

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: P400478

Luminaire Tested: **ARCH-L-PA3-90-722-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-90-722-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 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: 11776 lumens  
Efficiency: N/A  
Efficacy: 126.6 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

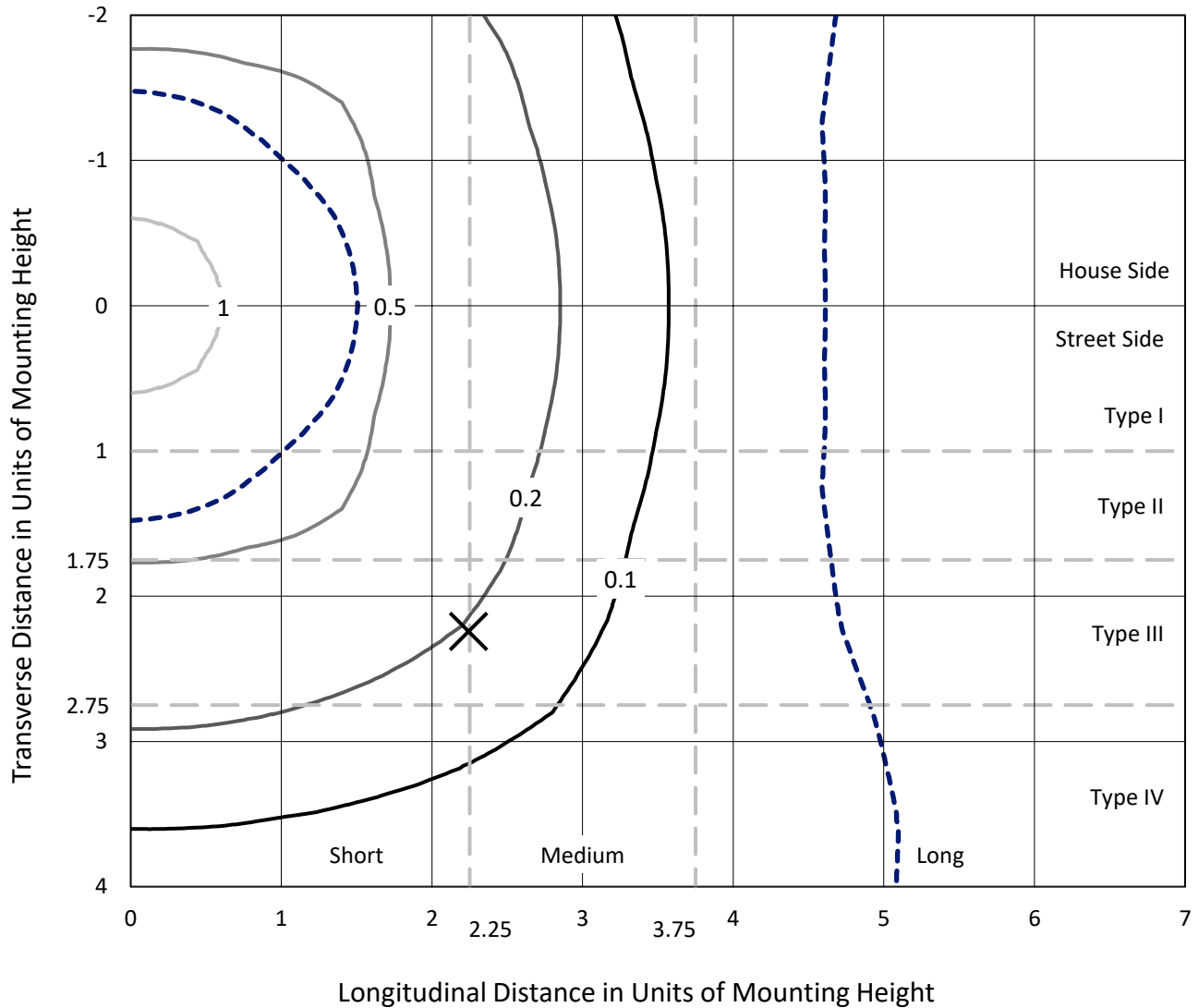
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

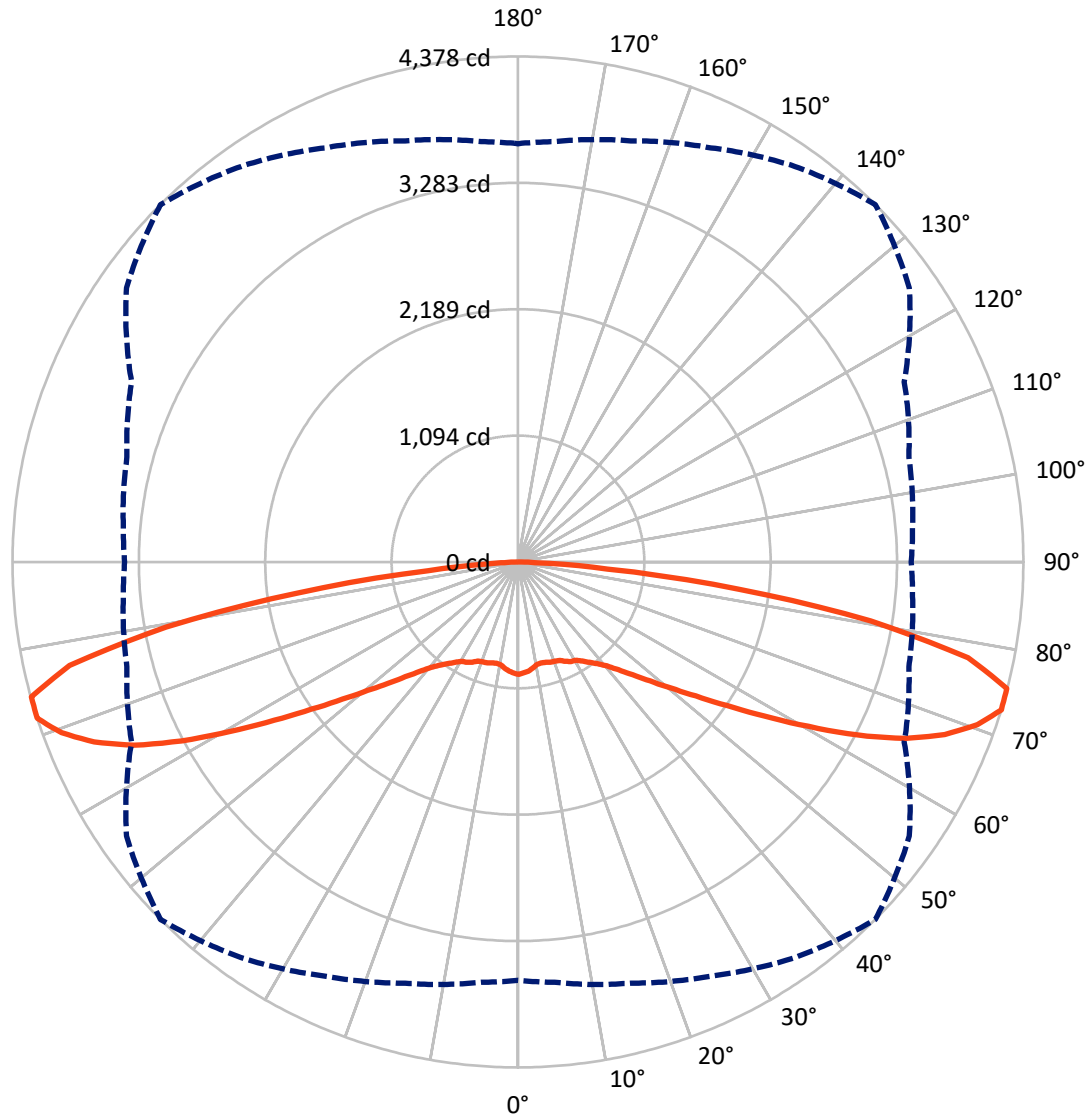
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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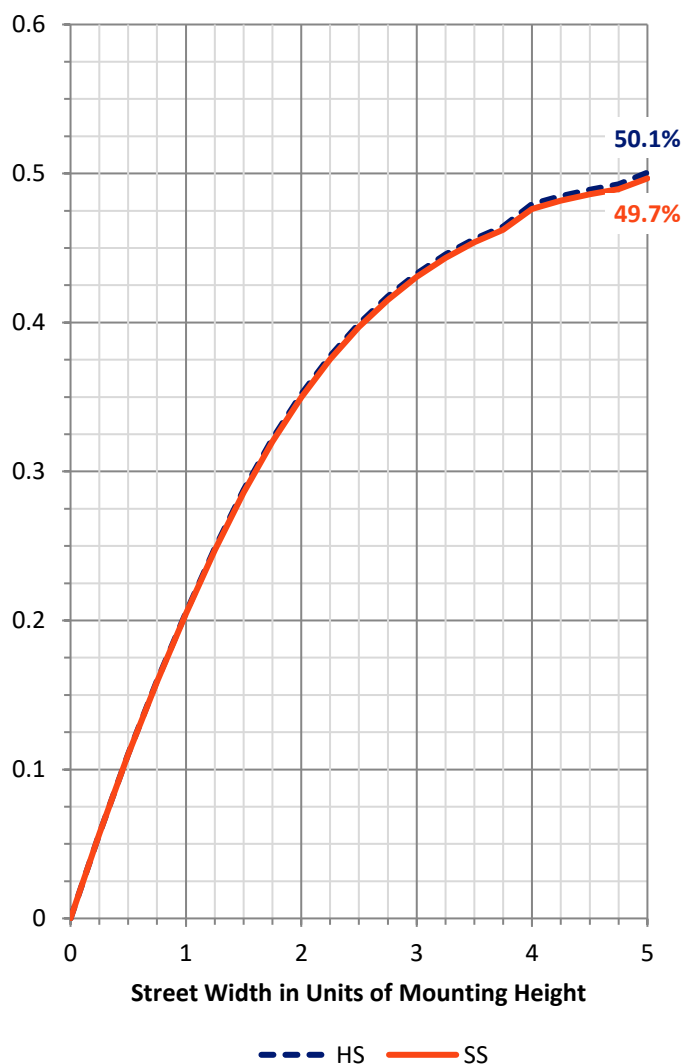
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5888.0	0.0	5888.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5888.0	0.0	5888.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11776.0	0.0	11776.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.4	0.8
10°-20°	259.4	2.2
20°-30°	440.7	3.7
30°-40°	672.2	5.7
40°-50°	1106.9	9.4
50°-60°	1933.0	16.4
60°-70°	3240.6	27.5
70°-80°	3468.1	29.5
80°-90°	565.7	4.8
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°	11776.0	100.0
0°-180°	11776.0	100.0

**Coefficient of Utilization**



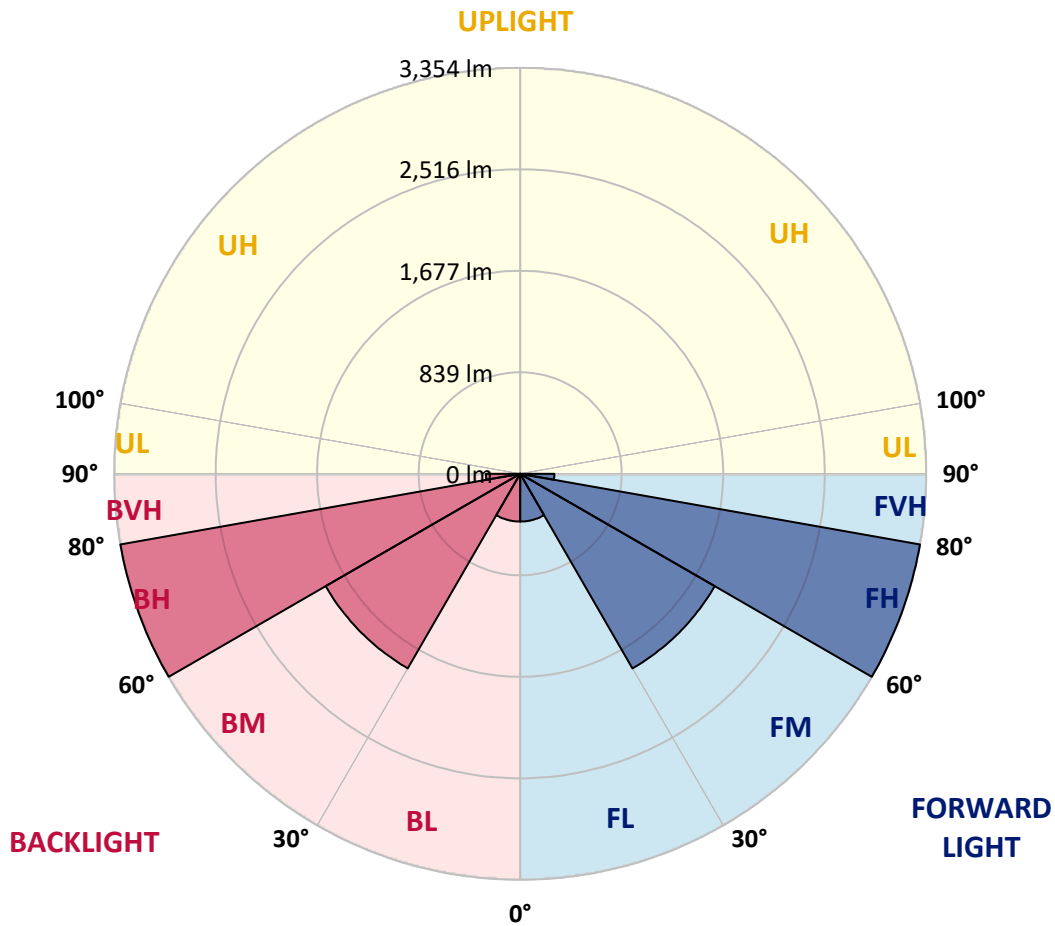
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	394.7	3.4			
FM (30°-60°)	1856.0	15.8			
FH (60°-80°)	3354.4	28.5			G2/5000
FVH (80°-90°)	282.8	2.4			G3/500
BL (0°-30°)	394.7	3.4	B1/500		
BM (30°-60°)	1856.0	15.8	B2/2500		
BH (60°-80°)	3354.4	28.5	B4/5000		G2/5000
BVH (80°-90°)	282.8	2.4			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°	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5
2.5°	968.5	968.5	968.5	967.0	964.0	962.4	959.4	960.9	960.9	960.9	960.9
5°	956.4	956.4	954.9	953.4	950.4	948.9	945.9	948.9	948.9	948.9	948.9
7.5°	933.9	935.4	935.4	933.9	929.4	927.9	923.3	924.9	924.9	926.4	924.9
10°	921.8	921.8	920.3	912.8	905.3	902.3	900.8	905.3	909.8	914.3	914.3
12.5°	921.8	921.8	918.8	906.8	896.3	896.3	896.3	902.3	911.3	920.3	921.8
15°	926.4	926.4	920.3	906.8	900.8	902.3	902.3	908.3	918.8	930.9	932.4
17.5°	929.4	929.4	921.8	908.3	908.3	912.8	909.8	914.3	924.9	938.4	939.9
20°	933.9	933.9	923.3	912.8	912.8	917.3	917.3	921.8	930.9	944.4	945.9
22.5°	942.9	941.4	930.9	921.8	921.8	924.9	927.9	933.9	941.4	953.4	956.4
25°	953.4	953.4	944.4	942.9	945.9	953.4	951.9	950.4	953.4	964.0	968.5
27.5°	959.4	959.4	953.4	957.9	970.0	976.0	968.5	962.4	962.4	973.0	974.5
30°	979.0	977.5	971.5	974.5	985.0	988.0	983.5	976.0	980.5	992.5	994.0
32.5°	1012.1	1012.1	1003.0	1003.0	1010.6	1022.6	1007.6	1003.0	1009.1	1022.6	1024.1
35°	1063.2	1063.2	1051.2	1045.2	1051.2	1067.7	1045.2	1043.7	1054.2	1069.2	1070.7
37.5°	1127.9	1127.9	1120.3	1105.3	1106.8	1117.3	1097.8	1096.3	1115.8	1132.4	1132.4
40°	1209.1	1213.6	1206.1	1188.0	1182.0	1183.5	1168.5	1170.0	1192.5	1212.1	1212.1
42.5°	1309.8	1312.8	1300.8	1287.3	1279.8	1275.2	1260.2	1263.2	1290.3	1315.8	1315.8
45°	1431.6	1433.1	1421.1	1404.6	1395.5	1392.5	1377.5	1385.0	1415.1	1442.2	1440.7
47.5°	1568.5	1570.0	1558.0	1541.4	1535.4	1539.9	1524.9	1524.9	1551.9	1574.5	1571.5
50°	1723.4	1726.4	1712.9	1705.3	1700.8	1712.9	1694.8	1678.3	1696.3	1718.9	1715.9
52.5°	1894.8	1902.3	1893.3	1896.3	1912.9	1927.9	1897.8	1861.7	1870.8	1885.8	1881.3
55°	2102.3	2111.4	2114.4	2124.9	2168.5	2194.1	2144.5	2084.3	2079.8	2081.3	2073.8
57.5°	2335.4	2341.5	2361.0	2385.1	2475.3	2515.9	2437.7	2333.9	2300.8	2281.3	2276.8
60°	2570.0	2580.6	2628.7	2678.3	2816.7	2890.3	2770.0	2595.6	2524.9	2488.8	2481.3
62.5°	2806.1	2827.2	2905.4	2989.6	3191.1	3300.9	3115.9	2863.3	2761.0	2715.9	2703.9
65°	3079.8	3105.4	3200.1	3306.9	3531.0	3685.9	3461.8	3140.0	3030.2	2970.0	2955.0
67.5°	3400.1	3427.2	3503.9	3622.7	3834.7	3986.6	3788.1	3422.7	3279.8	3203.1	3191.1
70°	3663.3	3687.4	3770.1	3890.4	4048.3	4221.2	4031.7	3648.3	3518.9	3464.8	3457.3
72.5°	3622.7	3654.3	3776.1	3956.6	4182.1	4377.6	4138.5	3691.9	3505.4	3430.2	3406.2
75°	3164.0	3198.6	3343.0	3669.3	4081.4	4373.1	3983.6	3401.6	3182.1	3118.9	3106.9
77.5°	2094.8	2127.9	2371.5	2885.8	3564.1	3985.1	3515.9	2849.7	2496.3	2344.5	2335.4
80°	846.7	888.8	1121.9	1667.7	2526.4	3097.9	2607.6	1824.1	1230.1	992.5	944.4
82.5°	197.0	234.6	341.4	615.1	1293.3	1929.4	1406.1	681.2	395.5	281.2	252.6
85°	82.7	84.2	145.9	200.0	404.5	779.0	460.2	248.1	201.5	147.4	144.4
87.5°	31.6	33.1	70.7	84.2	129.3	147.4	156.4	127.8	118.8	73.7	70.7
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)