

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: P236743

Luminaire Tested: **ARCH-L-AF72-100-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236743
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-AF72-100-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14516 lumens
Efficiency: N/A
Efficacy: 142.3 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

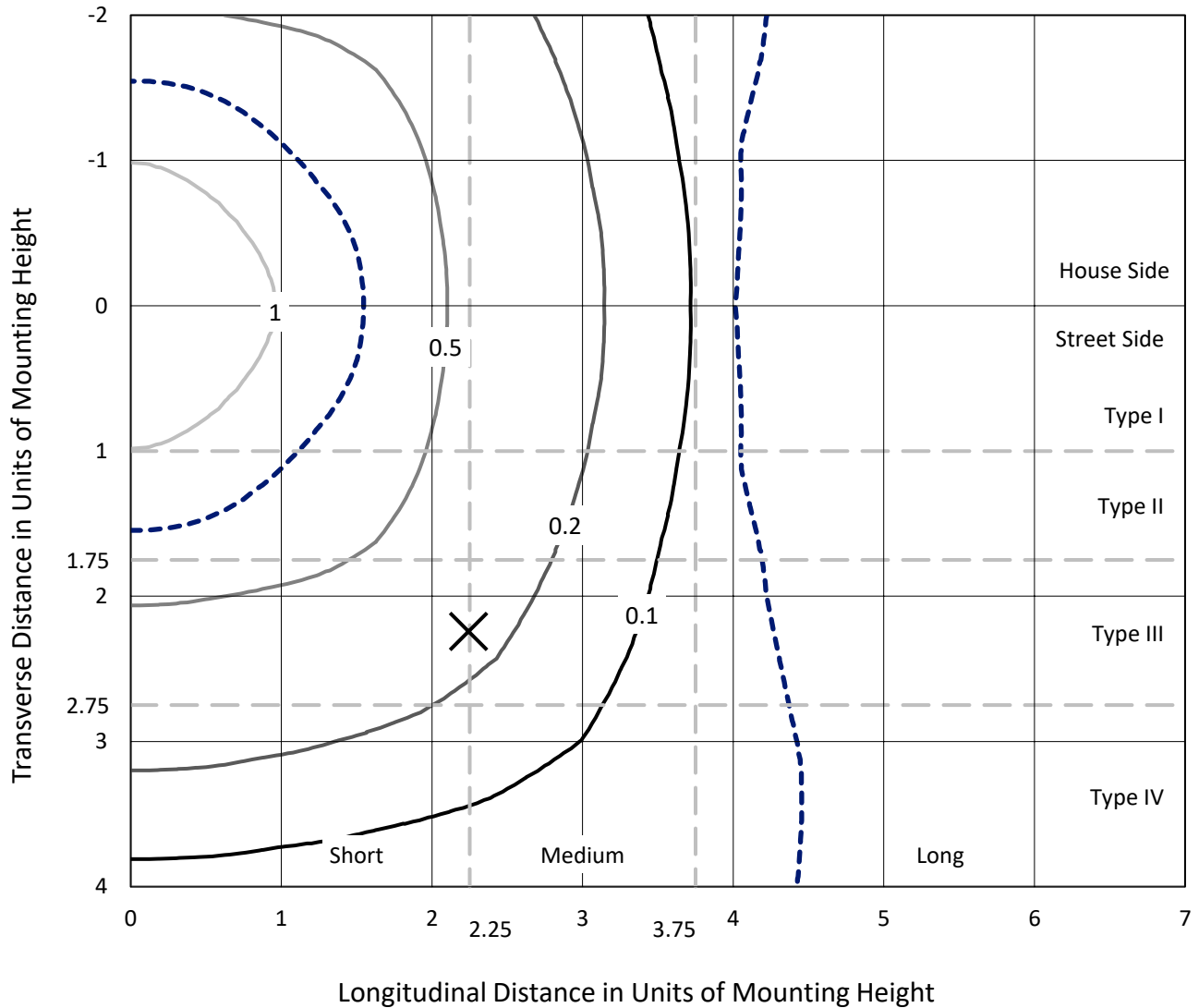
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

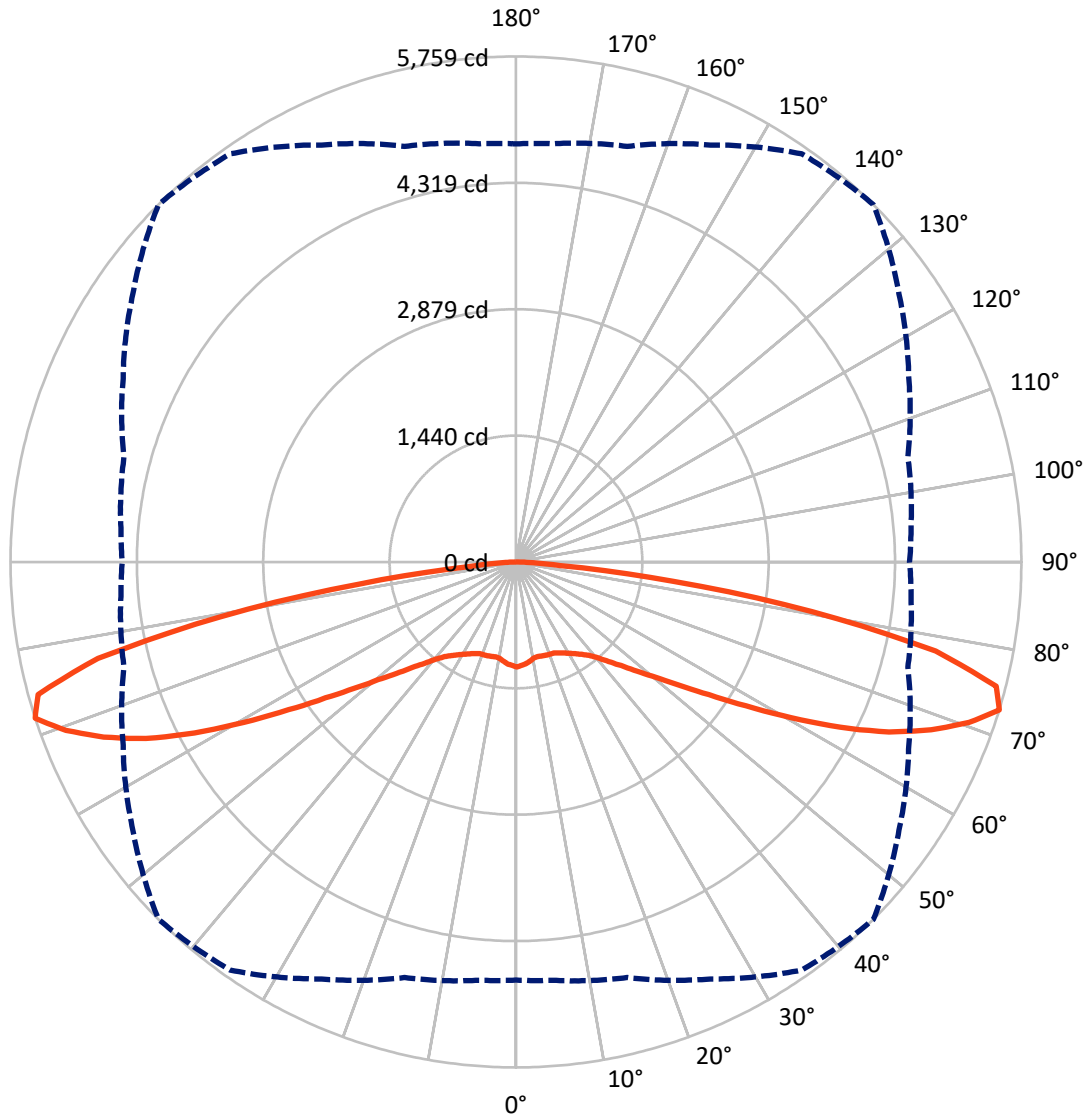
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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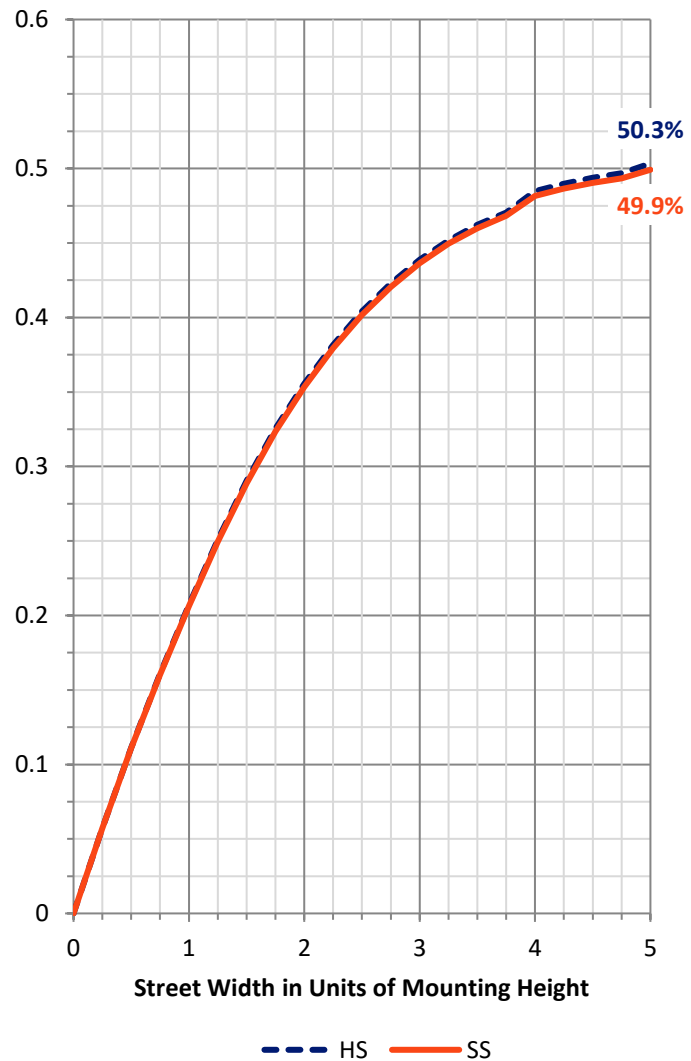
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7258.0	0.0	7258.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7258.0	0.0	7258.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14516.0	0.0	14516.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	0.8
10°-20°	317.6	2.2
20°-30°	531.6	3.7
30°-40°	816.7	5.6
40°-50°	1352.3	9.3
50°-60°	2404.1	16.6
60°-70°	4206.0	29.0
70°-80°	4279.3	29.5
80°-90°	498.3	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°	14516.0	100.0
0°-180°	14516.0	100.0



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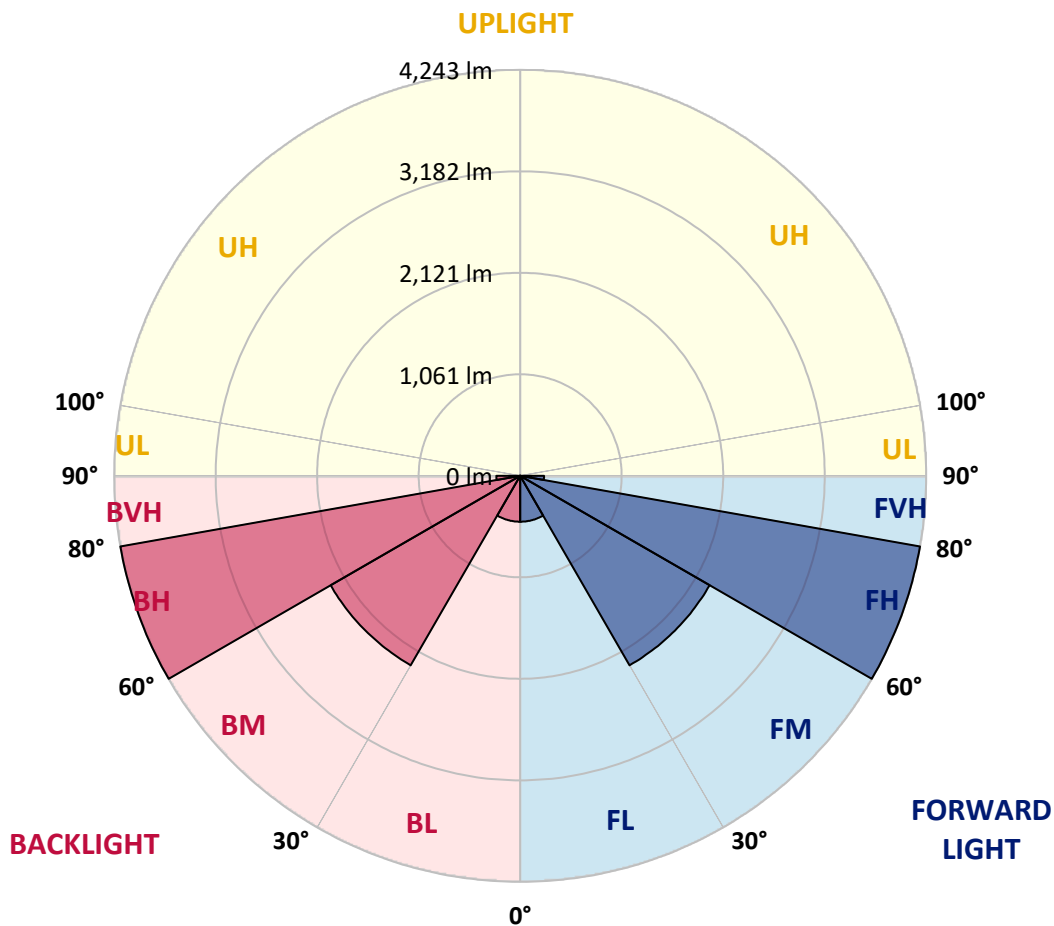
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.6	3.3			
FM (30°-60°)	2286.6	15.8			
FH (60°-80°)	4242.6	29.2			G2/5000
FVH (80°-90°)	249.2	1.7			G3/500
BL (0°-30°)	479.6	3.3	B1/500		
BM (30°-60°)	2286.6	15.8	B2/2500		
BH (60°-80°)	4242.6	29.2	B4/5000		G2/5000
BVH (80°-90°)	249.2	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°	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5	1196.5
2.5°	1185.4	1188.2	1182.6	1182.6	1182.6	1179.9	1182.6	1179.9	1182.6	1185.4	1185.4
5°	1174.4	1174.4	1168.8	1168.8	1168.8	1166.1	1168.8	1168.8	1171.6	1174.4	1174.4
7.5°	1149.5	1149.5	1146.7	1144.0	1141.2	1141.2	1144.0	1144.0	1146.7	1149.5	1149.5
10°	1135.7	1132.9	1127.4	1119.1	1116.3	1113.6	1119.1	1124.6	1132.9	1141.2	1138.4
12.5°	1130.1	1127.4	1116.3	1108.0	1102.5	1105.3	1110.8	1116.3	1130.1	1138.4	1135.7
15°	1135.7	1130.1	1116.3	1102.5	1105.3	1110.8	1116.3	1116.3	1132.9	1141.2	1141.2
17.5°	1135.7	1132.9	1116.3	1105.3	1108.0	1116.3	1119.1	1116.3	1130.1	1144.0	1144.0
20°	1138.4	1138.4	1116.3	1108.0	1110.8	1119.1	1121.8	1119.1	1130.1	1146.7	1146.7
22.5°	1144.0	1141.2	1119.1	1113.6	1119.1	1124.6	1127.4	1124.6	1135.7	1149.5	1152.2
25°	1155.0	1149.5	1130.1	1127.4	1138.4	1146.7	1146.7	1141.2	1146.7	1160.5	1160.5
27.5°	1168.8	1166.1	1144.0	1144.0	1157.8	1174.4	1166.1	1155.0	1160.5	1174.4	1174.4
30°	1193.7	1190.9	1168.8	1168.8	1188.2	1207.5	1188.2	1174.4	1182.6	1196.5	1199.2
32.5°	1229.6	1229.6	1210.3	1204.7	1237.9	1246.2	1237.9	1210.3	1215.8	1235.1	1235.1
35°	1290.4	1284.9	1265.5	1262.8	1295.9	1293.2	1290.4	1265.5	1271.1	1293.2	1293.2
37.5°	1370.5	1367.8	1351.2	1342.9	1359.5	1348.4	1354.0	1342.9	1356.7	1373.3	1376.1
40°	1472.8	1470.0	1456.2	1445.1	1450.7	1434.1	1439.6	1445.1	1459.0	1470.0	1472.8
42.5°	1599.9	1599.9	1586.1	1566.7	1558.4	1550.1	1550.1	1561.2	1575.0	1588.8	1588.8
45°	1757.4	1757.4	1740.8	1721.5	1696.6	1682.8	1688.3	1699.4	1715.9	1732.5	1738.0
47.5°	1942.5	1942.5	1920.4	1901.1	1876.2	1859.6	1859.6	1865.1	1890.0	1903.8	1912.1
50°	2149.8	2141.5	2119.4	2100.0	2086.2	2064.1	2066.9	2064.1	2086.2	2105.5	2111.1
52.5°	2365.3	2362.5	2340.4	2334.9	2343.2	2332.1	2332.1	2304.5	2312.8	2323.8	2321.1
55°	2633.3	2625.0	2605.7	2616.7	2649.9	2666.5	2660.9	2616.7	2591.9	2597.4	2594.6
57.5°	2926.2	2917.9	2912.4	2945.5	3020.2	3089.2	3075.4	2973.2	2926.2	2929.0	2931.7
60°	3224.6	3224.6	3241.2	3324.1	3484.4	3597.7	3556.2	3384.9	3302.0	3285.4	3279.9
62.5°	3531.3	3539.6	3575.6	3713.7	3959.6	4147.5	4042.5	3799.4	3675.0	3641.9	3630.8
65°	3887.8	3896.1	3948.6	4119.9	4446.0	4669.8	4490.2	4260.8	4086.7	4017.7	4006.6
67.5°	4404.5	4410.0	4451.5	4617.3	4924.0	5103.6	4918.5	4714.0	4526.1	4446.0	4440.4
70°	4868.7	4874.2	4910.2	5128.5	5410.3	5473.9	5269.4	5009.6	4813.5	4749.9	4738.8
72.5°	4763.7	4783.1	4901.9	5241.7	5675.6	5758.5	5327.4	4937.8	4622.8	4517.8	4484.6
75°	3995.6	4025.9	4213.8	4725.0	5415.8	5650.7	4984.8	4269.1	3799.4	3597.7	3545.2
77.5°	2332.1	2445.4	2768.7	3423.6	4410.0	4888.1	4106.1	3125.2	2334.9	2003.3	1892.8
80°	638.3	699.1	934.0	1575.0	2765.9	3423.6	2619.5	1434.1	773.7	580.3	538.8
82.5°	201.7	268.0	339.9	453.2	1085.9	1804.4	972.6	422.8	331.6	273.6	243.2
85°	107.8	116.1	190.7	221.1	326.1	505.7	301.2	221.1	198.9	146.4	138.2
87.5°	55.3	58.0	107.8	107.8	143.7	118.8	129.9	118.8	113.3	71.8	63.6
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)