

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: P399929

Luminaire Tested: **ARCH-L-PA3-210-740-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399929
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-PA3-210-740-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30834 lumens
Efficiency: N/A
Efficacy: 146.1 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

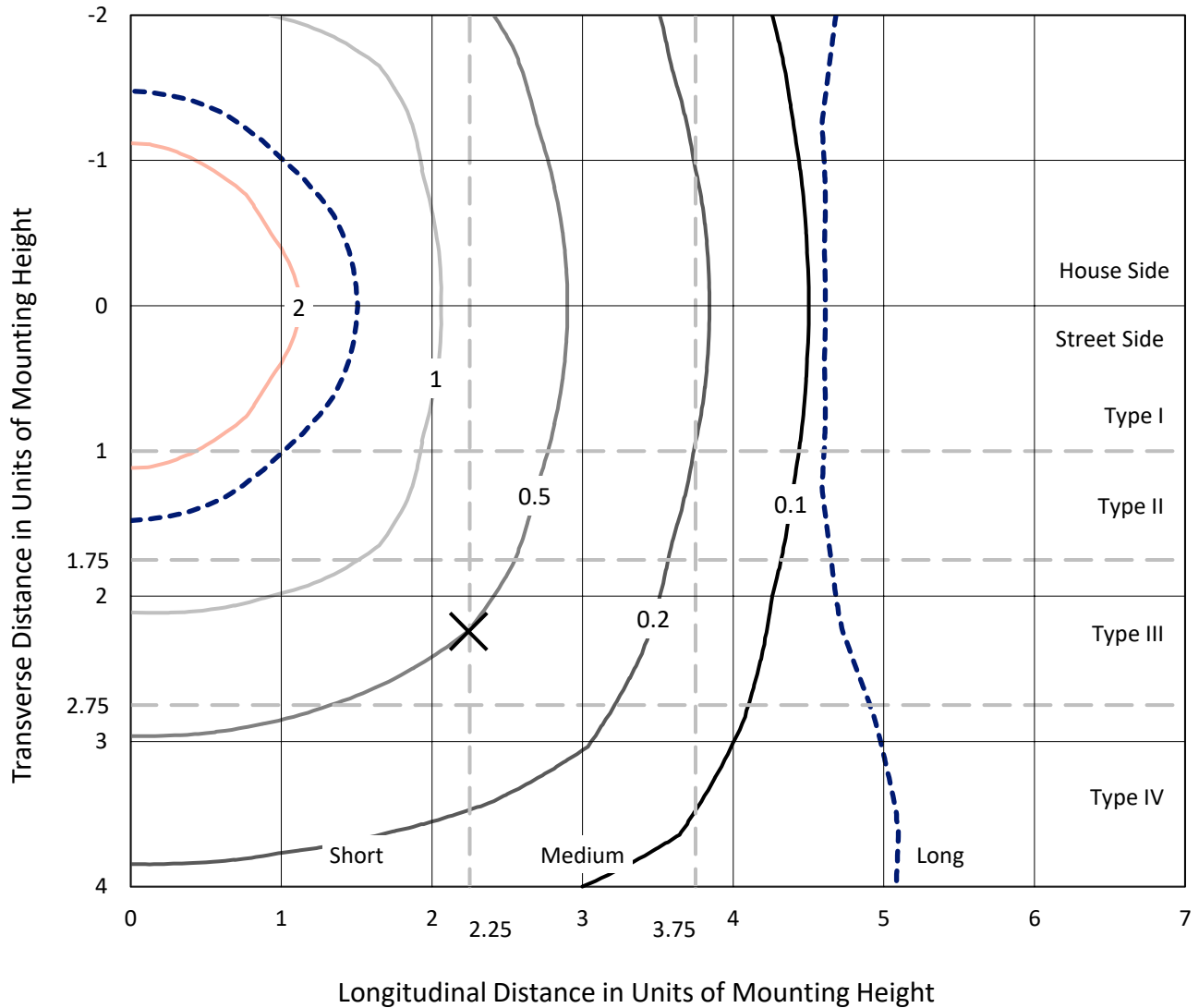
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

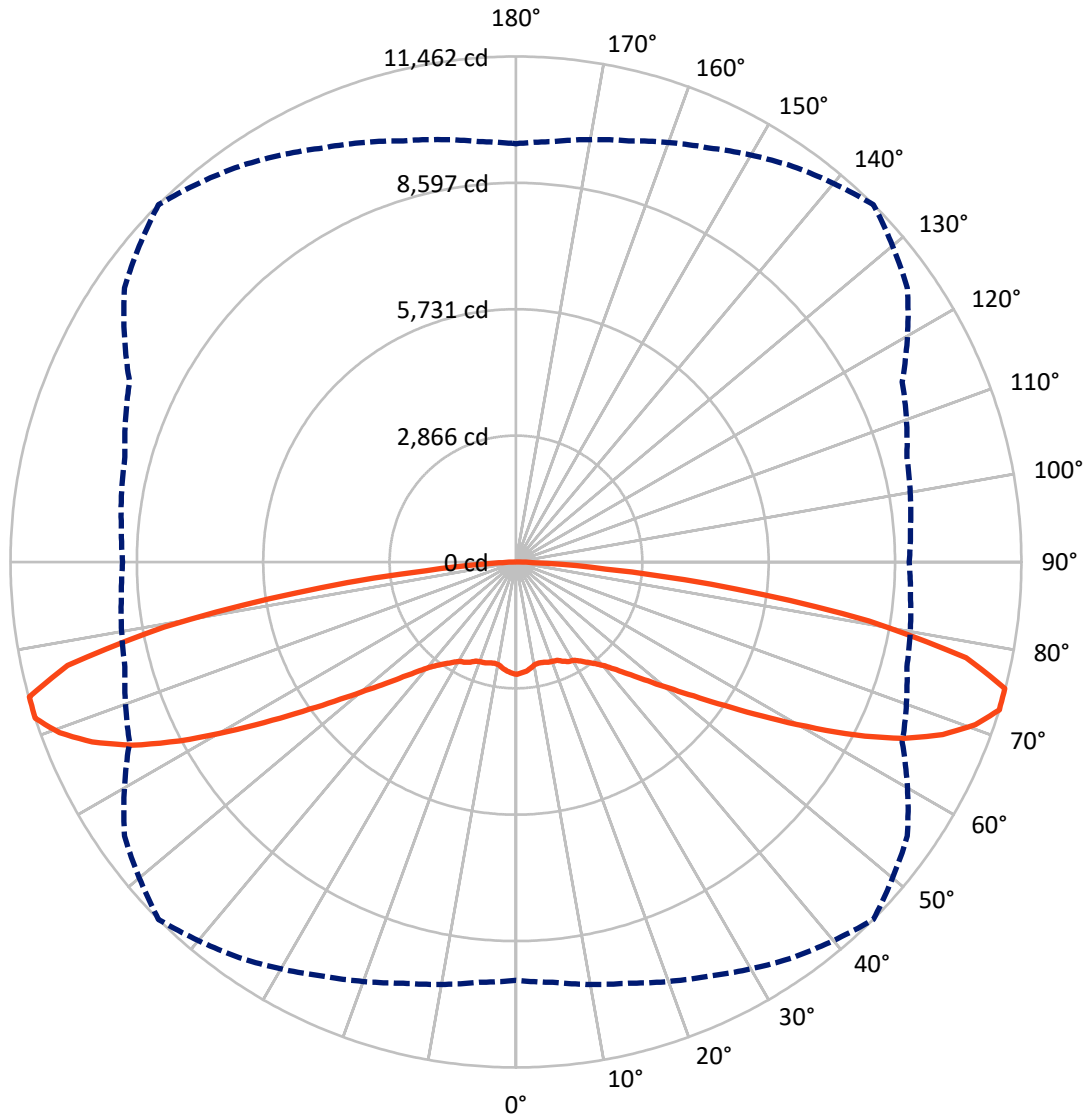
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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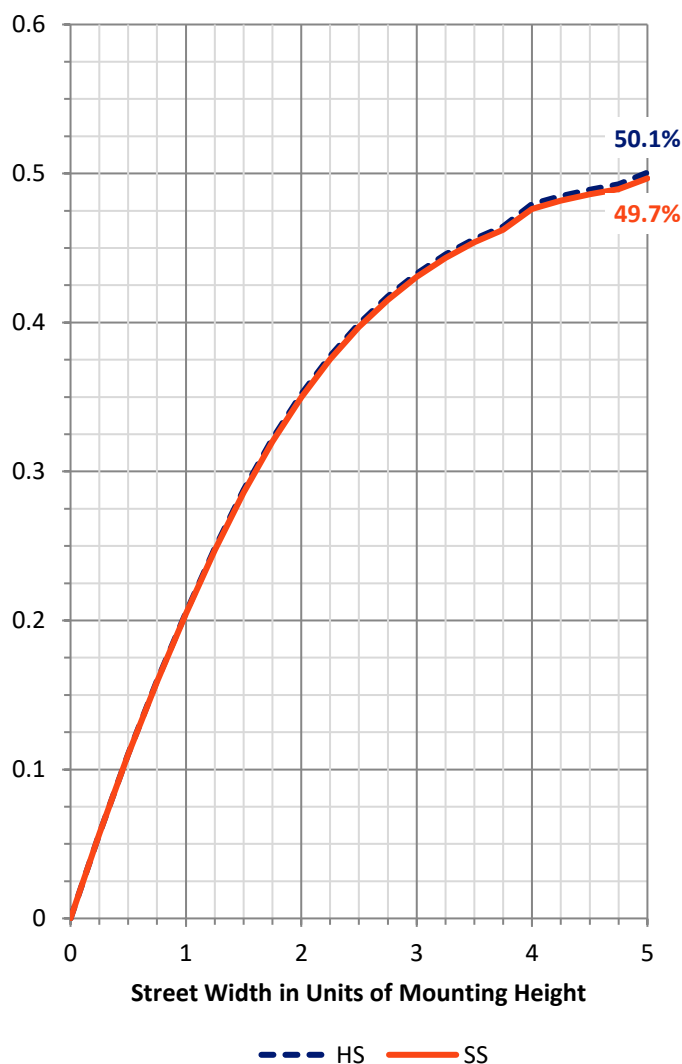
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15417.0	0.0	15417.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15417.0	0.0	15417.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30834.0	0.0	30834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	0.8
10°-20°	679.2	2.2
20°-30°	1154.0	3.7
30°-40°	1760.1	5.7
40°-50°	2898.3	9.4
50°-60°	5061.2	16.4
60°-70°	8485.2	27.5
70°-80°	9080.9	29.5
80°-90°	1481.1	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°	30834.0	100.0
0°-180°	30834.0	100.0

Coefficient of Utilization

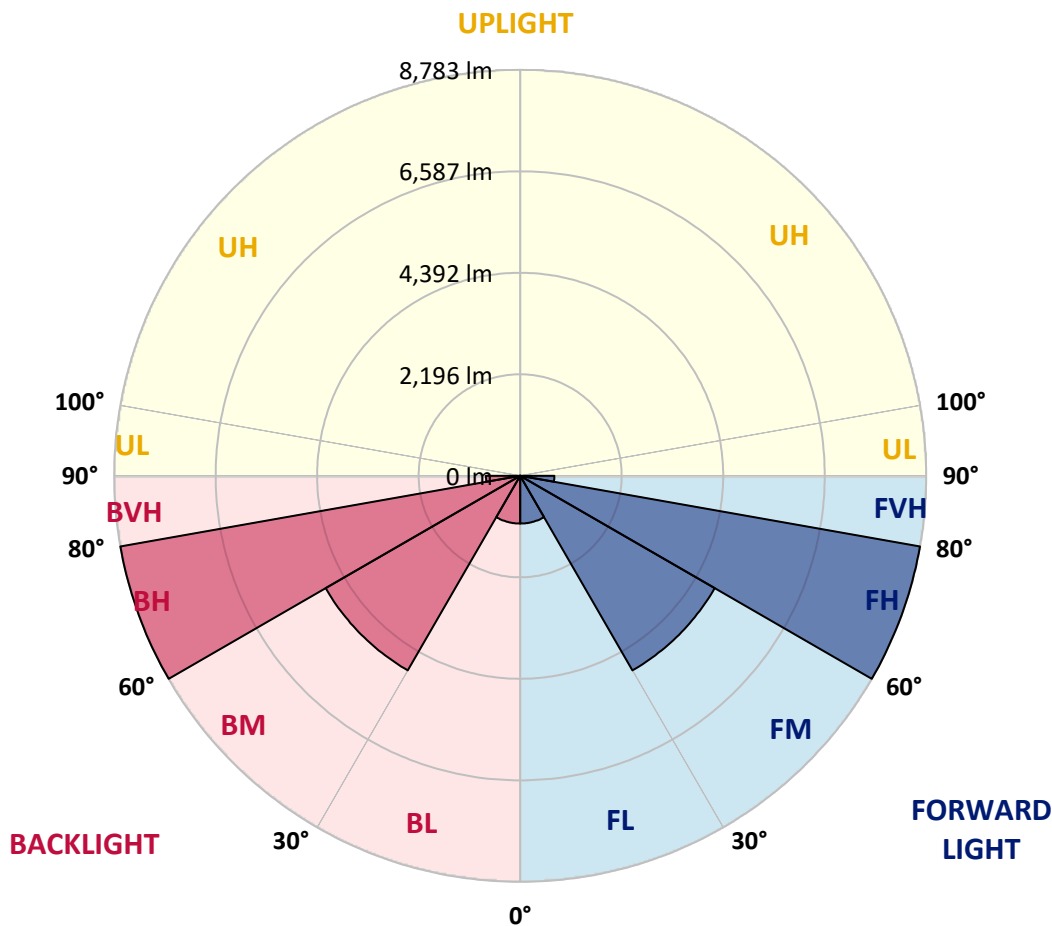


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1033.5	3.4			
FM (30°-60°)	4859.8	15.8			
FH (60°-80°)	8783.1	28.5			G4/12000
FVH (80°-90°)	740.5	2.4			G4/750
BL (0°-30°)	1033.5	3.4	B3/2500		
BM (30°-60°)	4859.8	15.8	B3/5000		
BH (60°-80°)	8783.1	28.5	B5		G4/12000
BVH (80°-90°)	740.5	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°	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5	2551.5
2.5°	2535.8	2535.8	2535.8	2531.9	2524.0	2520.0	2512.2	2516.1	2516.1	2516.1	2516.1
5°	2504.3	2504.3	2500.4	2496.4	2488.5	2484.6	2476.7	2484.6	2484.6	2484.6	2484.6
7.5°	2445.2	2449.2	2449.2	2445.2	2433.4	2429.5	2417.7	2421.6	2421.6	2425.5	2421.6
10°	2413.7	2413.7	2409.8	2390.1	2370.4	2362.5	2358.6	2370.4	2382.2	2394.0	2394.0
12.5°	2413.7	2413.7	2405.9	2374.4	2346.8	2346.8	2346.8	2362.5	2386.2	2409.8	2413.7
15°	2425.5	2425.5	2409.8	2374.4	2358.6	2362.5	2362.5	2378.3	2405.9	2437.4	2441.3
17.5°	2433.4	2433.4	2413.7	2378.3	2378.3	2390.1	2382.2	2394.0	2421.6	2457.0	2461.0
20°	2445.2	2445.2	2417.7	2390.1	2390.1	2401.9	2401.9	2413.7	2437.4	2472.8	2476.7
22.5°	2468.9	2464.9	2437.4	2413.7	2413.7	2421.6	2429.5	2445.2	2464.9	2496.4	2504.3
25°	2496.4	2496.4	2472.8	2468.9	2476.7	2496.4	2492.5	2488.5	2496.4	2524.0	2535.8
27.5°	2512.2	2512.2	2496.4	2508.2	2539.7	2555.5	2535.8	2520.0	2520.0	2547.6	2551.5
30°	2563.4	2559.4	2543.7	2551.5	2579.1	2587.0	2575.2	2555.5	2567.3	2598.8	2602.7
32.5°	2650.0	2650.0	2626.4	2626.4	2646.0	2677.6	2638.2	2626.4	2642.1	2677.6	2681.5
35°	2783.9	2783.9	2752.4	2736.6	2752.4	2795.7	2736.6	2732.7	2760.2	2799.6	2803.6
37.5°	2953.2	2953.2	2933.5	2894.1	2898.1	2925.6	2874.4	2870.5	2921.7	2965.0	2965.0
40°	3165.8	3177.6	3157.9	3110.7	3094.9	3098.9	3059.5	3063.4	3122.5	3173.7	3173.7
42.5°	3429.6	3437.5	3406.0	3370.6	3350.9	3339.1	3299.7	3307.6	3378.4	3445.4	3445.4
45°	3748.6	3752.5	3721.0	3677.7	3654.1	3646.2	3606.8	3626.5	3705.3	3776.1	3772.2
47.5°	4106.9	4110.8	4079.3	4036.0	4020.3	4032.1	3992.7	3992.7	4063.6	4122.6	4114.8
50°	4512.5	4520.3	4484.9	4465.2	4453.4	4484.9	4437.6	4394.3	4441.6	4500.6	4492.8
52.5°	4961.3	4981.0	4957.4	4965.3	5008.6	5048.0	4969.2	4874.7	4898.3	4937.7	4925.9
55°	5504.7	5528.4	5536.2	5563.8	5678.0	5744.9	5615.0	5457.5	5445.7	5449.6	5429.9
57.5°	6115.1	6130.8	6182.0	6245.0	6481.2	6587.6	6382.8	6111.1	6024.5	5973.3	5961.5
60°	6729.3	6756.9	6882.9	7012.8	7375.1	7568.0	7253.0	6796.3	6611.2	6516.7	6497.0
62.5°	7347.5	7402.6	7607.4	7827.9	8355.5	8643.0	8158.7	7497.1	7229.4	7111.3	7079.8
65°	8064.2	8131.1	8379.2	8658.7	9245.4	9651.0	9064.3	8221.7	7934.2	7776.7	7737.3
67.5°	8902.9	8973.7	9174.5	9485.6	10040.8	10438.5	9918.7	8961.9	8587.8	8387.0	8355.5
70°	9591.9	9654.9	9871.5	10186.5	10599.9	11052.8	10556.6	9552.6	9213.9	9072.2	9052.5
72.5°	9485.6	9568.3	9887.2	10359.8	10950.4	11462.3	10836.2	9666.7	9178.5	8981.6	8918.6
75°	8284.7	8375.2	8753.2	9607.7	10686.6	11450.5	10430.6	8906.8	8331.9	8166.5	8135.0
77.5°	5485.0	5571.7	6209.6	7556.2	9332.0	10434.6	9206.0	7461.7	6536.4	6138.7	6115.1
80°	2216.9	2327.1	2937.4	4366.8	6615.1	8111.4	6827.8	4776.3	3220.9	2598.8	2472.8
82.5°	515.8	614.3	893.8	1610.5	3386.3	5051.9	3681.6	1783.7	1035.6	736.3	661.5
85°	216.6	220.5	381.9	523.7	1059.2	2039.7	1204.9	649.7	527.6	385.9	378.0
87.5°	82.7	86.6	185.1	220.5	338.6	385.9	409.5	334.7	311.1	192.9	185.1
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)