

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: P236703

Luminaire Tested: **ARCH-L-AF72-100-D-U-5WQ-7030**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P236703  
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-AF72-100-D-U-5WQ-7030  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 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: 14039.8 lumens  
Efficiency: N/A  
Efficacy: 137.6 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

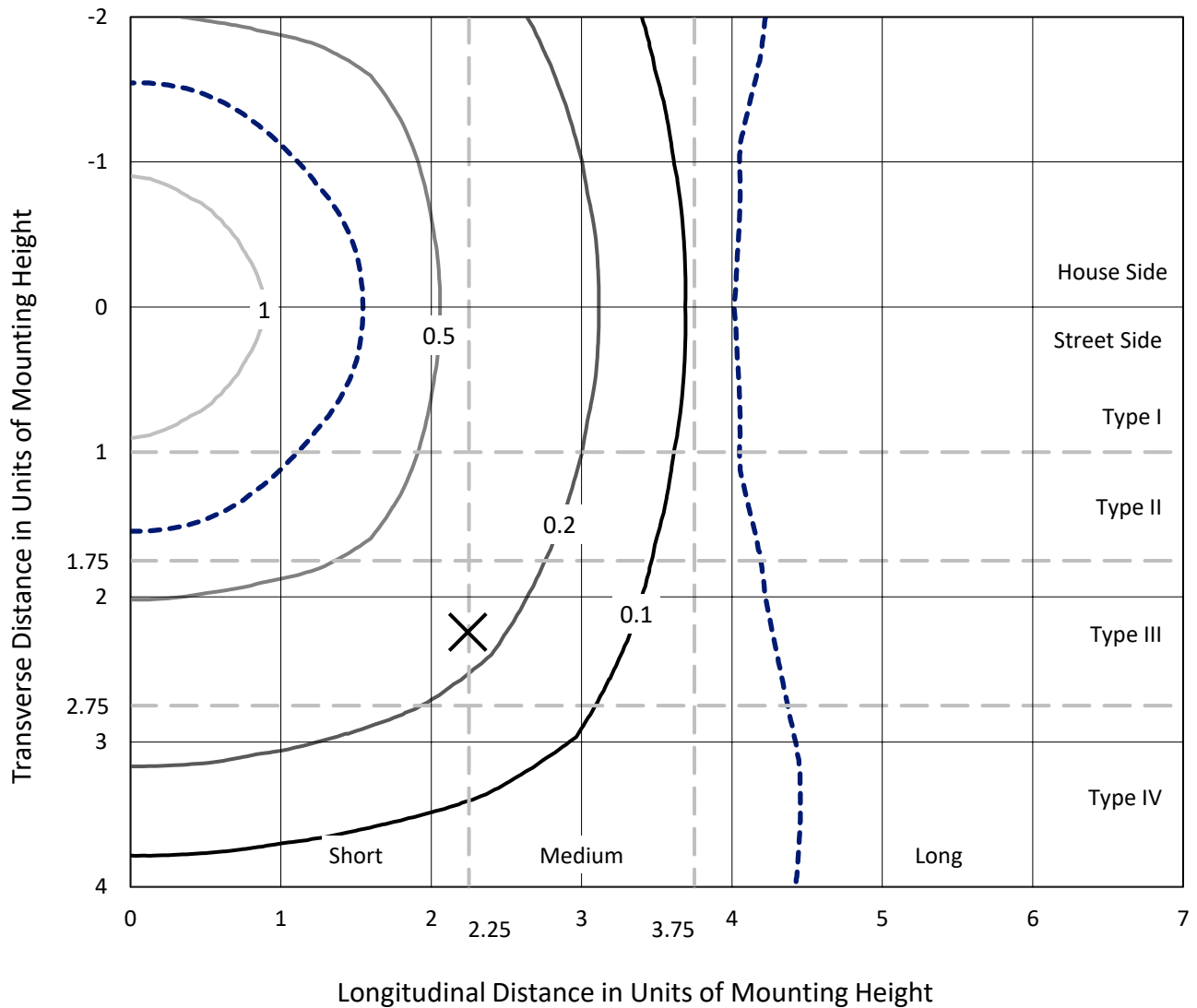
Input Watts (W): 102  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

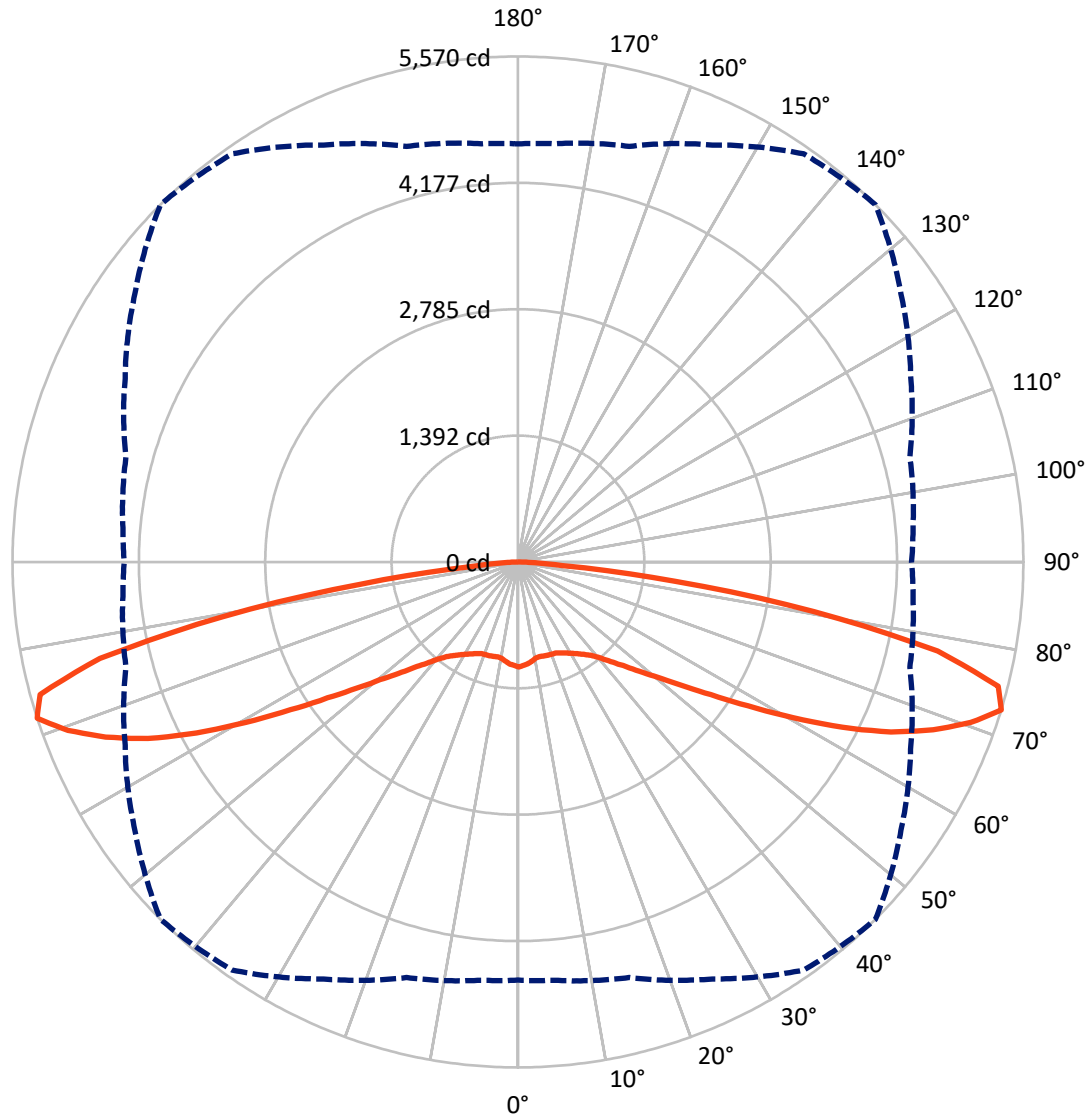
✕ Max cd  
 - - - 1/2 Max cd



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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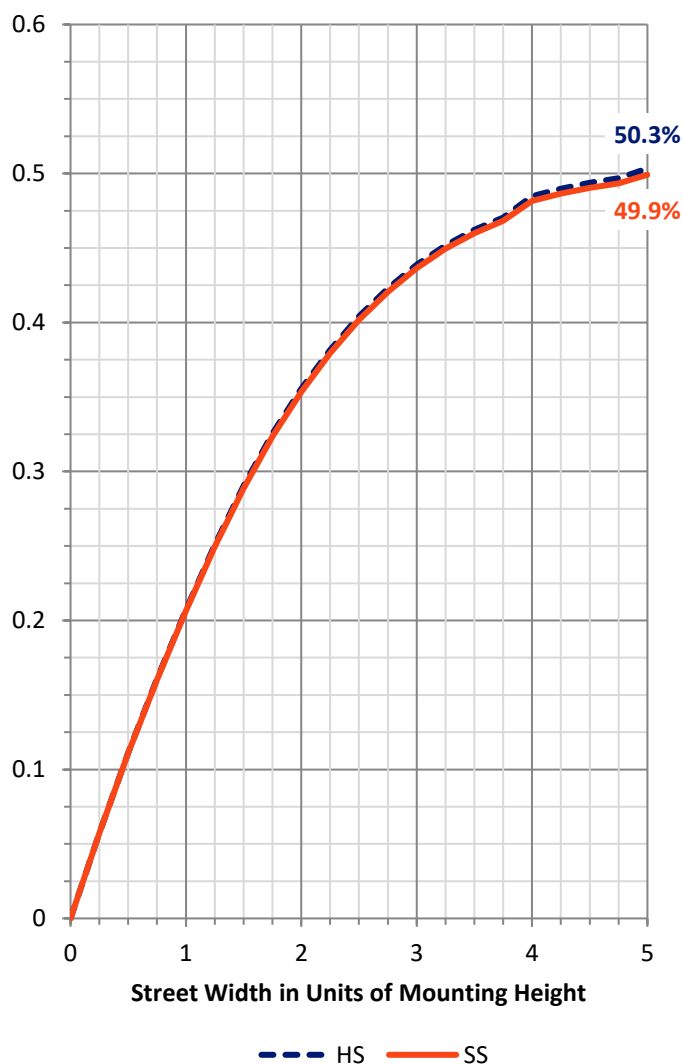
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7019.9	0.0	7019.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7019.9	0.0	7019.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14039.8	0.0	14039.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.5	0.8
10°-20°	307.2	2.2
20°-30°	514.1	3.7
30°-40°	789.9	5.6
40°-50°	1307.9	9.3
50°-60°	2325.3	16.6
60°-70°	4068.0	29.0
70°-80°	4138.9	29.5
80°-90°	481.9	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°	14039.8	100.0
0°-180°	14039.8	100.0

**Coefficient of Utilization**



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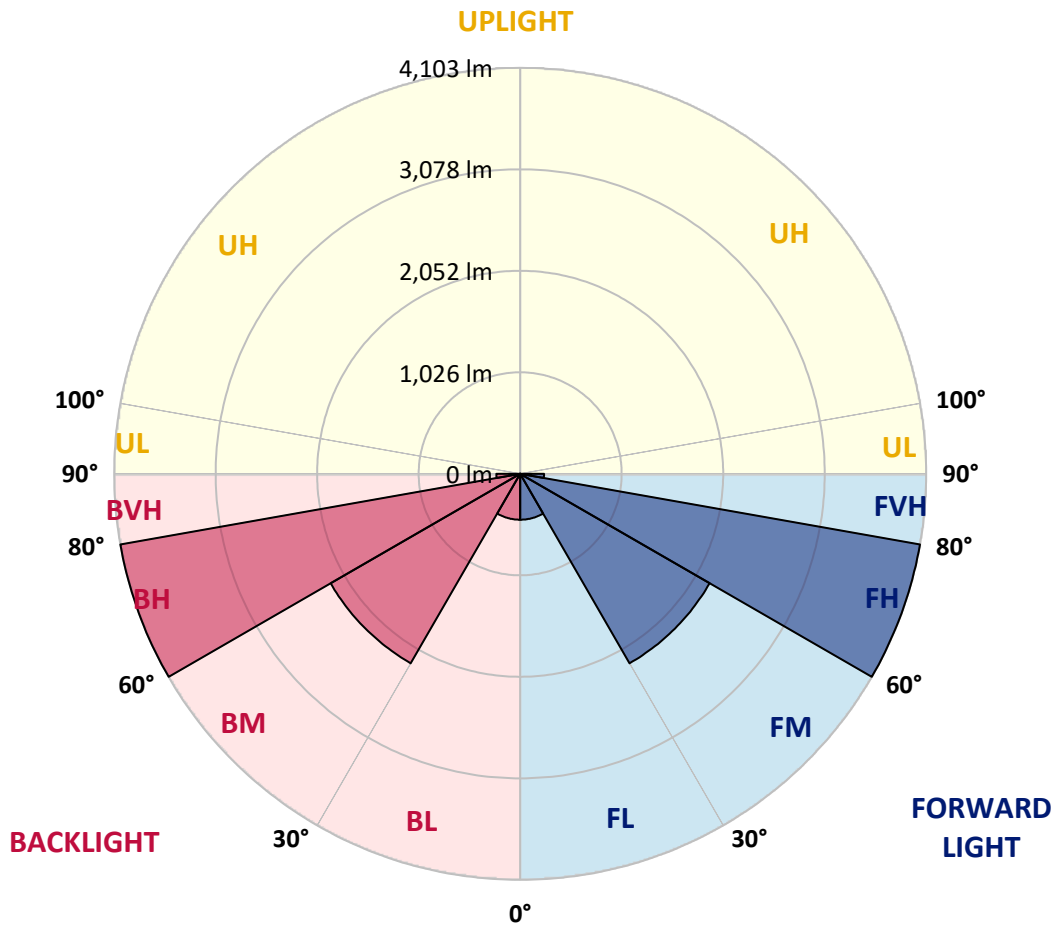
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.9	3.3			
FM (30°-60°)	2211.6	15.8			
FH (60°-80°)	4103.5	29.2			G2/5000
FVH (80°-90°)	241.0	1.7			G3/500
BL (0°-30°)	463.9	3.3	B1/500		
BM (30°-60°)	2211.6	15.8	B2/2500		
BH (60°-80°)	4103.5	29.2	B4/5000		G2/5000
BVH (80°-90°)	241.0	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°	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2
2.5°	1146.5	1149.2	1143.8	1143.8	1143.8	1141.2	1143.8	1141.2	1143.8	1146.5	1146.5
5°	1135.9	1135.9	1130.5	1130.5	1130.5	1127.8	1130.5	1130.5	1133.1	1135.9	1135.9
7.5°	1111.8	1111.8	1109.1	1106.5	1103.7	1103.7	1106.5	1106.5	1109.1	1111.8	1111.8
10°	1098.4	1095.8	1090.4	1082.3	1079.7	1077.1	1082.3	1087.6	1095.8	1103.7	1101.2
12.5°	1093.0	1090.4	1079.7	1071.8	1066.4	1069.0	1074.3	1079.7	1093.0	1101.2	1098.4
15°	1098.4	1093.0	1079.7	1066.4	1069.0	1074.3	1079.7	1079.7	1095.8	1103.7	1103.7
17.5°	1098.4	1095.8	1079.7	1069.0	1071.8	1079.7	1082.3	1079.7	1093.0	1106.5	1106.5
20°	1101.2	1101.2	1079.7	1071.8	1074.3	1082.3	1085.1	1082.3	1093.0	1109.1	1109.1
22.5°	1106.5	1103.7	1082.3	1077.1	1082.3	1087.6	1090.4	1087.6	1098.4	1111.8	1114.5
25°	1117.0	1111.8	1093.0	1090.4	1101.2	1109.1	1109.1	1103.7	1109.1	1122.4	1122.4
27.5°	1130.5	1127.8	1106.5	1106.5	1119.8	1135.9	1127.8	1117.0	1122.4	1135.9	1135.9
30°	1154.6	1151.8	1130.5	1130.5	1149.2	1167.9	1149.2	1135.9	1143.8	1157.2	1159.9
32.5°	1189.3	1189.3	1170.6	1165.2	1197.3	1205.3	1197.3	1170.6	1175.9	1194.6	1194.6
35°	1248.1	1242.8	1224.0	1221.3	1253.4	1250.8	1248.1	1224.0	1229.3	1250.8	1250.8
37.5°	1325.6	1322.9	1306.8	1298.9	1314.9	1304.2	1309.6	1298.9	1312.2	1328.3	1330.9
40°	1424.4	1421.8	1408.5	1397.8	1403.1	1387.0	1392.4	1397.8	1411.1	1421.8	1424.4
42.5°	1547.4	1547.4	1534.0	1515.3	1507.3	1499.2	1499.2	1510.0	1523.3	1536.7	1536.7
45°	1699.7	1699.7	1683.6	1665.0	1641.0	1627.5	1632.9	1643.6	1659.6	1675.7	1681.1
47.5°	1878.8	1878.8	1857.4	1838.8	1814.7	1798.6	1798.6	1804.0	1828.0	1841.3	1849.4
50°	2079.2	2071.2	2049.8	2031.1	2017.8	1996.3	1999.0	1996.3	2017.8	2036.5	2041.8
52.5°	2287.7	2285.0	2263.7	2258.3	2266.2	2255.6	2255.6	2228.9	2236.9	2247.6	2245.0
55°	2547.0	2538.8	2520.2	2530.9	2563.0	2578.9	2573.6	2530.9	2506.9	2512.2	2509.4
57.5°	2830.3	2822.1	2816.8	2848.9	2921.0	2987.9	2974.6	2875.6	2830.3	2832.9	2835.6
60°	3118.8	3118.8	3134.8	3215.1	3370.1	3479.7	3439.6	3273.9	3193.6	3177.7	3172.4
62.5°	3415.5	3423.5	3458.3	3591.9	3829.7	4011.5	3910.0	3674.7	3554.4	3522.4	3511.7
65°	3760.2	3768.3	3819.0	3984.8	4300.1	4516.6	4342.8	4121.0	3952.7	3886.0	3875.2
67.5°	4260.0	4265.4	4305.5	4465.8	4762.5	4936.2	4757.1	4559.4	4377.6	4300.1	4294.8
70°	4709.0	4714.3	4749.1	4960.3	5232.9	5294.2	5096.5	4845.3	4655.5	4594.2	4583.4
72.5°	4607.5	4626.1	4741.1	5069.8	5489.4	5569.6	5152.6	4775.8	4471.1	4369.6	4337.5
75°	3864.5	3893.9	4075.6	4570.0	5238.2	5465.3	4821.3	4129.0	3674.7	3479.7	3428.9
77.5°	2255.6	2365.3	2677.8	3311.3	4265.4	4727.7	3971.3	3022.6	2258.3	1937.6	1830.6
80°	617.4	676.2	903.3	1523.3	2675.2	3311.3	2533.6	1387.0	748.3	561.3	521.1
82.5°	195.1	259.3	328.8	438.3	1050.3	1745.2	940.7	408.8	320.6	264.6	235.2
85°	104.3	112.2	184.4	213.8	315.3	489.1	291.2	213.8	192.4	141.6	133.7
87.5°	53.4	56.2	104.3	104.3	139.0	114.9	125.6	114.9	109.6	69.5	61.5
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)