

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: P400118

Luminaire Tested: **ARCH-L-PA3-240-722-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400118  
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-PA3-240-722-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24862 lumens  
Efficiency: N/A  
Efficacy: 102.7 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

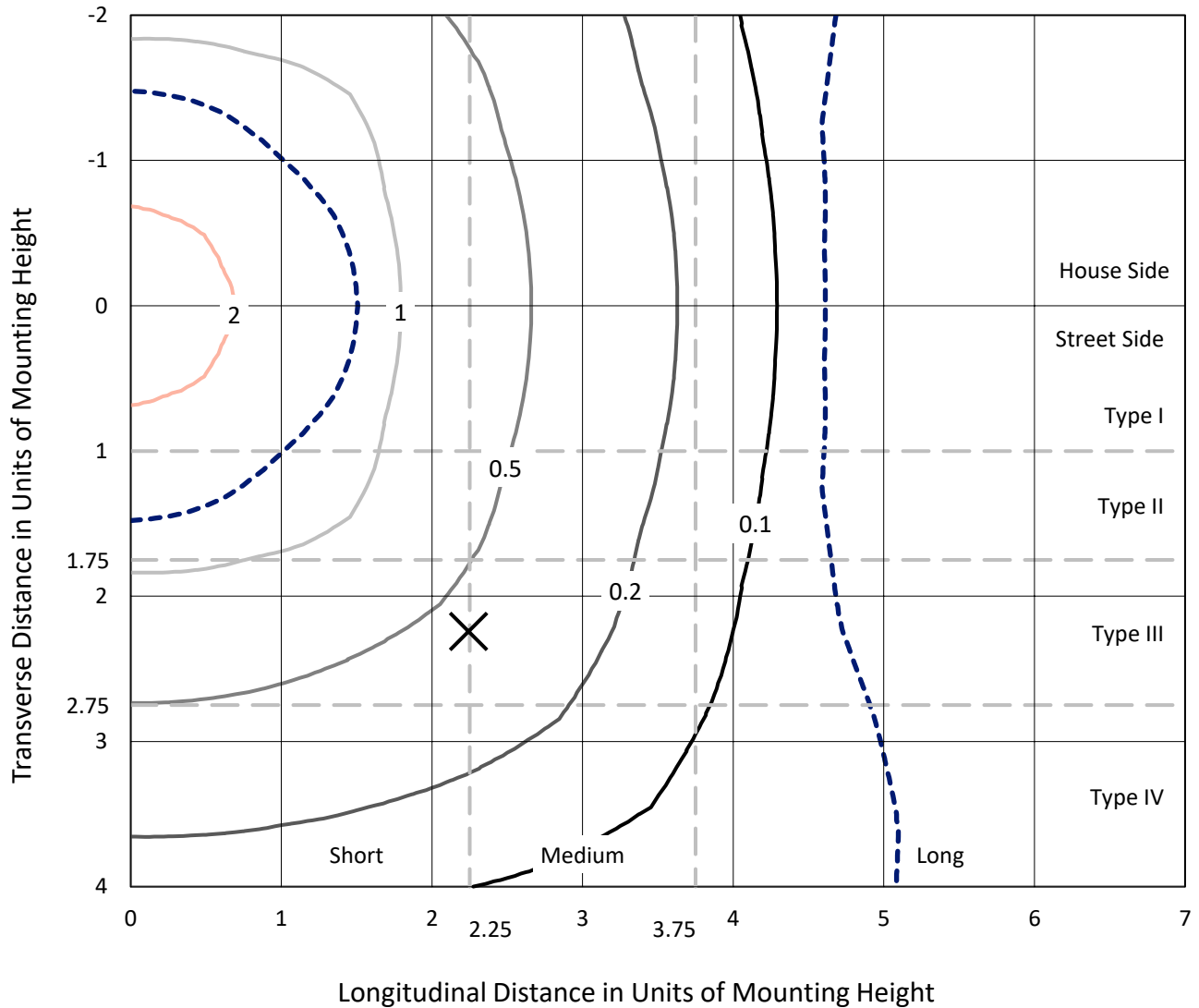
Input Watts (W): 242  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

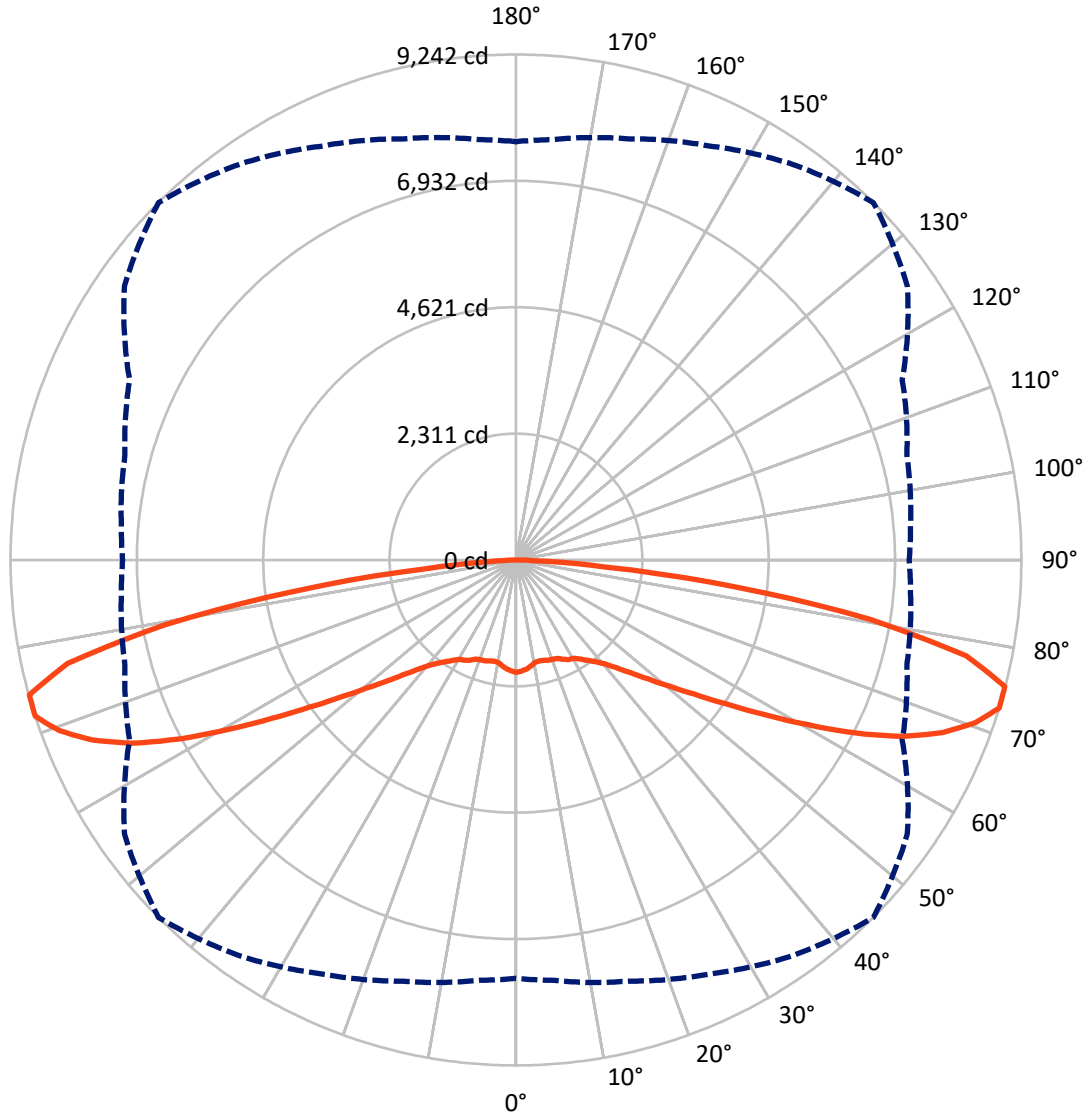
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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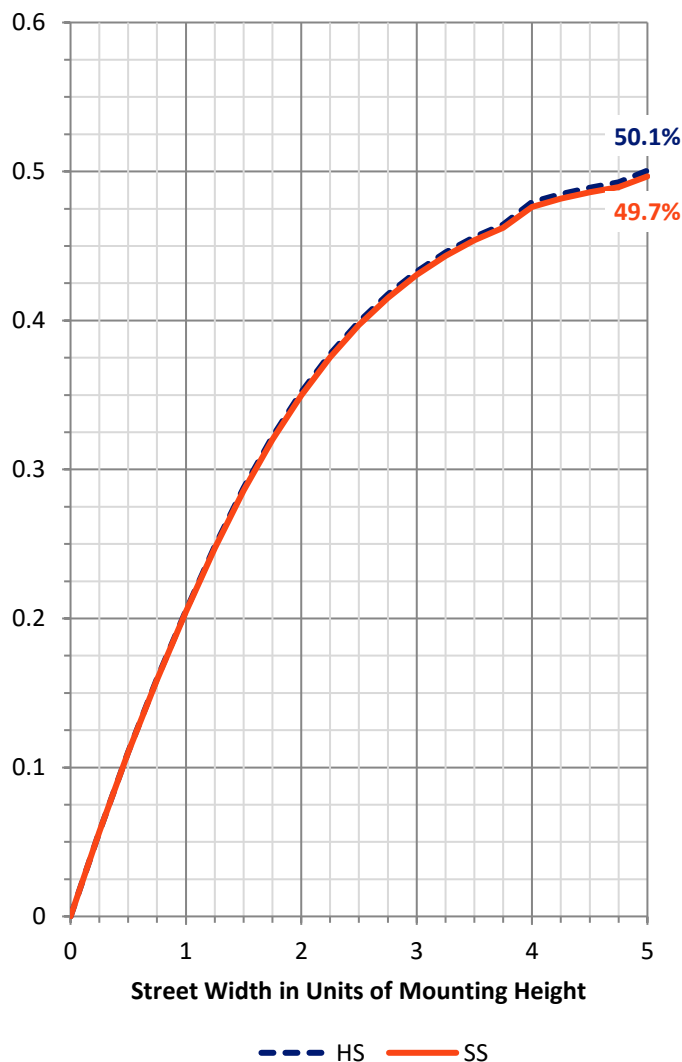
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12431.0	0.0	12431.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12431.0	0.0	12431.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24862.0	0.0	24862.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.7	0.8
10°-20°	547.6	2.2
20°-30°	930.5	3.7
30°-40°	1419.2	5.7
40°-50°	2336.9	9.4
50°-60°	4081.0	16.4
60°-70°	6841.8	27.5
70°-80°	7322.1	29.5
80°-90°	1194.2	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°	24862.0	100.0
0°-180°	24862.0	100.0

**Coefficient of Utilization**



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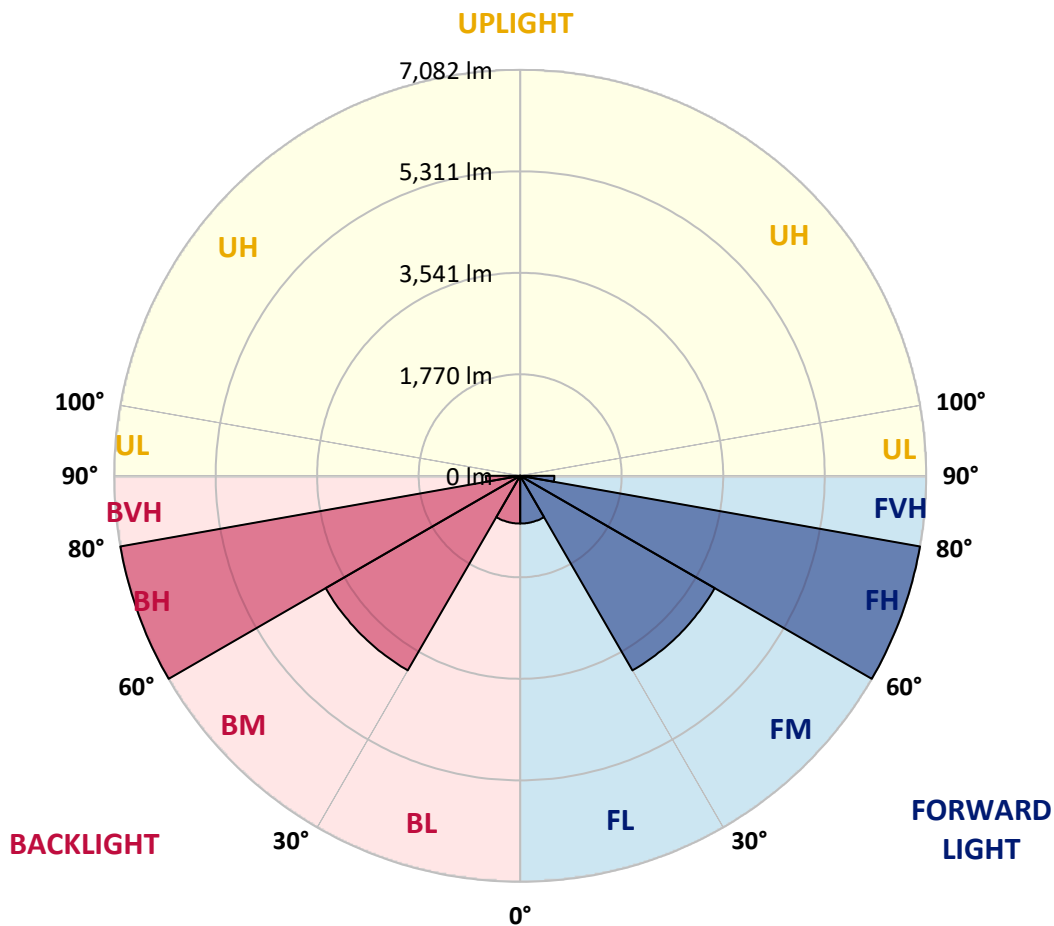
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.4	3.4			
FM (30°-60°)	3918.5	15.8			
FH (60°-80°)	7082.0	28.5			G3/7500
FVH (80°-90°)	597.1	2.4			G4/750
BL (0°-30°)	833.4	3.4	B2/1000		
BM (30°-60°)	3918.5	15.8	B3/5000		
BH (60°-80°)	7082.0	28.5	B5		G3/7500
BVH (80°-90°)	597.1	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°	2057.4	2057.4	2057.4	2057.4	2057.4	2057.4	2057.4	2057.4	2057.4	2057.4	2057.4
2.5°	2044.7	2044.7	2044.7	2041.5	2035.1	2032.0	2025.6	2028.8	2028.8	2028.8	2028.8
5°	2019.3	2019.3	2016.1	2012.9	2006.6	2003.4	1997.0	2003.4	2003.4	2003.4	2003.4
7.5°	1971.6	1974.8	1974.8	1971.6	1962.1	1958.9	1949.4	1952.6	1952.6	1955.8	1952.6
10°	1946.2	1946.2	1943.1	1927.2	1911.3	1905.0	1901.8	1911.3	1920.8	1930.4	1930.4
12.5°	1946.2	1946.2	1939.9	1914.5	1892.3	1892.3	1892.3	1905.0	1924.0	1943.1	1946.2
15°	1955.8	1955.8	1943.1	1914.5	1901.8	1905.0	1905.0	1917.7	1939.9	1965.3	1968.5
17.5°	1962.1	1962.1	1946.2	1917.7	1917.7	1927.2	1920.8	1930.4	1952.6	1981.2	1984.3
20°	1971.6	1971.6	1949.4	1927.2	1927.2	1936.7	1936.7	1946.2	1965.3	1993.9	1997.0
22.5°	1990.7	1987.5	1965.3	1946.2	1946.2	1952.6	1958.9	1971.6	1987.5	2012.9	2019.3
25°	2012.9	2012.9	1993.9	1990.7	1997.0	2012.9	2009.7	2006.6	2012.9	2035.1	2044.7
27.5°	2025.6	2025.6	2012.9	2022.4	2047.8	2060.5	2044.7	2032.0	2032.0	2054.2	2057.4
30°	2066.9	2063.7	2051.0	2057.4	2079.6	2085.9	2076.4	2060.5	2070.1	2095.5	2098.6
32.5°	2136.7	2136.7	2117.7	2117.7	2133.6	2159.0	2127.2	2117.7	2130.4	2159.0	2162.1
35°	2244.7	2244.7	2219.3	2206.6	2219.3	2254.2	2206.6	2203.4	2225.6	2257.4	2260.6
37.5°	2381.2	2381.2	2365.3	2333.6	2336.8	2359.0	2317.7	2314.5	2355.8	2390.7	2390.7
40°	2552.6	2562.2	2546.3	2508.2	2495.5	2498.7	2466.9	2470.1	2517.7	2559.0	2559.0
42.5°	2765.4	2771.7	2746.3	2717.7	2701.9	2692.3	2660.6	2666.9	2724.1	2778.1	2778.1
45°	3022.5	3025.7	3000.3	2965.4	2946.3	2940.0	2908.2	2924.1	2987.6	3044.8	3041.6
47.5°	3311.5	3314.6	3289.2	3254.3	3241.6	3251.1	3219.4	3219.4	3276.5	3324.2	3317.8
50°	3638.5	3644.8	3616.3	3600.4	3590.9	3616.3	3578.2	3543.2	3581.3	3629.0	3622.6
52.5°	4000.4	4016.3	3997.2	4003.6	4038.5	4070.3	4006.8	3930.6	3949.6	3981.4	3971.8
55°	4438.6	4457.6	4464.0	4486.2	4578.3	4632.2	4527.5	4400.5	4390.9	4394.1	4378.2
57.5°	4930.7	4943.4	4984.6	5035.4	5225.9	5311.7	5146.6	4927.5	4857.7	4816.4	4806.9
60°	5426.0	5448.2	5549.8	5654.6	5946.7	6102.2	5848.2	5479.9	5330.7	5254.5	5238.6
62.5°	5924.4	5968.9	6134.0	6311.8	6737.2	6969.0	6578.5	6045.1	5829.2	5733.9	5708.5
65°	6502.3	6556.2	6756.3	6981.7	7454.7	7781.8	7308.7	6629.3	6397.5	6270.5	6238.7
67.5°	7178.5	7235.7	7397.6	7648.4	8096.1	8416.8	7997.7	7226.2	6924.5	6762.6	6737.2
70°	7734.1	7784.9	7959.6	8213.6	8546.9	8912.0	8512.0	7702.4	7429.3	7315.1	7299.2
72.5°	7648.4	7715.1	7972.3	8353.3	8829.5	9242.2	8737.4	7794.5	7400.8	7242.0	7191.2
75°	6680.1	6753.1	7057.9	7746.8	8616.8	9232.7	8410.4	7181.7	6718.2	6584.8	6559.4
77.5°	4422.7	4492.5	5006.9	6092.7	7524.6	8413.6	7423.0	6016.5	5270.4	4949.7	4930.7
80°	1787.5	1876.4	2368.5	3521.0	5333.9	6540.4	5505.3	3851.2	2597.1	2095.5	1993.9
82.5°	415.9	495.3	720.7	1298.5	2730.4	4073.4	2968.6	1438.2	835.0	593.7	533.4
85°	174.6	177.8	308.0	422.3	854.1	1644.6	971.5	523.9	425.4	311.1	304.8
87.5°	66.7	69.8	149.2	177.8	273.0	311.1	330.2	269.9	250.8	155.6	149.2
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)