

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: P399893

Luminaire Tested: **ARCH-L-PA3-200-830-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399893  
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-PA3-200-830-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23773 lumens  
Efficiency: N/A  
Efficacy: 118.3 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

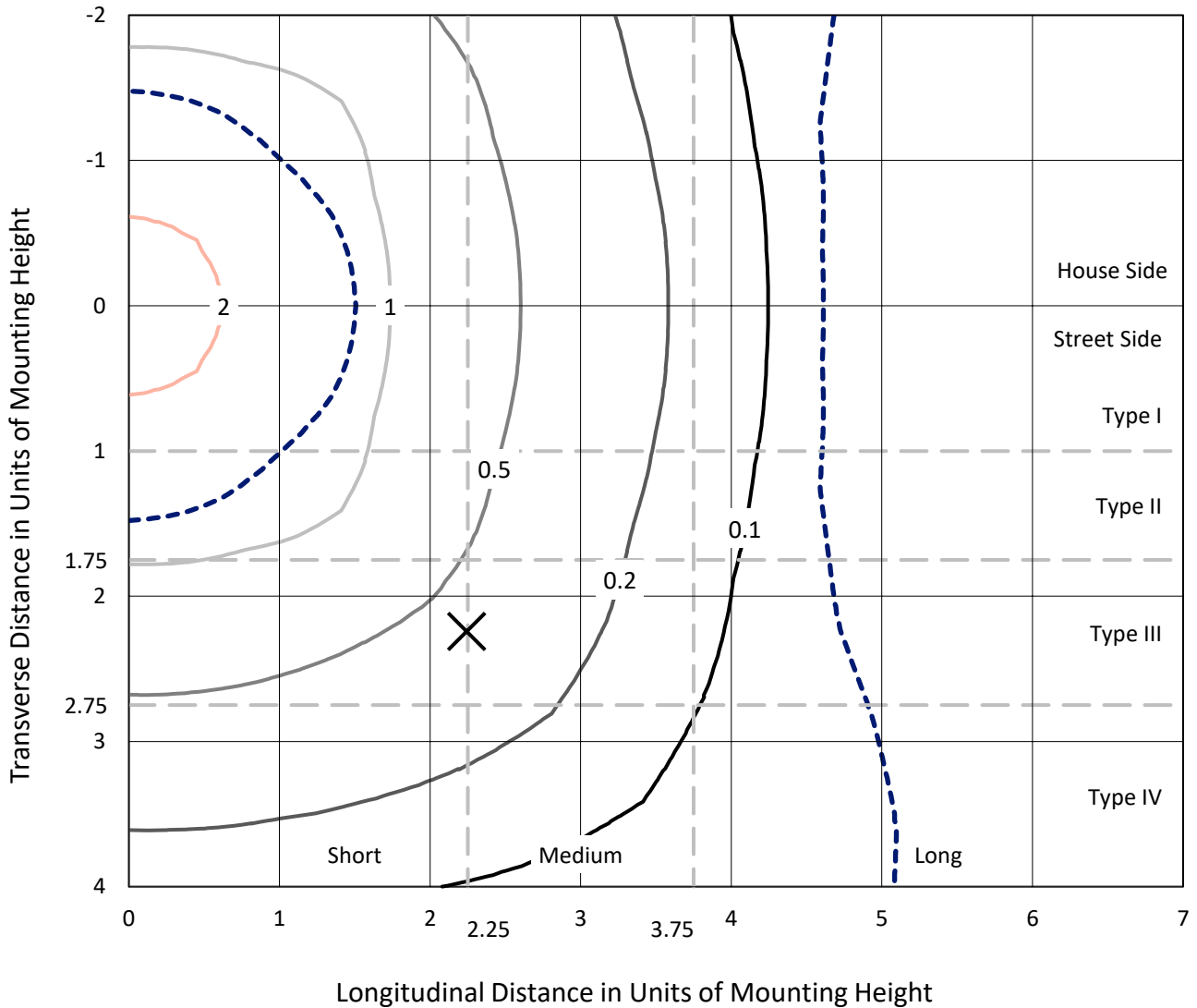
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

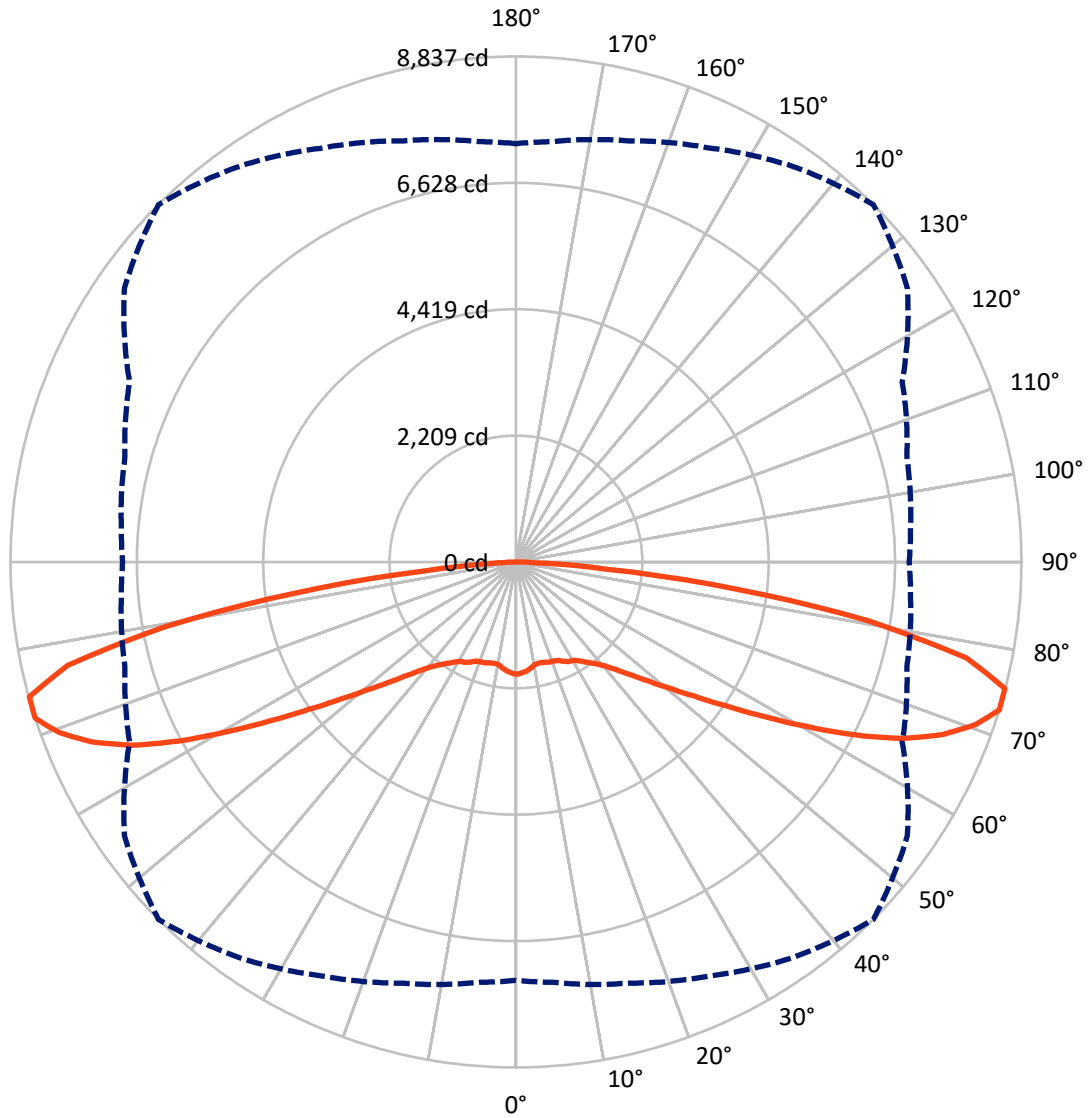
✕ Max cd  
 - - - 1/2 Max cd



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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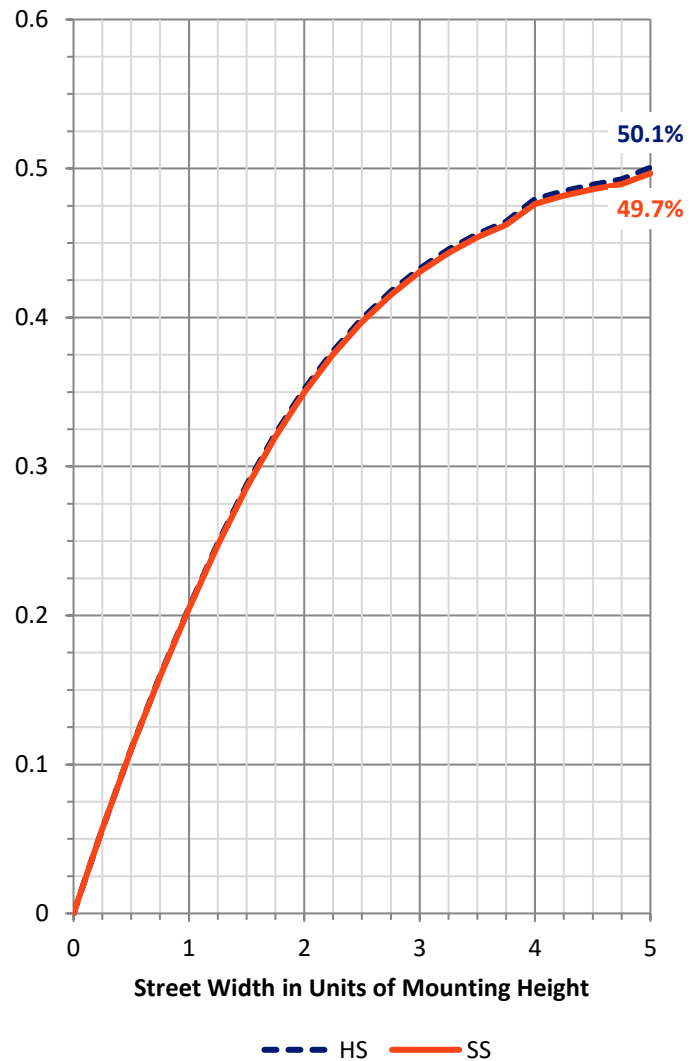
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11886.5	0.0	11886.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11886.5	0.0	11886.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23773.0	0.0	23773.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.4	0.8
10°-20°	523.6	2.2
20°-30°	889.7	3.7
30°-40°	1357.1	5.7
40°-50°	2234.6	9.4
50°-60°	3902.2	16.4
60°-70°	6542.1	27.5
70°-80°	7001.4	29.5
80°-90°	1141.9	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°	23773.0	100.0
0°-180°	23773.0	100.0

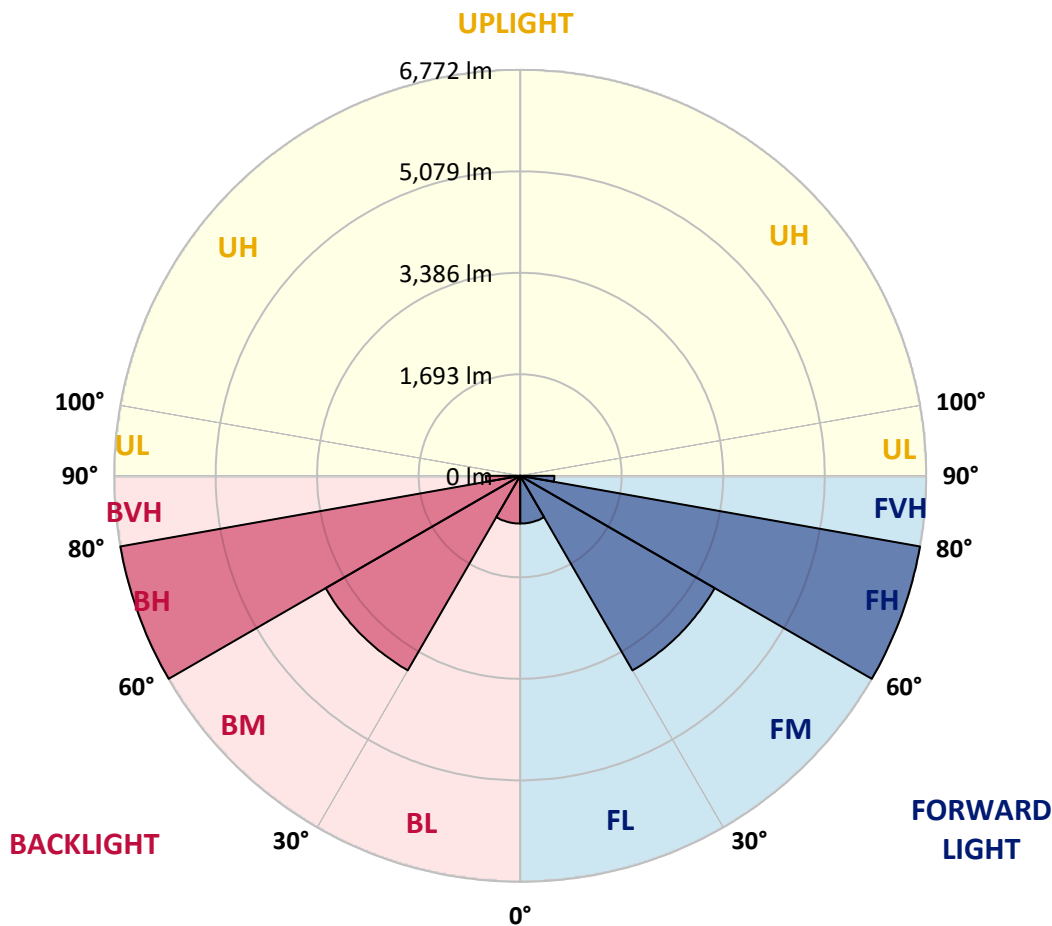


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	796.9	3.4			
FM (30°-60°)	3746.9	15.8			
FH (60°-80°)	6771.8	28.5			G3/7500
FVH (80°-90°)	571.0	2.4			G4/750
BL (0°-30°)	796.9	3.4	B2/1000		
BM (30°-60°)	3746.9	15.8	B3/5000		
BH (60°-80°)	6771.8	28.5	B5		G3/7500
BVH (80°-90°)	571.0	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°	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2	1967.2
2.5°	1955.1	1955.1	1955.1	1952.1	1946.0	1943.0	1936.9	1939.9	1939.9	1939.9	1939.9
5°	1930.8	1930.8	1927.8	1924.7	1918.7	1915.6	1909.6	1915.6	1915.6	1915.6	1915.6
7.5°	1885.3	1888.3	1888.3	1885.3	1876.2	1873.1	1864.0	1867.1	1867.1	1870.1	1867.1
10°	1861.0	1861.0	1858.0	1842.8	1827.6	1821.5	1818.5	1827.6	1836.7	1845.8	1845.8
12.5°	1861.0	1861.0	1854.9	1830.6	1809.4	1809.4	1809.4	1821.5	1839.7	1858.0	1861.0
15°	1870.1	1870.1	1858.0	1830.6	1818.5	1821.5	1821.5	1833.7	1854.9	1879.2	1882.2
17.5°	1876.2	1876.2	1861.0	1833.7	1833.7	1842.8	1836.7	1845.8	1867.1	1894.4	1897.4
20°	1885.3	1885.3	1864.0	1842.8	1842.8	1851.9	1851.9	1861.0	1879.2	1906.5	1909.6
22.5°	1903.5	1900.5	1879.2	1861.0	1861.0	1867.1	1873.1	1885.3	1900.5	1924.7	1930.8
25°	1924.7	1924.7	1906.5	1903.5	1909.6	1924.7	1921.7	1918.7	1924.7	1946.0	1955.1
27.5°	1936.9	1936.9	1924.7	1933.8	1958.1	1970.3	1955.1	1943.0	1943.0	1964.2	1967.2
30°	1976.3	1973.3	1961.2	1967.2	1988.5	1994.6	1985.5	1970.3	1979.4	2003.7	2006.7
32.5°	2043.1	2043.1	2024.9	2024.9	2040.1	2064.4	2034.0	2024.9	2037.1	2064.4	2067.4
35°	2146.4	2146.4	2122.1	2109.9	2122.1	2155.5	2109.9	2106.9	2128.1	2158.5	2161.5
37.5°	2276.9	2276.9	2261.7	2231.4	2234.4	2255.6	2216.2	2213.1	2252.6	2286.0	2286.0
40°	2440.8	2449.9	2434.8	2398.3	2386.2	2389.2	2358.9	2361.9	2407.4	2446.9	2446.9
42.5°	2644.2	2650.3	2626.0	2598.7	2583.5	2574.4	2544.1	2550.1	2604.8	2656.4	2656.4
45°	2890.1	2893.2	2868.9	2835.5	2817.3	2811.2	2780.9	2796.0	2856.8	2911.4	2908.4
47.5°	3166.4	3169.4	3145.2	3111.8	3099.6	3108.7	3078.4	3078.4	3133.0	3178.6	3172.5
50°	3479.1	3485.2	3457.9	3442.7	3433.6	3457.9	3421.4	3388.0	3424.5	3470.0	3463.9
52.5°	3825.2	3840.4	3822.2	3828.2	3861.6	3892.0	3831.3	3758.4	3776.6	3807.0	3797.9
55°	4244.1	4262.4	4268.4	4289.7	4377.7	4429.3	4329.1	4207.7	4198.6	4201.6	4186.5
57.5°	4714.7	4726.8	4766.3	4814.9	4997.0	5079.0	4921.1	4711.7	4644.9	4605.4	4596.3
60°	5188.3	5209.5	5306.7	5406.9	5686.2	5834.9	5592.1	5239.9	5097.2	5024.4	5009.2
62.5°	5664.9	5707.4	5865.3	6035.3	6442.1	6663.7	6290.3	5780.3	5573.9	5482.8	5458.5
65°	6217.5	6269.1	6460.3	6675.9	7128.2	7440.9	6988.6	6338.9	6117.3	5995.8	5965.5
67.5°	6864.1	6918.7	7073.6	7313.4	7741.5	8048.1	7647.4	6909.6	6621.2	6466.4	6442.1
70°	7395.4	7443.9	7610.9	7853.8	8172.6	8521.7	8139.2	7365.0	7103.9	6994.6	6979.5
72.5°	7313.4	7377.2	7623.1	7987.4	8442.7	8837.4	8354.7	7453.1	7076.6	6924.8	6876.2
75°	6387.5	6457.3	6748.7	7407.5	8239.3	8828.3	8042.0	6867.1	6423.9	6296.4	6272.1
77.5°	4229.0	4295.8	4787.6	5825.8	7195.0	8045.0	7097.9	5753.0	5039.5	4732.9	4714.7
80°	1709.2	1794.2	2264.8	3366.8	5100.3	6253.9	5264.2	3682.5	2483.3	2003.7	1906.5
82.5°	397.7	473.6	689.1	1241.7	2610.8	3895.0	2838.5	1375.2	798.4	567.7	510.0
85°	167.0	170.0	294.5	403.8	816.6	1572.6	929.0	500.9	406.8	297.5	291.4
87.5°	63.8	66.8	142.7	170.0	261.1	297.5	315.7	258.0	239.8	148.8	142.7
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)