

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: P399956

Luminaire Tested: **ARCH-L-PA3-210-827-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399956  
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-PA3-210-827-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22667 lumens  
Efficiency: N/A  
Efficacy: 107.4 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

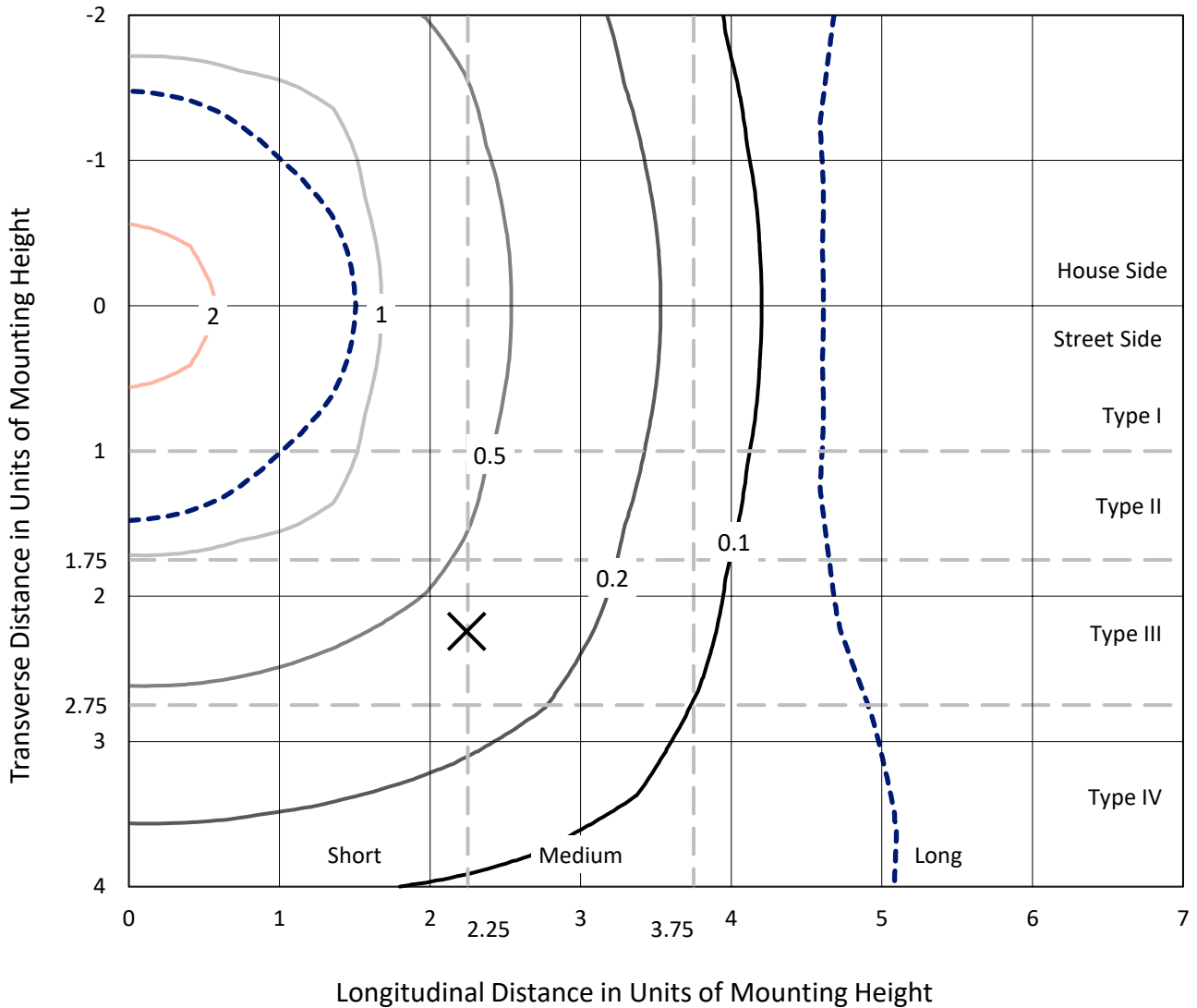
Input Watts (W): 211  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

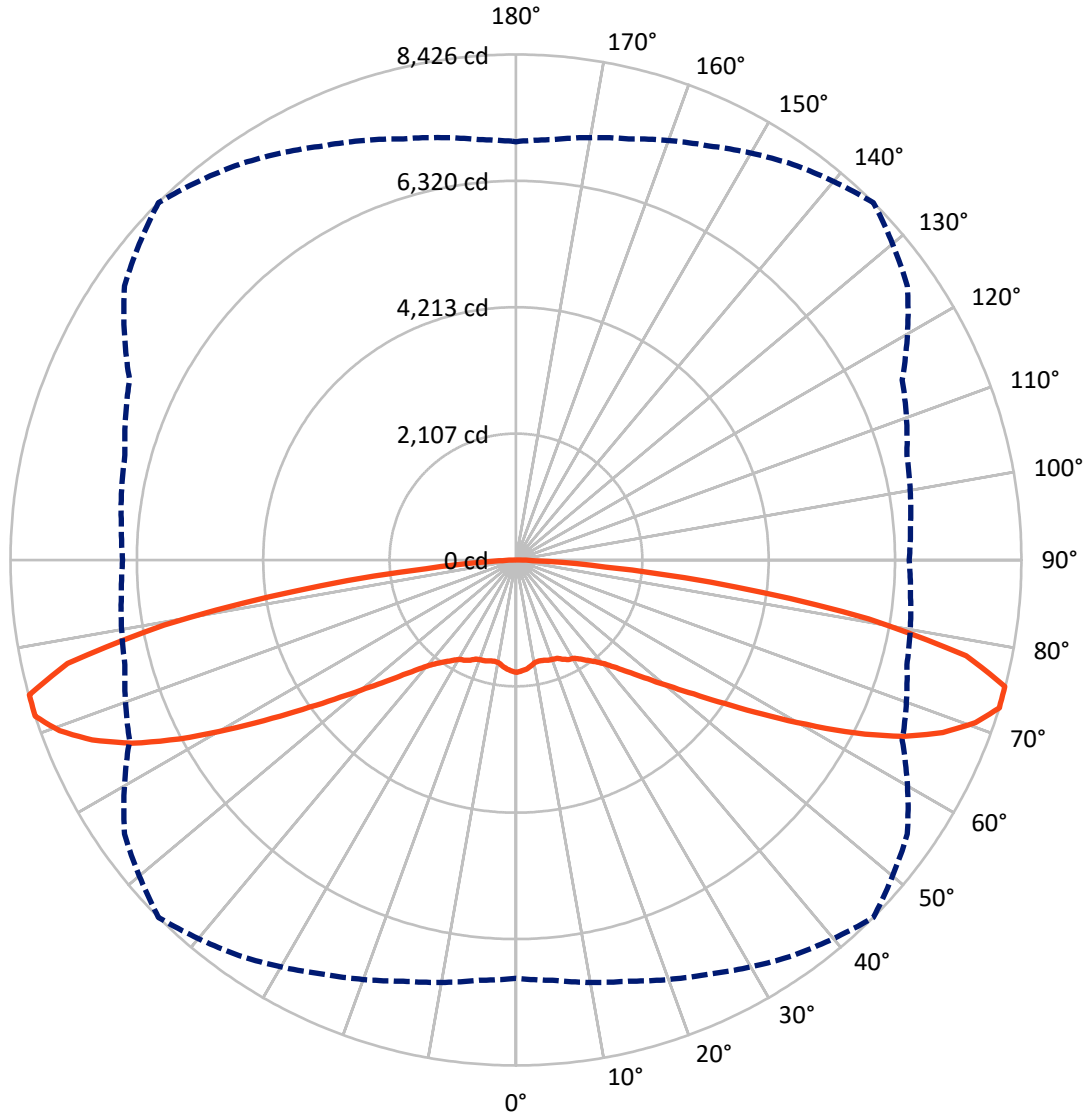
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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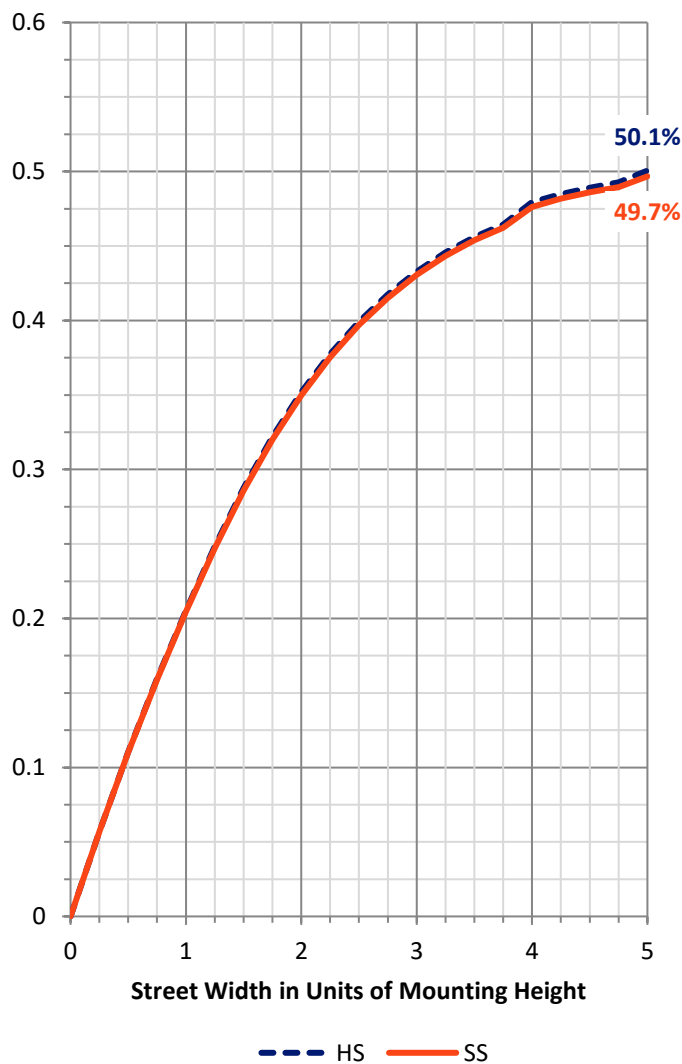
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11333.5	0.0	11333.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11333.5	0.0	11333.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22667.0	0.0	22667.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.0	0.8
10°-20°	499.3	2.2
20°-30°	848.3	3.7
30°-40°	1293.9	5.7
40°-50°	2130.6	9.4
50°-60°	3720.7	16.4
60°-70°	6237.8	27.5
70°-80°	6675.7	29.5
80°-90°	1088.8	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°	22667.0	100.0
0°-180°	22667.0	100.0

**Coefficient of Utilization**

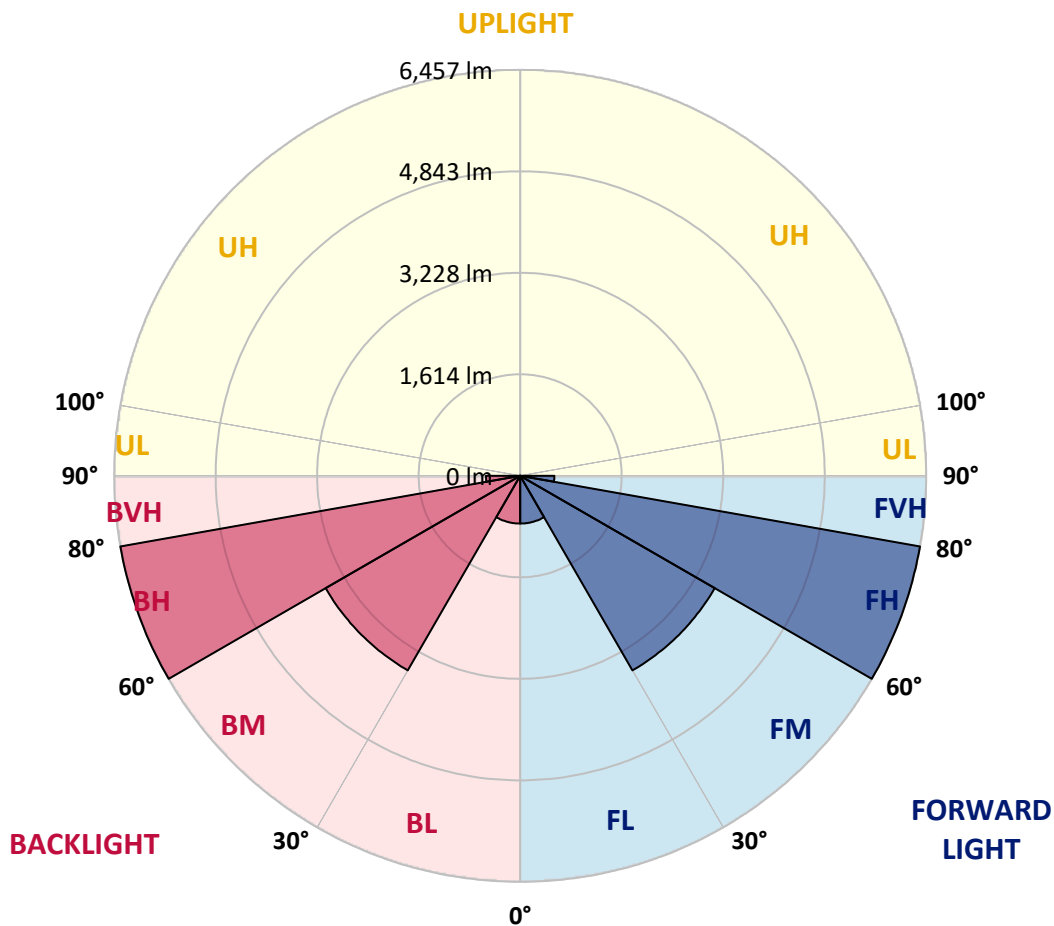


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.8	3.4			
FM (30°-60°)	3572.6	15.8			
FH (60°-80°)	6456.7	28.5			G3/7500
FVH (80°-90°)	544.4	2.4			G4/750
BL (0°-30°)	759.8	3.4	B2/1000		
BM (30°-60°)	3572.6	15.8	B3/5000		
BH (60°-80°)	6456.7	28.5	B5		G3/7500
BVH (80°-90°)	544.4	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°	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7	1875.7
2.5°	1864.1	1864.1	1864.1	1861.2	1855.5	1852.6	1846.8	1849.7	1849.7	1849.7	1849.7
5°	1841.0	1841.0	1838.1	1835.2	1829.4	1826.5	1820.7	1826.5	1826.5	1826.5	1826.5
7.5°	1797.6	1800.5	1800.5	1797.6	1788.9	1786.0	1777.3	1780.2	1780.2	1783.1	1780.2
10°	1774.4	1774.4	1771.5	1757.0	1742.6	1736.8	1733.9	1742.6	1751.3	1759.9	1759.9
12.5°	1774.4	1774.4	1768.6	1745.5	1725.2	1725.2	1725.2	1736.8	1754.1	1771.5	1774.4
15°	1783.1	1783.1	1771.5	1745.5	1733.9	1736.8	1736.8	1748.4	1768.6	1791.8	1794.7
17.5°	1788.9	1788.9	1774.4	1748.4	1748.4	1757.0	1751.3	1759.9	1780.2	1806.2	1809.1
20°	1797.6	1797.6	1777.3	1757.0	1757.0	1765.7	1765.7	1774.4	1791.8	1817.8	1820.7
22.5°	1814.9	1812.0	1791.8	1774.4	1774.4	1780.2	1786.0	1797.6	1812.0	1835.2	1841.0
25°	1835.2	1835.2	1817.8	1814.9	1820.7	1835.2	1832.3	1829.4	1835.2	1855.5	1864.1
27.5°	1846.8	1846.8	1835.2	1843.9	1867.0	1878.6	1864.1	1852.6	1852.6	1872.8	1875.7
30°	1884.4	1881.5	1869.9	1875.7	1896.0	1901.8	1893.1	1878.6	1887.3	1910.5	1913.3
32.5°	1948.1	1948.1	1930.7	1930.7	1945.2	1968.3	1939.4	1930.7	1942.3	1968.3	1971.2
35°	2046.5	2046.5	2023.3	2011.8	2023.3	2055.2	2011.8	2008.9	2029.1	2058.1	2061.0
37.5°	2171.0	2171.0	2156.5	2127.6	2130.4	2150.7	2113.1	2110.2	2147.8	2179.7	2179.7
40°	2327.3	2336.0	2321.5	2286.8	2275.2	2278.1	2249.1	2252.0	2295.4	2333.1	2333.1
42.5°	2521.2	2527.0	2503.9	2477.8	2463.3	2454.6	2425.7	2431.5	2483.6	2532.8	2532.8
45°	2755.7	2758.6	2735.4	2703.6	2686.2	2680.4	2651.5	2666.0	2723.8	2775.9	2773.1
47.5°	3019.1	3022.0	2998.8	2967.0	2955.4	2964.1	2935.2	2935.2	2987.3	3030.7	3024.9
50°	3317.2	3323.0	3297.0	3282.5	3273.8	3297.0	3262.2	3230.4	3265.1	3308.6	3302.8
52.5°	3647.2	3661.7	3644.3	3650.1	3682.0	3710.9	3653.0	3583.6	3600.9	3629.9	3621.2
55°	4046.7	4064.1	4069.8	4090.1	4174.1	4223.3	4127.7	4012.0	4003.3	4006.2	3991.7
57.5°	4495.4	4506.9	4544.6	4590.9	4764.6	4842.7	4692.2	4492.5	4428.8	4391.2	4382.5
60°	4946.9	4967.2	5059.8	5155.3	5421.6	5563.5	5331.9	4996.1	4860.1	4790.6	4776.1
62.5°	5401.4	5441.9	5592.4	5754.5	6142.4	6353.7	5997.7	5511.4	5314.5	5227.7	5204.5
65°	5928.2	5977.4	6159.8	6365.3	6796.6	7094.7	6663.4	6044.0	5832.7	5716.9	5687.9
67.5°	6544.8	6596.9	6744.5	6973.2	7381.3	7673.7	7291.6	6588.2	6313.2	6165.6	6142.4
70°	7051.3	7097.6	7256.8	7488.4	7792.3	8125.2	7760.5	7022.4	6773.4	6669.2	6654.8
72.5°	6973.2	7033.9	7268.4	7615.8	8050.0	8426.3	7966.0	7106.3	6747.4	6602.6	6556.3
75°	6090.3	6156.9	6434.8	7062.9	7856.0	8417.6	7667.9	6547.7	6125.0	6003.5	5980.3
77.5°	4032.2	4095.9	4564.8	5554.8	6860.3	7670.8	6767.6	5485.3	4805.1	4512.7	4495.4
80°	1629.7	1710.7	2159.4	3210.1	4863.0	5962.9	5019.3	3511.2	2367.8	1910.5	1817.8
82.5°	379.2	451.6	657.1	1183.9	2489.4	3713.8	2706.5	1311.3	761.3	541.3	486.3
85°	159.2	162.1	280.8	385.0	778.7	1499.4	885.8	477.6	387.9	283.7	277.9
87.5°	60.8	63.7	136.0	162.1	248.9	283.7	301.0	246.0	228.7	141.8	136.0
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)