

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: P400217

Luminaire Tested: **ARCH-L-PA3-250-740-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400217
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-PA3-250-740-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 34598 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

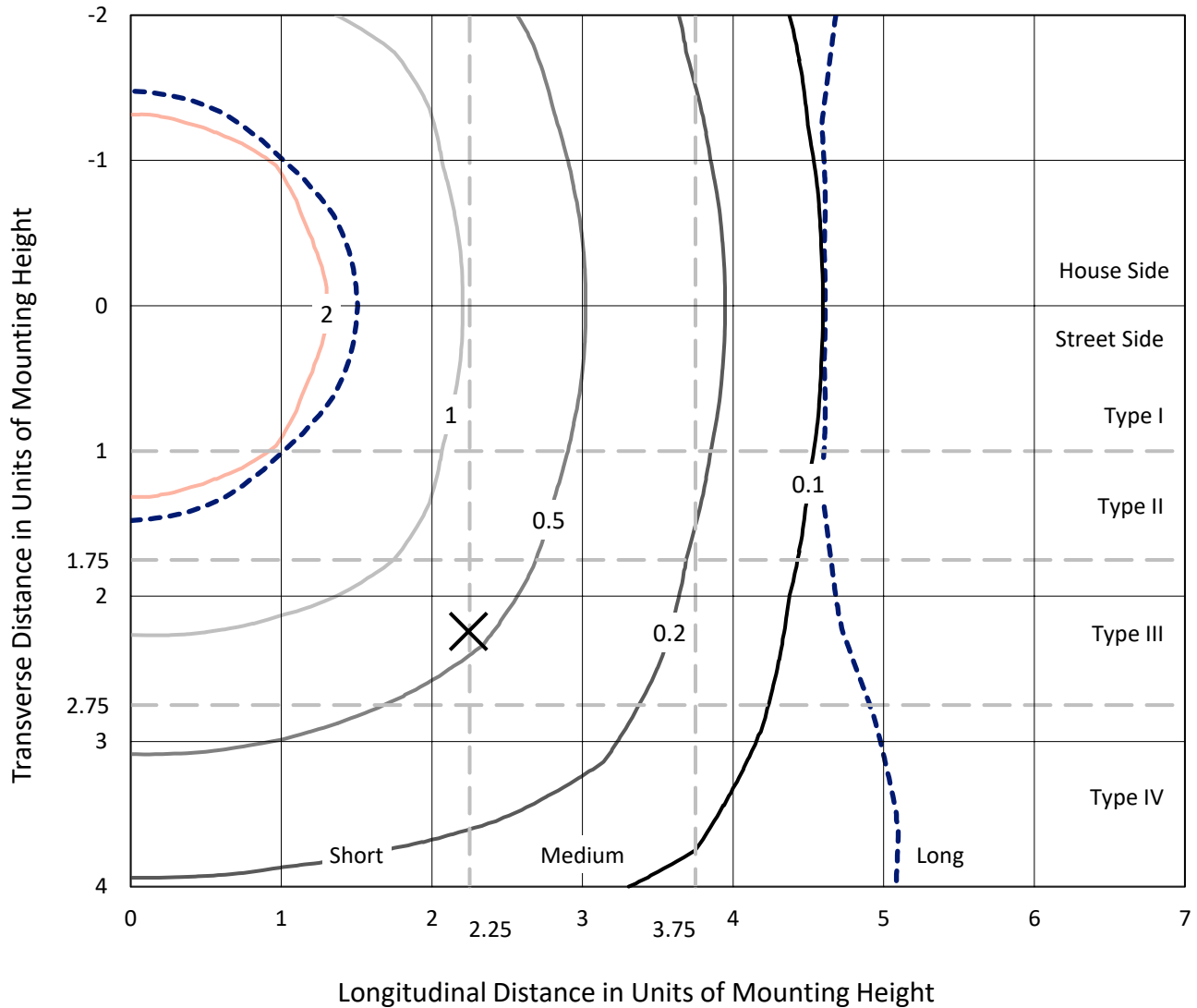
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

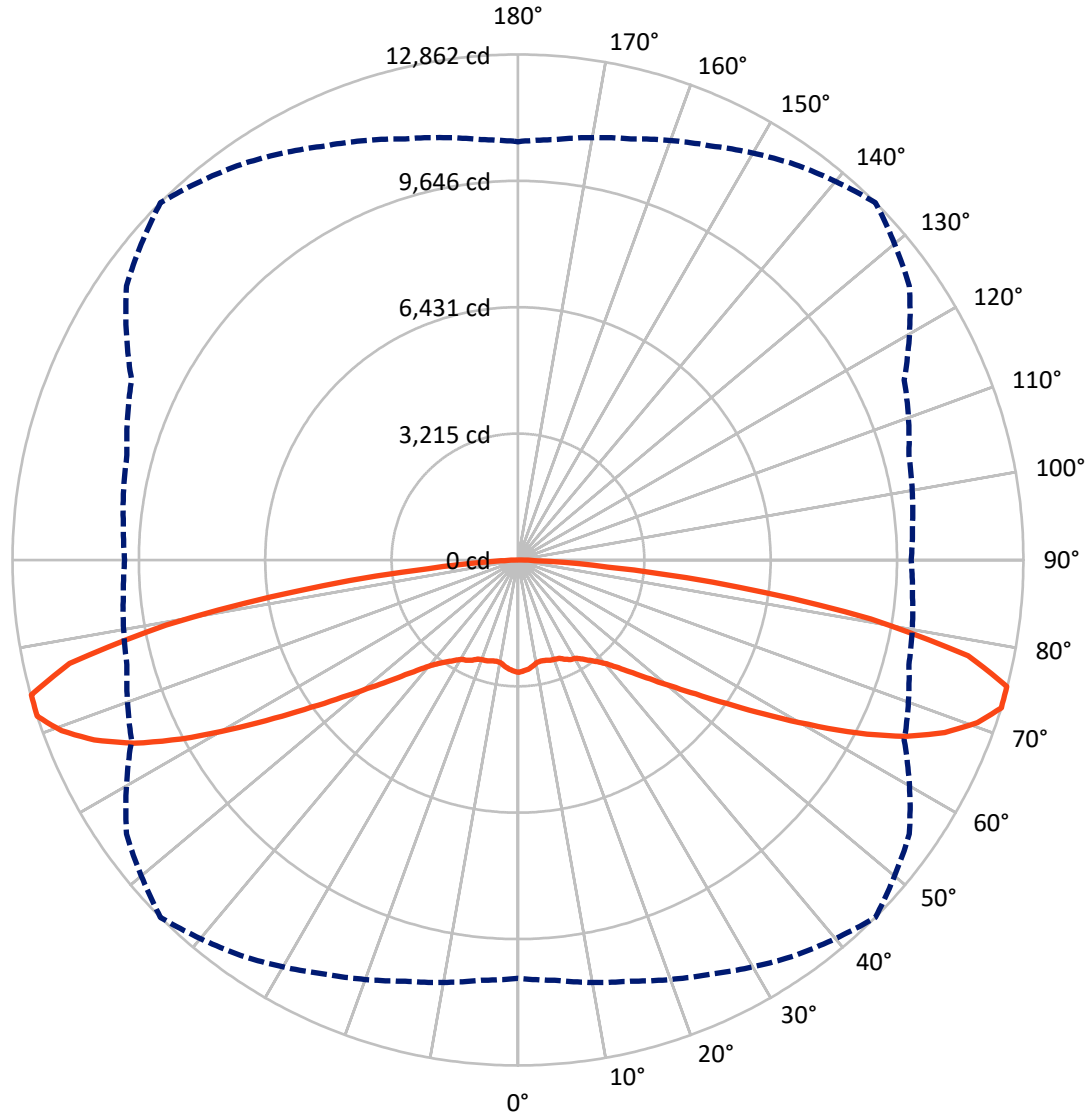
✕ Max cd
 - - - 1/2 Max cd



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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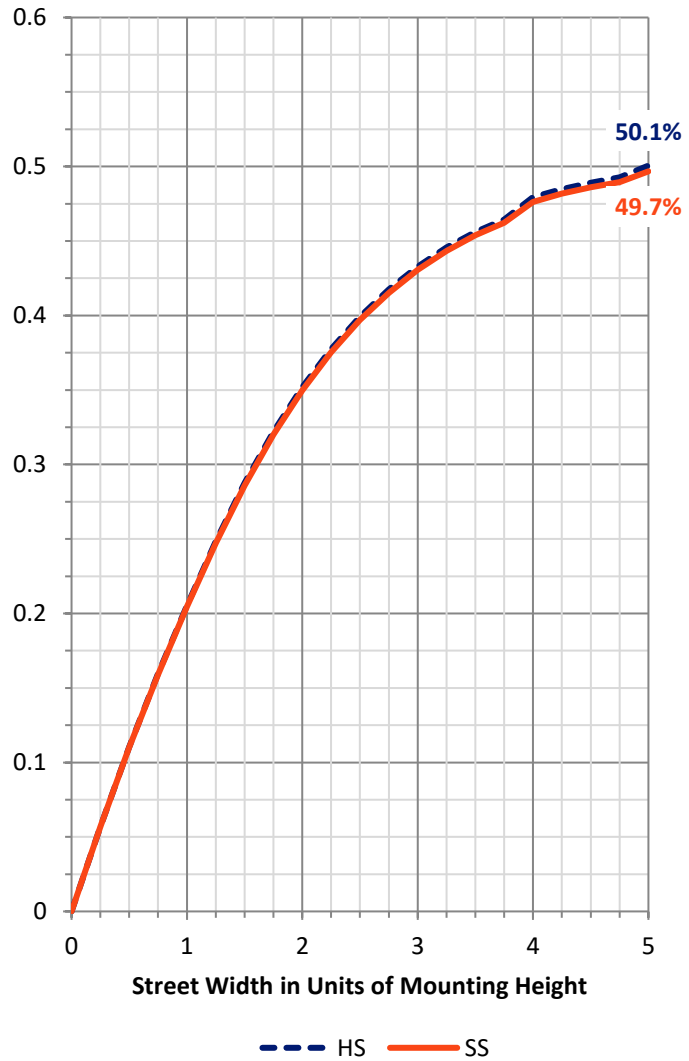
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17299.0	0.0	17299.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17299.0	0.0	17299.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34598.0	0.0	34598.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	0.8
10°-20°	762.1	2.2
20°-30°	1294.9	3.7
30°-40°	1975.0	5.7
40°-50°	3252.1	9.4
50°-60°	5679.1	16.4
60°-70°	9521.1	27.5
70°-80°	10189.5	29.5
80°-90°	1661.9	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°	34598.0	100.0
0°-180°	34598.0	100.0



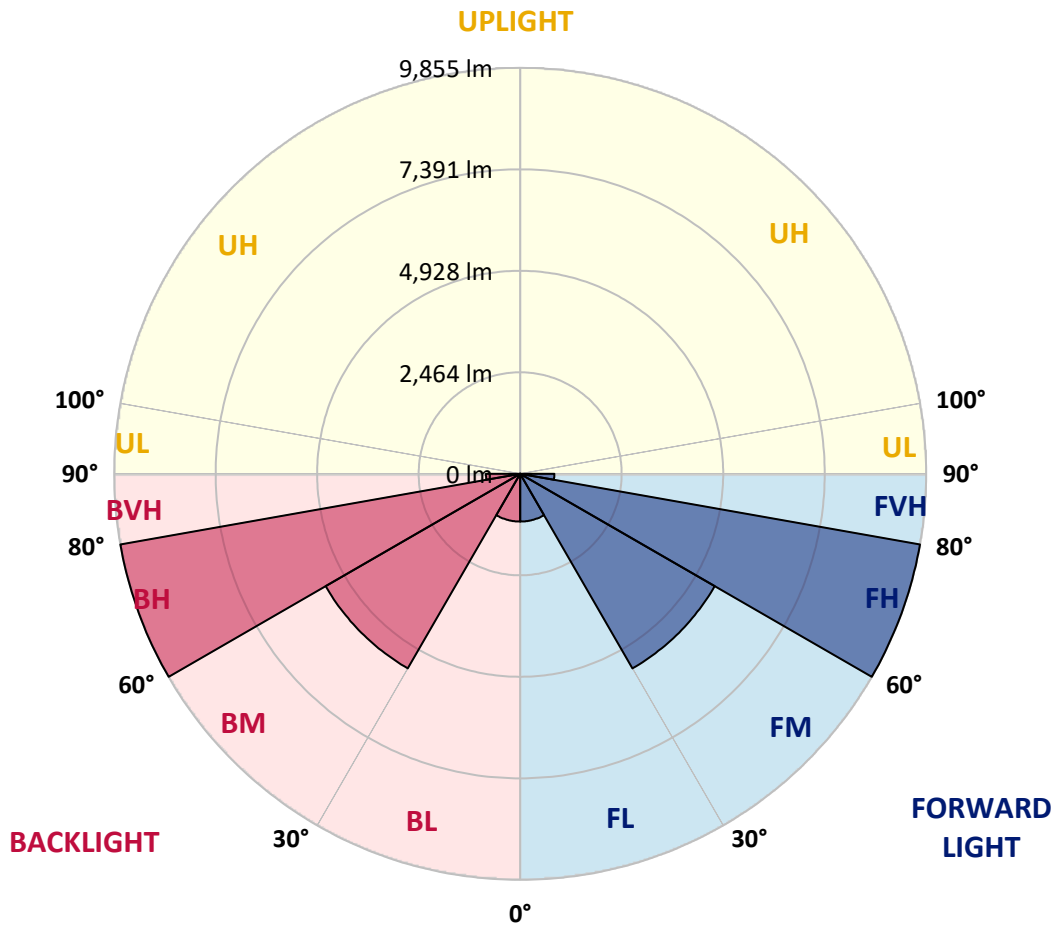
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1159.7	3.4			
FM (30°-60°)	5453.1	15.8			
FH (60°-80°)	9855.3	28.5			G4/12000
FVH (80°-90°)	830.9	2.4			G5
BL (0°-30°)	1159.7	3.4	B3/2500		
BM (30°-60°)	5453.1	15.8	B4/8500		
BH (60°-80°)	9855.3	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°	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0	2863.0
2.5°	2845.3	2845.3	2845.3	2840.9	2832.1	2827.7	2818.8	2823.3	2823.3	2823.3	2823.3
5°	2810.0	2810.0	2805.6	2801.2	2792.3	2787.9	2779.1	2787.9	2787.9	2787.9	2787.9
7.5°	2743.7	2748.1	2748.1	2743.7	2730.5	2726.1	2712.8	2717.2	2717.2	2721.6	2717.2
10°	2708.4	2708.4	2704.0	2681.9	2659.8	2650.9	2646.5	2659.8	2673.0	2686.3	2686.3
12.5°	2708.4	2708.4	2699.5	2664.2	2633.3	2633.3	2633.3	2650.9	2677.5	2704.0	2708.4
15°	2721.6	2721.6	2704.0	2664.2	2646.5	2650.9	2650.9	2668.6	2699.5	2734.9	2739.3
17.5°	2730.5	2730.5	2708.4	2668.6	2668.6	2681.9	2673.0	2686.3	2717.2	2757.0	2761.4
20°	2743.7	2743.7	2712.8	2681.9	2681.9	2695.1	2695.1	2708.4	2734.9	2774.7	2779.1
22.5°	2770.2	2765.8	2734.9	2708.4	2708.4	2717.2	2726.1	2743.7	2765.8	2801.2	2810.0
25°	2801.2	2801.2	2774.7	2770.2	2779.1	2801.2	2796.7	2792.3	2801.2	2832.1	2845.3
27.5°	2818.8	2818.8	2801.2	2814.4	2849.8	2867.4	2845.3	2827.7	2827.7	2858.6	2863.0
30°	2876.3	2871.9	2854.2	2863.0	2894.0	2902.8	2889.5	2867.4	2880.7	2916.0	2920.5
32.5°	2973.5	2973.5	2947.0	2947.0	2969.1	3004.4	2960.2	2947.0	2964.6	3004.4	3008.8
35°	3123.7	3123.7	3088.4	3070.7	3088.4	3137.0	3070.7	3066.3	3097.2	3141.4	3145.8
37.5°	3313.7	3313.7	3291.6	3247.4	3251.8	3282.8	3225.3	3220.9	3278.3	3326.9	3326.9
40°	3552.3	3565.5	3543.4	3490.4	3472.7	3477.2	3433.0	3437.4	3503.7	3561.1	3561.1
42.5°	3848.3	3857.1	3821.8	3782.0	3759.9	3746.7	3702.5	3711.3	3790.9	3866.0	3866.0
45°	4206.2	4210.6	4175.2	4126.6	4100.1	4091.3	4047.1	4069.2	4157.6	4237.1	4232.7
47.5°	4608.2	4612.6	4577.3	4528.7	4511.0	4524.3	4480.1	4480.1	4559.6	4625.9	4617.1
50°	5063.3	5072.1	5032.4	5010.3	4997.0	5032.4	4979.4	4930.8	4983.8	5050.1	5041.2
52.5°	5567.0	5589.1	5562.6	5571.4	5620.0	5664.2	5575.8	5469.8	5496.3	5540.5	5527.2
55°	6176.7	6203.2	6212.1	6243.0	6371.1	6446.2	6300.4	6123.7	6110.4	6114.9	6092.8
57.5°	6861.5	6879.2	6936.6	7007.3	7272.4	7391.7	7162.0	6857.1	6759.9	6702.5	6689.2
60°	7550.8	7581.7	7723.1	7868.9	8275.4	8491.9	8138.4	7625.9	7418.2	7312.2	7290.1
62.5°	8244.4	8306.3	8536.0	8783.5	9375.5	9698.0	9154.6	8412.3	8111.9	7979.4	7944.0
65°	9048.6	9123.7	9402.0	9715.7	10374.0	10829.1	10170.8	9225.3	8902.8	8726.0	8681.9
67.5°	9989.7	10069.2	10294.5	10643.6	11266.5	11712.8	11129.6	10055.9	9636.2	9410.9	9375.5
70°	10762.8	10833.5	11076.5	11430.0	11893.9	12402.0	11845.3	10718.7	10338.7	10179.6	10157.5
72.5°	10643.6	10736.3	11094.2	11624.4	12287.1	12861.5	12159.0	10846.8	10298.9	10078.0	10007.3
75°	9296.0	9397.6	9821.8	10780.5	11991.1	12848.3	11703.9	9994.1	9349.0	9163.4	9128.1
77.5°	6154.6	6251.8	6967.6	8478.6	10471.2	11708.4	10329.9	8372.6	7334.3	6888.0	6861.5
80°	2487.5	2611.2	3296.0	4899.8	7422.7	9101.6	7661.2	5359.3	3614.1	2916.0	2774.7
82.5°	578.8	689.2	1002.9	1807.1	3799.7	5668.6	4131.1	2001.5	1162.0	826.2	742.3
85°	243.0	247.4	428.6	587.6	1188.5	2288.7	1352.0	729.0	592.0	433.0	424.2
87.5°	92.8	97.2	207.7	247.4	380.0	433.0	459.5	375.6	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)