

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: P399731

Luminaire Tested: **ARCH-L-PA3-180-760-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399731  
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-PA3-180-760-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27573 lumens  
Efficiency: N/A  
Efficacy: 152.3 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

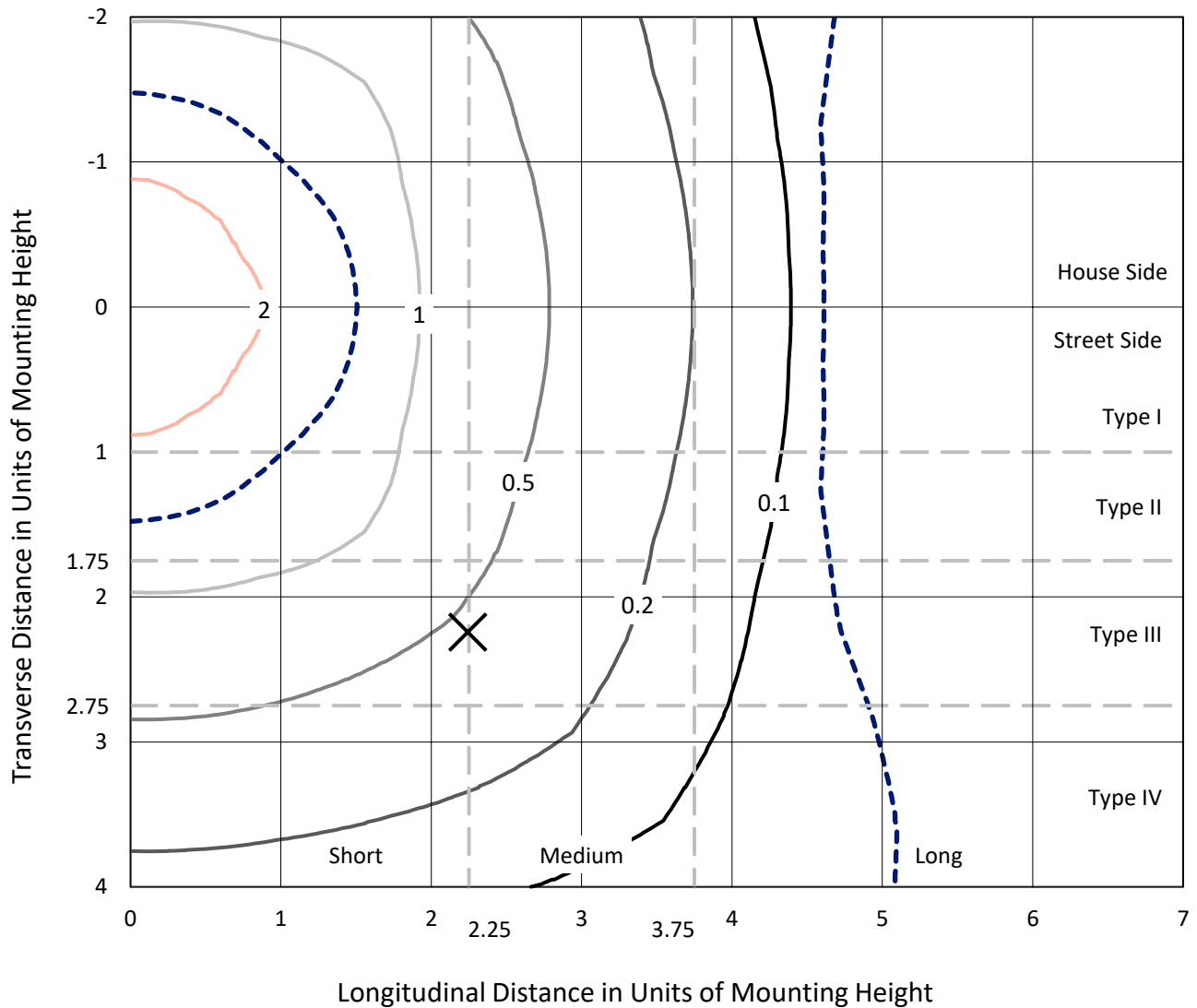
Input Watts (W): 181  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

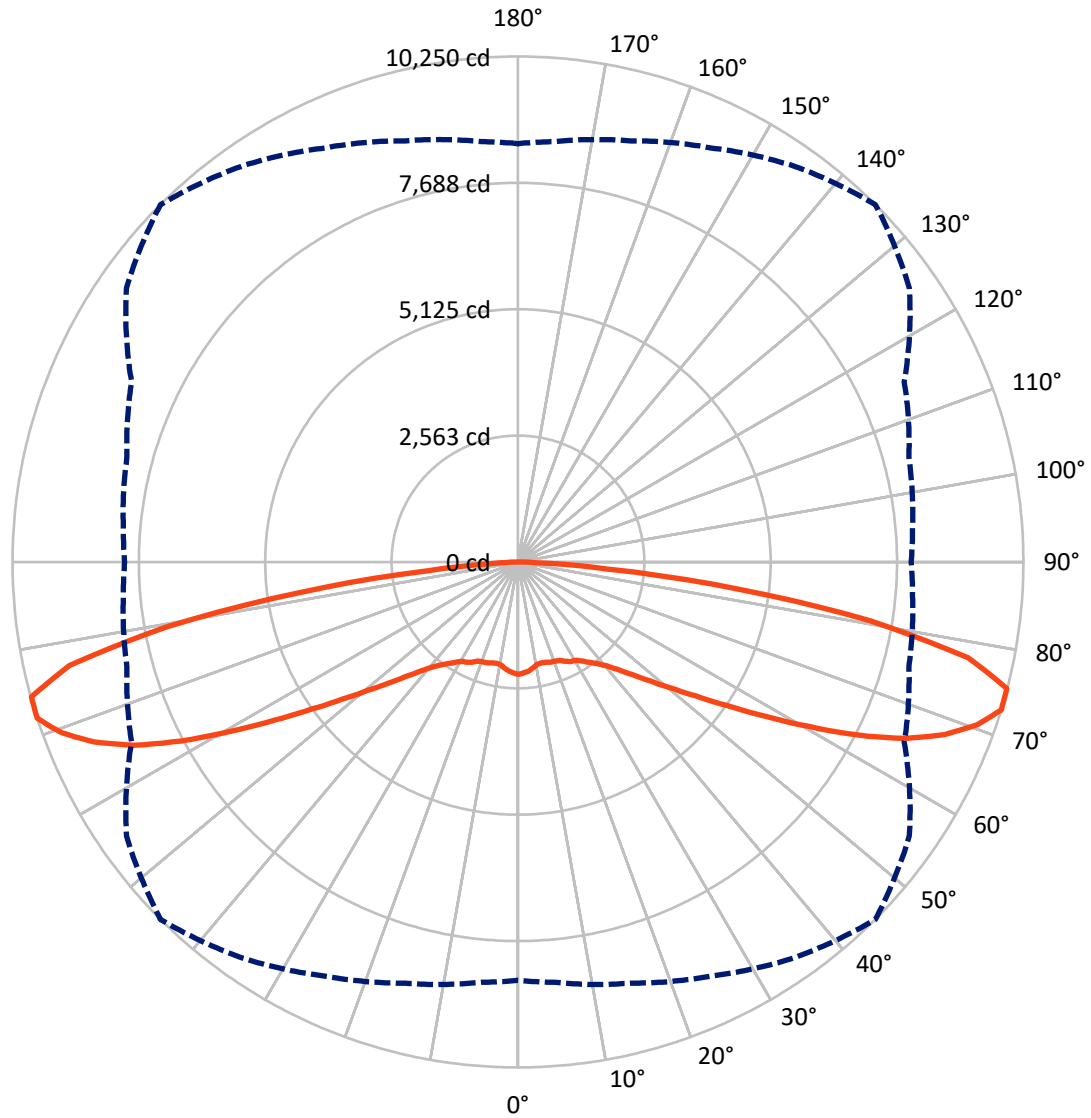
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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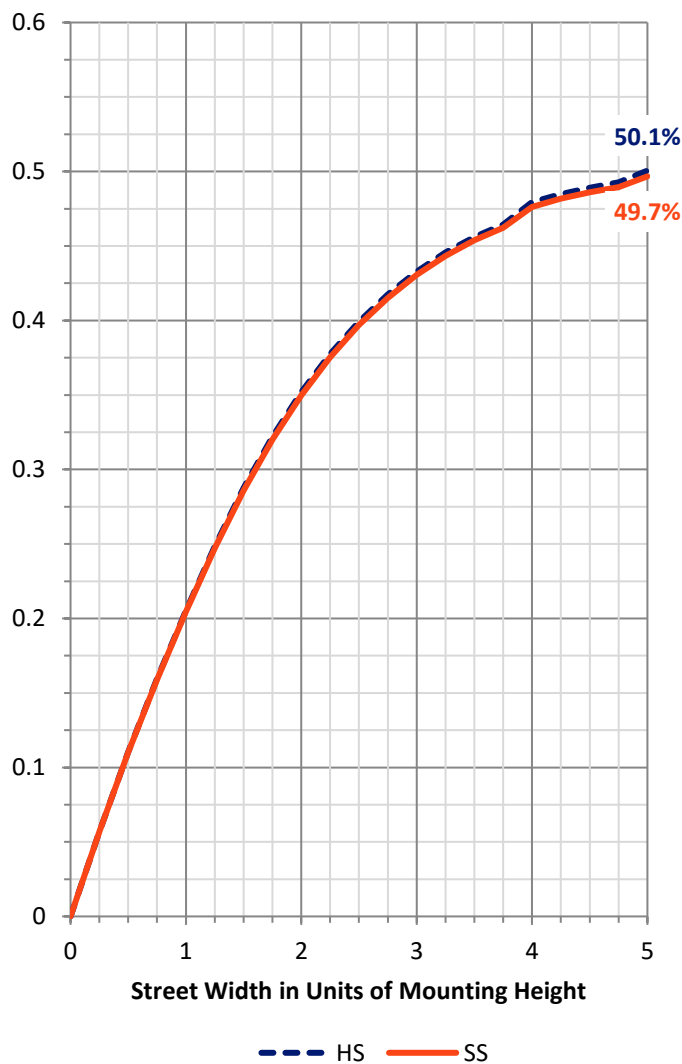
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13786.5	0.0	13786.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13786.5	0.0	13786.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27573.0	0.0	27573.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.2	0.8
10°-20°	607.3	2.2
20°-30°	1031.9	3.7
30°-40°	1574.0	5.7
40°-50°	2591.7	9.4
50°-60°	4525.9	16.4
60°-70°	7587.8	27.5
70°-80°	8120.6	29.5
80°-90°	1324.5	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°	27573.0	100.0
0°-180°	27573.0	100.0

**Coefficient of Utilization**



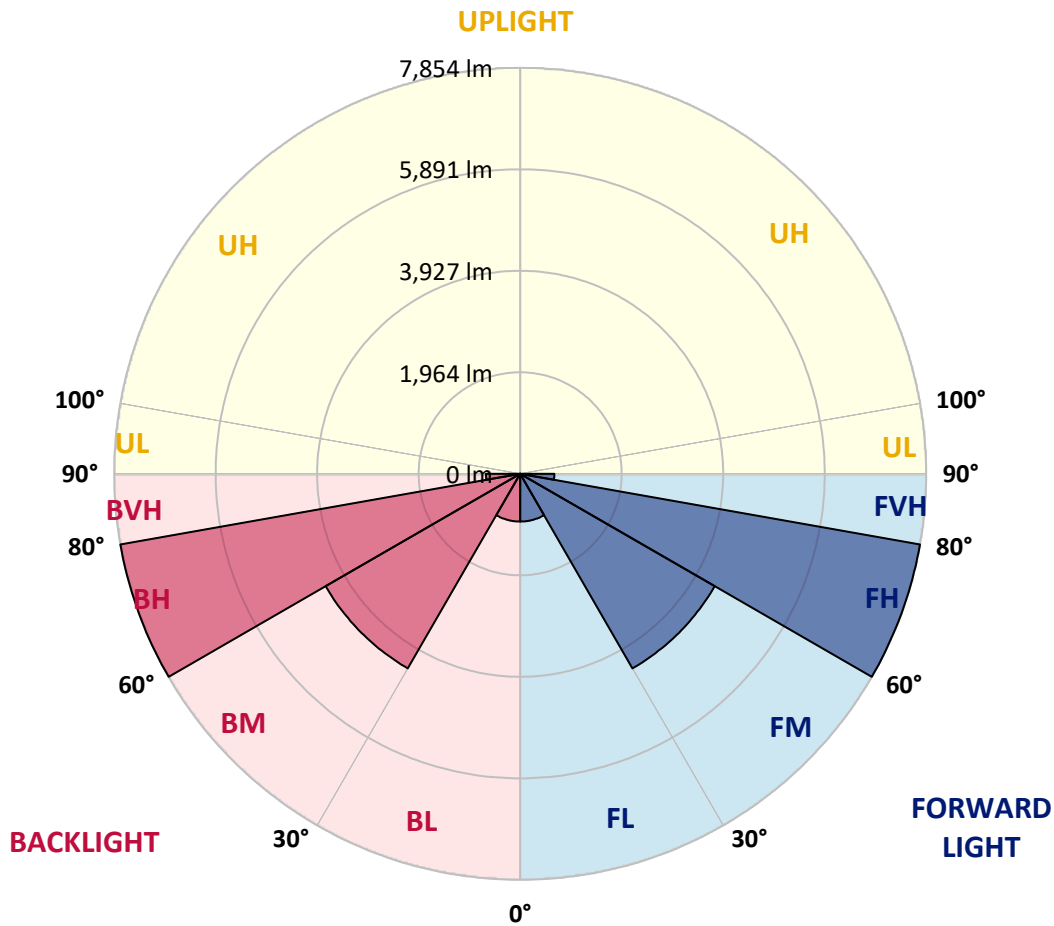
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	924.2	3.4			
FM (30°-60°)	4345.8	15.8			
FH (60°-80°)	7854.2	28.5			G4/12000
FVH (80°-90°)	662.2	2.4			G4/750
BL (0°-30°)	924.2	3.4	B2/1000		
BM (30°-60°)	4345.8	15.8	B3/5000		
BH (60°-80°)	7854.2	28.5	B5		G4/12000
BVH (80°-90°)	662.2	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°	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7	2281.7
2.5°	2267.6	2267.6	2267.6	2264.1	2257.0	2253.5	2246.5	2250.0	2250.0	2250.0	2250.0
5°	2239.4	2239.4	2235.9	2232.4	2225.4	2221.8	2214.8	2221.8	2221.8	2221.8	2221.8
7.5°	2186.6	2190.1	2190.1	2186.6	2176.1	2172.5	2162.0	2165.5	2165.5	2169.0	2165.5
10°	2158.5	2158.5	2154.9	2137.3	2119.7	2112.7	2109.2	2119.7	2130.3	2140.9	2140.9
12.5°	2158.5	2158.5	2151.4	2123.2	2098.6	2098.6	2098.6	2112.7	2133.8	2154.9	2158.5
15°	2169.0	2169.0	2154.9	2123.2	2109.2	2112.7	2112.7	2126.8	2151.4	2179.6	2183.1
17.5°	2176.1	2176.1	2158.5	2126.8	2126.8	2137.3	2130.3	2140.9	2165.5	2197.2	2200.7
20°	2186.6	2186.6	2162.0	2137.3	2137.3	2147.9	2147.9	2158.5	2179.6	2211.3	2214.8
22.5°	2207.8	2204.2	2179.6	2158.5	2158.5	2165.5	2172.5	2186.6	2204.2	2232.4	2239.4
25°	2232.4	2232.4	2211.3	2207.8	2214.8	2232.4	2228.9	2225.4	2232.4	2257.0	2267.6
27.5°	2246.5	2246.5	2232.4	2243.0	2271.1	2285.2	2267.6	2253.5	2253.5	2278.2	2281.7
30°	2292.3	2288.7	2274.7	2281.7	2306.3	2313.4	2302.8	2285.2	2295.8	2324.0	2327.5
32.5°	2369.7	2369.7	2348.6	2348.6	2366.2	2394.4	2359.2	2348.6	2362.7	2394.4	2397.9
35°	2489.4	2489.4	2461.3	2447.2	2461.3	2500.0	2447.2	2443.7	2468.3	2503.5	2507.0
37.5°	2640.9	2640.9	2623.2	2588.0	2591.6	2616.2	2570.4	2566.9	2612.7	2651.4	2651.4
40°	2831.0	2841.6	2824.0	2781.7	2767.6	2771.1	2735.9	2739.4	2792.3	2838.0	2838.0
42.5°	3066.9	3074.0	3045.8	3014.1	2996.5	2985.9	2950.7	2957.8	3021.1	3081.0	3081.0
45°	3352.1	3355.6	3327.5	3288.7	3267.6	3260.6	3225.4	3243.0	3313.4	3376.8	3373.2
47.5°	3672.5	3676.1	3647.9	3609.2	3595.1	3605.6	3570.4	3570.4	3633.8	3686.6	3679.6
50°	4035.2	4042.3	4010.6	3993.0	3982.4	4010.6	3968.3	3929.6	3971.8	4024.7	4017.6
52.5°	4436.6	4454.2	4433.1	4440.2	4478.9	4514.1	4443.7	4359.2	4380.3	4415.5	4404.9
55°	4922.5	4943.7	4950.7	4975.4	5077.5	5137.3	5021.1	4880.3	4869.7	4873.3	4855.6
57.5°	5468.3	5482.4	5528.2	5584.5	5795.8	5890.9	5707.8	5464.8	5387.3	5341.6	5331.0
60°	6017.6	6042.3	6154.9	6271.1	6595.1	6767.6	6485.9	6077.5	5912.0	5827.5	5809.9
62.5°	6570.4	6619.7	6802.8	7000.0	7471.9	7728.9	7295.8	6704.2	6464.8	6359.2	6331.0
65°	7211.3	7271.1	7493.0	7743.0	8267.6	8630.3	8105.7	7352.1	7095.1	6954.2	6919.0
67.5°	7961.3	8024.7	8204.2	8482.4	8978.9	9334.5	8869.7	8014.1	7679.6	7500.0	7471.9
70°	8577.5	8633.8	8827.5	9109.2	9478.9	9883.8	9440.2	8542.3	8239.5	8112.7	8095.1
72.5°	8482.4	8556.4	8841.6	9264.1	9792.3	10250.0	9690.2	8644.4	8207.8	8031.7	7975.4
75°	7408.5	7489.5	7827.5	8591.6	9556.4	10239.5	9327.5	7964.8	7450.7	7302.8	7274.7
77.5°	4904.9	4982.4	5552.8	6757.1	8345.1	9331.0	8232.4	6672.6	5845.1	5489.5	5468.3
80°	1982.4	2081.0	2626.8	3904.9	5915.5	7253.5	6105.7	4271.1	2880.3	2324.0	2211.3
82.5°	461.3	549.3	799.3	1440.1	3028.2	4517.6	3292.3	1595.1	926.1	658.5	591.6
85°	193.7	197.2	341.6	468.3	947.2	1823.9	1077.5	581.0	471.8	345.1	338.0
87.5°	73.9	77.5	165.5	197.2	302.8	345.1	366.2	299.3	278.2	172.5	165.5
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)