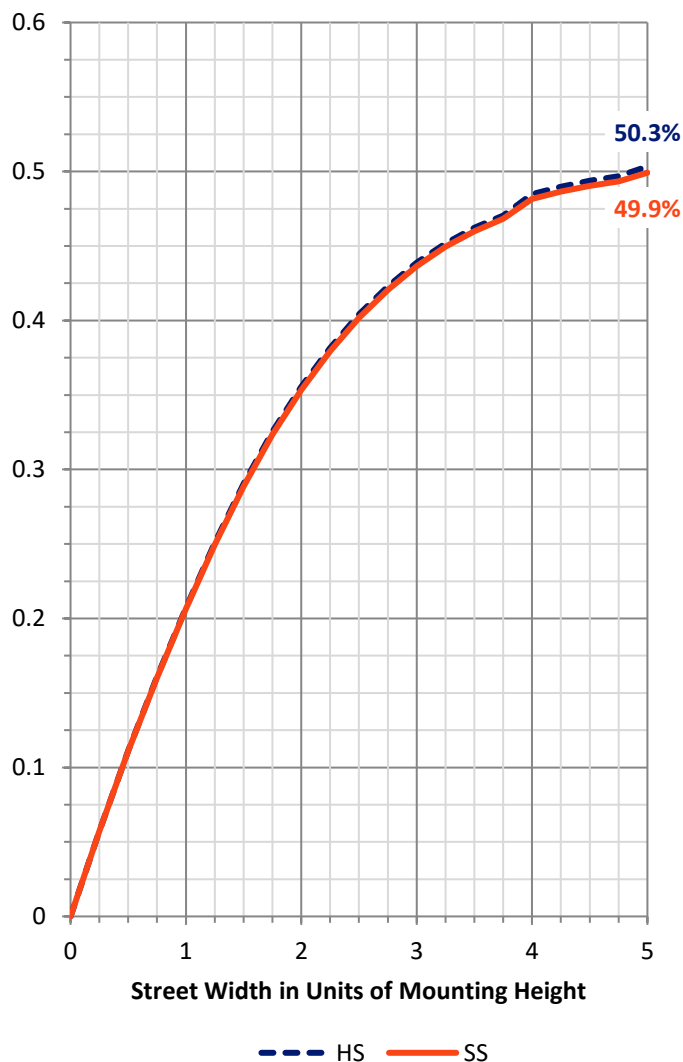
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6519.0	0.0	6519.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6519.0	0.0	6519.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13037.9	0.0	13037.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	0.8
10°-20°	285.3	2.2
20°-30°	477.4	3.7
30°-40°	733.6	5.6
40°-50°	1214.6	9.3
50°-60°	2159.3	16.6
60°-70°	3777.7	29.0
70°-80°	3843.5	29.5
80°-90°	447.6	3.4
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°	13037.9	100.0
0°-180°	13037.9	100.0

Coefficient of Utilization

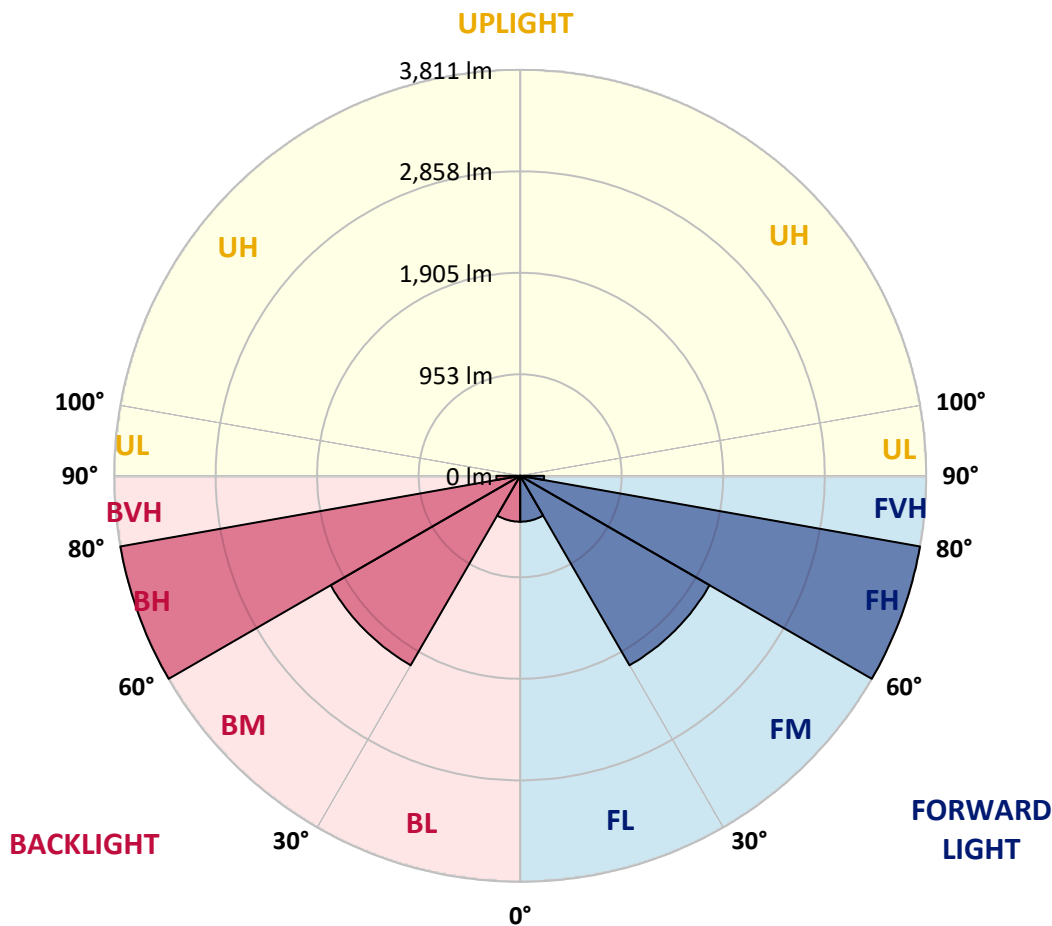


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	430.8	3.3			
FM (30°-60°)	2053.7	15.8			
FH (60°-80°)	3810.6	29.2			G2/5000
FVH (80°-90°)	223.8	1.7			G2/225
BL (0°-30°)	430.8	3.3	B1/500		
BM (30°-60°)	2053.7	15.8	B2/2500		
BH (60°-80°)	3810.6	29.2	B4/5000		G2/5000
BVH (80°-90°)	223.8	1.7			G2/225
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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7	1074.7
2.5°	1064.7	1067.1	1062.2	1062.2	1062.2	1059.7	1062.2	1059.7	1062.2	1064.7	1064.7
5°	1054.8	1054.8	1049.8	1049.8	1049.8	1047.4	1049.8	1049.8	1052.2	1054.8	1054.8
7.5°	1032.4	1032.4	1030.0	1027.5	1025.0	1025.0	1027.5	1027.5	1030.0	1032.4	1032.4
10°	1020.1	1017.5	1012.7	1005.1	1002.7	1000.2	1005.1	1010.1	1017.5	1025.0	1022.5
12.5°	1015.0	1012.7	1002.7	995.3	990.2	992.7	997.6	1002.7	1015.0	1022.5	1020.1
15°	1020.1	1015.0	1002.7	990.2	992.7	997.6	1002.7	1002.7	1017.5	1025.0	1025.0
17.5°	1020.1	1017.5	1002.7	992.7	995.3	1002.7	1005.1	1002.7	1015.0	1027.5	1027.5
20°	1022.5	1022.5	1002.7	995.3	997.6	1005.1	1007.6	1005.1	1015.0	1030.0	1030.0
22.5°	1027.5	1025.0	1005.1	1000.2	1005.1	1010.1	1012.7	1010.1	1020.1	1032.4	1034.9
25°	1037.4	1032.4	1015.0	1012.7	1022.5	1030.0	1030.0	1025.0	1030.0	1042.4	1042.4
27.5°	1049.8	1047.4	1027.5	1027.5	1039.9	1054.8	1047.4	1037.4	1042.4	1054.8	1054.8
30°	1072.2	1069.6	1049.8	1049.8	1067.1	1084.5	1067.1	1054.8	1062.2	1074.7	1077.1
32.5°	1104.4	1104.4	1087.0	1082.1	1111.8	1119.3	1111.8	1087.0	1092.0	1109.4	1109.4
35°	1159.0	1154.0	1136.7	1134.2	1163.9	1161.5	1159.0	1136.7	1141.6	1161.5	1161.5
37.5°	1231.1	1228.5	1213.7	1206.1	1221.1	1211.1	1216.0	1206.1	1218.6	1233.4	1235.9
40°	1322.8	1320.3	1308.0	1298.0	1302.9	1288.0	1293.0	1298.0	1310.3	1320.3	1322.8
42.5°	1437.0	1437.0	1424.5	1407.1	1399.7	1392.3	1392.3	1402.3	1414.7	1427.0	1427.0
45°	1578.5	1578.5	1563.5	1546.1	1523.8	1511.4	1516.4	1526.4	1541.2	1556.1	1561.1
47.5°	1744.8	1744.8	1724.8	1707.5	1685.1	1670.2	1670.2	1675.3	1697.6	1710.0	1717.4
50°	1930.8	1923.4	1903.6	1886.2	1873.8	1853.9	1856.5	1853.9	1873.8	1891.2	1896.0
52.5°	2124.4	2122.0	2102.1	2097.1	2104.6	2094.6	2094.6	2069.8	2077.2	2087.2	2084.7
55°	2365.1	2357.7	2340.4	2350.2	2380.1	2395.0	2389.9	2350.2	2328.0	2332.9	2330.4
57.5°	2628.2	2620.8	2615.8	2645.6	2712.6	2774.6	2762.3	2670.4	2628.2	2630.8	2633.2
60°	2896.3	2896.3	2911.2	2985.6	3129.6	3231.4	3194.0	3040.2	2965.8	2950.9	2945.9
62.5°	3171.8	3179.2	3211.4	3335.5	3556.4	3725.2	3630.9	3412.5	3300.8	3271.0	3261.1
65°	3491.9	3499.3	3546.5	3700.4	3993.2	4194.3	4033.0	3827.0	3670.6	3608.7	3598.7
67.5°	3956.1	3960.9	3998.3	4147.2	4422.6	4583.9	4417.7	4234.1	4065.2	3993.2	3988.3
70°	4373.0	4377.9	4410.1	4606.3	4859.5	4916.4	4732.8	4499.6	4323.3	4266.2	4256.3
72.5°	4278.7	4296.1	4402.7	4708.0	5097.6	5172.2	4784.9	4435.1	4152.1	4057.8	4028.0
75°	3588.7	3616.1	3784.7	4243.9	4864.3	5075.3	4477.2	3834.5	3412.5	3231.4	3184.2
77.5°	2094.6	2196.4	2486.7	3075.0	3960.9	4390.4	3687.9	2807.0	2097.1	1799.3	1700.1
80°	573.3	627.9	838.9	1414.7	2484.3	3075.0	2352.8	1288.0	694.9	521.1	483.9
82.5°	181.2	240.7	305.3	407.0	975.3	1620.7	873.6	379.6	297.8	245.8	218.4
85°	96.8	104.3	171.2	198.6	292.9	454.2	270.5	198.6	178.6	131.5	124.1
87.5°	49.6	52.1	96.8	96.8	129.0	106.7	116.7	106.7	101.7	64.6	57.1
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)