

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: P400244

Luminaire Tested: **ARCH-L-PA3-250-827-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400244  
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-PA3-250-827-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25434 lumens  
Efficiency: N/A  
Efficacy: 101.3 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

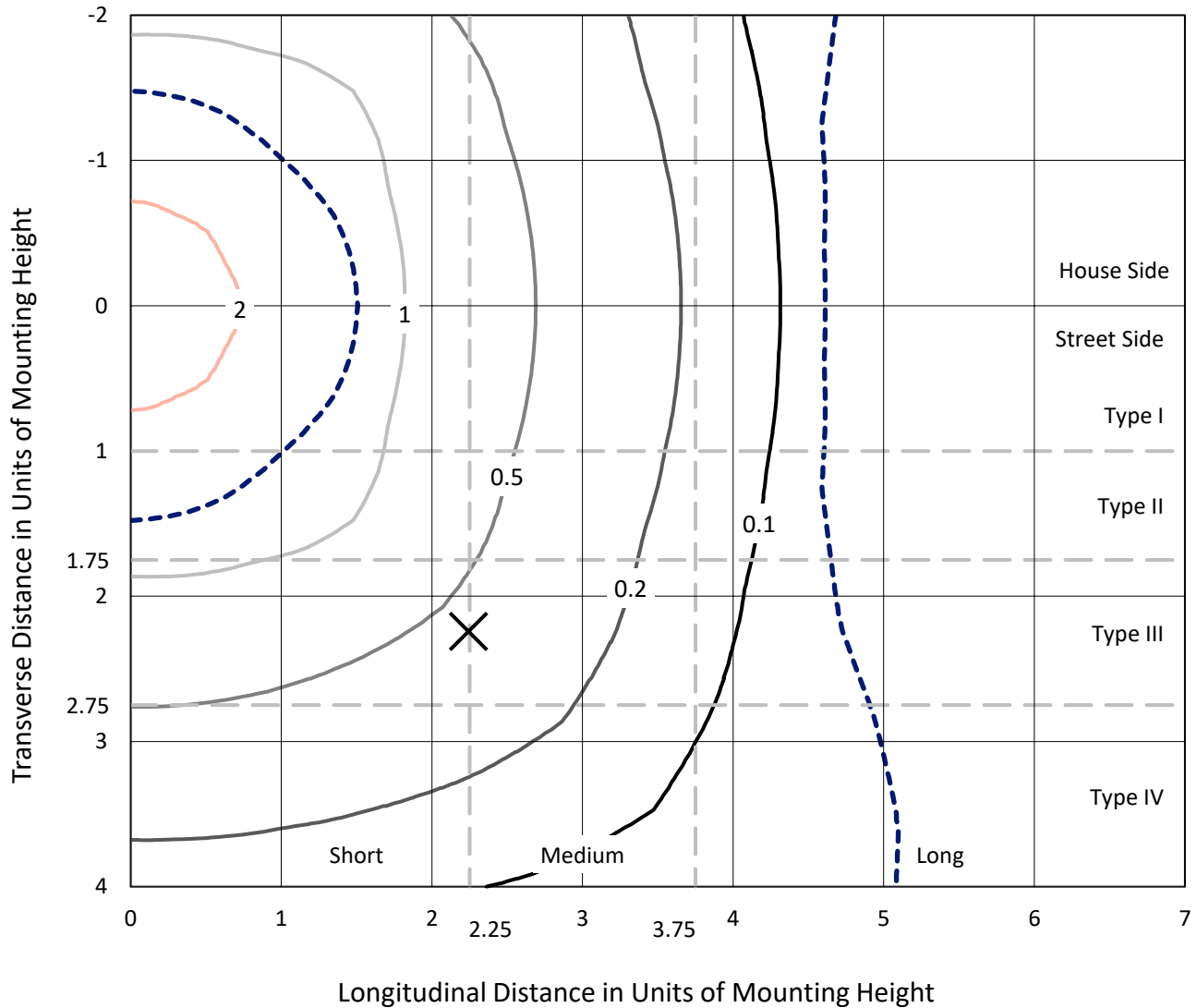
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

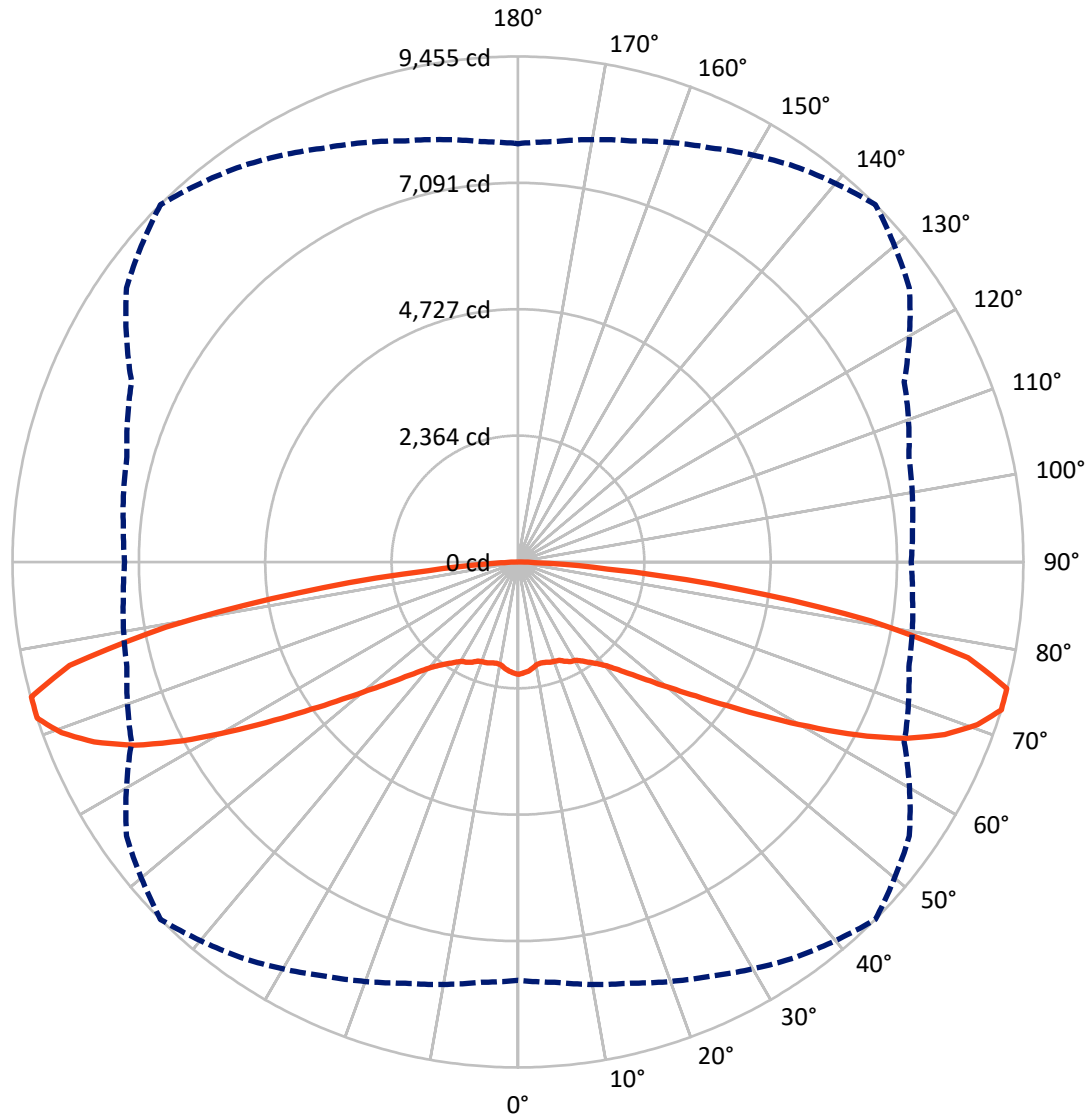
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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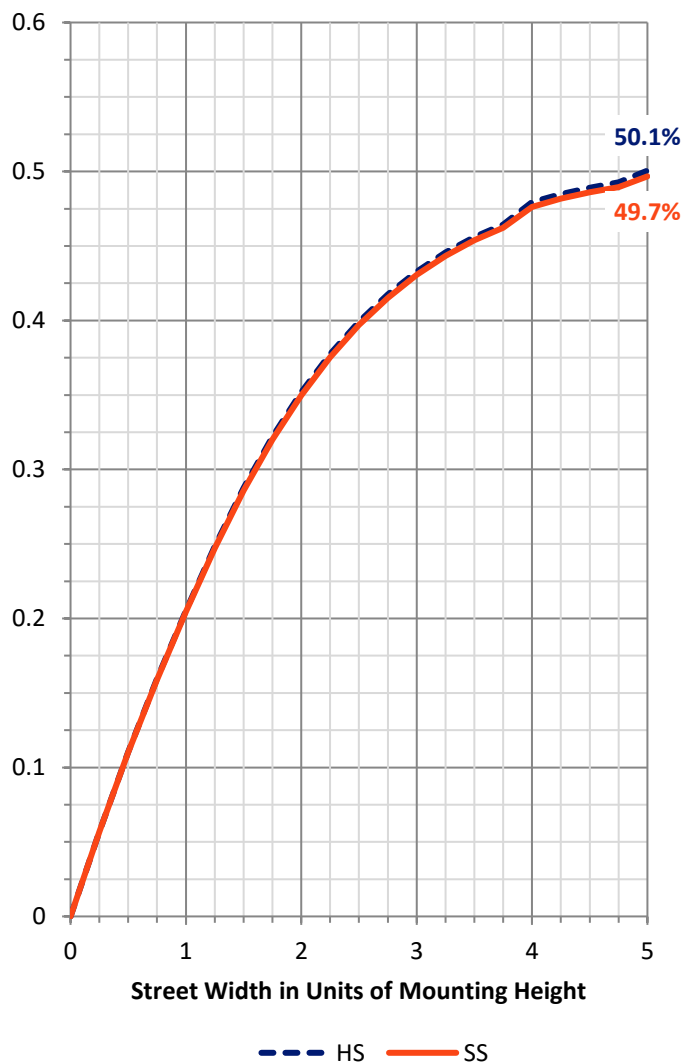
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12717.0	0.0	12717.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12717.0	0.0	12717.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25434.0	0.0	25434.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.0	0.8
10°-20°	560.2	2.2
20°-30°	951.9	3.7
30°-40°	1451.9	5.7
40°-50°	2390.7	9.4
50°-60°	4174.8	16.4
60°-70°	6999.2	27.5
70°-80°	7490.6	29.5
80°-90°	1221.7	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°	25434.0	100.0
0°-180°	25434.0	100.0



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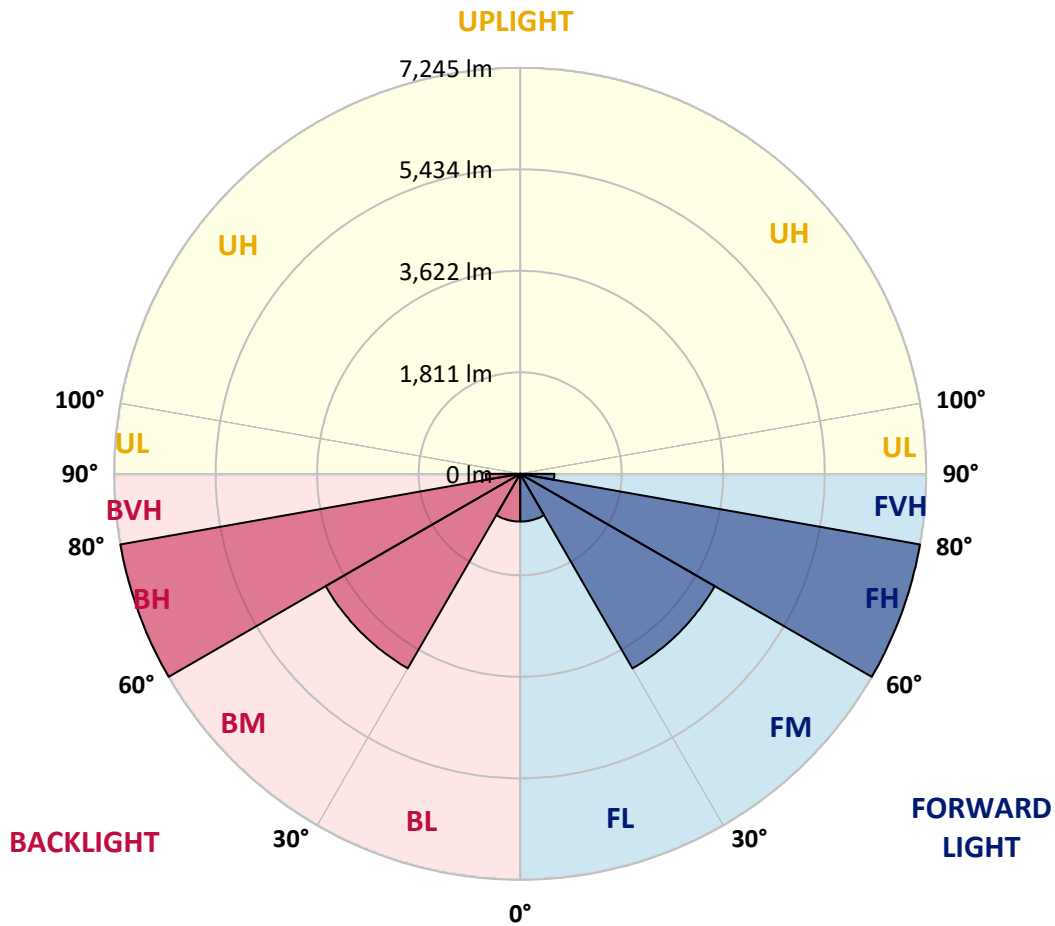
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	852.5	3.4			
FM (30°-60°)	4008.7	15.8			
FH (60°-80°)	7244.9	28.5			G3/7500
FVH (80°-90°)	610.9	2.4			G4/750
BL (0°-30°)	852.5	3.4	B2/1000		
BM (30°-60°)	4008.7	15.8	B3/5000		
BH (60°-80°)	7244.9	28.5	B5		G3/7500
BVH (80°-90°)	610.9	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°	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7	2104.7
2.5°	2091.7	2091.7	2091.7	2088.5	2082.0	2078.7	2072.2	2075.5	2075.5	2075.5	2075.5
5°	2065.7	2065.7	2062.5	2059.2	2052.7	2049.5	2043.0	2049.5	2049.5	2049.5	2049.5
7.5°	2017.0	2020.2	2020.2	2017.0	2007.3	2004.0	1994.3	1997.5	1997.5	2000.8	1997.5
10°	1991.0	1991.0	1987.8	1971.5	1955.3	1948.8	1945.5	1955.3	1965.0	1974.8	1974.8
12.5°	1991.0	1991.0	1984.5	1958.5	1935.8	1935.8	1935.8	1948.8	1968.3	1987.8	1991.0
15°	2000.8	2000.8	1987.8	1958.5	1945.5	1948.8	1948.8	1961.8	1984.5	2010.5	2013.7
17.5°	2007.3	2007.3	1991.0	1961.8	1961.8	1971.5	1965.0	1974.8	1997.5	2026.7	2030.0
20°	2017.0	2017.0	1994.3	1971.5	1971.5	1981.3	1981.3	1991.0	2010.5	2039.7	2043.0
22.5°	2036.5	2033.2	2010.5	1991.0	1991.0	1997.5	2004.0	2017.0	2033.2	2059.2	2065.7
25°	2059.2	2059.2	2039.7	2036.5	2043.0	2059.2	2056.0	2052.7	2059.2	2082.0	2091.7
27.5°	2072.2	2072.2	2059.2	2069.0	2094.9	2107.9	2091.7	2078.7	2078.7	2101.4	2104.7
30°	2114.4	2111.2	2098.2	2104.7	2127.4	2133.9	2124.2	2107.9	2117.7	2143.7	2146.9
32.5°	2185.9	2185.9	2166.4	2166.4	2182.6	2208.6	2176.1	2166.4	2179.4	2208.6	2211.9
35°	2296.3	2296.3	2270.3	2257.3	2270.3	2306.1	2257.3	2254.1	2276.8	2309.3	2312.6
37.5°	2436.0	2436.0	2419.7	2387.3	2390.5	2413.2	2371.0	2367.8	2410.0	2445.7	2445.7
40°	2611.4	2621.1	2604.9	2565.9	2552.9	2556.2	2523.7	2526.9	2575.6	2617.9	2617.9
42.5°	2829.0	2835.5	2809.5	2780.3	2764.0	2754.3	2721.8	2728.3	2786.8	2842.0	2842.0
45°	3092.1	3095.3	3069.3	3033.6	3014.1	3007.6	2975.2	2991.4	3056.4	3114.8	3111.6
47.5°	3387.6	3390.9	3364.9	3329.2	3316.2	3325.9	3293.5	3293.5	3351.9	3400.6	3394.1
50°	3722.2	3728.7	3699.5	3683.2	3673.5	3699.5	3660.5	3624.7	3663.7	3712.4	3705.9
52.5°	4092.5	4108.7	4089.2	4095.7	4131.4	4163.9	4099.0	4021.0	4040.5	4073.0	4063.2
55°	4540.7	4560.2	4566.7	4589.4	4683.6	4738.8	4631.6	4501.7	4492.0	4495.2	4479.0
57.5°	5044.1	5057.1	5099.3	5151.3	5346.2	5433.9	5265.0	5040.9	4969.4	4927.2	4917.4
60°	5550.8	5573.5	5677.5	5784.7	6083.5	6242.6	5982.8	5606.0	5453.4	5375.4	5359.2
62.5°	6060.7	6106.2	6275.1	6457.0	6892.2	7129.3	6729.8	6184.2	5963.3	5865.9	5839.9
65°	6651.9	6707.1	6911.7	7142.3	7626.3	7960.8	7476.9	6781.8	6544.7	6414.8	6382.3
67.5°	7343.7	7402.1	7567.8	7824.4	8282.4	8610.4	8181.7	7392.4	7083.8	6918.2	6892.2
70°	7912.1	7964.0	8142.7	8402.5	8743.6	9117.1	8707.8	7879.6	7600.3	7483.3	7467.1
72.5°	7824.4	7892.6	8155.7	8545.4	9032.6	9454.9	8938.4	7973.8	7571.0	7408.6	7356.7
75°	6833.8	6908.5	7220.3	7925.1	8815.0	9445.1	8603.9	7346.9	6872.7	6736.3	6710.3
77.5°	4524.4	4595.9	5122.1	6232.9	7697.7	8607.2	7593.8	6154.9	5391.6	5063.6	5044.1
80°	1828.6	1919.6	2423.0	3602.0	5456.6	6690.8	5632.0	3939.8	2656.8	2143.7	2039.7
82.5°	425.5	506.7	737.3	1328.4	2793.3	4167.2	3036.9	1471.3	854.2	607.4	545.7
85°	178.6	181.9	315.1	432.0	873.7	1682.5	993.9	535.9	435.2	318.3	311.8
87.5°	68.2	71.5	152.7	181.9	279.3	318.3	337.8	276.1	256.6	159.2	152.7
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)