

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: P400073

Luminaire Tested: **ARCH-L-PA3-230-740-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400073
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-PA3-230-740-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32715 lumens
Efficiency: N/A
Efficacy: 142.9 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

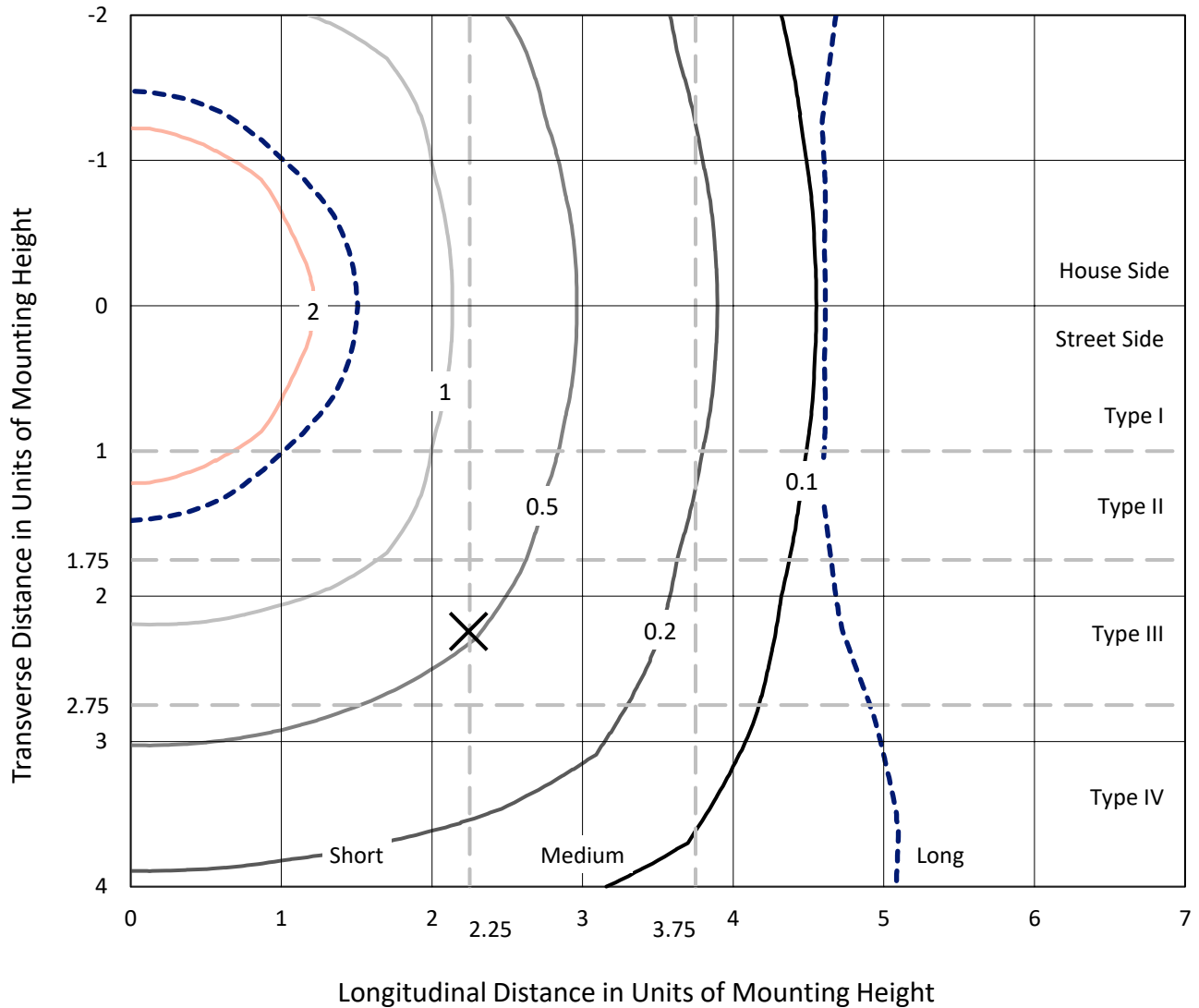
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

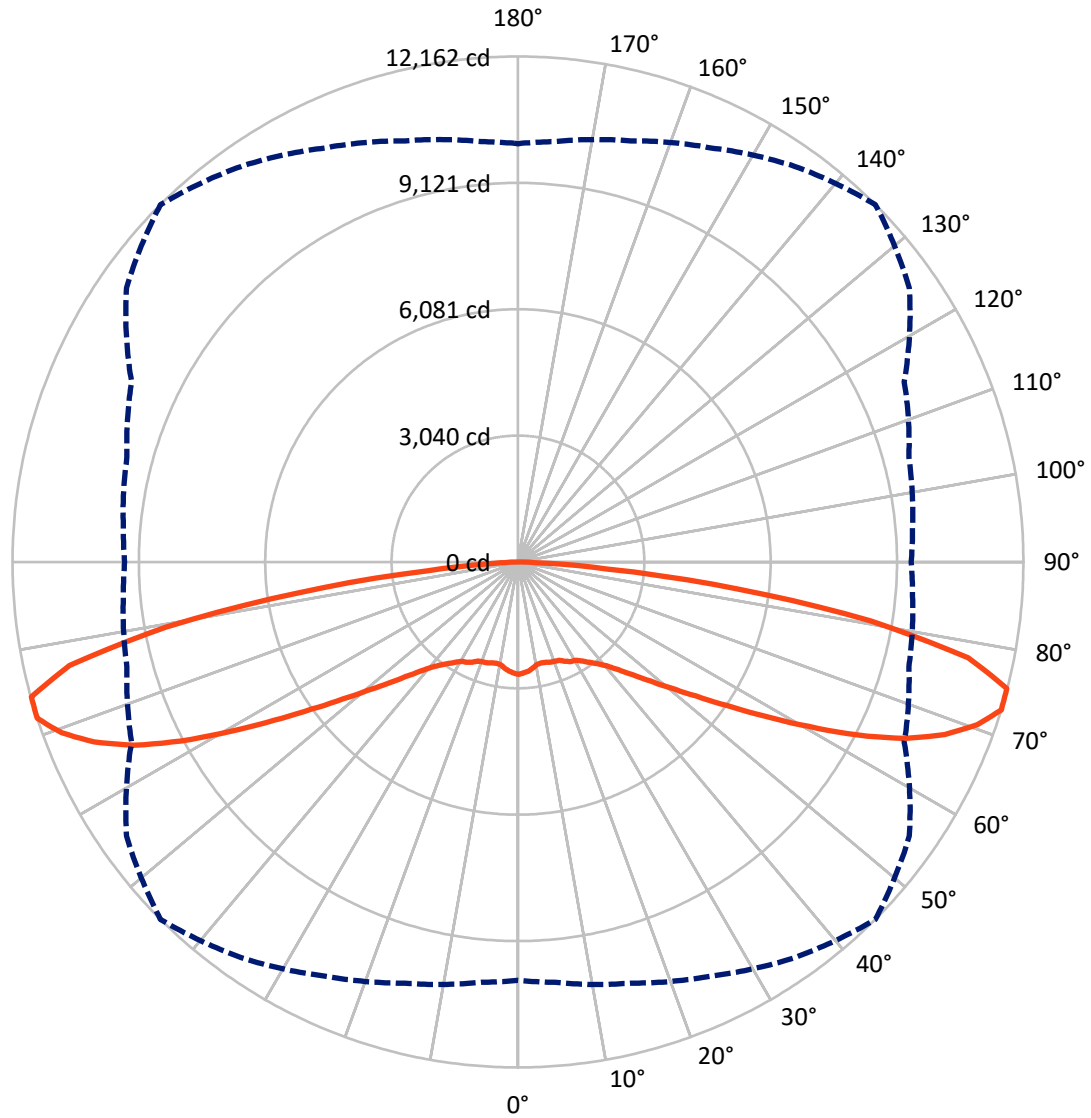
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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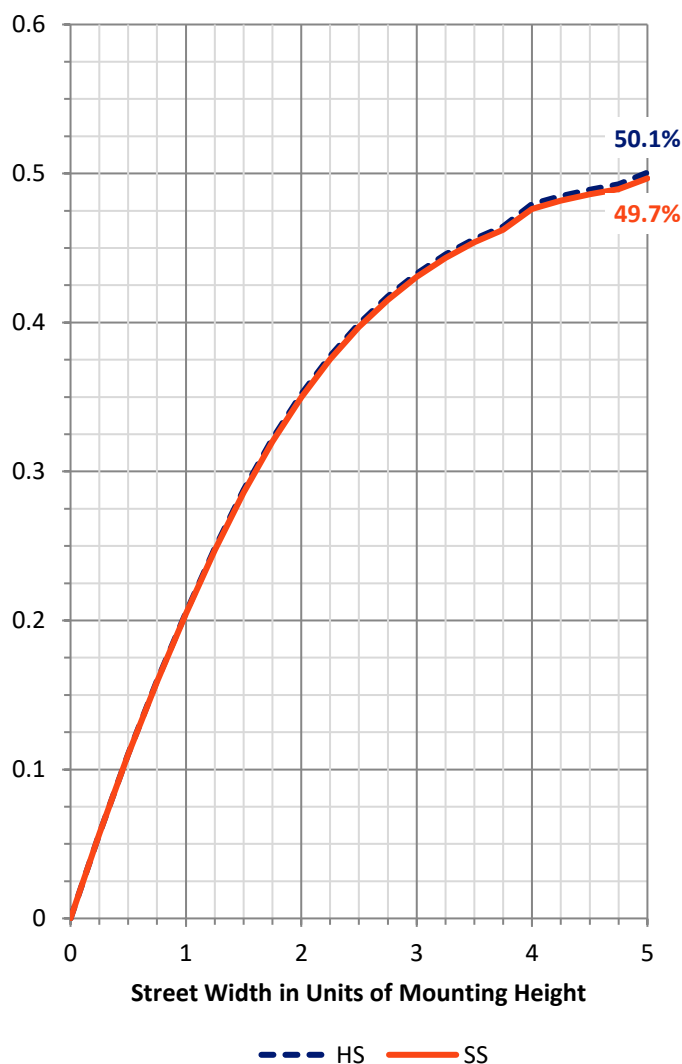
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16357.5	0.0	16357.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16357.5	0.0	16357.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32715.0	0.0	32715.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	0.8
10°-20°	720.6	2.2
20°-30°	1224.4	3.7
30°-40°	1867.5	5.7
40°-50°	3075.1	9.4
50°-60°	5370.0	16.4
60°-70°	9002.9	27.5
70°-80°	9634.9	29.5
80°-90°	1571.4	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°	32715.0	100.0
0°-180°	32715.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400073

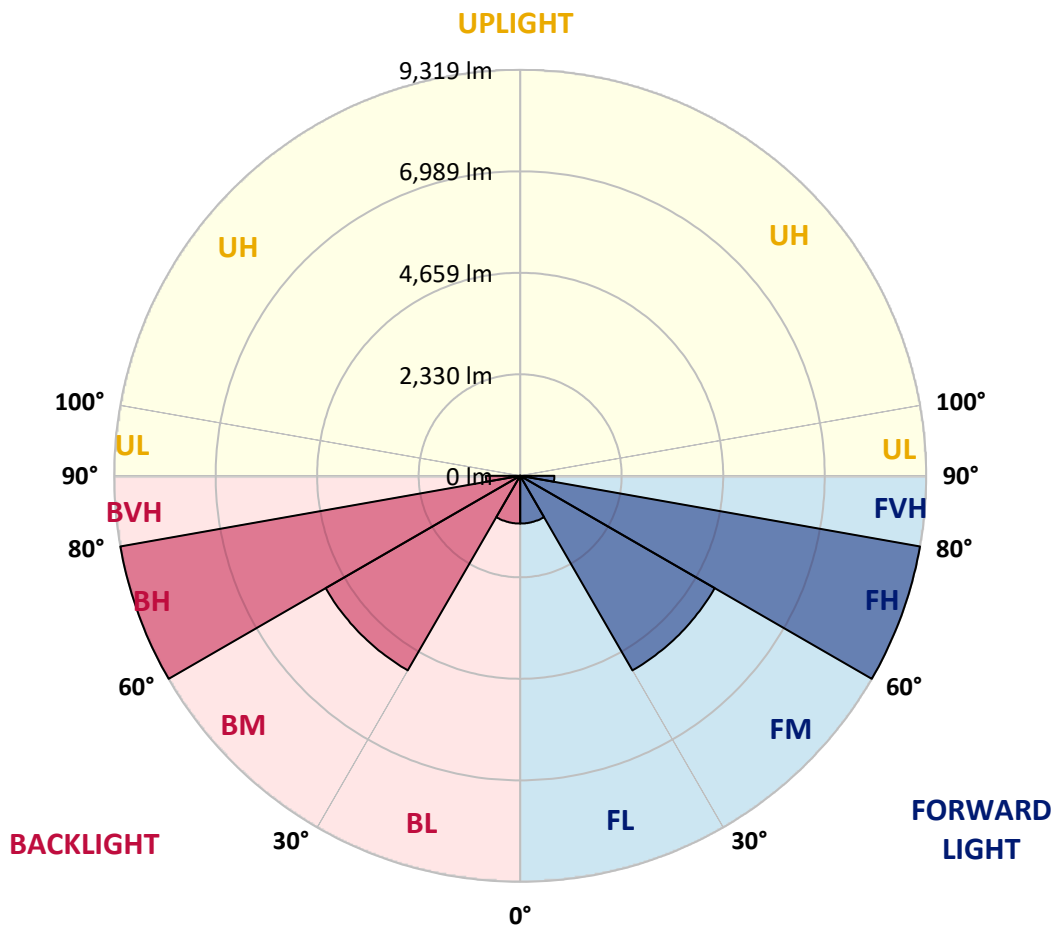
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.6	3.4			
FM (30°-60°)	5156.3	15.8			
FH (60°-80°)	9318.9	28.5			G4/12000
FVH (80°-90°)	785.7	2.4			G5
BL (0°-30°)	1096.6	3.4	B3/2500		
BM (30°-60°)	5156.3	15.8	B4/8500		
BH (60°-80°)	9318.9	28.5	B5		G4/12000
BVH (80°-90°)	785.7	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°	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2	2707.2
2.5°	2690.5	2690.5	2690.5	2686.3	2678.0	2673.8	2665.4	2669.6	2669.6	2669.6	2669.6
5°	2657.1	2657.1	2652.9	2648.7	2640.4	2636.2	2627.8	2636.2	2636.2	2636.2	2636.2
7.5°	2594.4	2598.6	2598.6	2594.4	2581.9	2577.7	2565.2	2569.3	2569.3	2573.5	2569.3
10°	2561.0	2561.0	2556.8	2535.9	2515.0	2506.7	2502.5	2515.0	2527.6	2540.1	2540.1
12.5°	2561.0	2561.0	2552.6	2519.2	2490.0	2490.0	2490.0	2506.7	2531.7	2556.8	2561.0
15°	2573.5	2573.5	2556.8	2519.2	2502.5	2506.7	2506.7	2523.4	2552.6	2586.0	2590.2
17.5°	2581.9	2581.9	2561.0	2523.4	2523.4	2535.9	2527.6	2540.1	2569.3	2606.9	2611.1
20°	2594.4	2594.4	2565.2	2535.9	2535.9	2548.4	2548.4	2561.0	2586.0	2623.6	2627.8
22.5°	2619.5	2615.3	2586.0	2561.0	2561.0	2569.3	2577.7	2594.4	2615.3	2648.7	2657.1
25°	2648.7	2648.7	2623.6	2619.5	2627.8	2648.7	2644.5	2640.4	2648.7	2678.0	2690.5
27.5°	2665.4	2665.4	2648.7	2661.2	2694.7	2711.4	2690.5	2673.8	2673.8	2703.0	2707.2
30°	2719.7	2715.6	2698.8	2707.2	2736.4	2744.8	2732.3	2711.4	2723.9	2757.3	2761.5
32.5°	2811.6	2811.6	2786.6	2786.6	2807.5	2840.9	2799.1	2786.6	2803.3	2840.9	2845.1
35°	2953.7	2953.7	2920.3	2903.6	2920.3	2966.2	2903.6	2899.4	2928.6	2970.4	2974.6
37.5°	3133.3	3133.3	3112.4	3070.7	3074.8	3104.1	3049.8	3045.6	3099.9	3145.9	3145.9
40°	3358.9	3371.5	3350.6	3300.4	3283.7	3287.9	3246.1	3250.3	3313.0	3367.3	3367.3
42.5°	3638.8	3647.2	3613.8	3576.2	3555.3	3542.8	3501.0	3509.3	3584.5	3655.6	3655.6
45°	3977.2	3981.4	3948.0	3902.0	3877.0	3868.6	3826.8	3847.7	3931.3	4006.5	4002.3
47.5°	4357.4	4361.6	4328.2	4282.2	4265.5	4278.0	4236.3	4236.3	4311.5	4374.1	4365.8
50°	4787.7	4796.1	4758.5	4737.6	4725.1	4758.5	4708.4	4662.4	4712.5	4775.2	4766.8
52.5°	5264.0	5284.9	5259.8	5268.2	5314.1	5355.9	5272.4	5172.1	5197.2	5238.9	5226.4
55°	5840.5	5865.6	5874.0	5903.2	6024.4	6095.4	5957.5	5790.4	5777.9	5782.1	5761.2
57.5°	6488.1	6504.8	6559.1	6626.0	6876.6	6989.4	6772.2	6483.9	6392.0	6337.7	6325.2
60°	7139.8	7169.1	7302.8	7440.6	7825.0	8029.7	7695.5	7210.9	7014.5	6914.2	6893.3
62.5°	7795.7	7854.2	8071.5	8305.4	8865.3	9170.2	8656.4	7954.5	7670.4	7545.1	7511.7
65°	8556.1	8627.1	8890.3	9186.9	9809.4	10239.7	9617.3	8723.2	8418.2	8251.1	8209.3
67.5°	9446.0	9521.2	9734.2	10064.3	10653.3	11075.3	10523.8	9508.6	9111.7	8898.7	8865.3
70°	10177.1	10243.9	10473.7	10807.9	11246.6	11727.0	11200.6	10135.3	9776.0	9625.6	9604.7
72.5°	10064.3	10152.0	10490.4	10991.7	11618.4	12161.5	11497.3	10256.5	9738.4	9529.5	9462.7
75°	8790.1	8886.1	9287.2	10193.8	11338.5	12149.0	11066.9	9450.1	8840.2	8664.7	8631.3
77.5°	5819.7	5911.6	6588.4	8017.2	9901.3	11071.1	9767.7	7916.9	6935.1	6513.2	6488.1
80°	2352.1	2469.1	3116.6	4633.2	7018.7	8606.2	7244.3	5067.6	3417.4	2757.3	2623.6
82.5°	547.3	651.7	948.4	1708.7	3592.9	5360.1	3906.2	1892.5	1098.8	781.2	701.9
85°	229.8	234.0	405.2	555.6	1123.8	2164.1	1278.4	689.3	559.8	409.4	401.1
87.5°	87.7	91.9	196.4	234.0	359.3	409.4	434.5	355.1	330.0	204.7	196.4
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)