

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: P400163

Luminaire Tested: **ARCH-L-PA3-240-760-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400163
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-PA3-240-760-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33820 lumens
Efficiency: N/A
Efficacy: 139.8 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

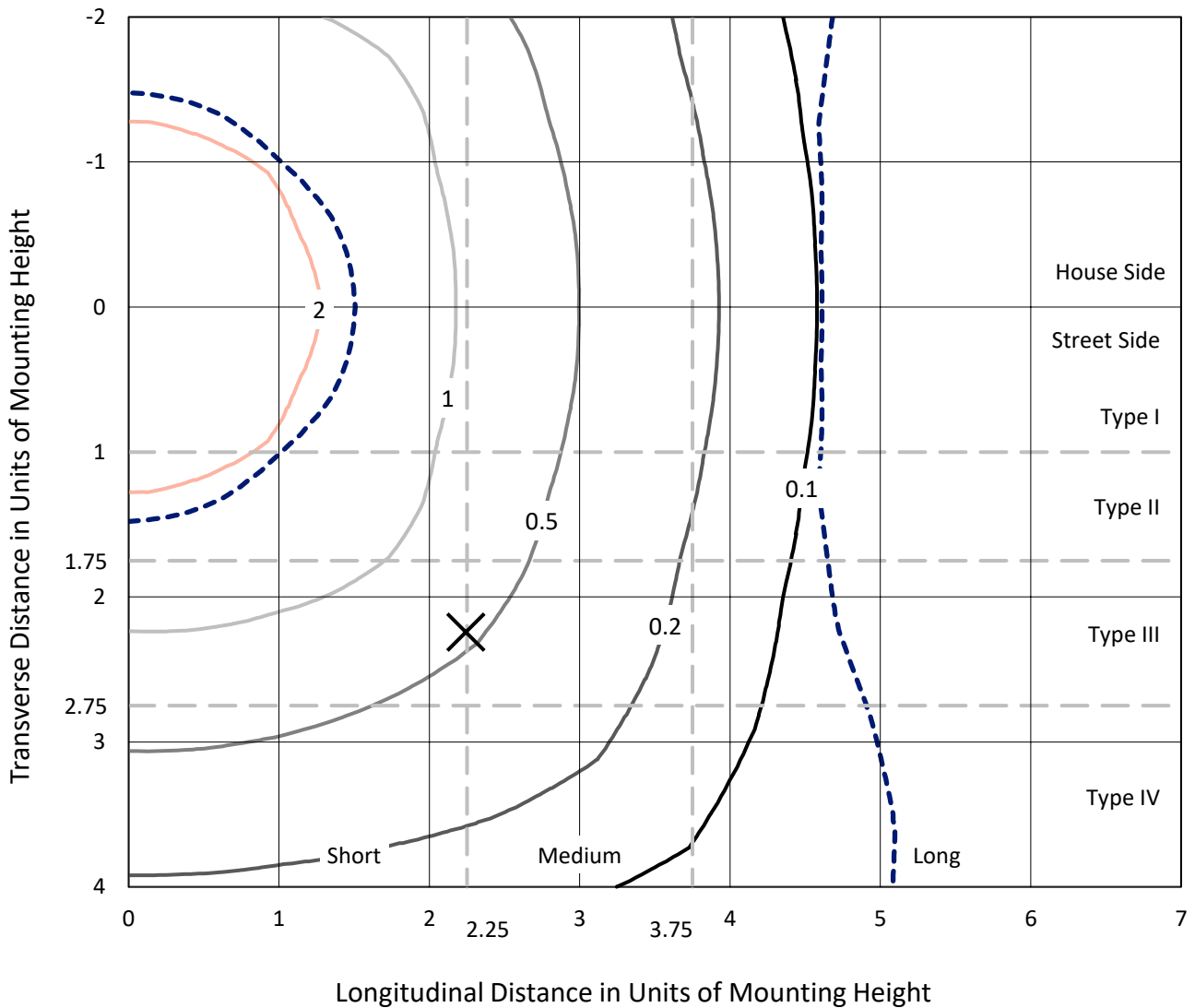
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

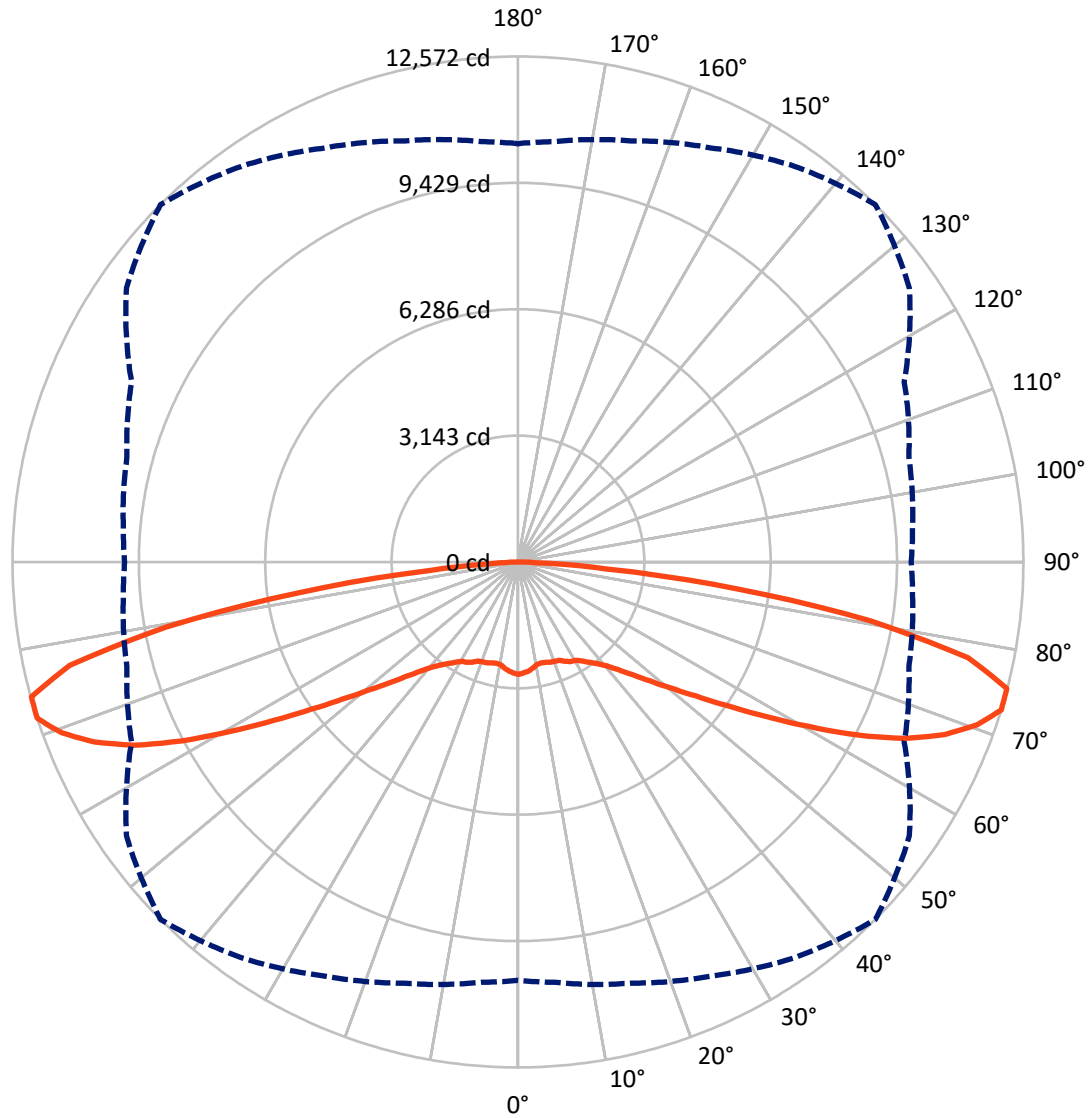
✕ Max cd
 - - - 1/2 Max cd



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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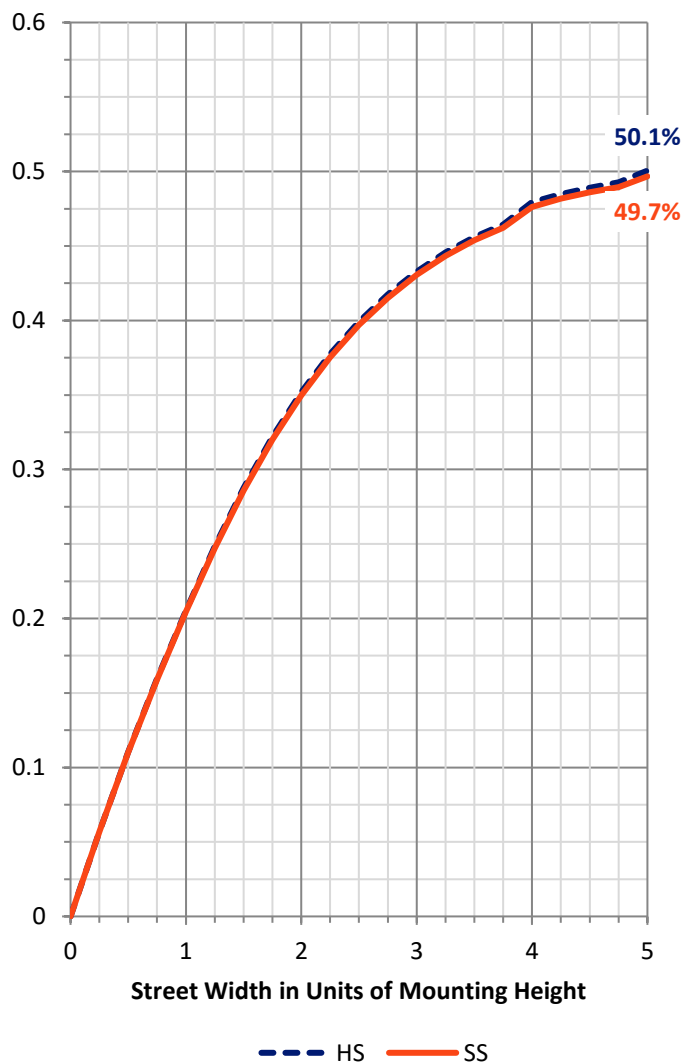
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16910.0	0.0	16910.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16910.0	0.0	16910.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33820.0	0.0	33820.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	0.8
10°-20°	744.9	2.2
20°-30°	1265.7	3.7
30°-40°	1930.6	5.7
40°-50°	3178.9	9.4
50°-60°	5551.3	16.4
60°-70°	9307.0	27.5
70°-80°	9960.4	29.5
80°-90°	1624.5	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°	33820.0	100.0
0°-180°	33820.0	100.0

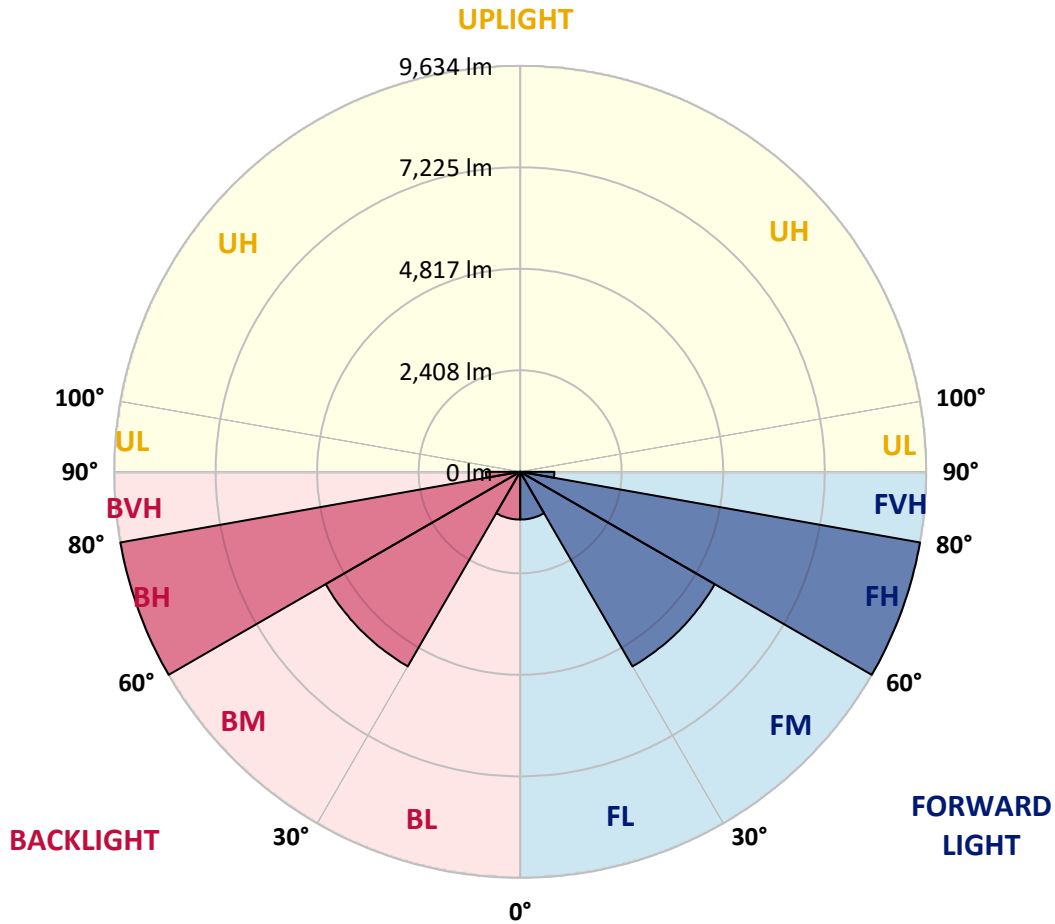


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1133.6	3.4			
FM (30°-60°)	5330.4	15.8			
FH (60°-80°)	9633.7	28.5			G4/12000
FVH (80°-90°)	812.3	2.4			G5
BL (0°-30°)	1133.6	3.4	B3/2500		
BM (30°-60°)	5330.4	15.8	B4/8500		
BH (60°-80°)	9633.7	28.5	B5		G4/12000
BVH (80°-90°)	812.3	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°	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6	2798.6
2.5°	2781.4	2781.4	2781.4	2777.0	2768.4	2764.1	2755.5	2759.8	2759.8	2759.8	2759.8
5°	2746.8	2746.8	2742.5	2738.2	2729.5	2725.2	2716.6	2725.2	2725.2	2725.2	2725.2
7.5°	2682.0	2686.4	2686.4	2682.0	2669.1	2664.8	2651.8	2656.1	2656.1	2660.4	2656.1
10°	2647.5	2647.5	2643.2	2621.6	2600.0	2591.3	2587.0	2600.0	2612.9	2625.9	2625.9
12.5°	2647.5	2647.5	2638.8	2604.3	2574.1	2574.1	2574.1	2591.3	2617.2	2643.2	2647.5
15°	2660.4	2660.4	2643.2	2604.3	2587.0	2591.3	2591.3	2608.6	2638.8	2673.4	2677.7
17.5°	2669.1	2669.1	2647.5	2608.6	2608.6	2621.6	2612.9	2625.9	2656.1	2695.0	2699.3
20°	2682.0	2682.0	2651.8	2621.6	2621.6	2634.5	2634.5	2647.5	2673.4	2712.3	2716.6
22.5°	2707.9	2703.6	2673.4	2647.5	2647.5	2656.1	2664.8	2682.0	2703.6	2738.2	2746.8
25°	2738.2	2738.2	2712.3	2707.9	2716.6	2738.2	2733.9	2729.5	2738.2	2768.4	2781.4
27.5°	2755.5	2755.5	2738.2	2751.1	2785.7	2803.0	2781.4	2764.1	2764.1	2794.3	2798.6
30°	2811.6	2807.3	2790.0	2798.6	2828.9	2837.5	2824.6	2803.0	2815.9	2850.5	2854.8
32.5°	2906.6	2906.6	2880.7	2880.7	2902.3	2936.8	2893.7	2880.7	2898.0	2936.8	2941.2
35°	3053.5	3053.5	3018.9	3001.6	3018.9	3066.4	3001.6	2997.3	3027.5	3070.7	3075.1
37.5°	3239.2	3239.2	3217.6	3174.4	3178.7	3208.9	3152.8	3148.5	3204.6	3252.1	3252.1
40°	3472.4	3485.3	3463.8	3411.9	3394.6	3399.0	3355.8	3360.1	3424.9	3481.0	3481.0
42.5°	3761.8	3770.4	3735.8	3697.0	3675.4	3662.4	3619.2	3627.9	3705.6	3779.0	3779.0
45°	4111.6	4115.9	4081.4	4033.8	4007.9	3999.3	3956.1	3977.7	4064.1	4141.8	4137.5
47.5°	4504.6	4508.9	4474.4	4426.9	4409.6	4422.5	4379.4	4379.4	4457.1	4521.9	4513.2
50°	4949.5	4958.1	4919.2	4897.6	4884.7	4919.2	4867.4	4819.9	4871.7	4936.5	4927.9
52.5°	5441.8	5463.4	5437.5	5446.1	5493.6	5536.8	5450.4	5346.8	5372.7	5415.9	5402.9
55°	6037.8	6063.7	6072.4	6102.6	6227.8	6301.3	6158.7	5986.0	5973.0	5977.3	5955.8
57.5°	6707.2	6724.5	6780.7	6849.8	7108.9	7225.5	7000.9	6702.9	6607.9	6551.8	6538.8
60°	7381.0	7411.2	7549.4	7691.9	8089.3	8300.9	7955.4	7454.4	7251.4	7147.8	7126.2
62.5°	8059.1	8119.5	8344.1	8586.0	9164.7	9480.0	8948.7	8223.2	7929.5	7799.9	7765.4
65°	8845.1	8918.5	9190.6	9497.2	10140.8	10585.6	9942.1	9017.8	8702.6	8529.8	8486.6
67.5°	9765.0	9842.8	10063.0	10404.2	11013.2	11449.4	10879.3	9829.8	9419.5	9199.2	9164.7
70°	10520.8	10589.9	10827.5	11173.0	11626.5	12123.1	11579.0	10477.6	10106.2	9950.7	9929.1
72.5°	10404.2	10494.9	10844.7	11363.0	12010.8	12572.3	11885.6	10602.9	10067.3	9851.4	9782.3
75°	9087.0	9186.3	9600.9	10538.1	11721.5	12559.3	11440.7	9769.3	9138.8	8957.4	8922.8
77.5°	6016.2	6111.2	6810.9	8288.0	10235.8	11445.1	10097.6	8184.3	7169.4	6733.2	6707.2
80°	2431.5	2552.5	3221.9	4789.7	7255.7	8896.9	7489.0	5238.8	3532.9	2850.5	2712.3
82.5°	565.8	673.7	980.4	1766.4	3714.2	5541.1	4038.2	1956.5	1135.9	807.6	725.6
85°	237.5	241.9	418.9	574.4	1161.8	2237.2	1321.6	712.6	578.7	423.3	414.6
87.5°	90.7	95.0	203.0	241.9	371.4	423.3	449.2	367.1	341.2	211.6	203.0
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)