

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: P400199

Luminaire Tested: **ARCH-L-PA3-250-727-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400199  
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-PA3-250-727-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 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: 28932 lumens  
Efficiency: N/A  
Efficacy: 115.3 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

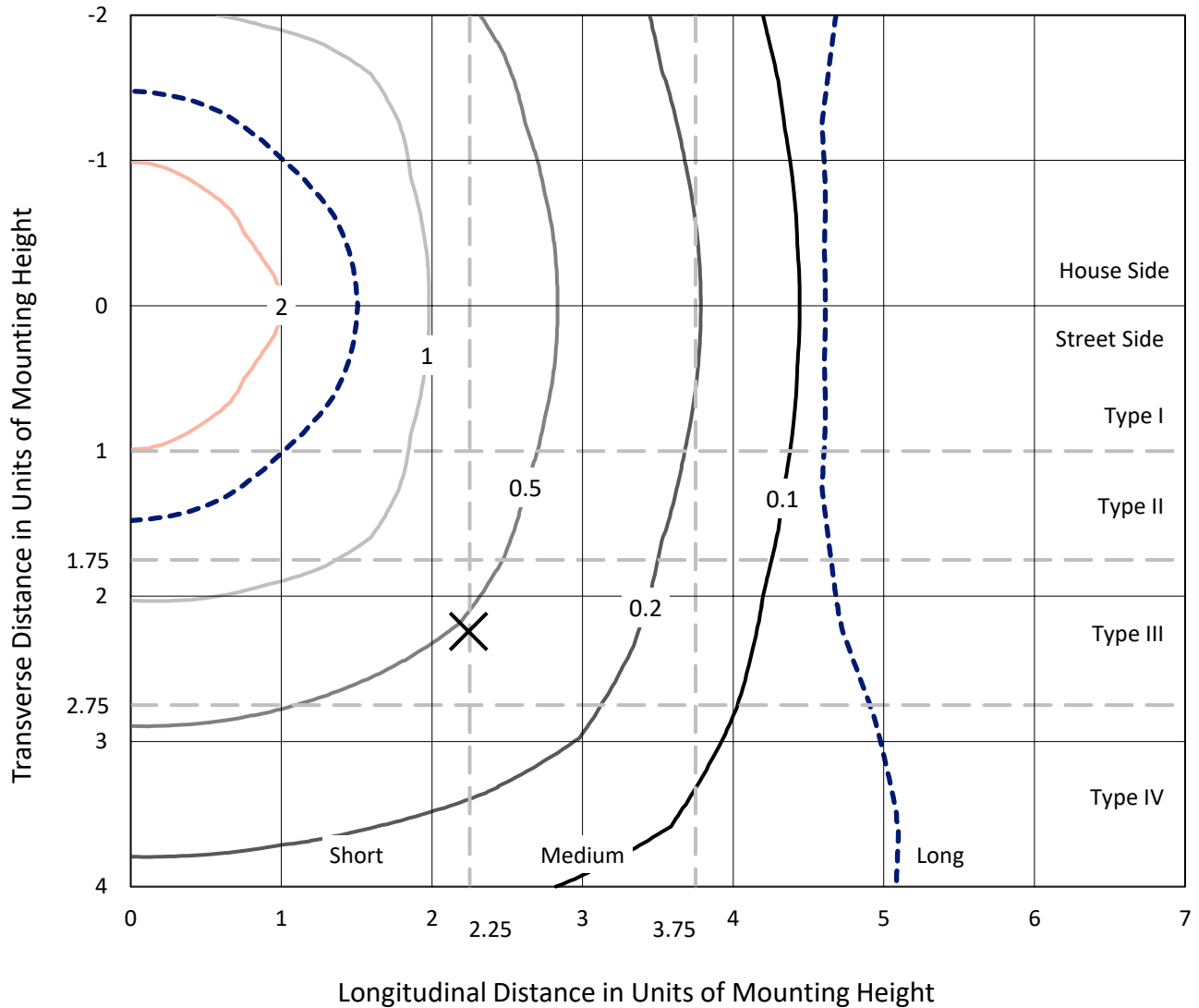
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

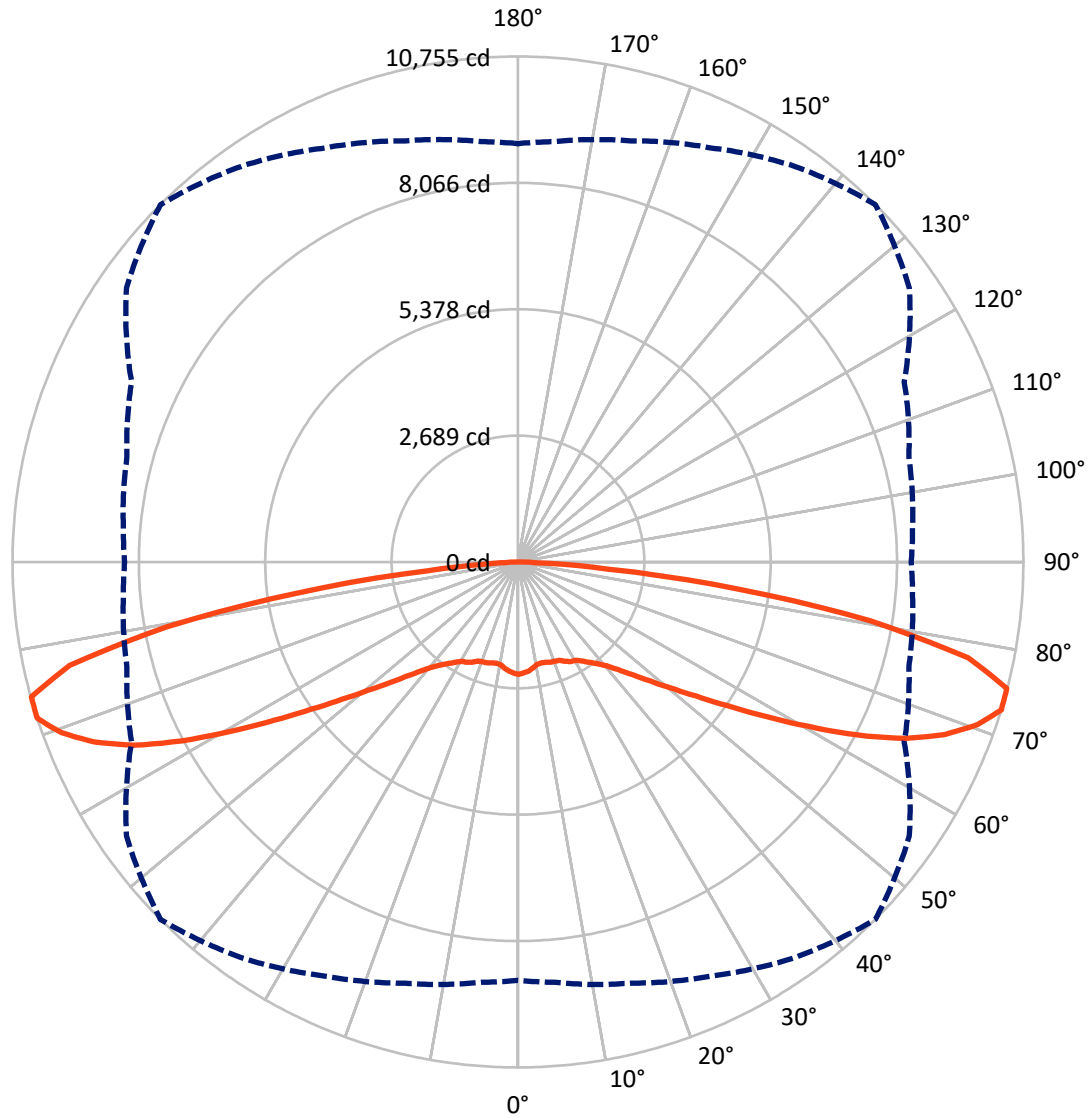
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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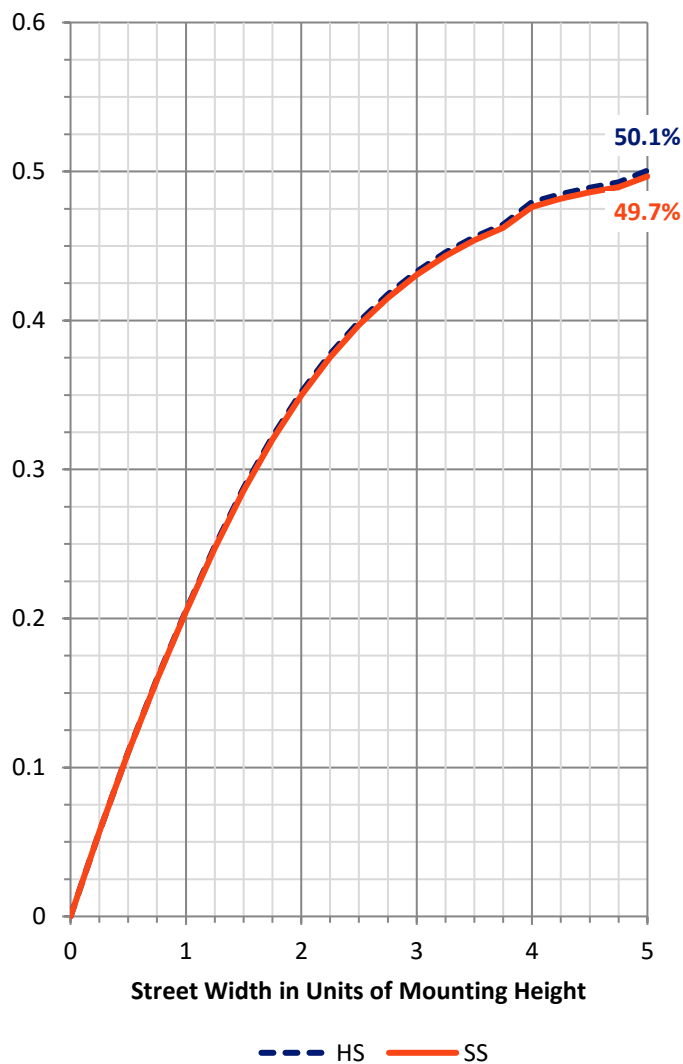
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14466.0	0.0	14466.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14466.0	0.0	14466.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28932.0	0.0	28932.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.5	0.8
10°-20°	637.3	2.2
20°-30°	1082.8	3.7
30°-40°	1651.6	5.7
40°-50°	2719.5	9.4
50°-60°	4749.0	16.4
60°-70°	7961.8	27.5
70°-80°	8520.8	29.5
80°-90°	1389.7	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°	28932.0	100.0
0°-180°	28932.0	100.0

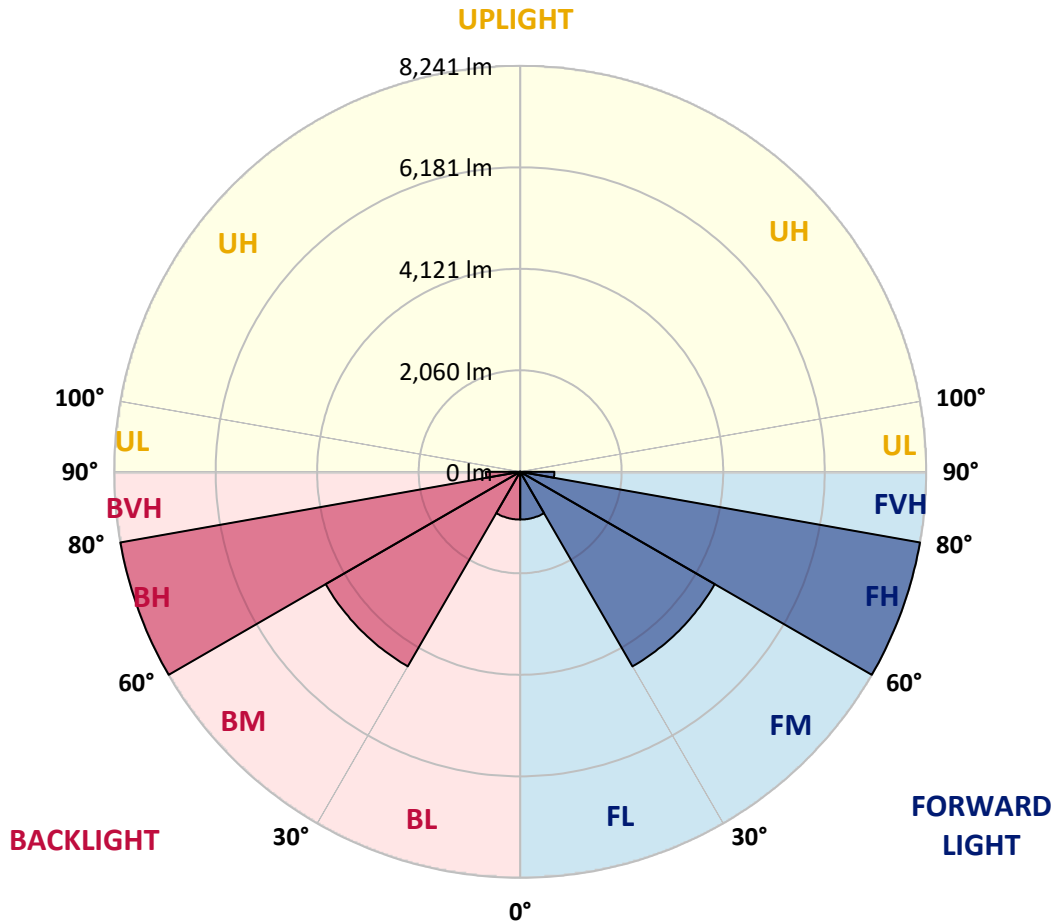


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.8	3.4			
FM (30°-60°)	4560.0	15.8			
FH (60°-80°)	8241.3	28.5			G4/12000
FVH (80°-90°)	694.9	2.4			G4/750
BL (0°-30°)	969.8	3.4	B2/1000		
BM (30°-60°)	4560.0	15.8	B3/5000		
BH (60°-80°)	8241.3	28.5	B5		G4/12000
BVH (80°-90°)	694.9	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°	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2	2394.2
2.5°	2379.4	2379.4	2379.4	2375.7	2368.3	2364.6	2357.2	2360.9	2360.9	2360.9	2360.9
5°	2349.8	2349.8	2346.1	2342.4	2335.0	2331.3	2324.0	2331.3	2331.3	2331.3	2331.3
7.5°	2294.4	2298.1	2298.1	2294.4	2283.3	2279.6	2268.5	2272.2	2272.2	2275.9	2272.2
10°	2264.8	2264.8	2261.1	2242.7	2224.2	2216.8	2213.1	2224.2	2235.3	2246.4	2246.4
12.5°	2264.8	2264.8	2257.5	2227.9	2202.0	2202.0	2202.0	2216.8	2239.0	2261.1	2264.8
15°	2275.9	2275.9	2261.1	2227.9	2213.1	2216.8	2216.8	2231.6	2257.5	2287.0	2290.7
17.5°	2283.3	2283.3	2264.8	2231.6	2231.6	2242.7	2235.3	2246.4	2272.2	2305.5	2309.2
20°	2294.4	2294.4	2268.5	2242.7	2242.7	2253.8	2253.8	2264.8	2287.0	2320.3	2324.0
22.5°	2316.6	2312.9	2287.0	2264.8	2264.8	2272.2	2279.6	2294.4	2312.9	2342.4	2349.8
25°	2342.4	2342.4	2320.3	2316.6	2324.0	2342.4	2338.7	2335.0	2342.4	2368.3	2379.4
27.5°	2357.2	2357.2	2342.4	2353.5	2383.1	2397.8	2379.4	2364.6	2364.6	2390.5	2394.2
30°	2405.2	2401.5	2386.8	2394.2	2420.0	2427.4	2416.3	2397.8	2408.9	2438.5	2442.2
32.5°	2486.5	2486.5	2464.4	2464.4	2482.8	2512.4	2475.4	2464.4	2479.1	2512.4	2516.1
35°	2612.1	2612.1	2582.6	2567.8	2582.6	2623.2	2567.8	2564.1	2590.0	2626.9	2630.6
37.5°	2771.0	2771.0	2752.5	2715.6	2719.3	2745.2	2697.1	2693.4	2741.5	2782.1	2782.1
40°	2970.5	2981.6	2963.1	2918.8	2904.0	2907.7	2870.8	2874.5	2929.9	2977.9	2977.9
42.5°	3218.1	3225.5	3195.9	3162.6	3144.2	3133.1	3096.1	3103.5	3170.0	3232.8	3232.8
45°	3517.3	3521.0	3491.5	3450.8	3428.7	3421.3	3384.3	3402.8	3476.7	3543.2	3539.5
47.5°	3853.6	3857.2	3827.7	3787.1	3772.3	3783.4	3746.4	3746.4	3812.9	3868.3	3860.9
50°	4234.1	4241.5	4208.2	4189.8	4178.7	4208.2	4163.9	4123.3	4167.6	4223.0	4215.6
52.5°	4655.3	4673.8	4651.6	4659.0	4699.6	4736.6	4662.7	4574.0	4596.2	4633.1	4622.0
55°	5165.2	5187.3	5194.7	5220.6	5327.7	5390.5	5268.6	5120.8	5109.7	5113.4	5095.0
57.5°	5737.8	5752.6	5800.7	5859.8	6081.4	6181.2	5989.1	5734.1	5652.9	5604.8	5593.8
60°	6314.2	6340.1	6458.3	6580.2	6920.1	7101.2	6805.6	6377.0	6203.4	6114.7	6096.2
62.5°	6894.3	6946.0	7138.1	7345.0	7840.1	8109.8	7655.4	7034.7	6783.4	6672.6	6643.0
65°	7566.7	7629.5	7862.3	8124.6	8675.1	9055.7	8505.2	7714.5	7444.8	7297.0	7260.1
67.5°	8353.7	8420.2	8608.6	8900.5	9421.4	9794.6	9306.9	8409.1	8058.1	7869.7	7840.1
70°	9000.2	9059.4	9262.6	9558.1	9946.1	10371.0	9905.4	8963.3	8645.6	8512.6	8494.1
72.5°	8900.5	8978.1	9277.4	9720.7	10274.9	10755.2	10167.8	9070.4	8612.3	8427.6	8368.5
75°	7773.6	7858.6	8213.3	9015.0	10027.4	10744.1	9787.2	8357.4	7818.0	7662.8	7633.2
77.5°	5146.7	5228.0	5826.5	7090.1	8756.4	9790.9	8638.2	7001.4	6133.2	5760.0	5737.8
80°	2080.1	2183.6	2756.2	4097.4	6207.1	7611.0	6406.6	4481.7	3022.3	2438.5	2320.3
82.5°	484.0	576.4	838.7	1511.1	3177.4	4740.3	3454.5	1673.7	971.7	690.9	620.7
85°	203.2	206.9	358.4	491.4	993.9	1913.8	1130.6	609.6	495.1	362.1	354.7
87.5°	77.6	81.3	173.7	206.9	317.7	362.1	384.2	314.0	291.9	181.0	173.7
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)