

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: P400424

Luminaire Tested: **ARCH-L-PA3-280-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400424
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-PA3-280-730-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33630 lumens
Efficiency: N/A
Efficacy: 120.5 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

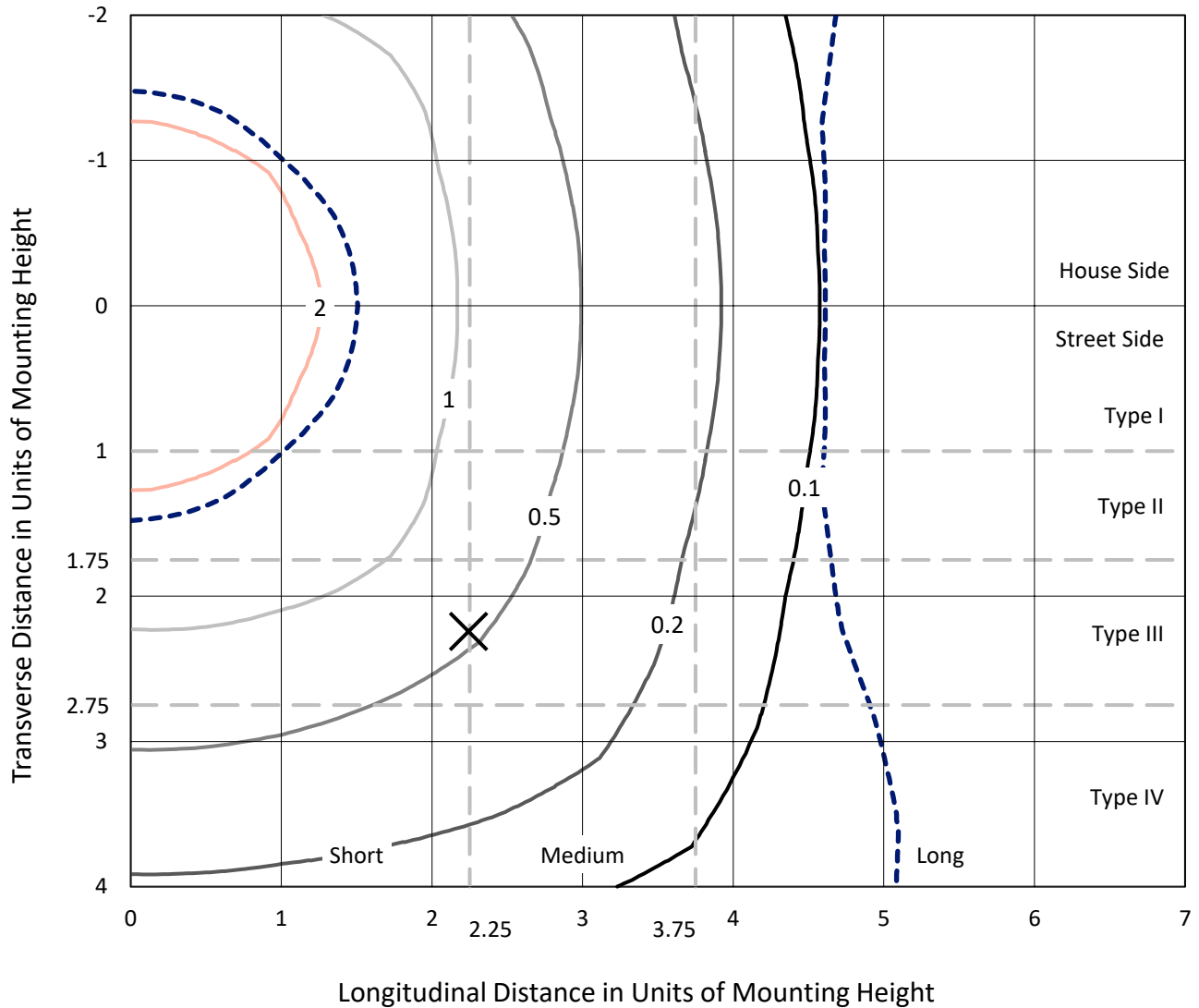
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

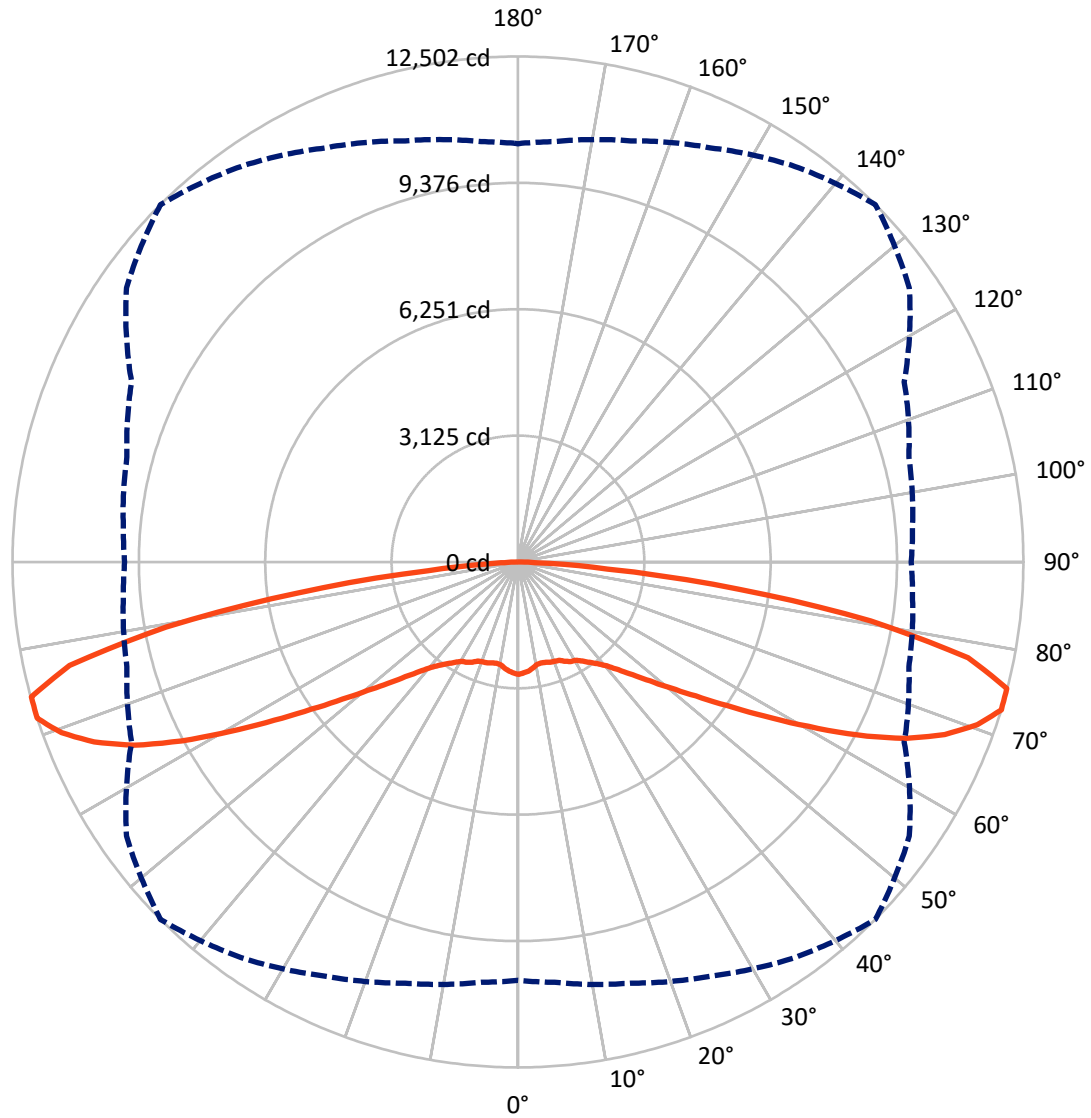
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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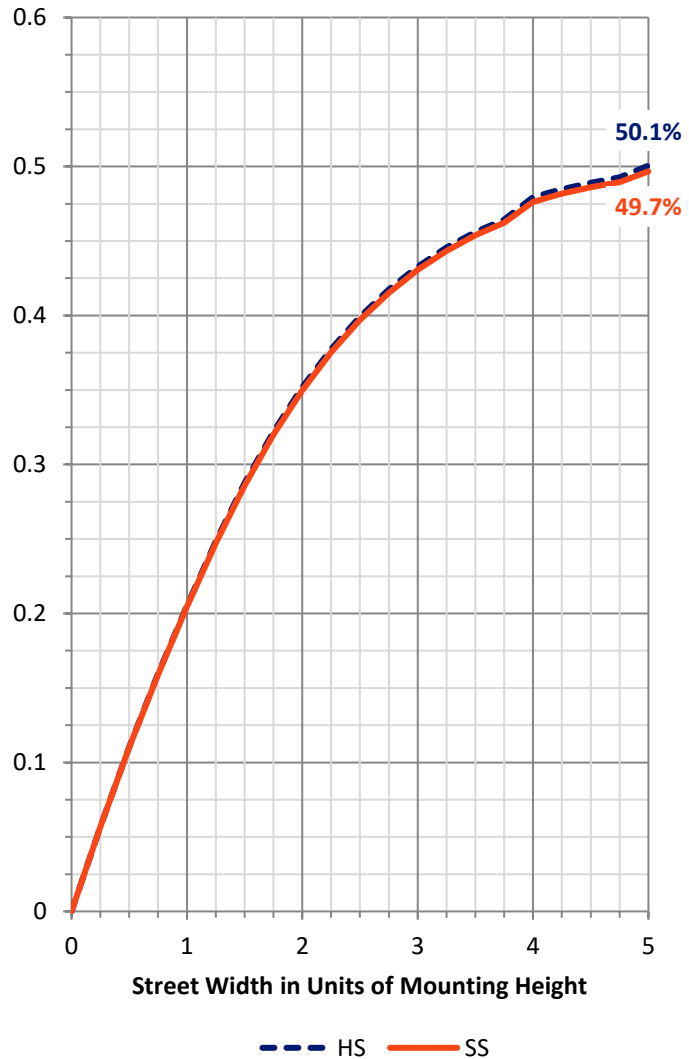
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16815.0	0.0	16815.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16815.0	0.0	16815.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33630.0	0.0	33630.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.2	0.8
10°-20°	740.7	2.2
20°-30°	1258.6	3.7
30°-40°	1919.7	5.7
40°-50°	3161.1	9.4
50°-60°	5520.2	16.4
60°-70°	9254.7	27.5
70°-80°	9904.4	29.5
80°-90°	1615.4	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°	33630.0	100.0
0°-180°	33630.0	100.0



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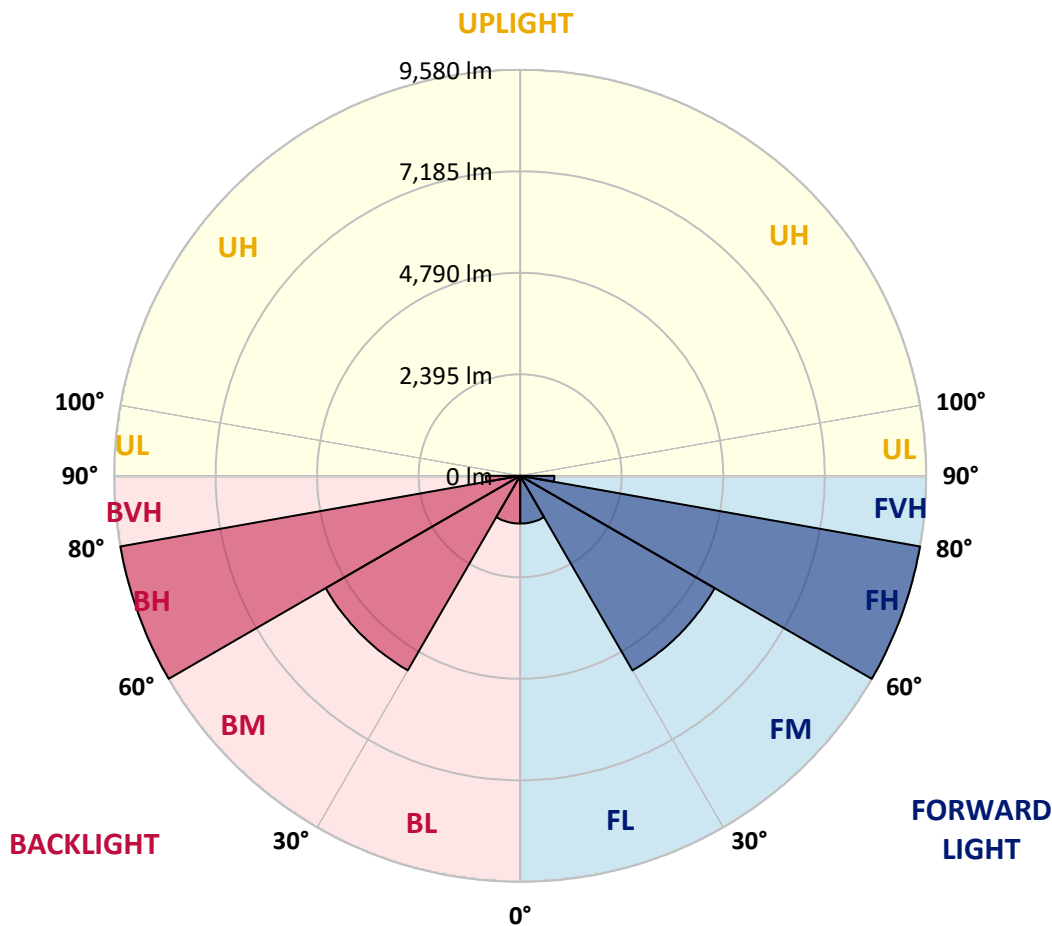
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.3	3.4			
FM (30°-60°)	5300.5	15.8			
FH (60°-80°)	9579.5	28.5			G4/12000
FVH (80°-90°)	807.7	2.4			G5
BL (0°-30°)	1127.3	3.4	B3/2500		
BM (30°-60°)	5300.5	15.8	B4/8500		
BH (60°-80°)	9579.5	28.5	B5		G4/12000
BVH (80°-90°)	807.7	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°	2782.9	2782.9	2782.9	2782.9	2782.9	2782.9	2782.9	2782.9	2782.9	2782.9	2782.9
2.5°	2765.7	2765.7	2765.7	2761.4	2752.9	2748.6	2740.0	2744.3	2744.3	2744.3	2744.3
5°	2731.4	2731.4	2727.1	2722.8	2714.2	2709.9	2701.3	2709.9	2709.9	2709.9	2709.9
7.5°	2667.0	2671.3	2671.3	2667.0	2654.1	2649.8	2636.9	2641.2	2641.2	2645.5	2641.2
10°	2632.6	2632.6	2628.3	2606.8	2585.4	2576.8	2572.5	2585.4	2598.3	2611.1	2611.1
12.5°	2632.6	2632.6	2624.0	2589.7	2559.6	2559.6	2559.6	2576.8	2602.5	2628.3	2632.6
15°	2645.5	2645.5	2628.3	2589.7	2572.5	2576.8	2576.8	2594.0	2624.0	2658.4	2662.7
17.5°	2654.1	2654.1	2632.6	2594.0	2594.0	2606.8	2598.3	2611.1	2641.2	2679.8	2684.1
20°	2667.0	2667.0	2636.9	2606.8	2606.8	2619.7	2619.7	2632.6	2658.4	2697.0	2701.3
22.5°	2692.7	2688.4	2658.4	2632.6	2632.6	2641.2	2649.8	2667.0	2688.4	2722.8	2731.4
25°	2722.8	2722.8	2697.0	2692.7	2701.3	2722.8	2718.5	2714.2	2722.8	2752.9	2765.7
27.5°	2740.0	2740.0	2722.8	2735.7	2770.0	2787.2	2765.7	2748.6	2748.6	2778.6	2782.9
30°	2795.8	2791.5	2774.3	2782.9	2813.0	2821.6	2808.7	2787.2	2800.1	2834.5	2838.8
32.5°	2890.3	2890.3	2864.5	2864.5	2886.0	2920.3	2877.4	2864.5	2881.7	2920.3	2924.6
35°	3036.3	3036.3	3001.9	2984.8	3001.9	3049.2	2984.8	2980.5	3010.5	3053.5	3057.8
37.5°	3221.0	3221.0	3199.5	3156.6	3160.8	3190.9	3135.1	3130.8	3186.6	3233.9	3233.9
40°	3452.9	3465.8	3444.3	3392.8	3375.6	3379.9	3336.9	3341.2	3405.6	3461.5	3461.5
42.5°	3740.6	3749.2	3714.9	3676.2	3654.7	3641.8	3598.9	3607.5	3684.8	3757.8	3757.8
45°	4088.5	4092.8	4058.4	4011.2	3985.4	3976.8	3933.9	3955.4	4041.2	4118.5	4114.3
47.5°	4479.3	4483.6	4449.2	4402.0	4384.8	4397.7	4354.8	4354.8	4432.1	4496.5	4487.9
50°	4921.6	4930.2	4891.6	4870.1	4857.2	4891.6	4840.0	4792.8	4844.3	4908.8	4900.2
52.5°	5411.2	5432.7	5406.9	5415.5	5462.8	5505.7	5419.8	5316.8	5342.5	5385.5	5372.6
55°	6003.9	6029.7	6038.2	6068.3	6192.9	6265.9	6124.1	5952.4	5939.5	5943.8	5922.3
57.5°	6669.6	6686.7	6742.6	6811.3	7069.0	7184.9	6961.6	6665.3	6570.8	6515.0	6502.1
60°	7339.5	7369.6	7507.0	7648.7	8043.8	8254.3	7910.7	7412.5	7210.7	7107.6	7086.1
62.5°	8013.8	8073.9	8297.2	8537.7	9113.2	9426.7	8898.5	8177.0	7884.9	7756.1	7721.7
65°	8795.4	8868.4	9139.0	9443.9	10083.8	10526.1	9886.2	8967.2	8653.7	8481.9	8438.9
67.5°	9710.2	9787.5	10006.5	10345.8	10951.3	11385.1	10818.2	9774.6	9366.6	9147.6	9113.2
70°	10461.7	10530.4	10766.6	11110.2	11561.1	12055.0	11513.9	10418.8	10049.4	9894.8	9873.4
72.5°	10345.8	10435.9	10783.8	11299.2	11943.4	12501.7	11818.8	10543.3	10010.8	9796.0	9727.3
75°	9035.9	9134.7	9547.0	10478.9	11655.6	12488.8	11376.5	9714.5	9087.4	8907.1	8872.7
77.5°	5982.4	6076.9	6772.6	8241.4	10178.3	11380.8	10040.8	8138.3	7129.1	6695.3	6669.6
80°	2417.9	2538.1	3203.8	4762.7	7215.0	8846.9	7446.9	5209.4	3513.0	2834.5	2697.0
82.5°	562.6	670.0	974.9	1756.5	3693.4	5510.0	4015.5	1945.5	1129.5	803.1	721.5
85°	236.2	240.5	416.6	571.2	1155.3	2224.6	1314.2	708.6	575.5	420.9	412.3
87.5°	90.2	94.5	201.8	240.5	369.3	420.9	446.6	365.0	339.3	210.4	201.8
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)