

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: P400055

Luminaire Tested: **ARCH-L-PA3-230-727-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400055  
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-PA3-230-727-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27357 lumens  
Efficiency: N/A  
Efficacy: 119.5 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

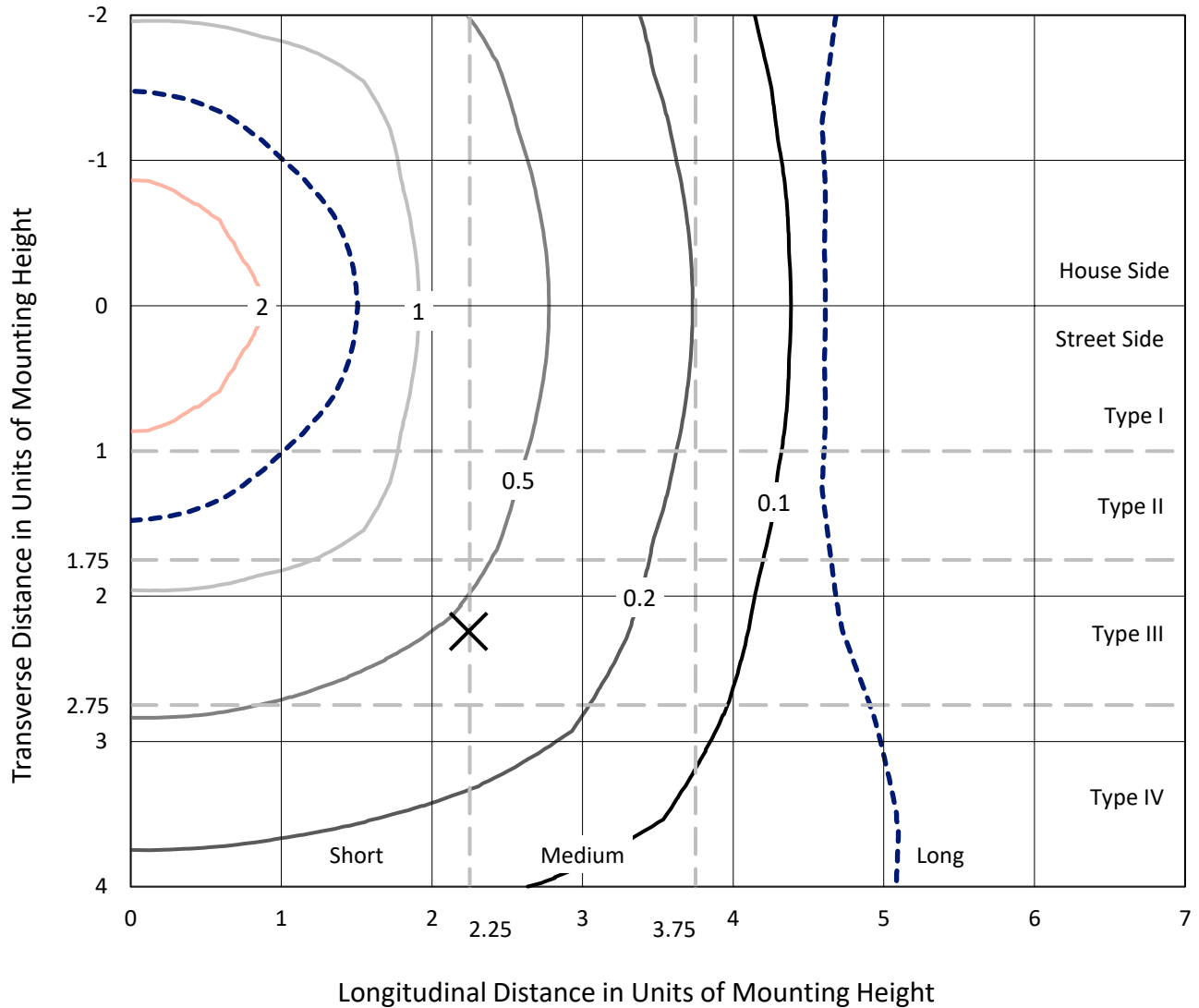
Input Watts (W): 229  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

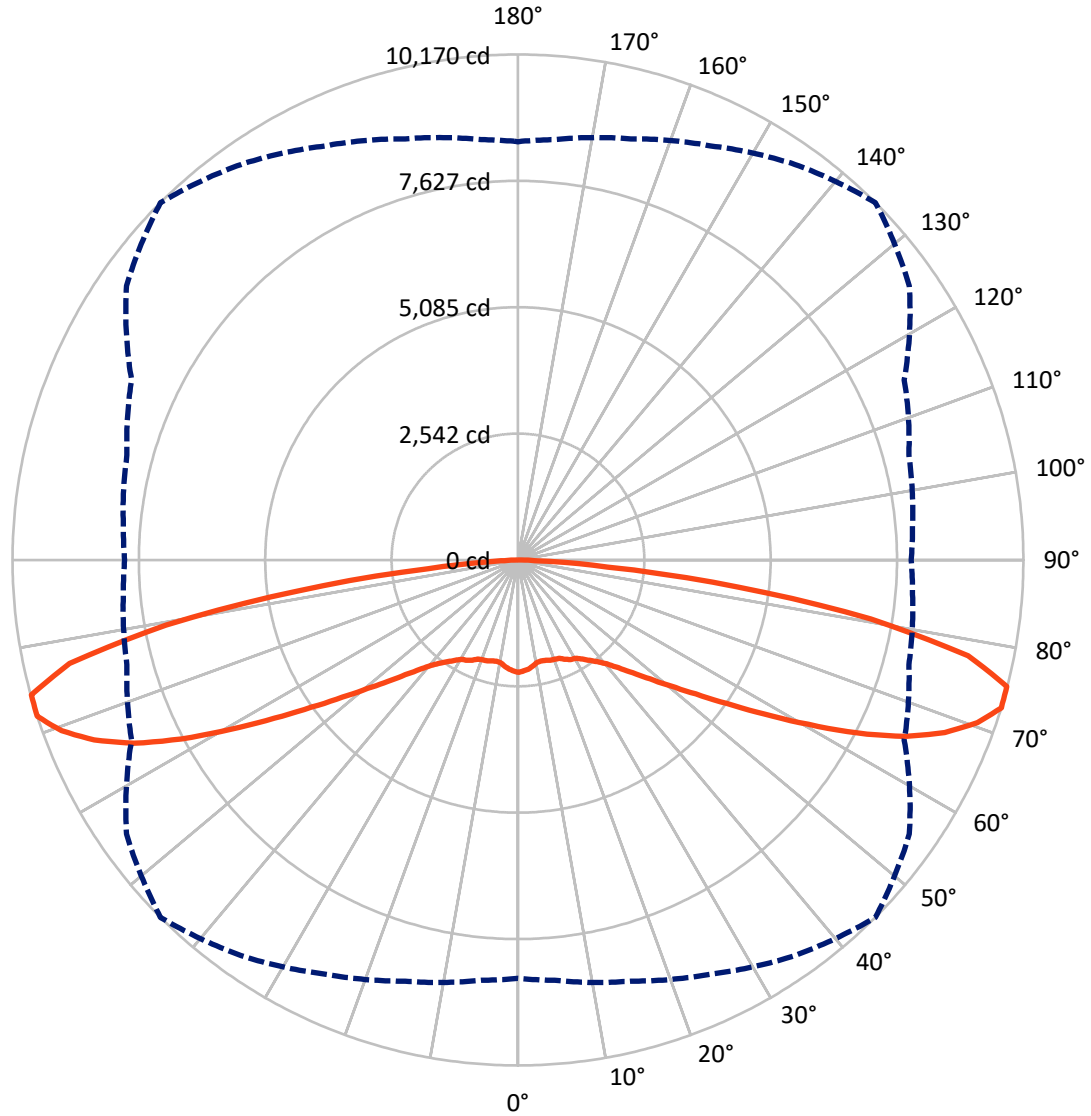
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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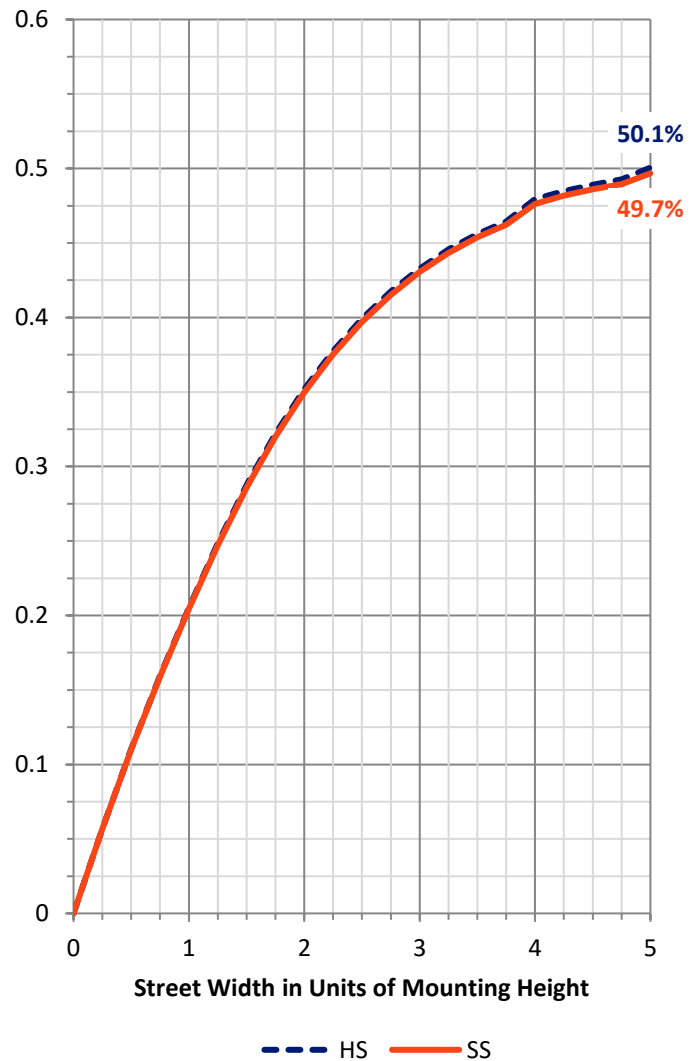
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13678.5	0.0	13678.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13678.5	0.0	13678.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27357.0	0.0	27357.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.6	0.8
10°-20°	602.6	2.2
20°-30°	1023.8	3.7
30°-40°	1561.7	5.7
40°-50°	2571.4	9.4
50°-60°	4490.5	16.4
60°-70°	7528.4	27.5
70°-80°	8056.9	29.5
80°-90°	1314.1	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°	27357.0	100.0
0°-180°	27357.0	100.0



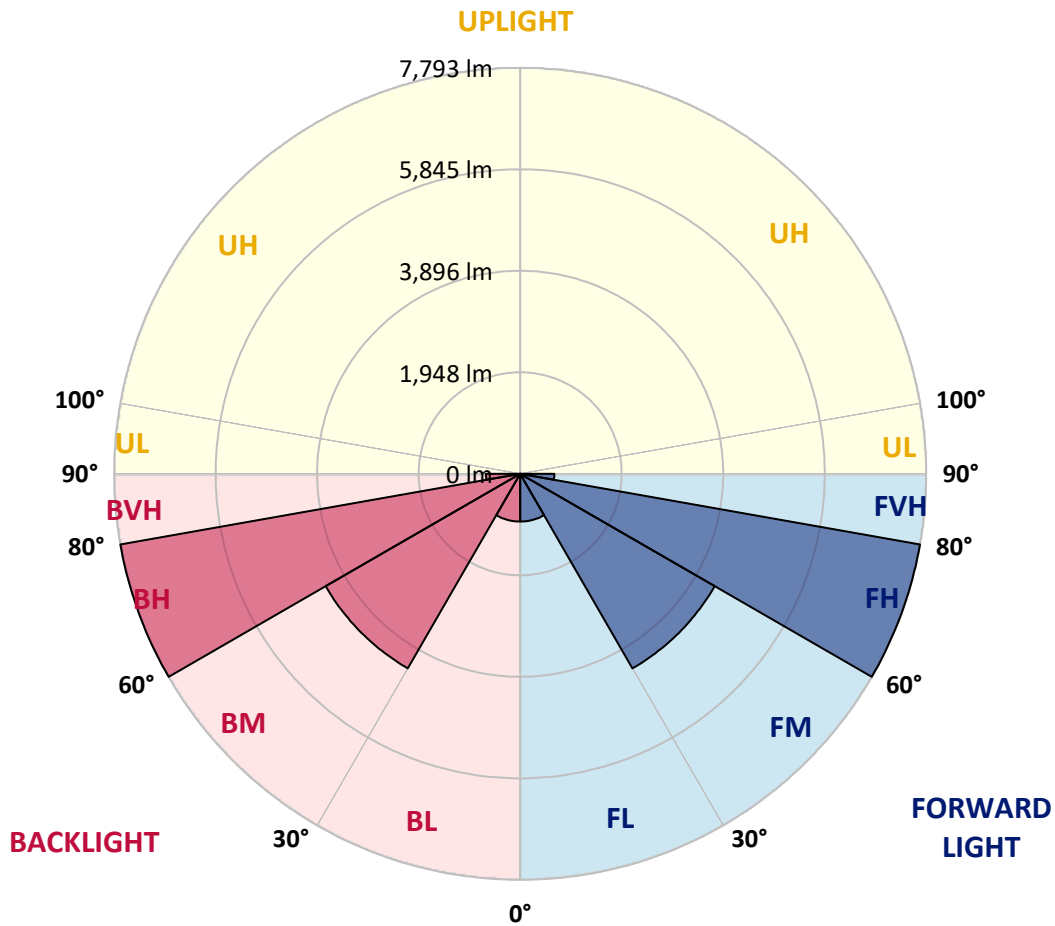
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.0	3.4			
FM (30°-60°)	4311.8	15.8			
FH (60°-80°)	7792.7	28.5			G4/12000
FVH (80°-90°)	657.0	2.4			G4/750
BL (0°-30°)	917.0	3.4	B2/1000		
BM (30°-60°)	4311.8	15.8	B3/5000		
BH (60°-80°)	7792.7	28.5	B5		G4/12000
BVH (80°-90°)	657.0	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°	2263.8	2263.8	2263.8	2263.8	2263.8	2263.8	2263.8	2263.8	2263.8	2263.8	2263.8
2.5°	2249.8	2249.8	2249.8	2246.4	2239.4	2235.9	2228.9	2232.4	2232.4	2232.4	2232.4
5°	2221.9	2221.9	2218.4	2214.9	2207.9	2204.4	2197.4	2204.4	2204.4	2204.4	2204.4
7.5°	2169.5	2173.0	2173.0	2169.5	2159.0	2155.5	2145.0	2148.5	2148.5	2152.0	2148.5
10°	2141.5	2141.5	2138.1	2120.6	2103.1	2096.1	2092.6	2103.1	2113.6	2124.1	2124.1
12.5°	2141.5	2141.5	2134.6	2106.6	2082.2	2082.2	2082.2	2096.1	2117.1	2138.1	2141.5
15°	2152.0	2152.0	2138.1	2106.6	2092.6	2096.1	2096.1	2110.1	2134.6	2162.5	2166.0
17.5°	2159.0	2159.0	2141.5	2110.1	2110.1	2120.6	2113.6	2124.1	2148.5	2180.0	2183.5
20°	2169.5	2169.5	2145.0	2120.6	2120.6	2131.1	2131.1	2141.5	2162.5	2194.0	2197.4
22.5°	2190.5	2187.0	2162.5	2141.5	2141.5	2148.5	2155.5	2169.5	2187.0	2214.9	2221.9
25°	2214.9	2214.9	2194.0	2190.5	2197.4	2214.9	2211.4	2207.9	2214.9	2239.4	2249.8
27.5°	2228.9	2228.9	2214.9	2225.4	2253.3	2267.3	2249.8	2235.9	2235.9	2260.3	2263.8
30°	2274.3	2270.8	2256.8	2263.8	2288.3	2295.3	2284.8	2267.3	2277.8	2305.7	2309.2
32.5°	2351.2	2351.2	2330.2	2330.2	2347.7	2375.6	2340.7	2330.2	2344.2	2375.6	2379.1
35°	2469.9	2469.9	2442.0	2428.0	2442.0	2480.4	2428.0	2424.5	2449.0	2483.9	2487.4
37.5°	2620.2	2620.2	2602.7	2567.8	2571.3	2595.7	2550.3	2546.8	2592.2	2630.6	2630.6
40°	2808.8	2819.3	2801.8	2759.9	2745.9	2749.4	2714.5	2718.0	2770.4	2815.8	2815.8
42.5°	3042.9	3049.9	3021.9	2990.5	2973.0	2962.5	2927.6	2934.6	2997.5	3056.9	3056.9
45°	3325.9	3329.4	3301.4	3263.0	3242.0	3235.0	3200.1	3217.6	3287.4	3350.3	3346.8
47.5°	3643.8	3647.3	3619.3	3580.9	3566.9	3577.4	3542.5	3542.5	3605.3	3657.7	3650.8
50°	4003.6	4010.6	3979.2	3961.7	3951.2	3979.2	3937.2	3898.8	3940.7	3993.1	3986.1
52.5°	4401.9	4419.3	4398.4	4405.4	4443.8	4478.7	4408.9	4325.0	4346.0	4380.9	4370.4
55°	4884.0	4904.9	4911.9	4936.4	5037.7	5097.1	4981.8	4842.1	4831.6	4835.1	4817.6
57.5°	5425.5	5439.5	5484.9	5540.8	5750.4	5844.7	5663.0	5422.0	5345.1	5299.7	5289.2
60°	5970.5	5994.9	6106.7	6222.0	6543.4	6714.6	6435.1	6029.9	5865.7	5781.8	5764.4
62.5°	6519.0	6567.9	6749.5	6945.2	7413.3	7668.3	7238.6	6651.7	6414.2	6309.4	6281.4
65°	7154.8	7214.2	7434.3	7682.3	8202.9	8562.7	8042.2	7294.5	7039.5	6899.8	6864.8
67.5°	7898.9	7961.8	8140.0	8416.0	8908.6	9261.4	8800.3	7951.3	7619.4	7441.3	7413.3
70°	8510.3	8566.2	8758.3	9037.8	9404.6	9806.4	9366.2	8475.4	8174.9	8049.1	8031.7
72.5°	8416.0	8489.3	8772.3	9191.5	9715.6	10169.7	9614.3	8576.7	8143.5	7968.8	7912.9
75°	7350.4	7430.8	7766.2	8524.3	9481.5	10159.3	9254.4	7902.4	7392.4	7245.6	7217.7
77.5°	4866.5	4943.4	5509.3	6704.1	8279.7	9257.9	8167.9	6620.3	5799.3	5446.4	5425.5
80°	1966.9	2064.7	2606.2	3874.3	5869.2	7196.7	6057.8	4237.7	2857.7	2305.7	2194.0
82.5°	457.7	545.0	793.0	1428.9	3004.5	4482.2	3266.5	1582.6	918.8	653.3	586.9
85°	192.1	195.6	338.9	464.6	939.8	1809.7	1069.0	576.4	468.1	342.4	335.4
87.5°	73.4	76.9	164.2	195.6	300.4	342.4	363.3	297.0	276.0	171.2	164.2
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)