

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: P400235

Luminaire Tested: **ARCH-L-PA3-250-760-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400235  
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-PA3-250-760-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 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: 34597 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

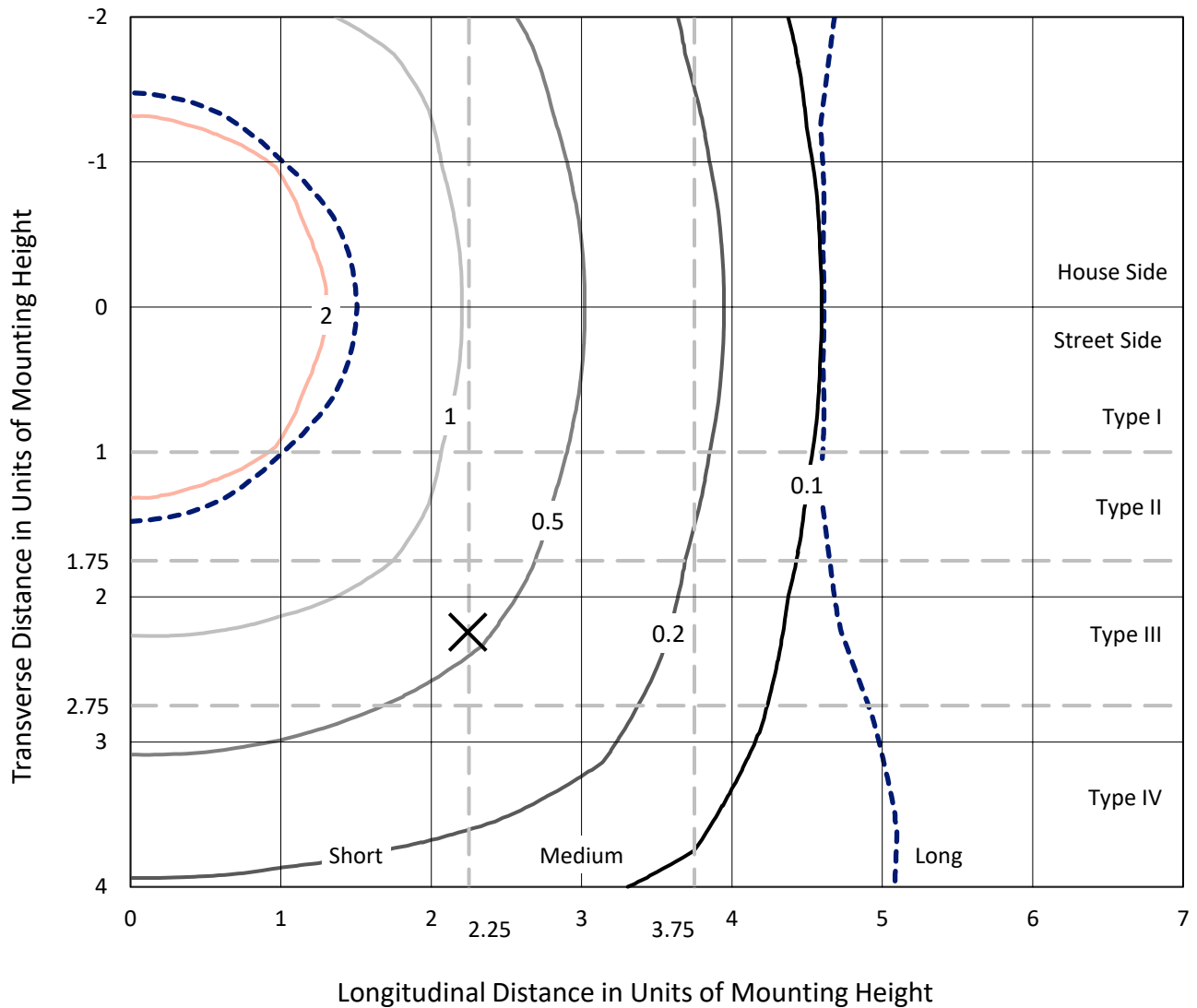
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

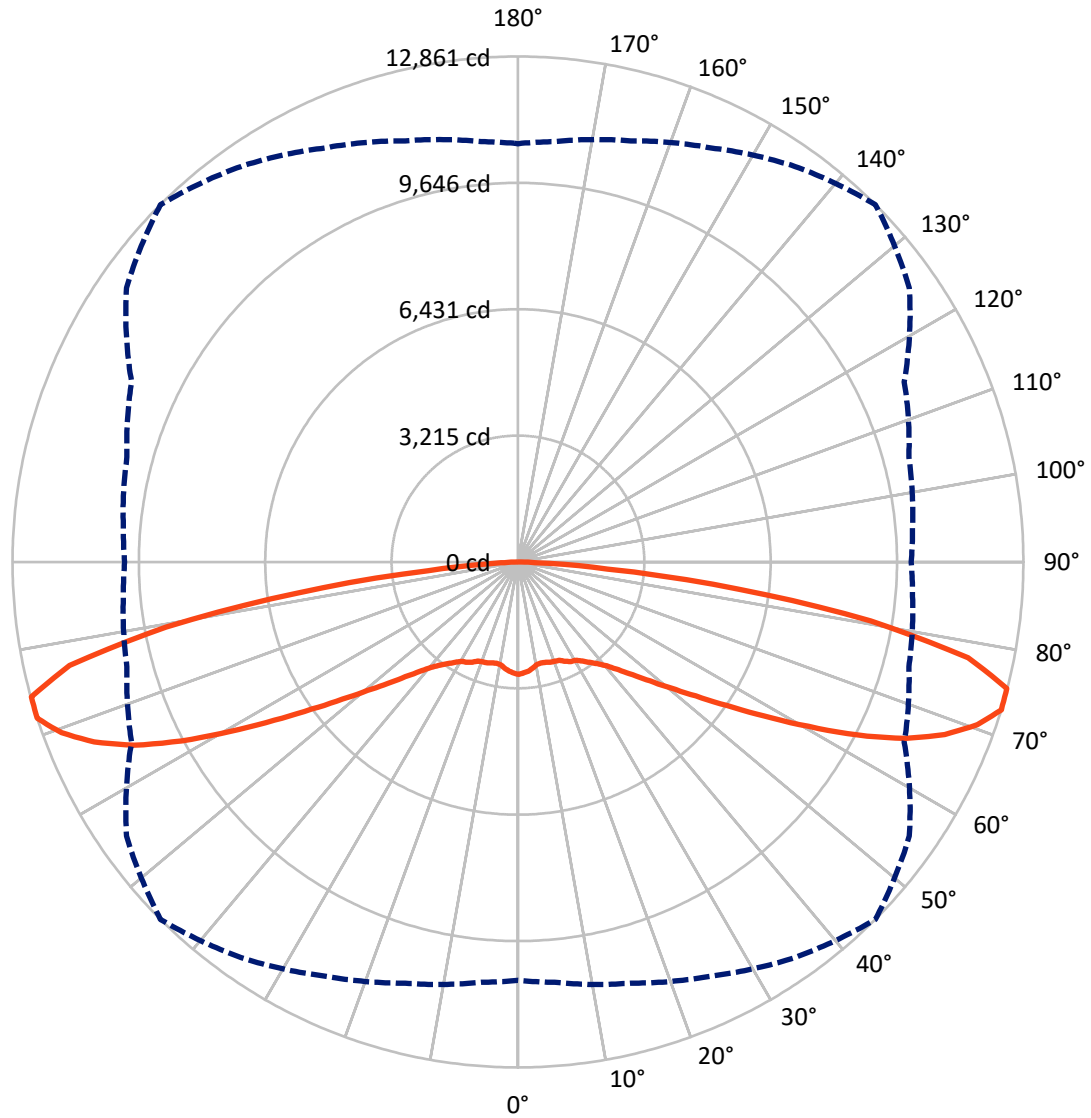
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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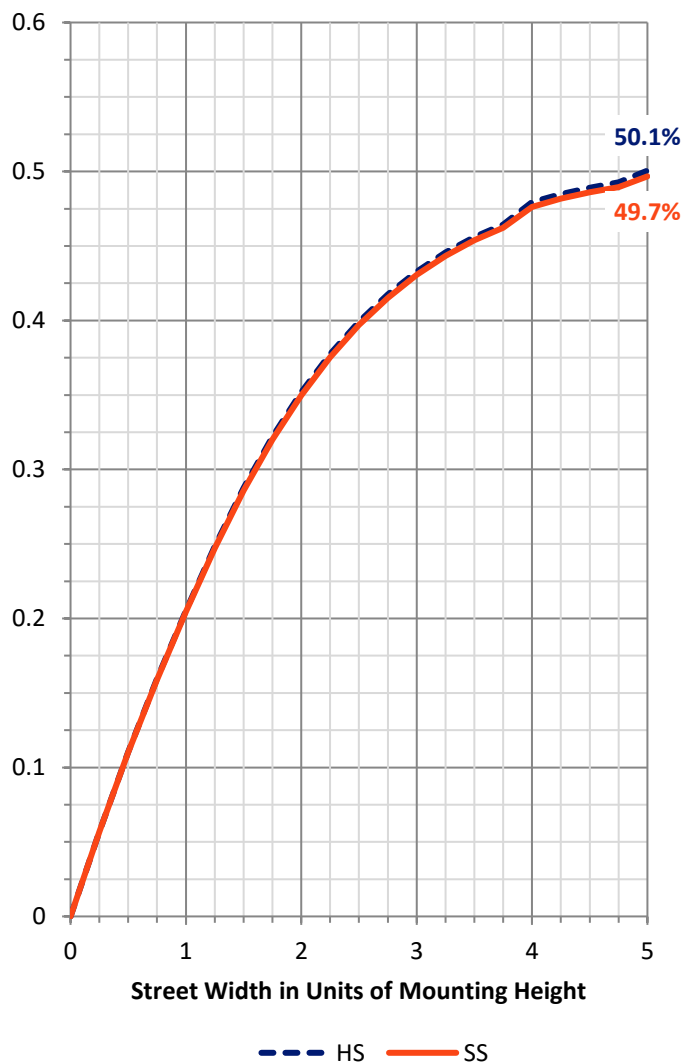
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17298.5	0.0	17298.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17298.5	0.0	17298.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34597.0	0.0	34597.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.5	0.8
10°-20°	762.0	2.2
20°-30°	1294.8	3.7
30°-40°	1974.9	5.7
40°-50°	3252.0	9.4
50°-60°	5678.9	16.4
60°-70°	9520.8	27.5
70°-80°	10189.2	29.5
80°-90°	1661.8	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°	34597.0	100.0
0°-180°	34597.0	100.0

**Coefficient of Utilization**

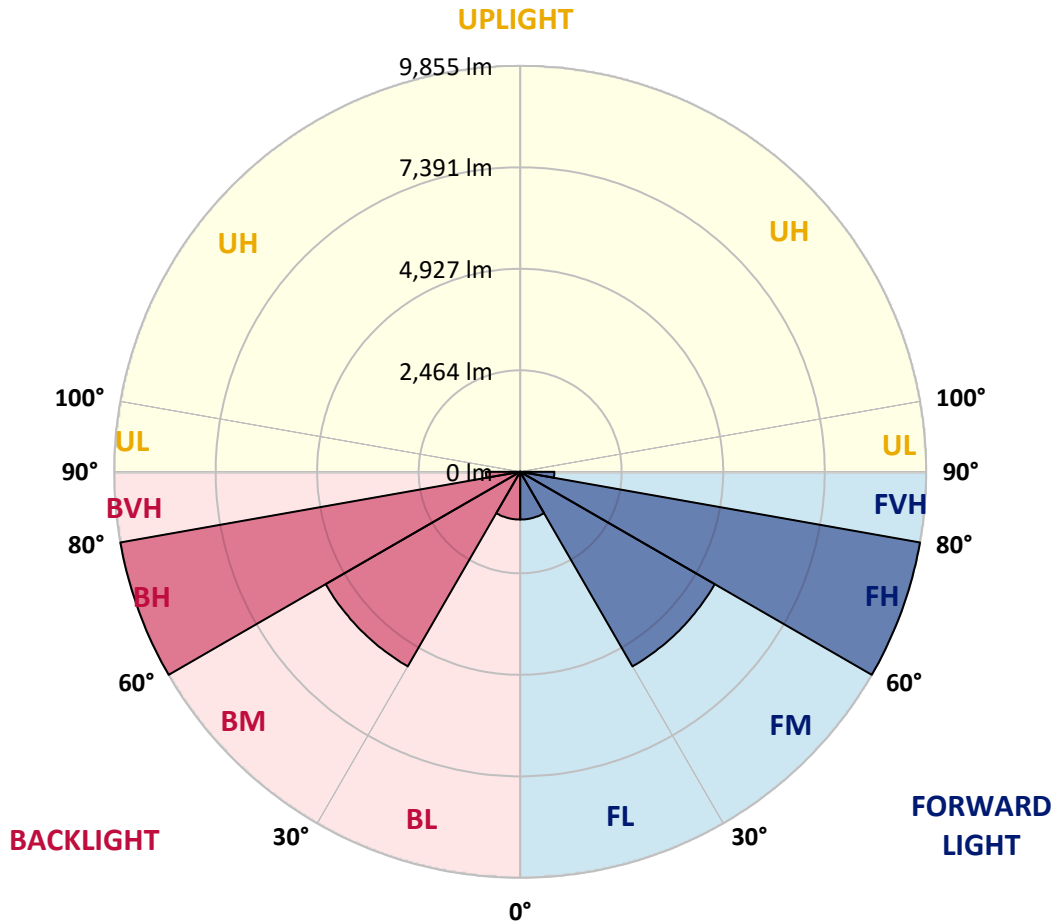


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1159.7	3.4			
FM (30°-60°)	5452.9	15.8			
FH (60°-80°)	9855.0	28.5			G4/12000
FVH (80°-90°)	830.9	2.4			G5
BL (0°-30°)	1159.7	3.4	B3/2500		
BM (30°-60°)	5452.9	15.8	B4/8500		
BH (60°-80°)	9855.0	28.5	B5		G4/12000
BVH (80°-90°)	830.9	2.4			G5
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9	2862.9
2.5°	2845.3	2845.3	2845.3	2840.8	2832.0	2827.6	2818.8	2823.2	2823.2	2823.2	2823.2
5°	2809.9	2809.9	2805.5	2801.1	2792.3	2787.8	2779.0	2787.8	2787.8	2787.8	2787.8
7.5°	2743.7	2748.1	2748.1	2743.7	2730.4	2726.0	2712.7	2717.1	2717.1	2721.6	2717.1
10°	2708.3	2708.3	2703.9	2681.8	2659.7	2650.9	2646.5	2659.7	2673.0	2686.2	2686.2
12.5°	2708.3	2708.3	2699.5	2664.1	2633.2	2633.2	2633.2	2650.9	2677.4	2703.9	2708.3
15°	2721.6	2721.6	2703.9	2664.1	2646.5	2650.9	2650.9	2668.5	2699.5	2734.8	2739.2
17.5°	2730.4	2730.4	2708.3	2668.5	2668.5	2681.8	2673.0	2686.2	2717.1	2756.9	2761.3
20°	2743.7	2743.7	2712.7	2681.8	2681.8	2695.1	2695.1	2708.3	2734.8	2774.6	2779.0
22.5°	2770.2	2765.7	2734.8	2708.3	2708.3	2717.1	2726.0	2743.7	2765.7	2801.1	2809.9
25°	2801.1	2801.1	2774.6	2770.2	2779.0	2801.1	2796.7	2792.3	2801.1	2832.0	2845.3
27.5°	2818.8	2818.8	2801.1	2814.3	2849.7	2867.4	2845.3	2827.6	2827.6	2858.5	2862.9
30°	2876.2	2871.8	2854.1	2862.9	2893.9	2902.7	2889.4	2867.4	2880.6	2916.0	2920.4
32.5°	2973.4	2973.4	2946.9	2946.9	2969.0	3004.3	2960.1	2946.9	2964.6	3004.3	3008.7
35°	3123.6	3123.6	3088.3	3070.6	3088.3	3136.9	3070.6	3066.2	3097.1	3141.3	3145.7
37.5°	3313.6	3313.6	3291.5	3247.3	3251.7	3282.7	3225.2	3220.8	3278.2	3326.8	3326.8
40°	3552.2	3565.4	3543.3	3490.3	3472.6	3477.1	3432.9	3437.3	3503.6	3561.0	3561.0
42.5°	3848.2	3857.0	3821.7	3781.9	3759.8	3746.6	3702.4	3711.2	3790.7	3865.9	3865.9
45°	4206.0	4210.5	4175.1	4126.5	4100.0	4091.2	4047.0	4069.1	4157.4	4237.0	4232.6
47.5°	4608.1	4612.5	4577.2	4528.6	4510.9	4524.2	4480.0	4480.0	4559.5	4625.8	4616.9
50°	5063.2	5072.0	5032.2	5010.1	4996.9	5032.2	4979.2	4930.6	4983.6	5049.9	5041.1
52.5°	5566.8	5588.9	5562.4	5571.2	5619.8	5664.0	5575.7	5469.6	5496.1	5540.3	5527.1
55°	6176.5	6203.0	6211.9	6242.8	6370.9	6446.0	6300.2	6123.5	6110.3	6114.7	6092.6
57.5°	6861.3	6879.0	6936.4	7007.1	7272.2	7391.5	7161.8	6856.9	6759.7	6702.3	6689.0
60°	7550.6	7581.5	7722.9	7868.7	8275.1	8491.6	8138.2	7625.7	7418.0	7312.0	7289.9
62.5°	8244.2	8306.1	8535.8	8783.2	9375.2	9697.8	9154.3	8412.1	8111.7	7979.1	7943.8
65°	9048.3	9123.4	9401.8	9715.4	10373.7	10828.8	10170.5	9225.0	8902.5	8725.8	8681.6
67.5°	9989.4	10068.9	10294.2	10643.2	11266.2	11712.4	11129.2	10055.6	9635.9	9410.6	9375.2
70°	10762.5	10833.2	11076.2	11429.7	11893.6	12401.7	11845.0	10718.4	10338.4	10179.3	10157.3
72.5°	10643.2	10736.0	11093.9	11624.1	12286.8	12861.1	12158.7	10846.5	10298.6	10077.7	10007.0
75°	9295.7	9397.3	9821.5	10780.2	11990.8	12847.9	11703.6	9993.8	9348.7	9163.2	9127.8
77.5°	6154.4	6251.6	6967.4	8478.4	10470.9	11708.0	10329.6	8372.3	7334.1	6887.8	6861.3
80°	2487.4	2611.1	3295.9	4899.7	7422.4	9101.3	7661.0	5359.2	3614.0	2916.0	2774.6
82.5°	578.8	689.2	1002.9	1807.0	3799.6	5668.4	4130.9	2001.4	1162.0	826.2	742.2
85°	243.0	247.4	428.6	587.6	1188.5	2288.6	1351.9	729.0	592.0	433.0	424.1
87.5°	92.8	97.2	207.7	247.4	380.0	433.0	459.5	375.5	349.0	216.5	207.7
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)