

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: P399974

Luminaire Tested: **ARCH-L-PA3-220-722-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399974  
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-PA3-220-722-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23460 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

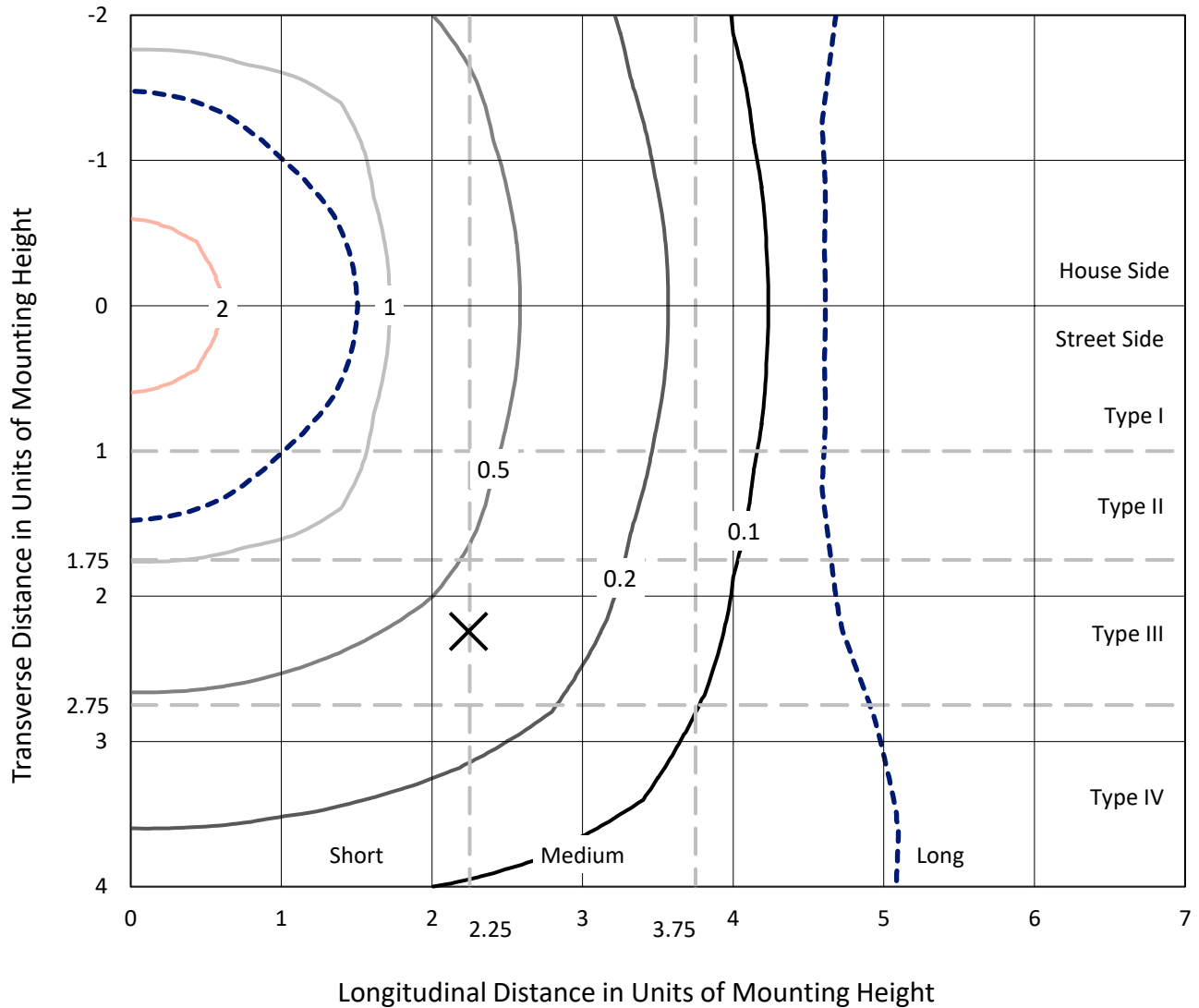
Input Watts (W): 222  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

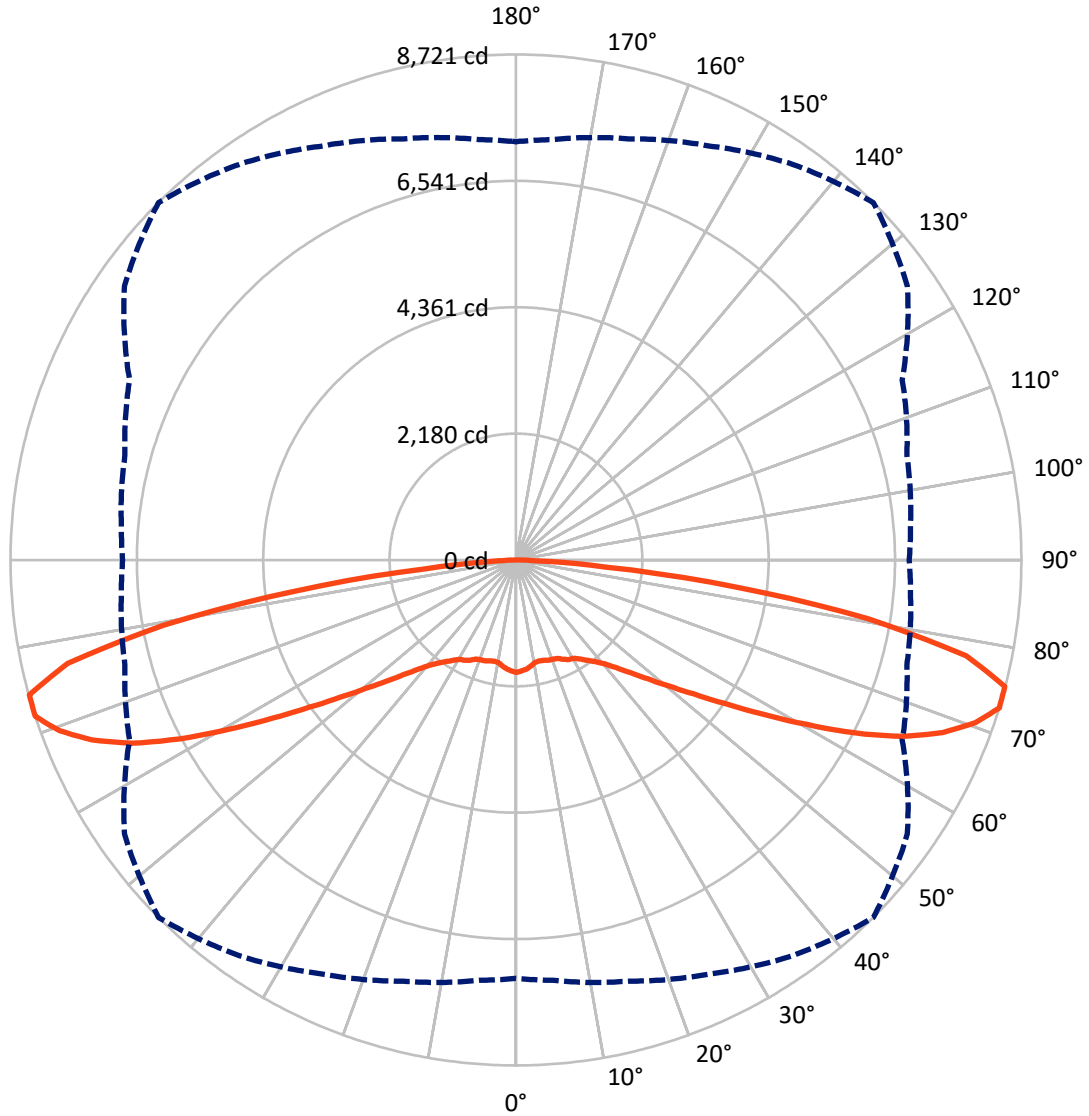
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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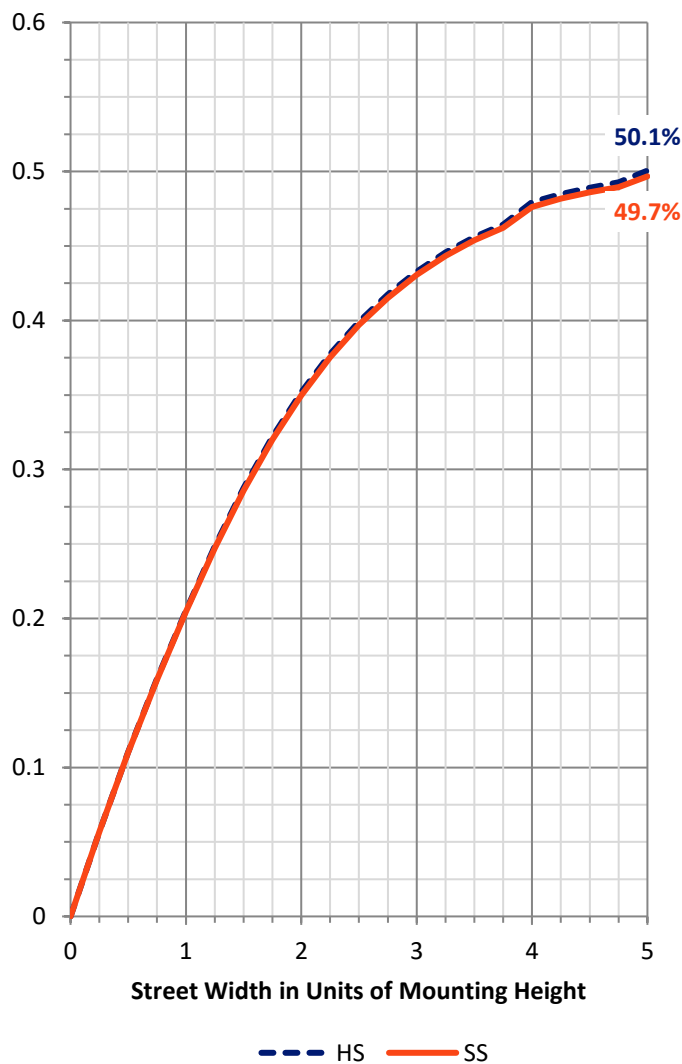
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11730.0	0.0	11730.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11730.0	0.0	11730.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23460.0	0.0	23460.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.0	0.8
10°-20°	516.7	2.2
20°-30°	878.0	3.7
30°-40°	1339.2	5.7
40°-50°	2205.1	9.4
50°-60°	3850.8	16.4
60°-70°	6456.0	27.5
70°-80°	6909.2	29.5
80°-90°	1126.9	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°	23460.0	100.0
0°-180°	23460.0	100.0



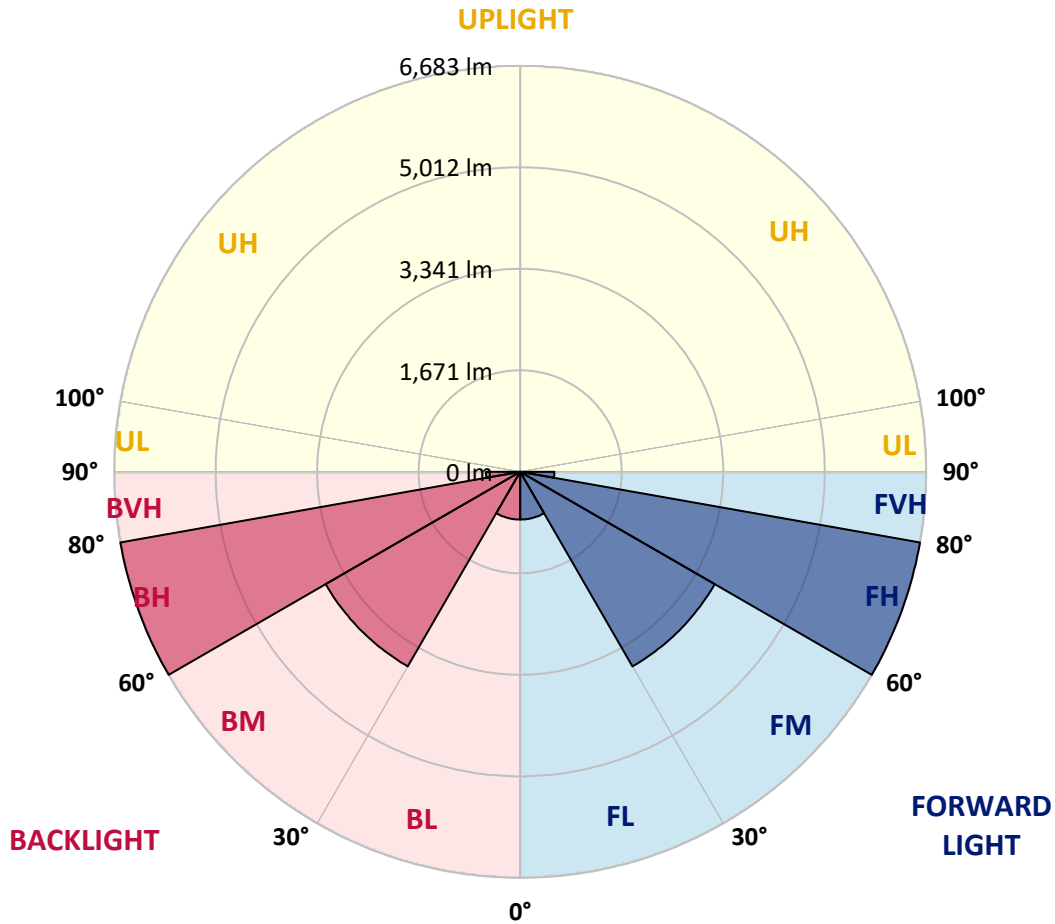
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	786.4	3.4			
FM (30°-60°)	3697.6	15.8			
FH (60°-80°)	6682.6	28.5			G3/7500
FVH (80°-90°)	563.4	2.4			G4/750
BL (0°-30°)	786.4	3.4	B2/1000		
BM (30°-60°)	3697.6	15.8	B3/5000		
BH (60°-80°)	6682.6	28.5	B5		G3/7500
BVH (80°-90°)	563.4	2.4			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1941.3	1941.3	1941.3	1941.3	1941.3	1941.3	1941.3	1941.3	1941.3	1941.3	1941.3
2.5°	1929.4	1929.4	1929.4	1926.4	1920.4	1917.4	1911.4	1914.4	1914.4	1914.4	1914.4
5°	1905.4	1905.4	1902.4	1899.4	1893.4	1890.4	1884.4	1890.4	1890.4	1890.4	1890.4
7.5°	1860.5	1863.4	1863.4	1860.5	1851.5	1848.5	1839.5	1842.5	1842.5	1845.5	1842.5
10°	1836.5	1836.5	1833.5	1818.5	1803.5	1797.5	1794.5	1803.5	1812.5	1821.5	1821.5
12.5°	1836.5	1836.5	1830.5	1806.5	1785.6	1785.6	1785.6	1797.5	1815.5	1833.5	1836.5
15°	1845.5	1845.5	1833.5	1806.5	1794.5	1797.5	1797.5	1809.5	1830.5	1854.5	1857.5
17.5°	1851.5	1851.5	1836.5	1809.5	1809.5	1818.5	1812.5	1821.5	1842.5	1869.4	1872.4
20°	1860.5	1860.5	1839.5	1818.5	1818.5	1827.5	1827.5	1836.5	1854.5	1881.4	1884.4
22.5°	1878.4	1875.4	1854.5	1836.5	1836.5	1842.5	1848.5	1860.5	1875.4	1899.4	1905.4
25°	1899.4	1899.4	1881.4	1878.4	1884.4	1899.4	1896.4	1893.4	1899.4	1920.4	1929.4
27.5°	1911.4	1911.4	1899.4	1908.4	1932.4	1944.3	1929.4	1917.4	1917.4	1938.3	1941.3
30°	1950.3	1947.3	1935.3	1941.3	1962.3	1968.3	1959.3	1944.3	1953.3	1977.3	1980.3
32.5°	2016.2	2016.2	1998.3	1998.3	2013.2	2037.2	2007.3	1998.3	2010.2	2037.2	2040.2
35°	2118.1	2118.1	2094.1	2082.1	2094.1	2127.1	2082.1	2079.2	2100.1	2130.1	2133.1
37.5°	2246.9	2246.9	2231.9	2202.0	2205.0	2226.0	2187.0	2184.0	2223.0	2255.9	2255.9
40°	2408.7	2417.7	2402.7	2366.8	2354.8	2357.8	2327.8	2330.8	2375.7	2414.7	2414.7
42.5°	2609.4	2615.4	2591.5	2564.5	2549.5	2540.5	2510.6	2516.6	2570.5	2621.4	2621.4
45°	2852.1	2855.1	2831.1	2798.2	2780.2	2774.2	2744.2	2759.2	2819.1	2873.1	2870.1
47.5°	3124.7	3127.7	3103.7	3070.8	3058.8	3067.8	3037.8	3037.8	3091.8	3136.7	3130.7
50°	3433.3	3439.3	3412.3	3397.3	3388.4	3412.3	3376.4	3343.4	3379.4	3424.3	3418.3
52.5°	3774.8	3789.8	3771.8	3777.8	3810.8	3840.7	3780.8	3708.9	3726.9	3756.9	3747.9
55°	4188.3	4206.2	4212.2	4233.2	4320.1	4371.0	4272.1	4152.3	4143.3	4146.3	4131.3
57.5°	4652.6	4664.6	4703.6	4751.5	4931.2	5012.1	4856.3	4649.6	4583.7	4544.8	4535.8
60°	5120.0	5141.0	5236.8	5335.7	5611.3	5758.1	5518.4	5170.9	5030.1	4958.2	4943.2
62.5°	5590.3	5632.3	5788.1	5955.8	6357.3	6576.0	6207.5	5704.2	5500.5	5410.6	5386.6
65°	6135.6	6186.5	6375.3	6588.0	7034.4	7342.9	6896.6	6255.4	6036.7	5916.9	5886.9
67.5°	6773.7	6827.6	6980.4	7217.1	7639.5	7942.1	7546.7	6818.7	6534.1	6381.3	6357.3
70°	7298.0	7345.9	7510.7	7750.4	8065.0	8409.5	8032.0	7268.0	7010.4	6902.5	6887.6
72.5°	7217.1	7280.0	7522.7	7882.2	8331.6	8721.1	8244.7	7354.9	6983.4	6833.6	6785.7
75°	6303.4	6372.3	6659.9	7310.0	8130.9	8712.1	7936.1	6776.7	6339.3	6213.5	6189.5
77.5°	4173.3	4239.2	4724.5	5749.1	7100.3	7939.1	7004.4	5677.2	4973.2	4670.6	4652.6
80°	1686.7	1770.6	2234.9	3322.4	5033.1	6171.5	5194.9	3634.0	2450.6	1977.3	1881.4
82.5°	392.5	467.4	680.1	1225.3	2576.5	3843.7	2801.2	1357.1	787.9	560.2	503.3
85°	164.8	167.8	290.6	398.5	805.9	1551.9	916.7	494.3	401.5	293.6	287.6
87.5°	62.9	65.9	140.8	167.8	257.6	293.6	311.6	254.7	236.7	146.8	140.8
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)