

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: P399866

Luminaire Tested: **ARCH-L-PA3-200-750-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399866  
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-PA3-200-750-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29917 lumens  
Efficiency: N/A  
Efficacy: 148.8 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

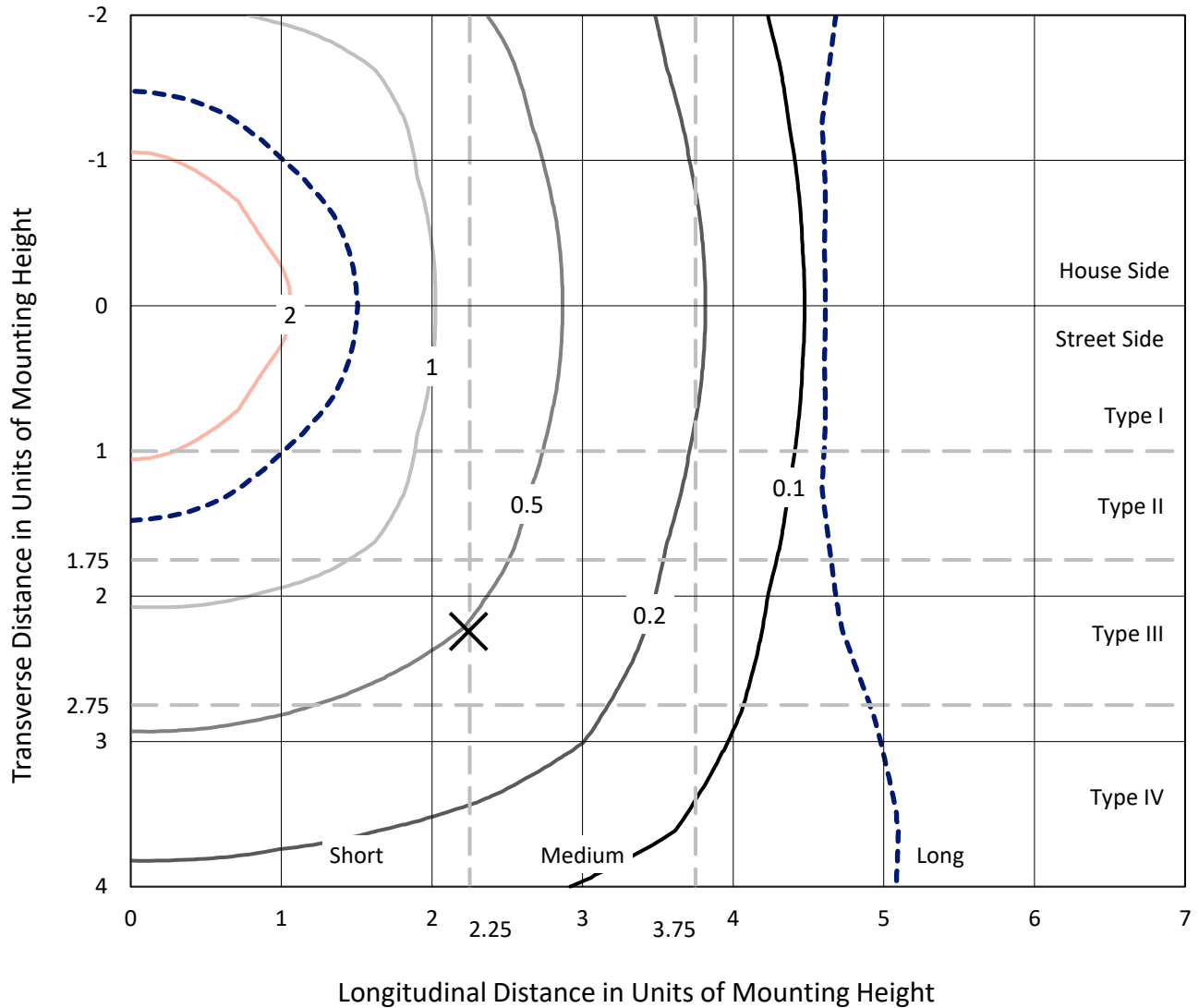
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

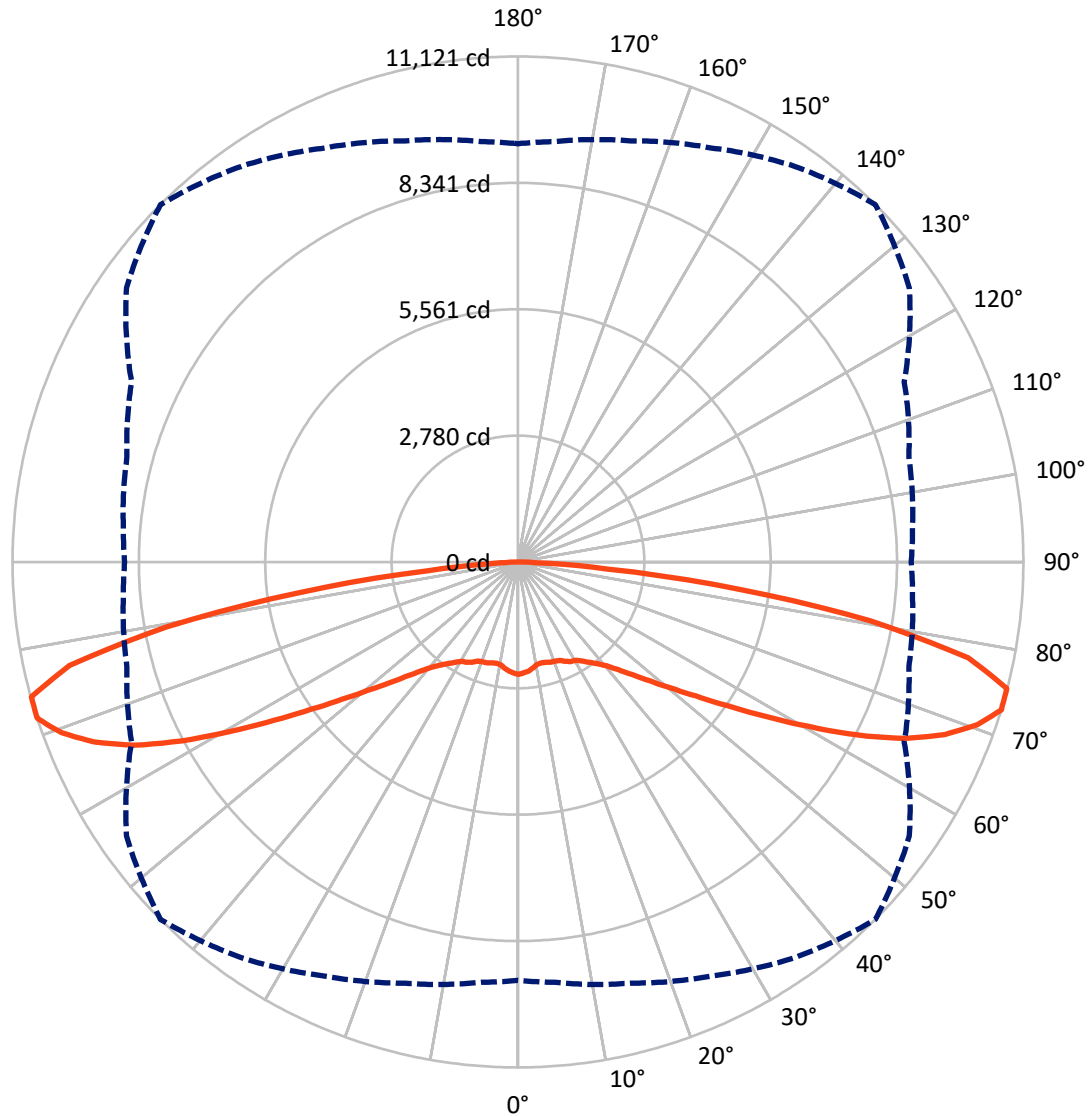
✕ Max cd  
 - - - 1/2 Max cd



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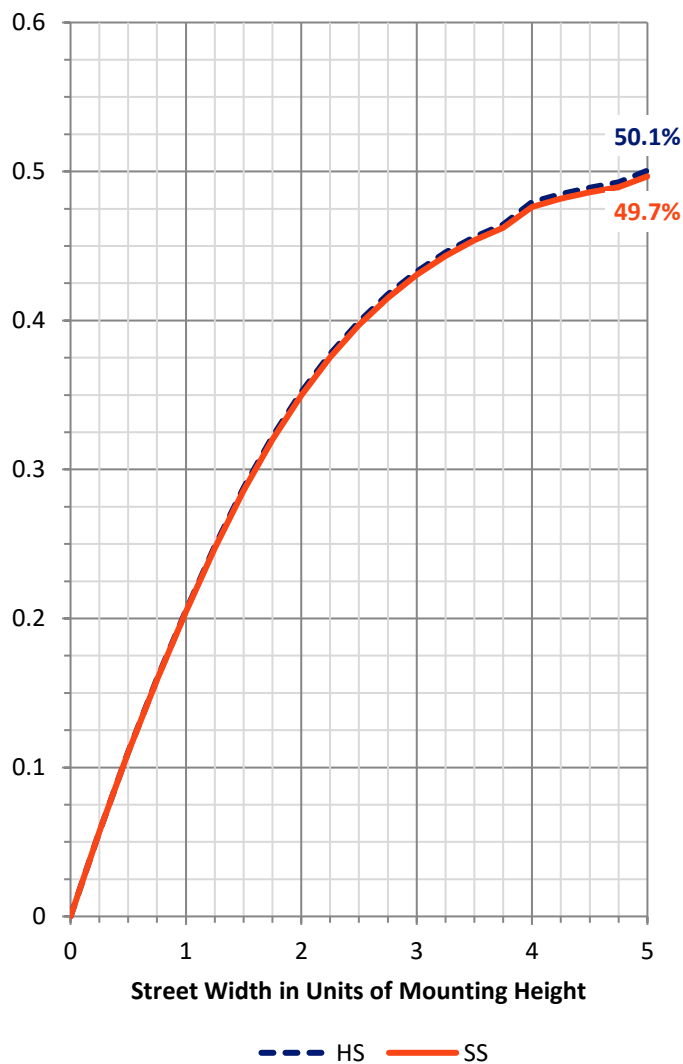
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14958.5	0.0	14958.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14958.5	0.0	14958.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29917.0	0.0	29917.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.0	0.8
10°-20°	659.0	2.2
20°-30°	1119.7	3.7
30°-40°	1707.8	5.7
40°-50°	2812.1	9.4
50°-60°	4910.7	16.4
60°-70°	8232.9	27.5
70°-80°	8810.9	29.5
80°-90°	1437.0	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°	29917.0	100.0
0°-180°	29917.0	100.0

**Coefficient of Utilization**



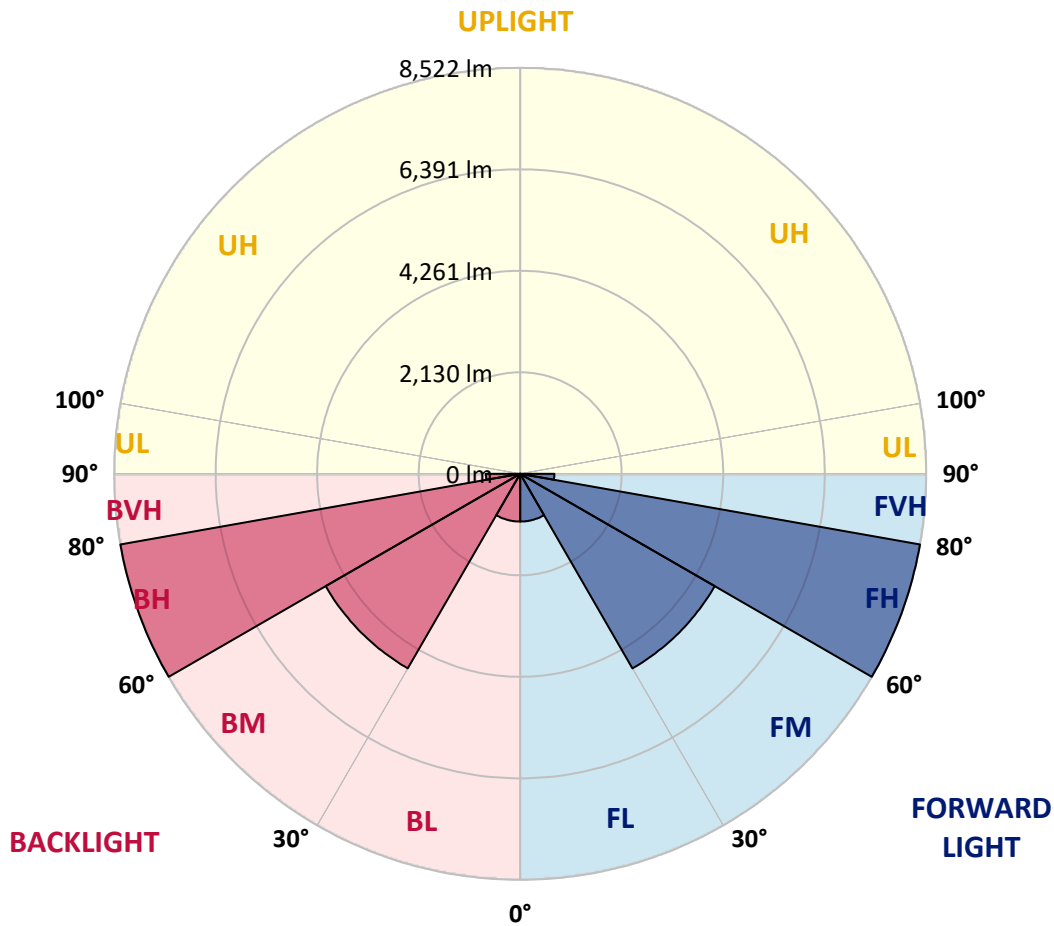
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.8	3.4			
FM (30°-60°)	4715.3	15.8			
FH (60°-80°)	8521.9	28.5			G4/12000
FVH (80°-90°)	718.5	2.4			G4/750
BL (0°-30°)	1002.8	3.4	B3/2500		
BM (30°-60°)	4715.3	15.8	B3/5000		
BH (60°-80°)	8521.9	28.5	B5		G4/12000
BVH (80°-90°)	718.5	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°	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7	2475.7
2.5°	2460.4	2460.4	2460.4	2456.6	2448.9	2445.1	2437.5	2441.3	2441.3	2441.3	2441.3
5°	2429.8	2429.8	2426.0	2422.2	2414.5	2410.7	2403.1	2410.7	2410.7	2410.7	2410.7
7.5°	2372.5	2376.3	2376.3	2372.5	2361.1	2357.2	2345.8	2349.6	2349.6	2353.4	2349.6
10°	2341.9	2341.9	2338.1	2319.0	2299.9	2292.3	2288.5	2299.9	2311.4	2322.8	2322.8
12.5°	2341.9	2341.9	2334.3	2303.7	2277.0	2277.0	2277.0	2292.3	2315.2	2338.1	2341.9
15°	2353.4	2353.4	2338.1	2303.7	2288.5	2292.3	2292.3	2307.6	2334.3	2364.9	2368.7
17.5°	2361.1	2361.1	2341.9	2307.6	2307.6	2319.0	2311.4	2322.8	2349.6	2384.0	2387.8
20°	2372.5	2372.5	2345.8	2319.0	2319.0	2330.5	2330.5	2341.9	2364.9	2399.3	2403.1
22.5°	2395.4	2391.6	2364.9	2341.9	2341.9	2349.6	2357.2	2372.5	2391.6	2422.2	2429.8
25°	2422.2	2422.2	2399.3	2395.4	2403.1	2422.2	2418.4	2414.5	2422.2	2448.9	2460.4
27.5°	2437.5	2437.5	2422.2	2433.6	2464.2	2479.5	2460.4	2445.1	2445.1	2471.8	2475.7
30°	2487.1	2483.3	2468.0	2475.7	2502.4	2510.0	2498.6	2479.5	2490.9	2521.5	2525.3
32.5°	2571.2	2571.2	2548.3	2548.3	2567.4	2597.9	2559.7	2548.3	2563.5	2597.9	2601.7
35°	2701.1	2701.1	2670.5	2655.2	2670.5	2712.5	2655.2	2651.4	2678.1	2716.4	2720.2
37.5°	2865.4	2865.4	2846.3	2808.0	2811.9	2838.6	2788.9	2785.1	2834.8	2876.8	2876.8
40°	3071.7	3083.1	3064.0	3018.2	3002.9	3006.7	2968.5	2972.3	3029.6	3079.3	3079.3
42.5°	3327.6	3335.3	3304.7	3270.3	3251.2	3239.8	3201.6	3209.2	3278.0	3342.9	3342.9
45°	3637.1	3640.9	3610.3	3568.3	3545.4	3537.8	3499.6	3518.7	3595.1	3663.8	3660.0
47.5°	3984.8	3988.6	3958.0	3916.0	3900.7	3912.2	3874.0	3874.0	3942.7	4000.0	3992.4
50°	4378.3	4385.9	4351.5	4332.4	4321.0	4351.5	4305.7	4263.6	4309.5	4366.8	4359.2
52.5°	4813.8	4832.9	4810.0	4817.6	4859.6	4897.8	4821.4	4729.7	4752.7	4790.9	4779.4
55°	5341.0	5363.9	5371.6	5398.3	5509.1	5574.1	5448.0	5295.2	5283.7	5287.5	5268.4
57.5°	5933.2	5948.5	5998.1	6059.3	6288.5	6391.6	6193.0	5929.4	5845.3	5795.7	5784.2
60°	6529.2	6555.9	6678.2	6804.3	7155.7	7342.9	7037.3	6594.1	6414.6	6322.9	6303.8
62.5°	7129.0	7182.5	7381.1	7595.1	8107.0	8385.9	7916.0	7274.2	7014.4	6899.8	6869.2
65°	7824.3	7889.3	8130.0	8401.2	8970.5	9364.0	8794.7	7977.1	7698.2	7545.4	7507.2
67.5°	8638.1	8706.9	8901.7	9203.5	9742.2	10128.1	9623.8	8695.4	8332.4	8137.6	8107.0
70°	9306.7	9367.8	9577.9	9883.6	10284.7	10724.1	10242.7	9268.5	8939.9	8802.4	8783.3
72.5°	9203.5	9283.7	9593.2	10051.7	10624.7	11121.4	10513.9	9379.3	8905.5	8714.5	8653.4
75°	8038.3	8126.1	8492.9	9321.9	10368.8	11109.9	10120.4	8641.9	8084.1	7923.7	7893.1
77.5°	5321.9	5406.0	6024.9	7331.5	9054.5	10124.2	8932.3	7239.8	6342.0	5956.1	5933.2
80°	2150.9	2257.9	2850.1	4236.9	6418.4	7870.2	6624.7	4634.2	3125.1	2521.5	2399.3
82.5°	500.5	596.0	867.2	1562.6	3285.6	4901.7	3572.1	1730.7	1004.8	714.4	641.8
85°	210.1	213.9	370.6	508.1	1027.7	1979.0	1169.1	630.4	511.9	374.4	366.8
87.5°	80.2	84.1	179.6	213.9	328.6	374.4	397.3	324.7	301.8	187.2	179.6
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)