

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: P400352

Luminaire Tested: **ARCH-L-PA3-270-730-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400352
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-PA3-270-730-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33138 lumens
Efficiency: N/A
Efficacy: 121.4 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

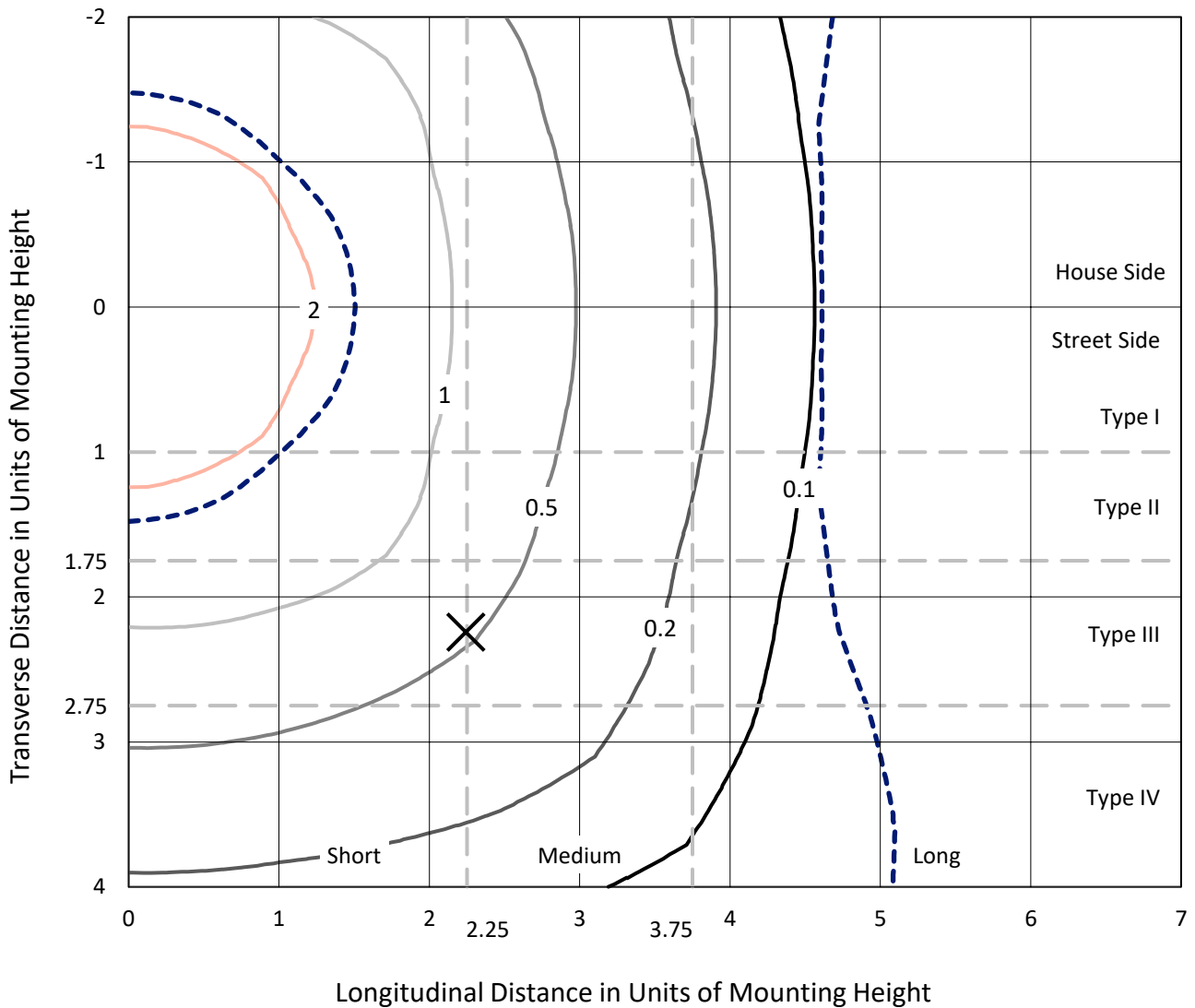
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

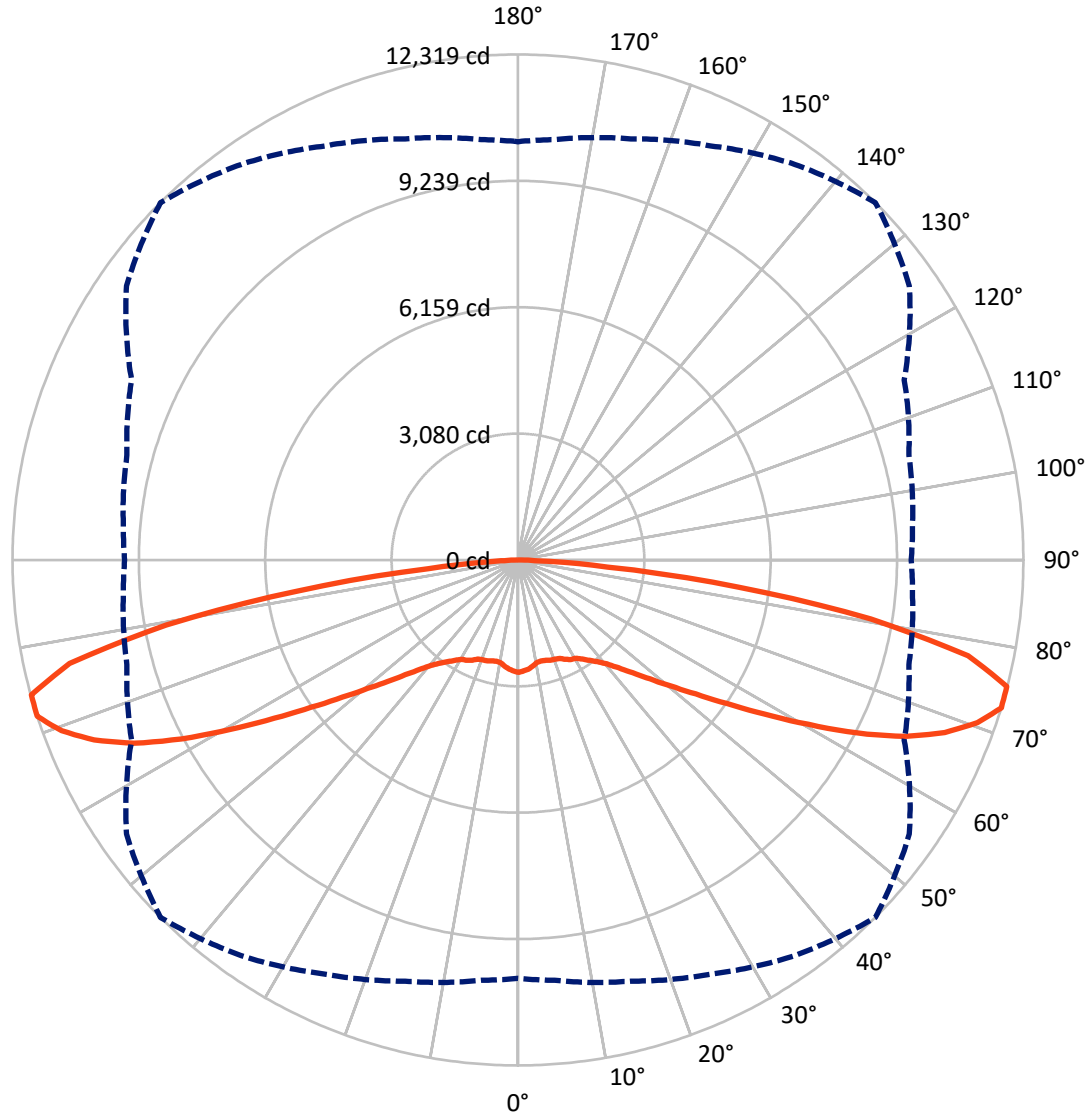
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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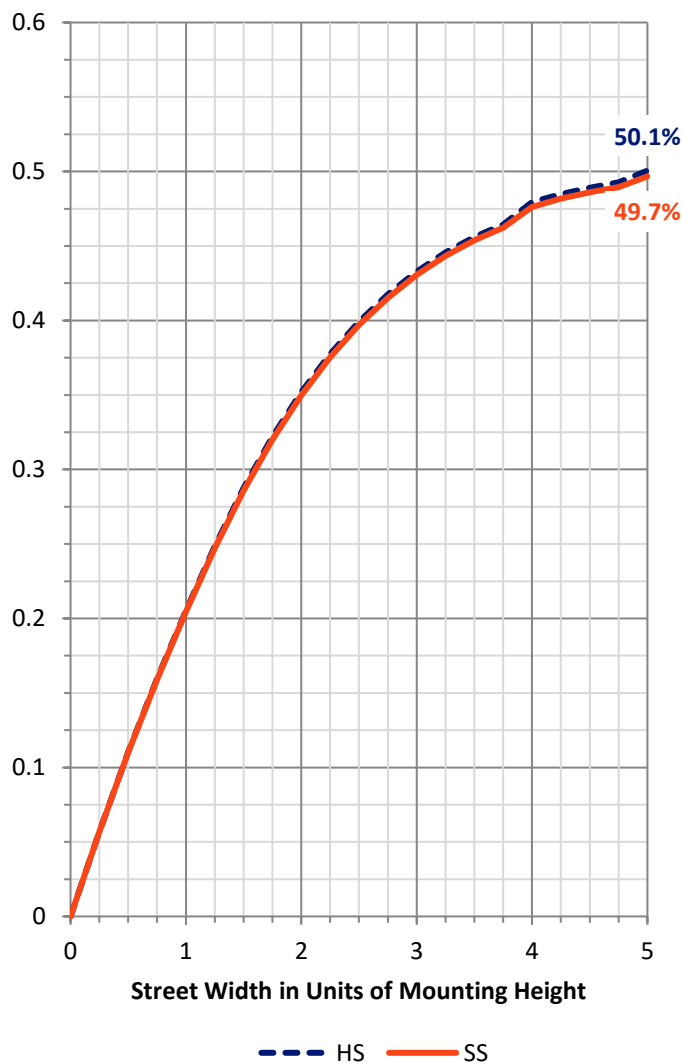
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16569.0	0.0	16569.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16569.0	0.0	16569.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33138.0	0.0	33138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.5	0.8
10°-20°	729.9	2.2
20°-30°	1240.2	3.7
30°-40°	1891.7	5.7
40°-50°	3114.8	9.4
50°-60°	5439.4	16.4
60°-70°	9119.3	27.5
70°-80°	9759.5	29.5
80°-90°	1591.8	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°	33138.0	100.0
0°-180°	33138.0	100.0

Coefficient of Utilization



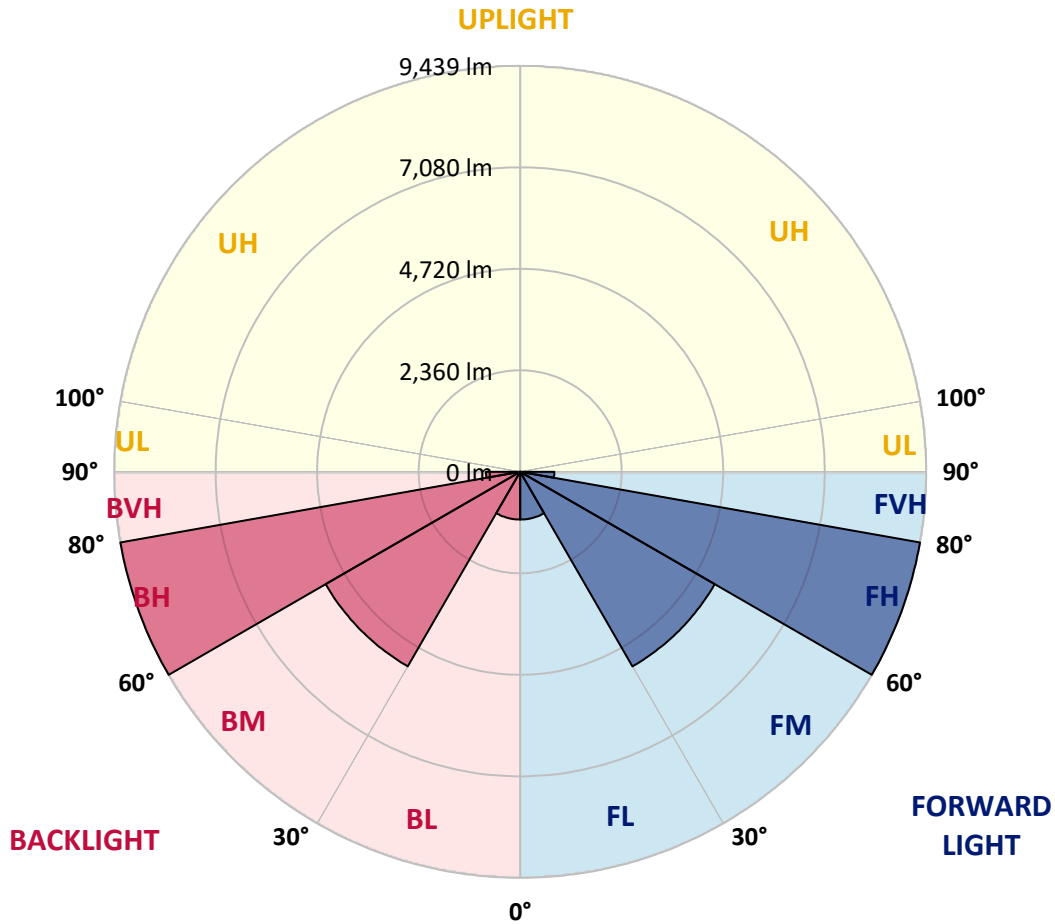
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1110.8	3.4			
FM (30°-60°)	5222.9	15.8			
FH (60°-80°)	9439.4	28.5			G4/12000
FVH (80°-90°)	795.9	2.4			G5
BL (0°-30°)	1110.8	3.4	B3/2500		
BM (30°-60°)	5222.9	15.8	B4/8500		
BH (60°-80°)	9439.4	28.5	B5		G4/12000
BVH (80°-90°)	795.9	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°	2742.2	2742.2	2742.2	2742.2	2742.2	2742.2	2742.2	2742.2	2742.2	2742.2	2742.2
2.5°	2725.3	2725.3	2725.3	2721.0	2712.6	2708.4	2699.9	2704.1	2704.1	2704.1	2704.1
5°	2691.4	2691.4	2687.2	2683.0	2674.5	2670.3	2661.8	2670.3	2670.3	2670.3	2670.3
7.5°	2627.9	2632.2	2632.2	2627.9	2615.3	2611.0	2598.3	2602.6	2602.6	2606.8	2602.6
10°	2594.1	2594.1	2589.9	2568.7	2547.5	2539.1	2534.8	2547.5	2560.2	2572.9	2572.9
12.5°	2594.1	2594.1	2585.6	2551.8	2522.2	2522.2	2522.2	2539.1	2564.5	2589.9	2594.1
15°	2606.8	2606.8	2589.9	2551.8	2534.8	2539.1	2539.1	2556.0	2585.6	2619.5	2623.7
17.5°	2615.3	2615.3	2594.1	2556.0	2556.0	2568.7	2560.2	2572.9	2602.6	2640.6	2644.9
20°	2627.9	2627.9	2598.3	2568.7	2568.7	2581.4	2581.4	2594.1	2619.5	2657.6	2661.8
22.5°	2653.3	2649.1	2619.5	2594.1	2594.1	2602.6	2611.0	2627.9	2649.1	2683.0	2691.4
25°	2683.0	2683.0	2657.6	2653.3	2661.8	2683.0	2678.7	2674.5	2683.0	2712.6	2725.3
27.5°	2699.9	2699.9	2683.0	2695.7	2729.5	2746.4	2725.3	2708.4	2708.4	2738.0	2742.2
30°	2754.9	2750.7	2733.7	2742.2	2771.8	2780.3	2767.6	2746.4	2759.1	2793.0	2797.2
32.5°	2848.0	2848.0	2822.6	2822.6	2843.8	2877.6	2835.3	2822.6	2839.5	2877.6	2881.9
35°	2991.9	2991.9	2958.0	2941.1	2958.0	3004.6	2941.1	2936.9	2966.5	3008.8	3013.0
37.5°	3173.8	3173.8	3152.7	3110.4	3114.6	3144.2	3089.2	3085.0	3140.0	3186.5	3186.5
40°	3402.4	3415.1	3393.9	3343.1	3326.2	3330.4	3288.1	3292.3	3355.8	3410.8	3410.8
42.5°	3685.9	3694.4	3660.5	3622.4	3601.3	3588.6	3546.2	3554.7	3630.9	3702.8	3702.8
45°	4028.7	4032.9	3999.1	3952.5	3927.1	3918.6	3876.3	3897.5	3982.1	4058.3	4054.1
47.5°	4413.8	4418.0	4384.1	4337.6	4320.7	4333.4	4291.0	4291.0	4367.2	4430.7	4422.2
50°	4849.6	4858.1	4820.0	4798.9	4786.2	4820.0	4769.2	4722.7	4773.5	4836.9	4828.5
52.5°	5332.1	5353.2	5327.8	5336.3	5382.8	5425.2	5340.5	5239.0	5264.4	5306.7	5294.0
55°	5916.1	5941.4	5949.9	5979.5	6102.3	6174.2	6034.5	5865.3	5852.6	5856.8	5835.7
57.5°	6572.0	6588.9	6643.9	6711.6	6965.5	7079.8	6859.7	6567.8	6474.7	6419.6	6406.9
60°	7232.1	7261.8	7397.2	7536.8	7926.2	8133.5	7795.0	7304.1	7105.2	7003.6	6982.5
62.5°	7896.5	7955.8	8175.8	8412.8	8979.9	9288.8	8768.3	8057.3	7769.6	7642.6	7608.8
65°	8666.7	8738.7	9005.3	9305.7	9936.3	10372.1	9741.6	8836.0	8527.1	8357.8	8315.5
67.5°	9568.1	9644.3	9860.1	10194.4	10791.1	11218.5	10659.9	9631.6	9229.6	9013.7	8979.9
70°	10308.7	10376.4	10609.1	10947.7	11392.0	11878.7	11345.5	10266.3	9902.4	9750.1	9728.9
72.5°	10194.4	10283.3	10626.0	11133.9	11768.6	12318.8	11645.9	10389.1	9864.3	9652.7	9585.0
75°	8903.7	9001.0	9407.3	10325.6	11485.1	12306.1	11210.0	9572.3	8954.5	8776.8	8742.9
77.5°	5894.9	5988.0	6673.5	8120.8	10029.4	11214.3	9893.9	8019.3	7024.8	6597.4	6572.0
80°	2382.5	2501.0	3156.9	4693.1	7109.4	8717.5	7337.9	5133.2	3461.6	2793.0	2657.6
82.5°	554.4	660.2	960.6	1730.8	3639.3	5429.4	3956.7	1917.0	1113.0	791.3	710.9
85°	232.7	237.0	410.5	562.8	1138.4	2192.1	1294.9	698.2	567.1	414.7	406.3
87.5°	88.9	93.1	198.9	237.0	363.9	414.7	440.1	359.7	334.3	207.4	198.9
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)