

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: P400091

Luminaire Tested: **ARCH-L-PA3-230-760-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400091  
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-PA3-230-760-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 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: 32714 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

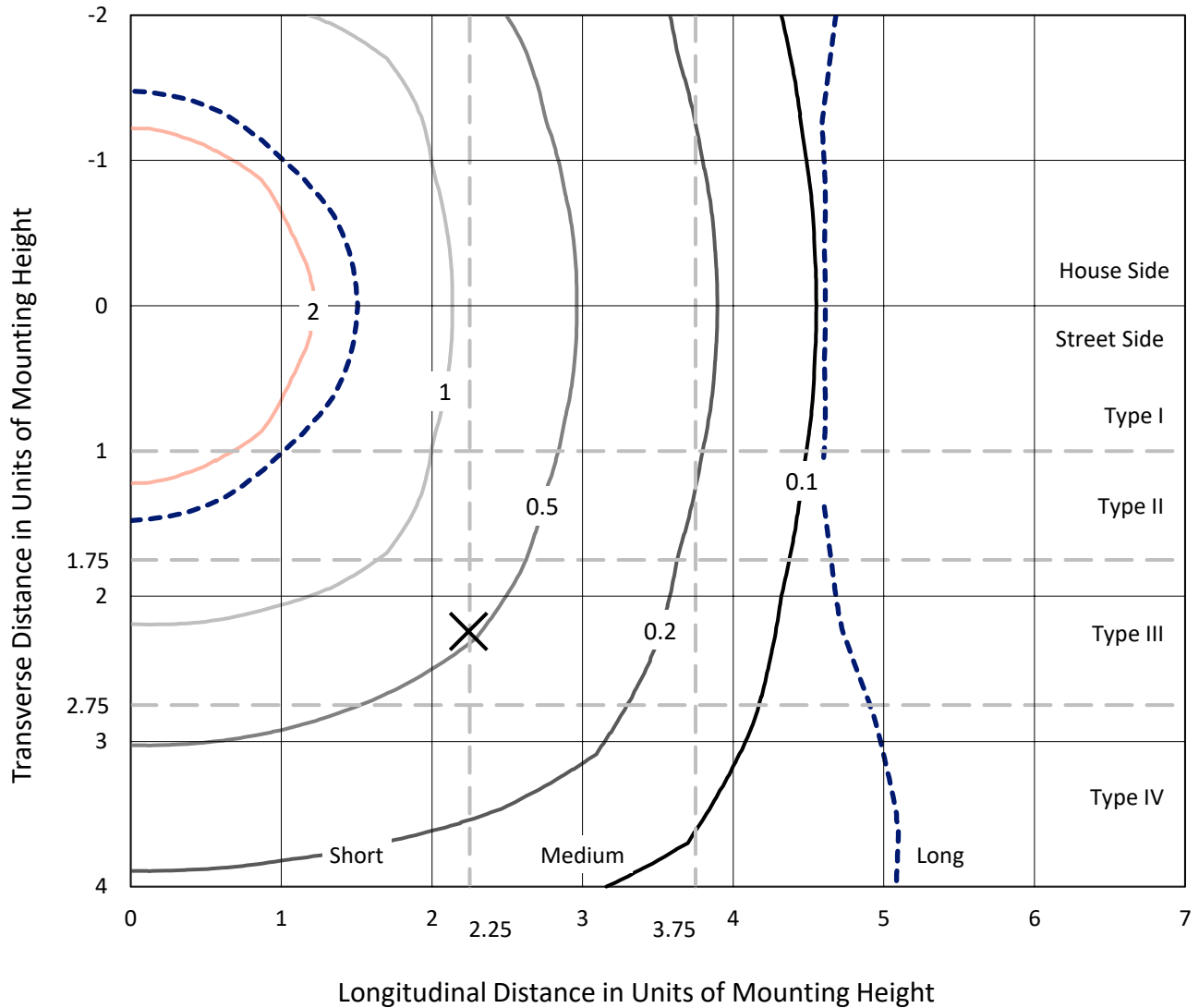
Input Watts (W): 229  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

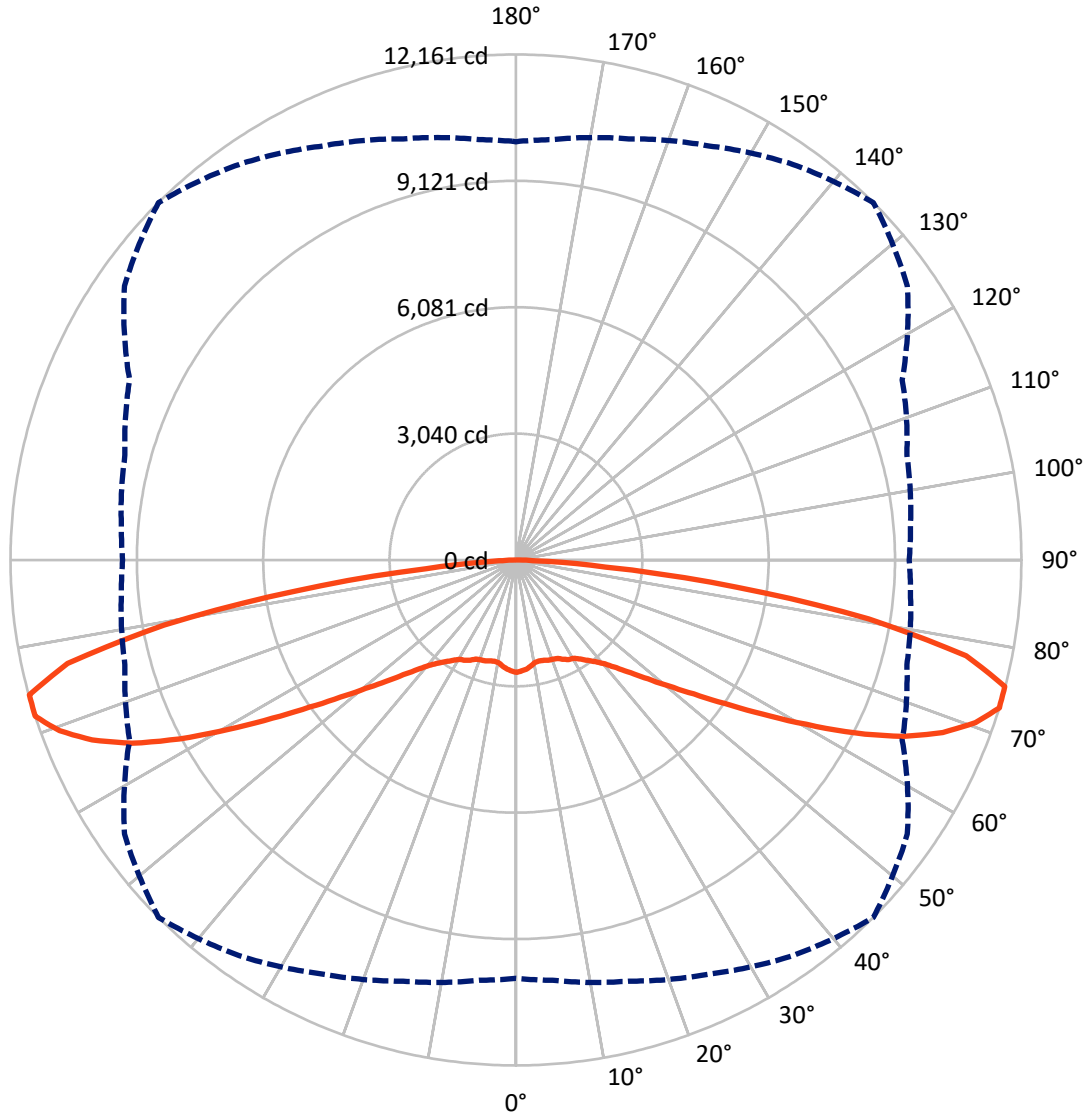
✕ Max cd  
 - - - 1/2 Max cd



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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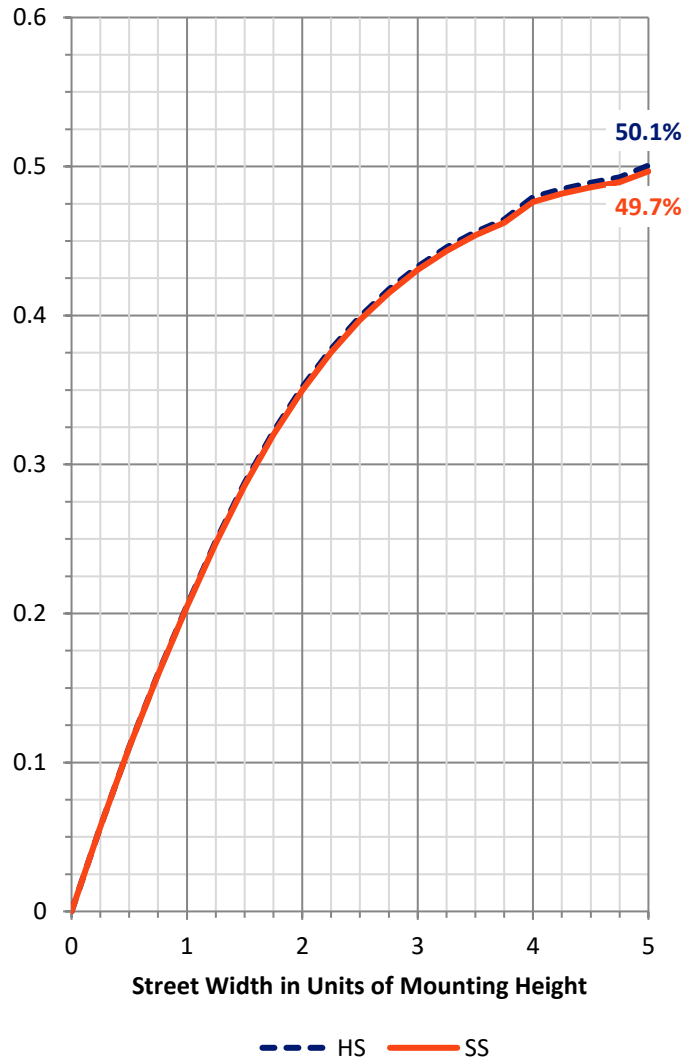
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16357.0	0.0	16357.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16357.0	0.0	16357.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32714.0	0.0	32714.0
	% 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°	1224.3	3.7
30°-40°	1867.5	5.7
40°-50°	3075.0	9.4
50°-60°	5369.8	16.4
60°-70°	9002.6	27.5
70°-80°	9634.6	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°	32714.0	100.0
0°-180°	32714.0	100.0

**Coefficient of Utilization**



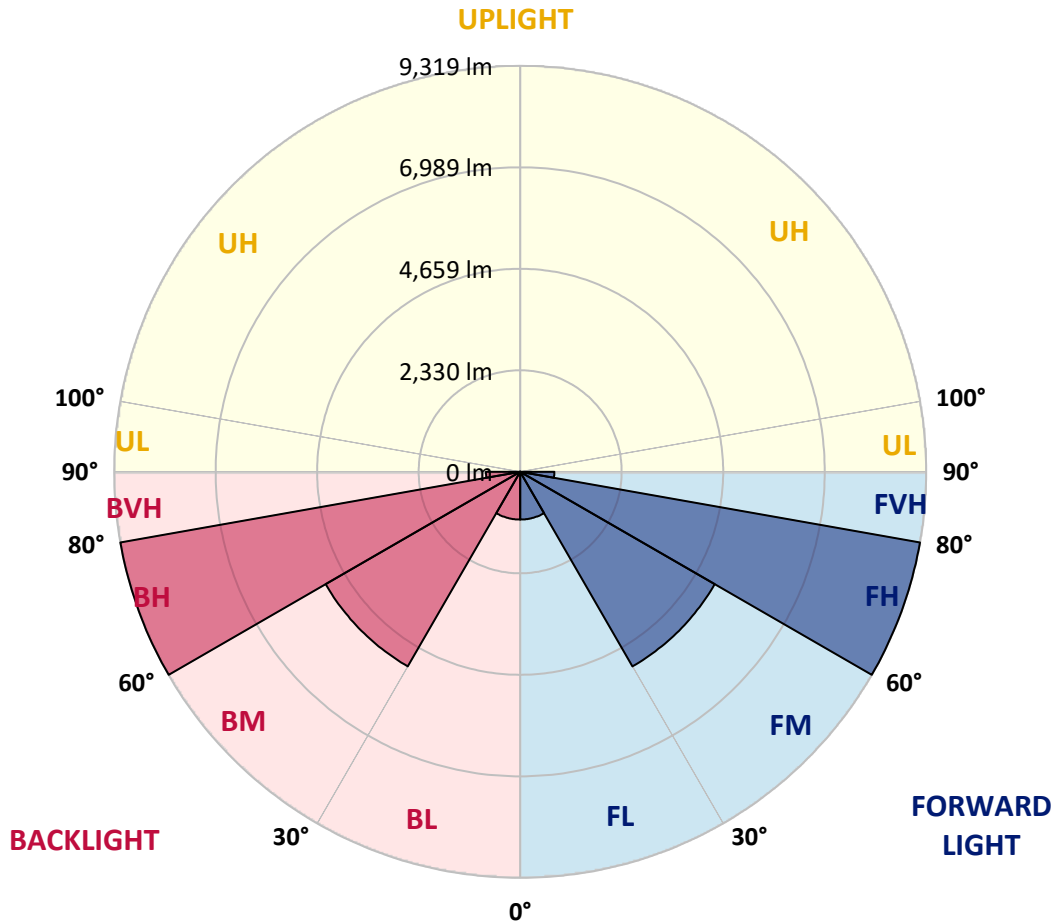
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.6	3.4			
FM (30°-60°)	5156.1	15.8			
FH (60°-80°)	9318.6	28.5			G4/12000
FVH (80°-90°)	785.7	2.4			G5
BL (0°-30°)	1096.6	3.4	B3/2500		
BM (30°-60°)	5156.1	15.8	B4/8500		
BH (60°-80°)	9318.6	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°	2707.1	2707.1	2707.1	2707.1	2707.1	2707.1	2707.1	2707.1	2707.1	2707.1	2707.1
2.5°	2690.4	2690.4	2690.4	2686.2	2677.9	2673.7	2665.3	2669.5	2669.5	2669.5	2669.5
5°	2657.0	2657.0	2652.8	2648.6	2640.3	2636.1	2627.7	2636.1	2636.1	2636.1	2636.1
7.5°	2594.3	2598.5	2598.5	2594.3	2581.8	2577.6	2565.1	2569.3	2569.3	2573.4	2569.3
10°	2560.9	2560.9	2556.7	2535.8	2514.9	2506.6	2502.4	2514.9	2527.5	2540.0	2540.0
12.5°	2560.9	2560.9	2552.5	2519.1	2489.9	2489.9	2489.9	2506.6	2531.7	2556.7	2560.9
15°	2573.4	2573.4	2556.7	2519.1	2502.4	2506.6	2506.6	2523.3	2552.5	2586.0	2590.1
17.5°	2581.8	2581.8	2560.9	2523.3	2523.3	2535.8	2527.5	2540.0	2569.3	2606.9	2611.0
20°	2594.3	2594.3	2565.1	2535.8	2535.8	2548.4	2548.4	2560.9	2586.0	2623.6	2627.7
22.5°	2619.4	2615.2	2586.0	2560.9	2560.9	2569.3	2577.6	2594.3	2615.2	2648.6	2657.0
25°	2648.6	2648.6	2623.6	2619.4	2627.7	2648.6	2644.5	2640.3	2648.6	2677.9	2690.4
27.5°	2665.3	2665.3	2648.6	2661.2	2694.6	2711.3	2690.4	2673.7	2673.7	2702.9	2707.1
30°	2719.7	2715.5	2698.8	2707.1	2736.4	2744.7	2732.2	2711.3	2723.8	2757.3	2761.4
32.5°	2811.6	2811.6	2786.5	2786.5	2807.4	2840.8	2799.0	2786.5	2803.2	2840.8	2845.0
35°	2953.6	2953.6	2920.2	2903.5	2920.2	2966.1	2903.5	2899.3	2928.5	2970.3	2974.5
37.5°	3133.2	3133.2	3112.4	3070.6	3074.8	3104.0	3049.7	3045.5	3099.8	3145.8	3145.8
40°	3358.8	3371.4	3350.5	3300.3	3283.6	3287.8	3246.0	3250.2	3312.9	3367.2	3367.2
42.5°	3638.7	3647.1	3613.7	3576.1	3555.2	3542.7	3500.9	3509.2	3584.4	3655.4	3655.4
45°	3977.1	3981.3	3947.9	3901.9	3876.9	3868.5	3826.7	3847.6	3931.2	4006.4	4002.2
47.5°	4357.3	4361.5	4328.0	4282.1	4265.4	4277.9	4236.1	4236.1	4311.3	4374.0	4365.6
50°	4787.6	4795.9	4758.3	4737.5	4724.9	4758.3	4708.2	4662.3	4712.4	4775.1	4766.7
52.5°	5263.8	5284.7	5259.7	5268.0	5314.0	5355.8	5272.2	5171.9	5197.0	5238.8	5226.2
55°	5840.4	5865.4	5873.8	5903.0	6024.2	6095.2	5957.3	5790.2	5777.7	5781.9	5761.0
57.5°	6487.9	6504.6	6558.9	6625.8	6876.4	6989.2	6772.0	6483.7	6391.8	6337.5	6325.0
60°	7139.6	7168.9	7302.5	7440.4	7824.7	8029.5	7695.2	7210.6	7014.3	6914.0	6893.1
62.5°	7795.5	7854.0	8071.2	8305.2	8865.0	9170.0	8656.1	7954.3	7670.2	7544.8	7511.4
65°	8555.8	8626.9	8890.0	9186.7	9809.1	10239.4	9617.0	8722.9	8418.0	8250.9	8209.1
67.5°	9445.7	9520.9	9733.9	10064.0	10653.0	11075.0	10523.5	9508.3	9111.5	8898.4	8865.0
70°	10176.8	10243.6	10473.4	10807.6	11246.2	11726.7	11200.3	10135.0	9775.7	9625.3	9604.4
72.5°	10064.0	10151.7	10490.1	10991.4	11618.1	12161.2	11496.9	10256.1	9738.1	9529.2	9462.4
75°	8789.8	8885.9	9286.9	10193.5	11338.2	12148.6	11066.6	9449.9	8839.9	8664.5	8631.0
77.5°	5819.5	5911.4	6588.2	8016.9	9901.0	11070.8	9767.4	7916.7	6934.9	6513.0	6487.9
80°	2352.0	2469.0	3116.5	4633.0	7018.5	8606.0	7244.1	5067.5	3417.3	2757.3	2623.6
82.5°	547.3	651.7	948.3	1708.7	3592.8	5359.9	3906.1	1892.5	1098.7	781.2	701.8
85°	229.8	233.9	405.2	555.6	1123.8	2164.0	1278.4	689.3	559.8	409.4	401.1
87.5°	87.7	91.9	196.3	233.9	359.3	409.4	434.5	355.1	330.0	204.7	196.3
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)