

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: P236742

Luminaire Tested: **ARCH-L-AF72-90-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-90-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 13481 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G3

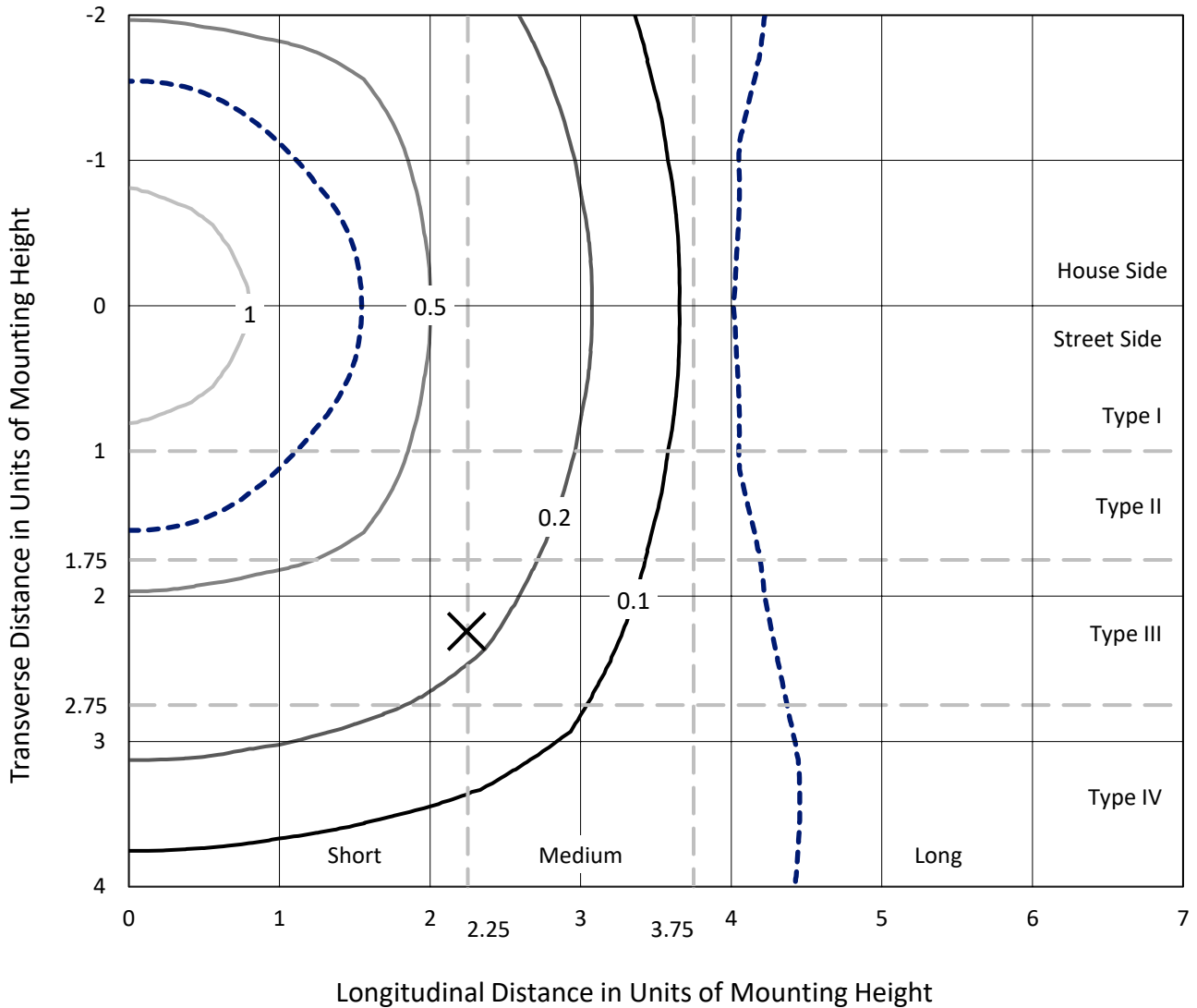
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

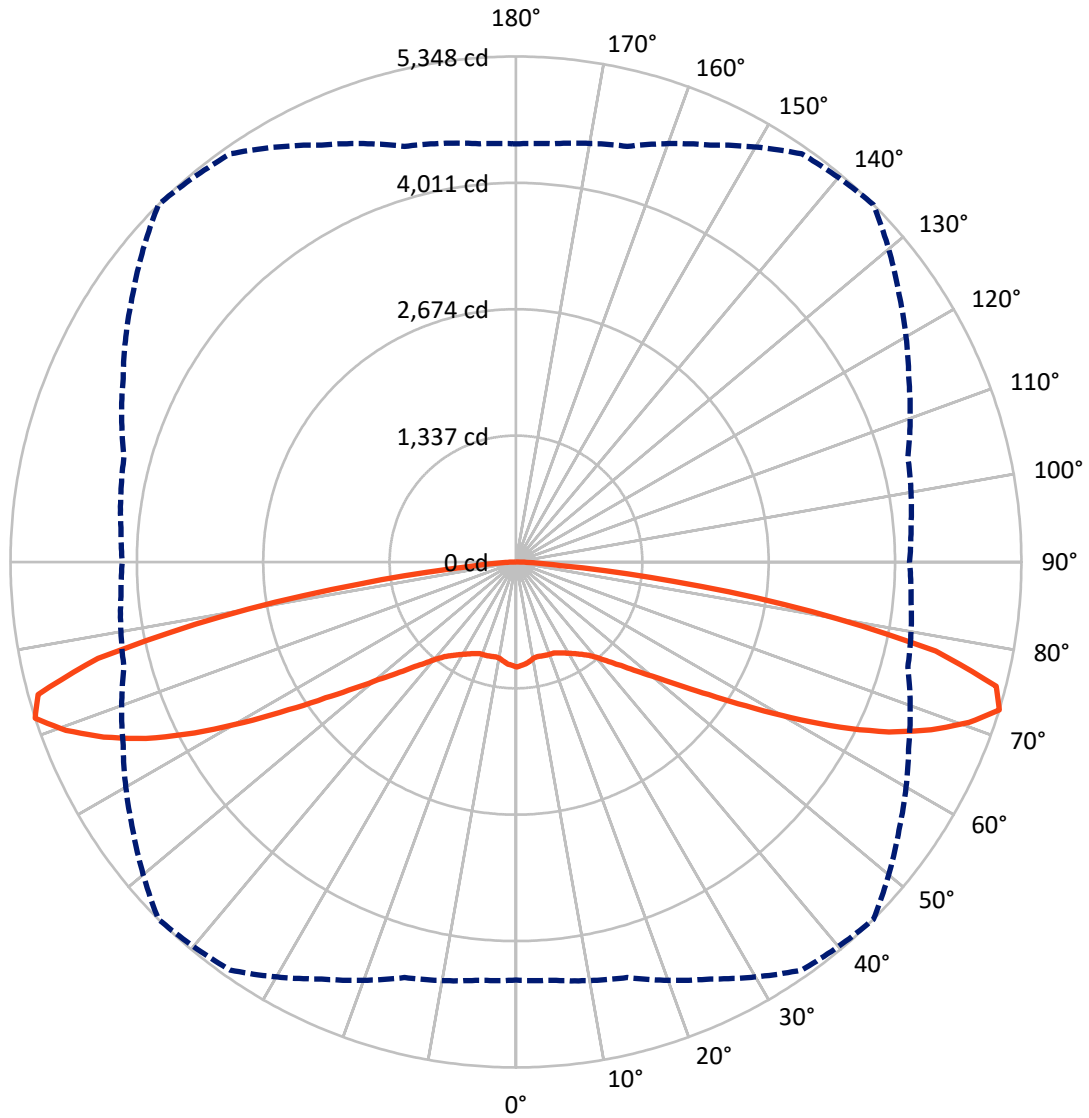
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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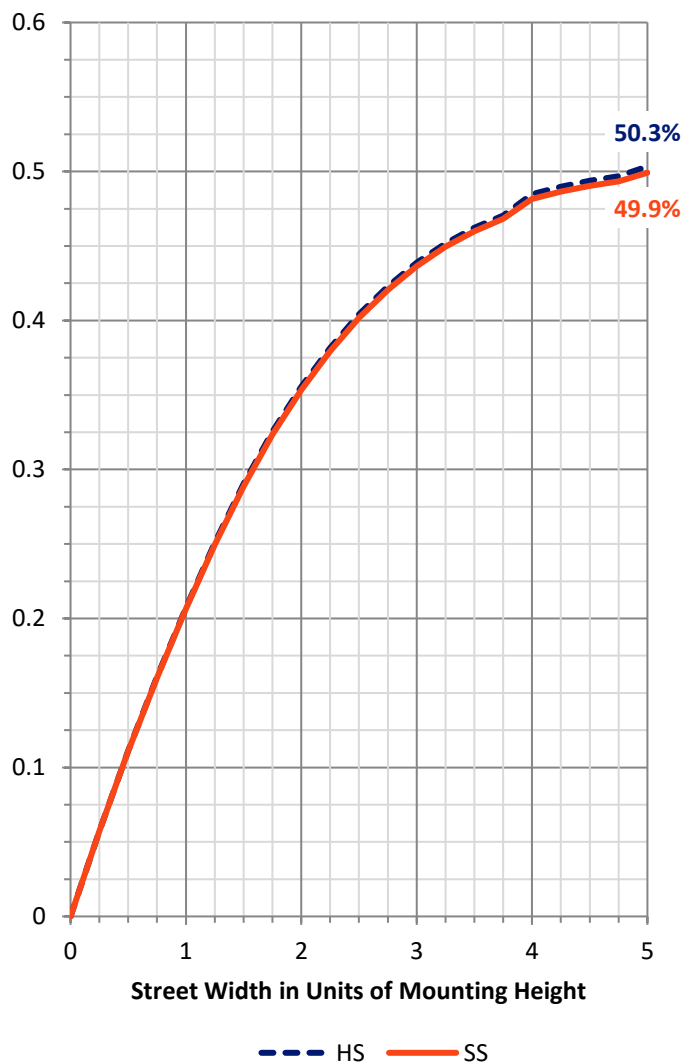
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6740.5	0.0	6740.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6740.5	0.0	6740.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13481.0	0.0	13481.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	0.8
10°-20°	295.0	2.2
20°-30°	493.7	3.7
30°-40°	758.5	5.6
40°-50°	1255.9	9.3
50°-60°	2232.7	16.6
60°-70°	3906.1	29.0
70°-80°	3974.1	29.5
80°-90°	462.8	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°	13481.0	100.0
0°-180°	13481.0	100.0

Coefficient of Utilization



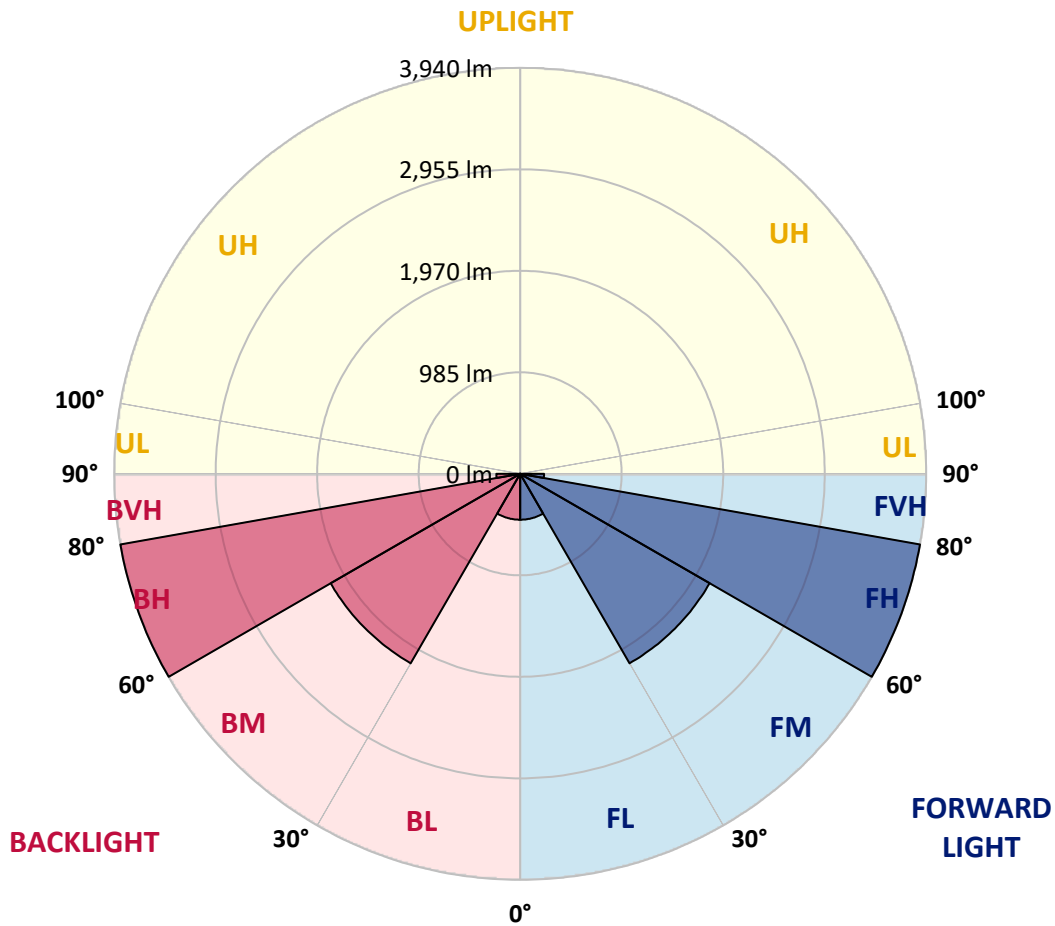
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	445.4	3.3			
FM (30°-60°)	2123.6	15.8			
FH (60°-80°)	3940.1	29.2			G2/5000
FVH (80°-90°)	231.4	1.7			G3/500
BL (0°-30°)	445.4	3.3	B1/500		
BM (30°-60°)	2123.6	15.8	B2/2500		
BH (60°-80°)	3940.1	29.2	B4/5000		G2/5000
BVH (80°-90°)	231.4	1.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1111.1	1111.1	1111.1	1111.1	1111.1	1111.1	1111.1	1111.1	1111.1	1111.1	1111.1
2.5°	1100.9	1103.4	1098.3	1098.3	1098.3	1095.8	1098.3	1095.8	1098.3	1100.9	1100.9
5°	1090.6	1090.6	1085.5	1085.5	1085.5	1082.9	1085.5	1085.5	1088.1	1090.6	1090.6
7.5°	1067.5	1067.5	1065.0	1062.4	1059.8	1059.8	1062.4	1062.4	1065.0	1067.5	1067.5
10°	1054.7	1052.1	1047.0	1039.3	1036.7	1034.2	1039.3	1044.4	1052.1	1059.8	1057.3
12.5°	1049.6	1047.0	1036.7	1029.0	1023.9	1026.5	1031.6	1036.7	1049.6	1057.3	1054.7
15°	1054.7	1049.6	1036.7	1023.9	1026.5	1031.6	1036.7	1036.7	1052.1	1059.8	1059.8
17.5°	1054.7	1052.1	1036.7	1026.5	1029.0	1036.7	1039.3	1036.7	1049.6	1062.4	1062.4
20°	1057.3	1057.3	1036.7	1029.0	1031.6	1039.3	1041.9	1039.3	1049.6	1065.0	1065.0
22.5°	1062.4	1059.8	1039.3	1034.2	1039.3	1044.4	1047.0	1044.4	1054.7	1067.5	1070.1
25°	1072.7	1067.5	1049.6	1047.0	1057.3	1065.0	1065.0	1059.8	1065.0	1077.8	1077.8
27.5°	1085.5	1082.9	1062.4	1062.4	1075.2	1090.6	1082.9	1072.7	1077.8	1090.6	1090.6
30°	1108.6	1106.0	1085.5	1085.5	1103.4	1121.4	1103.4	1090.6	1098.3	1111.1	1113.7
32.5°	1141.9	1141.9	1124.0	1118.8	1149.6	1157.3	1149.6	1124.0	1129.1	1147.1	1147.1
35°	1198.4	1193.3	1175.3	1172.7	1203.5	1201.0	1198.4	1175.3	1180.4	1201.0	1201.0
37.5°	1272.8	1270.2	1254.9	1247.2	1262.6	1252.3	1257.4	1247.2	1260.0	1275.4	1277.9
40°	1367.8	1365.2	1352.4	1342.1	1347.2	1331.8	1337.0	1342.1	1354.9	1365.2	1367.8
42.5°	1485.8	1485.8	1473.0	1455.0	1447.3	1439.6	1439.6	1449.9	1462.7	1475.5	1475.5
45°	1632.1	1632.1	1616.7	1598.7	1575.6	1562.8	1567.9	1578.2	1593.6	1609.0	1614.1
47.5°	1804.0	1804.0	1783.5	1765.5	1742.4	1727.0	1727.0	1732.2	1755.3	1768.1	1775.8
50°	1996.5	1988.8	1968.2	1950.3	1937.5	1916.9	1919.5	1916.9	1937.5	1955.4	1960.5
52.5°	2196.6	2194.1	2173.5	2168.4	2176.1	2165.8	2165.8	2140.2	2147.9	2158.1	2155.6
55°	2445.6	2437.9	2419.9	2430.2	2460.9	2476.3	2471.2	2430.2	2407.1	2412.2	2409.6
57.5°	2717.6	2709.9	2704.7	2735.5	2804.8	2869.0	2856.1	2761.2	2717.6	2720.1	2722.7
60°	2994.7	2994.7	3010.1	3087.1	3235.9	3341.1	3302.6	3143.5	3066.6	3051.2	3046.0
62.5°	3279.6	3287.3	3320.6	3448.9	3677.3	3851.8	3754.3	3528.5	3413.0	3382.2	3371.9
65°	3610.6	3618.3	3667.0	3826.1	4129.0	4336.8	4170.0	3957.0	3795.4	3731.2	3720.9
67.5°	4090.5	4095.6	4134.1	4288.1	4572.9	4739.7	4567.8	4377.9	4203.4	4129.0	4123.8
70°	4521.6	4526.7	4560.1	4762.8	5024.5	5083.6	4893.7	4652.4	4470.3	4411.2	4401.0
72.5°	4424.1	4442.0	4552.4	4868.0	5270.9	5347.9	4947.6	4585.7	4293.2	4195.7	4164.9
75°	3710.7	3738.9	3913.4	4388.1	5029.7	5247.8	4629.4	3964.7	3528.5	3341.1	3292.4
77.5°	2165.8	2271.1	2571.3	3179.5	4095.6	4539.5	3813.3	2902.3	2168.4	1860.5	1757.8
80°	592.8	649.2	867.4	1462.7	2568.7	3179.5	2432.7	1331.8	718.5	538.9	500.4
82.5°	187.3	248.9	315.6	420.9	1008.5	1675.7	903.3	392.6	307.9	254.0	225.8
85°	100.1	107.8	177.1	205.3	302.8	469.6	279.7	205.3	184.8	136.0	128.3
87.5°	51.3	53.9	100.1	100.1	133.4	110.3	120.6	110.3	105.2	66.7	59.0
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)