

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: P399110

Luminaire Tested: **ARCH-L-PA3-100-722-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399110  
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-PA3-100-722-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 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: 12680 lumens  
Efficiency: N/A  
Efficacy: 124.3 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

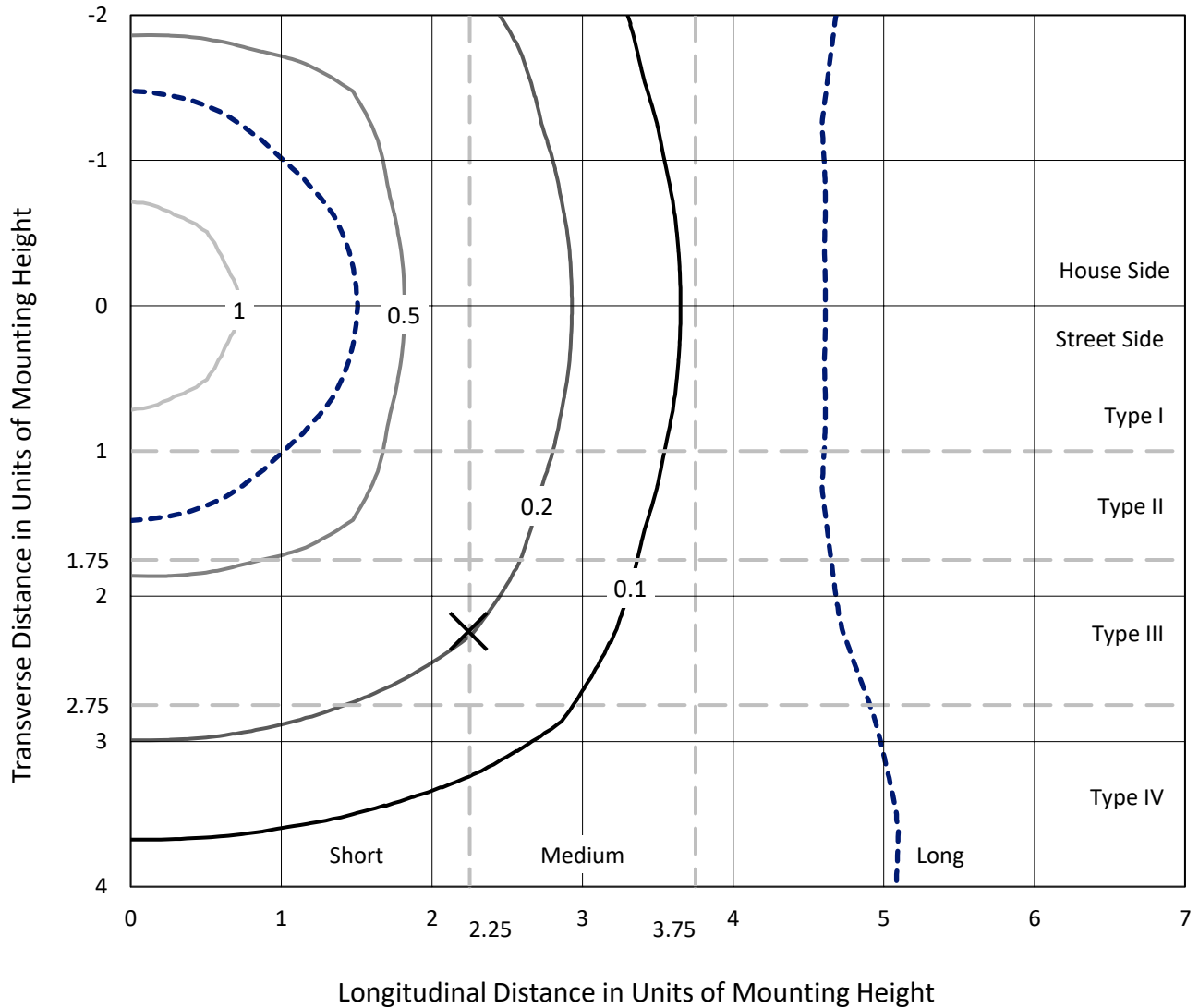
Input Watts (W): 102  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

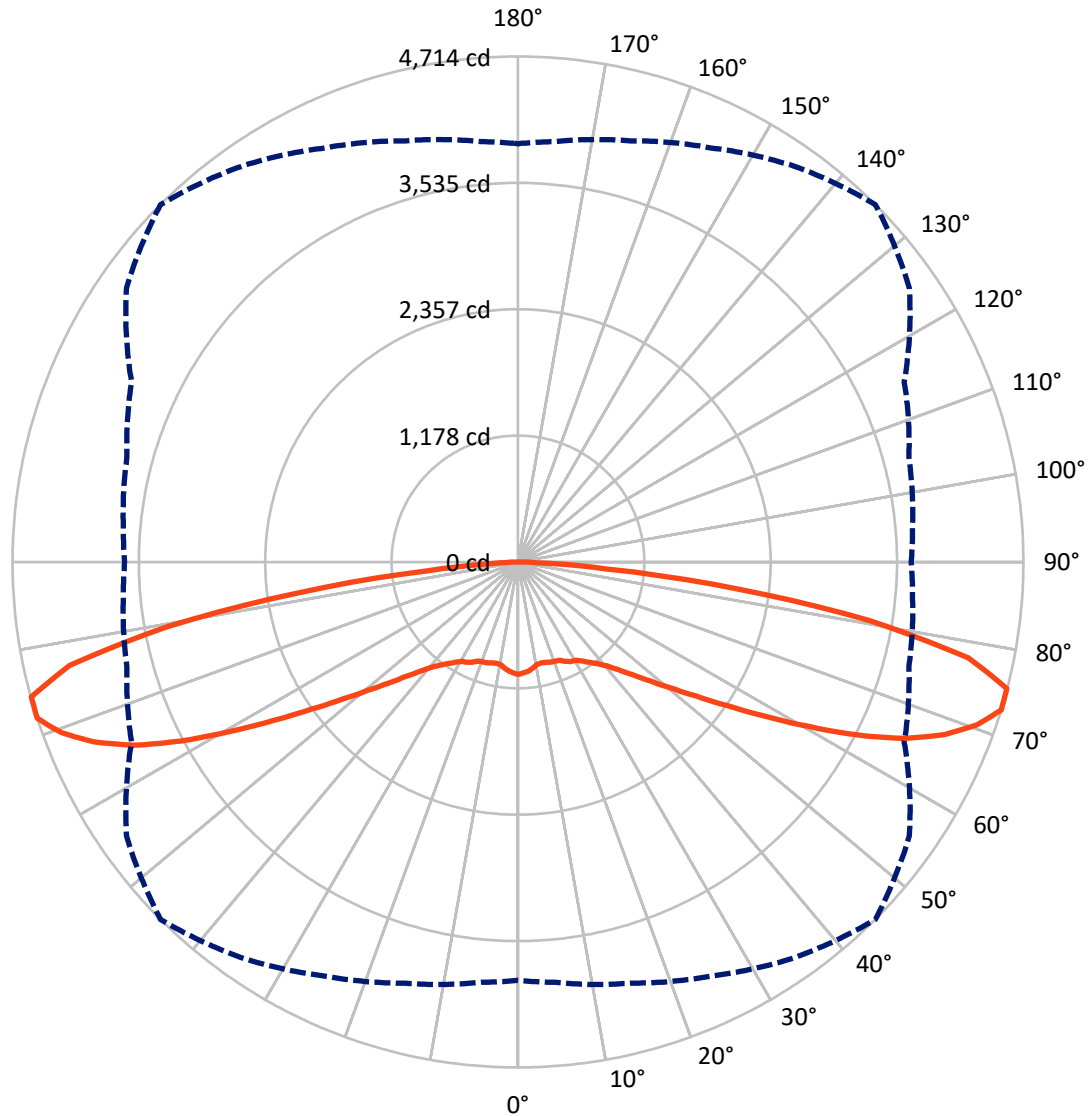
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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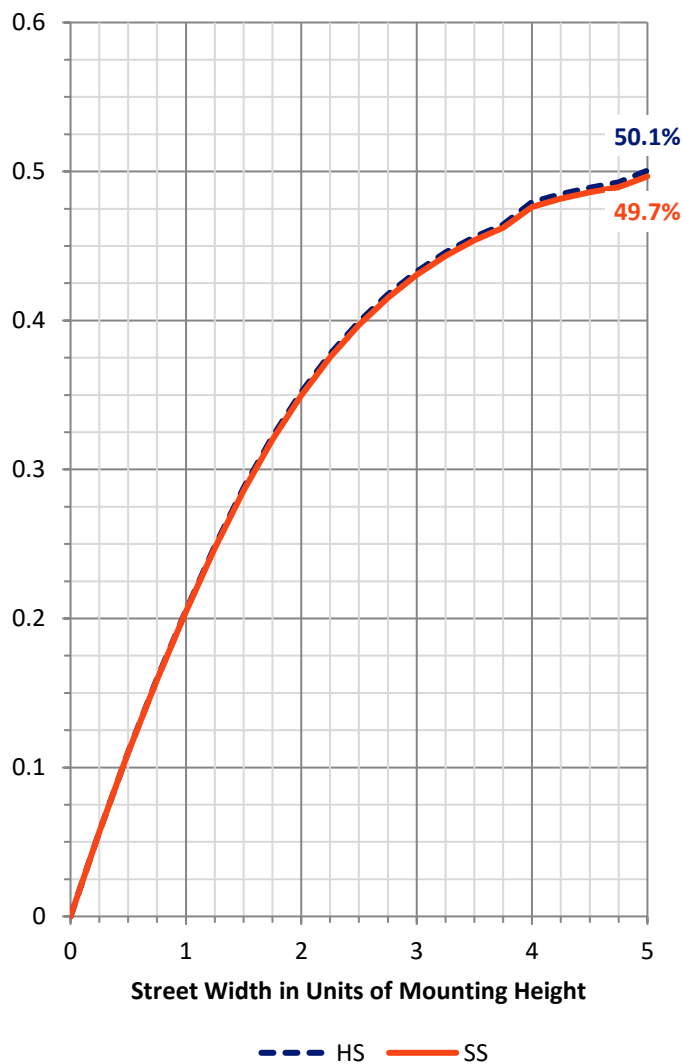
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6340.0	0.0	6340.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6340.0	0.0	6340.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12680.0	0.0	12680.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.2	0.8
10°-20°	279.3	2.2
20°-30°	474.6	3.7
30°-40°	723.8	5.7
40°-50°	1191.9	9.4
50°-60°	2081.3	16.4
60°-70°	3489.4	27.5
70°-80°	3734.4	29.5
80°-90°	609.1	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°	12680.0	100.0
0°-180°	12680.0	100.0

**Coefficient of Utilization**



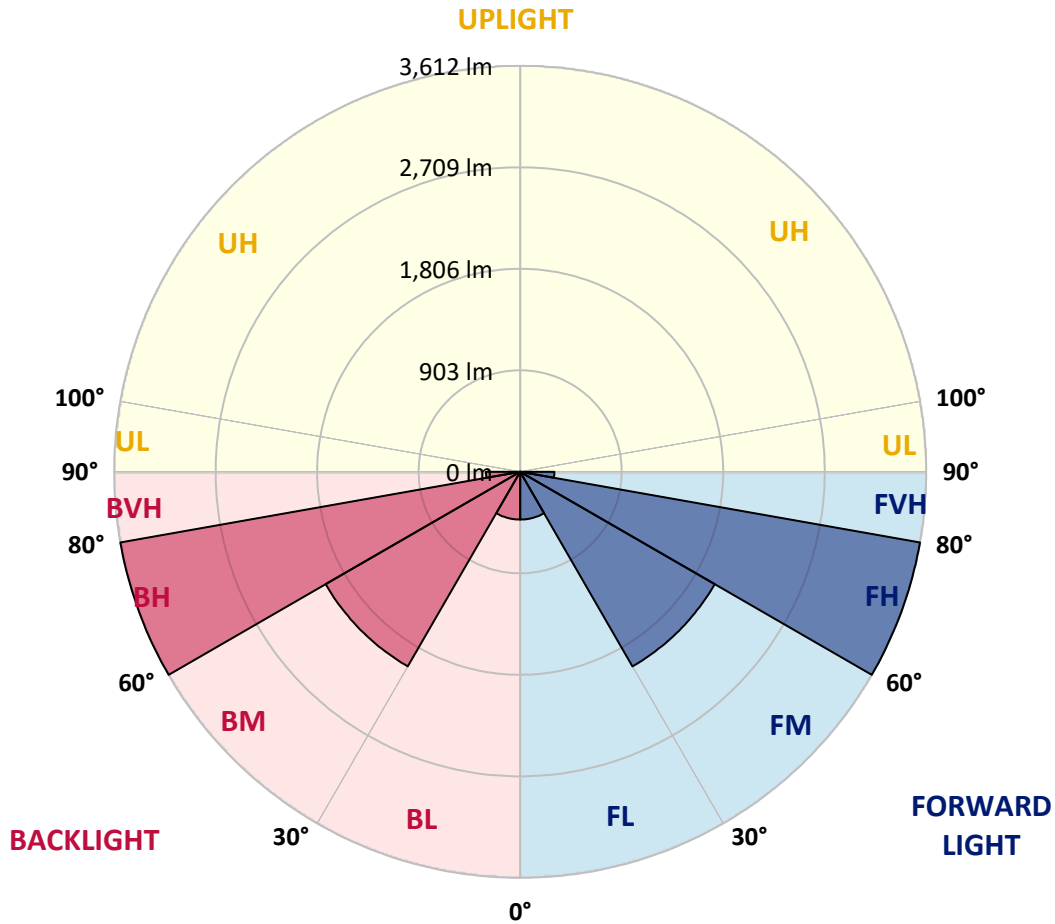
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	425.0	3.4			
FM (30°-60°)	1998.5	15.8			
FH (60°-80°)	3611.9	28.5			G2/5000
FVH (80°-90°)	304.5	2.4			G3/500
BL (0°-30°)	425.0	3.4	B1/500		
BM (30°-60°)	1998.5	15.8	B2/2500		
BH (60°-80°)	3611.9	28.5	B4/5000		G2/5000
BVH (80°-90°)	304.5	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°	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3	1049.3
2.5°	1042.8	1042.8	1042.8	1041.2	1037.9	1036.3	1033.1	1034.7	1034.7	1034.7	1034.7
5°	1029.9	1029.9	1028.2	1026.6	1023.4	1021.8	1018.5	1021.8	1021.8	1021.8	1021.8
7.5°	1005.6	1007.2	1007.2	1005.6	1000.7	999.1	994.2	995.8	995.8	997.5	995.8
10°	992.6	992.6	991.0	982.9	974.8	971.6	969.9	974.8	979.7	984.5	984.5
12.5°	992.6	992.6	989.4	976.4	965.1	965.1	965.1	971.6	981.3	991.0	992.6
15°	997.5	997.5	991.0	976.4	969.9	971.6	971.6	978.0	989.4	1002.3	1003.9
17.5°	1000.7	1000.7	992.6	978.0	978.0	982.9	979.7	984.5	995.8	1010.4	1012.0
20°	1005.6	1005.6	994.2	982.9	982.9	987.8	987.8	992.6	1002.3	1016.9	1018.5
22.5°	1015.3	1013.7	1002.3	992.6	992.6	995.8	999.1	1005.6	1013.7	1026.6	1029.9
25°	1026.6	1026.6	1016.9	1015.3	1018.5	1026.6	1025.0	1023.4	1026.6	1037.9	1042.8
27.5°	1033.1	1033.1	1026.6	1031.5	1044.4	1050.9	1042.8	1036.3	1036.3	1047.7	1049.3
30°	1054.1	1052.5	1046.0	1049.3	1060.6	1063.9	1059.0	1050.9	1055.8	1068.7	1070.3
32.5°	1089.8	1089.8	1080.1	1080.1	1088.1	1101.1	1084.9	1080.1	1086.5	1101.1	1102.7
35°	1144.8	1144.8	1131.9	1125.4	1131.9	1149.7	1125.4	1123.8	1135.1	1151.3	1152.9
37.5°	1214.4	1214.4	1206.4	1190.2	1191.8	1203.1	1182.1	1180.4	1201.5	1219.3	1219.3
40°	1301.9	1306.7	1298.7	1279.2	1272.7	1274.4	1258.2	1259.8	1284.1	1305.1	1305.1
42.5°	1410.4	1413.6	1400.7	1386.1	1378.0	1373.1	1356.9	1360.2	1389.3	1416.9	1416.9
45°	1541.5	1543.2	1530.2	1512.4	1502.7	1499.4	1483.2	1491.3	1523.7	1552.9	1551.3
47.5°	1688.9	1690.5	1677.6	1659.7	1653.3	1658.1	1641.9	1641.9	1671.1	1695.4	1692.1
50°	1855.7	1858.9	1844.3	1836.2	1831.4	1844.3	1824.9	1807.1	1826.5	1850.8	1847.6
52.5°	2040.3	2048.4	2038.7	2041.9	2059.7	2075.9	2043.5	2004.7	2014.4	2030.6	2025.7
55°	2263.7	2273.4	2276.7	2288.0	2335.0	2362.5	2309.1	2244.3	2239.4	2241.1	2233.0
57.5°	2514.7	2521.2	2542.2	2568.2	2665.3	2709.0	2624.8	2513.1	2477.5	2456.4	2451.6
60°	2767.3	2778.7	2830.5	2883.9	3032.9	3112.2	2982.7	2794.9	2718.7	2679.9	2671.8
62.5°	3021.5	3044.2	3128.4	3219.1	3436.1	3554.3	3355.1	3083.1	2973.0	2924.4	2911.4
65°	3316.3	3343.8	3445.8	3560.8	3802.0	3968.8	3727.5	3381.0	3262.8	3198.0	3181.9
67.5°	3661.2	3690.3	3772.9	3900.8	4129.1	4292.7	4078.9	3685.4	3531.6	3449.0	3436.1
70°	3944.5	3970.4	4059.5	4189.0	4359.1	4545.3	4341.3	3928.3	3789.1	3730.8	3722.7
72.5°	3900.8	3934.8	4066.0	4260.3	4503.2	4713.7	4456.2	3975.3	3774.5	3693.5	3667.6
75°	3406.9	3444.2	3599.6	3951.0	4394.7	4708.8	4289.4	3662.8	3426.4	3358.4	3345.4
77.5°	2255.6	2291.3	2553.6	3107.4	3837.7	4291.1	3785.8	3068.5	2688.0	2524.4	2514.7
80°	911.6	957.0	1208.0	1795.8	2720.4	3335.7	2807.8	1964.2	1324.6	1068.7	1016.9
82.5°	212.1	252.6	367.6	662.3	1392.6	2077.5	1514.0	733.5	425.9	302.8	272.0
85°	89.1	90.7	157.1	215.4	435.6	838.8	495.5	267.2	217.0	158.7	155.4
87.5°	34.0	35.6	76.1	90.7	139.3	158.7	168.4	137.6	127.9	79.3	76.1
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)