

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: P400379

Luminaire Tested: **ARCH-L-PA3-270-760-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400379  
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-PA3-270-760-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 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: 36388 lumens  
Efficiency: N/A  
Efficacy: 133.3 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

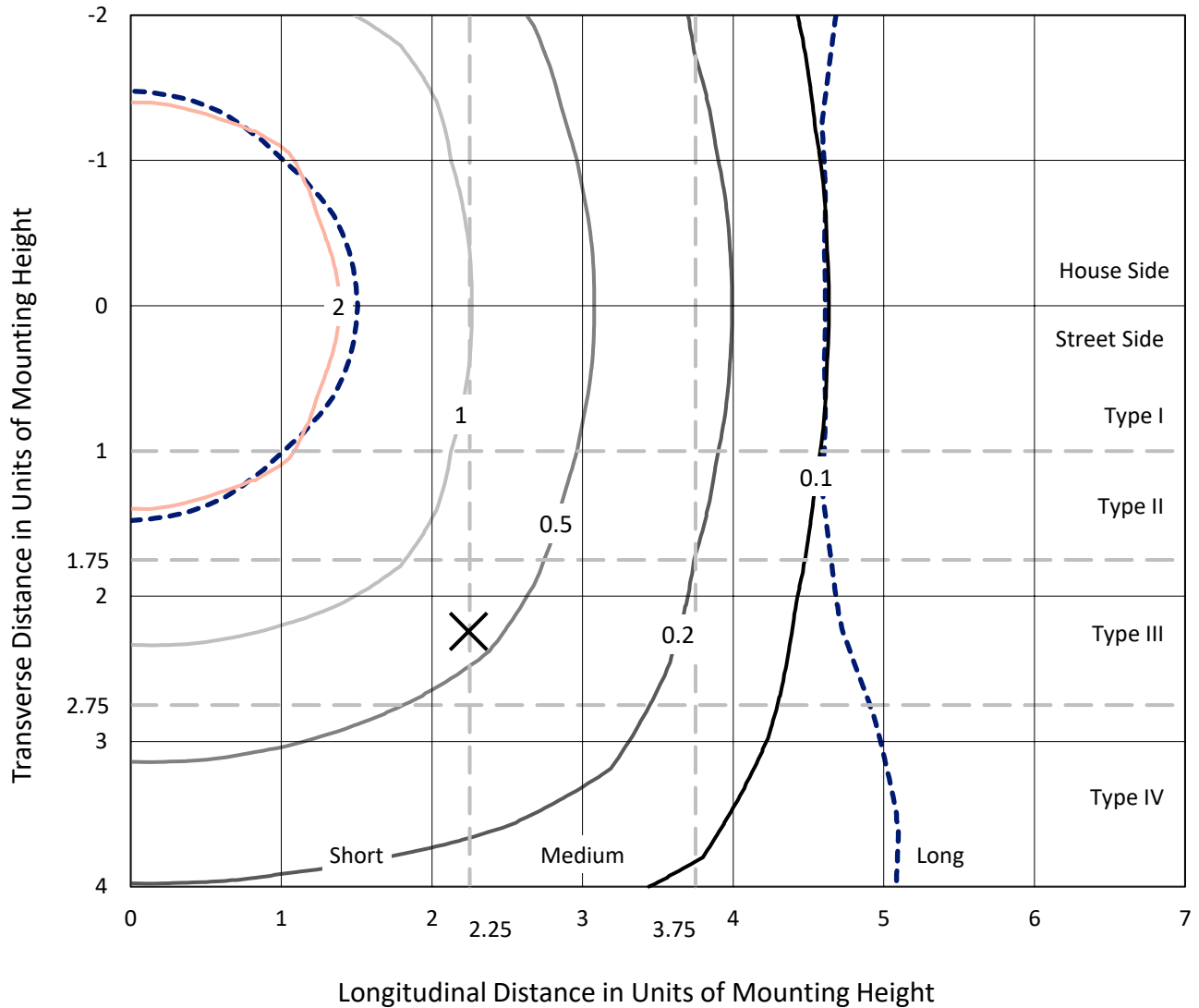
Input Watts (W): 273  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

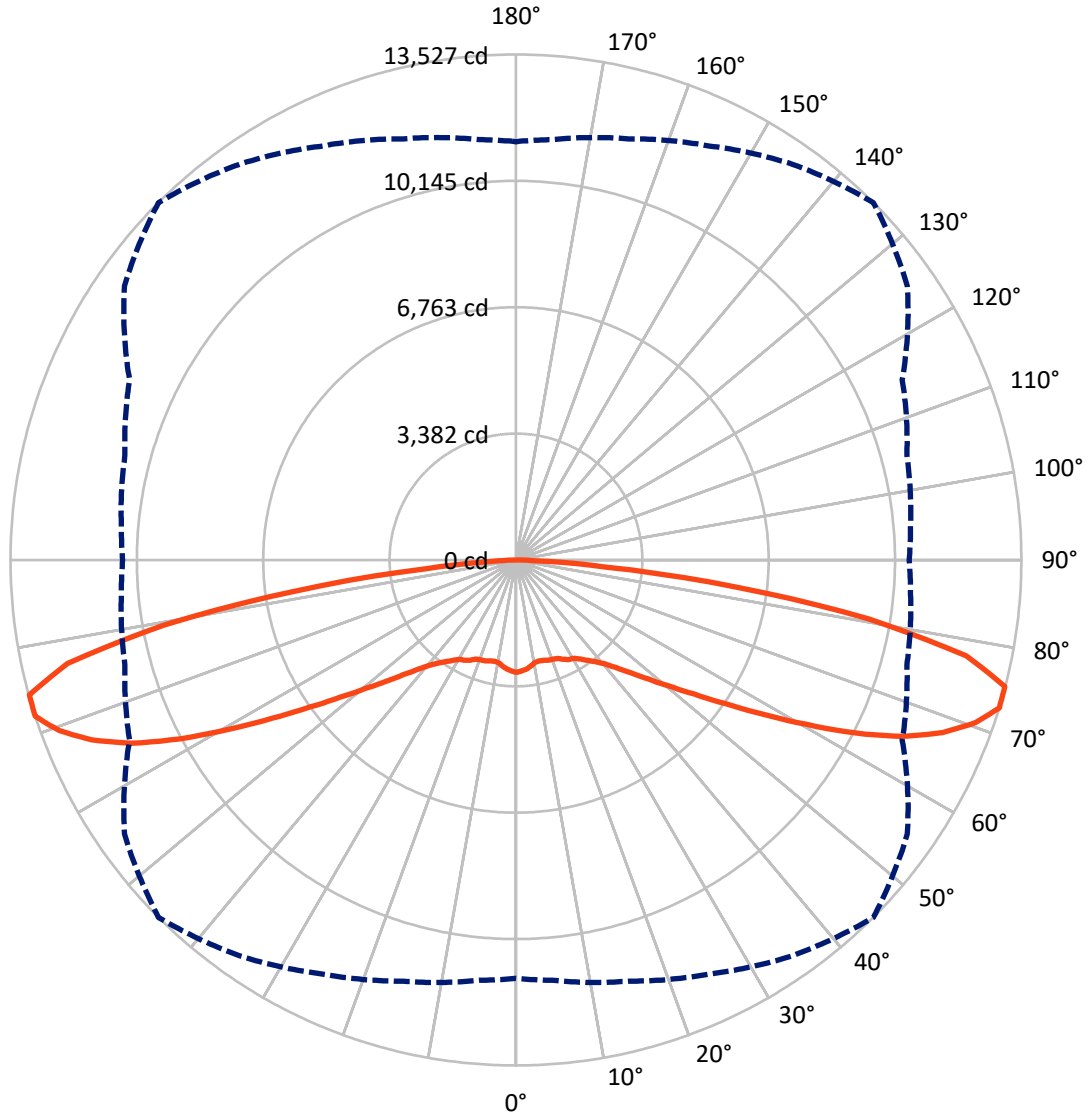
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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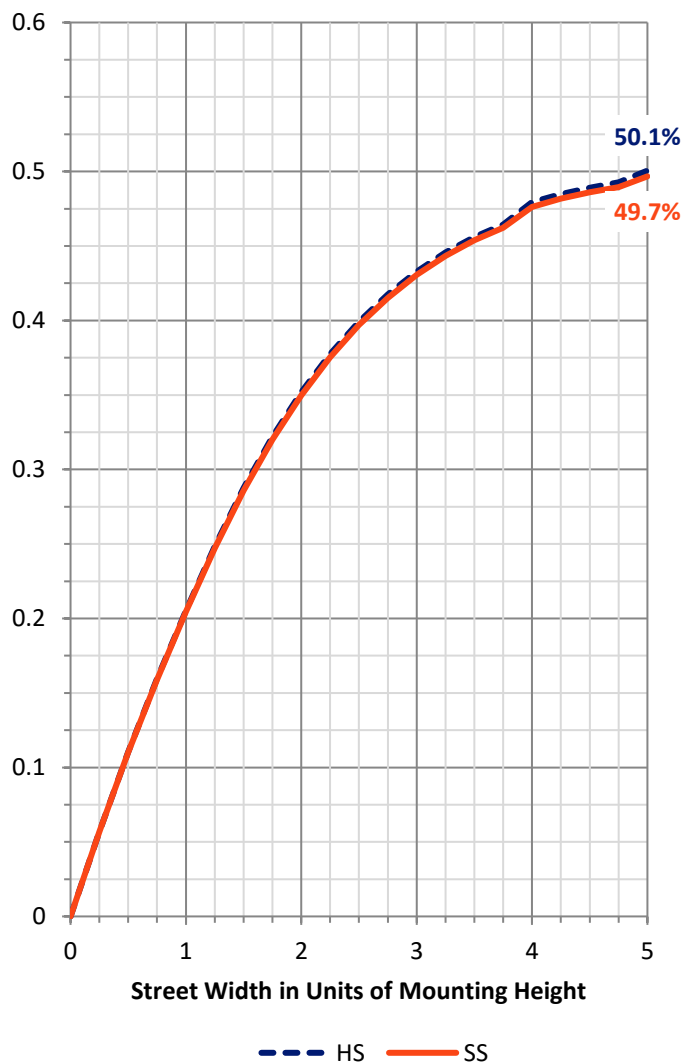
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18194.0	0.0	18194.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18194.0	0.0	18194.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36388.0	0.0	36388.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.1	0.8
10°-20°	801.5	2.2
20°-30°	1361.8	3.7
30°-40°	2077.2	5.7
40°-50°	3420.3	9.4
50°-60°	5972.9	16.4
60°-70°	10013.7	27.5
70°-80°	10716.7	29.5
80°-90°	1747.9	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°	36388.0	100.0
0°-180°	36388.0	100.0

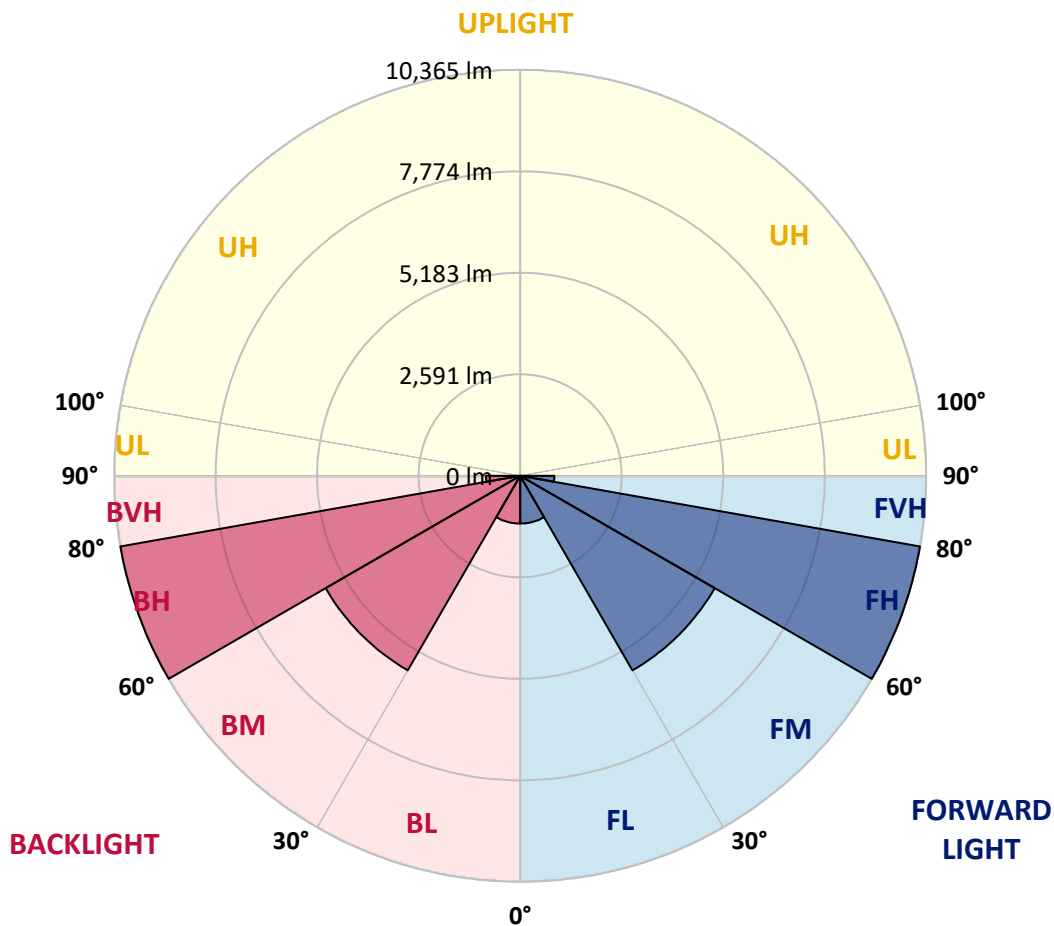


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1219.7	3.4			
FM (30°-60°)	5735.2	15.8			
FH (60°-80°)	10365.2	28.5			G4/12000
FVH (80°-90°)	873.9	2.4			G5
BL (0°-30°)	1219.7	3.4	B3/2500		
BM (30°-60°)	5735.2	15.8	B4/8500		
BH (60°-80°)	10365.2	28.5	B5		G4/12000
BVH (80°-90°)	873.9	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°	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1	3011.1
2.5°	2992.6	2992.6	2992.6	2987.9	2978.6	2974.0	2964.7	2969.3	2969.3	2969.3	2969.3
5°	2955.4	2955.4	2950.7	2946.1	2936.8	2932.2	2922.9	2932.2	2932.2	2932.2	2932.2
7.5°	2885.7	2890.3	2890.3	2885.7	2871.7	2867.1	2853.2	2857.8	2857.8	2862.4	2857.8
10°	2848.5	2848.5	2843.9	2820.6	2797.4	2788.1	2783.5	2797.4	2811.3	2825.3	2825.3
12.5°	2848.5	2848.5	2839.2	2802.0	2769.5	2769.5	2769.5	2788.1	2816.0	2843.9	2848.5
15°	2862.4	2862.4	2843.9	2802.0	2783.5	2788.1	2788.1	2806.7	2839.2	2876.4	2881.0
17.5°	2871.7	2871.7	2848.5	2806.7	2806.7	2820.6	2811.3	2825.3	2857.8	2899.6	2904.3
20°	2885.7	2885.7	2853.2	2820.6	2820.6	2834.6	2834.6	2848.5	2876.4	2918.2	2922.9
22.5°	2913.6	2908.9	2876.4	2848.5	2848.5	2857.8	2867.1	2885.7	2908.9	2946.1	2955.4
25°	2946.1	2946.1	2918.2	2913.6	2922.9	2946.1	2941.4	2936.8	2946.1	2978.6	2992.6
27.5°	2964.7	2964.7	2946.1	2960.0	2997.2	3015.8	2992.6	2974.0	2974.0	3006.5	3011.1
30°	3025.1	3020.4	3001.9	3011.1	3043.7	3053.0	3039.0	3015.8	3029.7	3066.9	3071.6
32.5°	3127.3	3127.3	3099.4	3099.4	3122.7	3159.8	3113.4	3099.4	3118.0	3159.8	3164.5
35°	3285.3	3285.3	3248.1	3229.5	3248.1	3299.3	3229.5	3224.9	3257.4	3303.9	3308.5
37.5°	3485.1	3485.1	3461.9	3415.4	3420.1	3452.6	3392.2	3387.5	3447.9	3499.1	3499.1
40°	3736.1	3750.0	3726.8	3671.0	3652.4	3657.1	3610.6	3615.2	3684.9	3745.3	3745.3
42.5°	4047.4	4056.7	4019.5	3977.7	3954.5	3940.5	3894.0	3903.3	3987.0	4066.0	4066.0
45°	4423.8	4428.4	4391.3	4340.1	4312.3	4303.0	4256.5	4279.7	4372.7	4456.3	4451.7
47.5°	4846.6	4851.3	4814.1	4763.0	4744.4	4758.4	4711.9	4711.9	4795.5	4865.2	4855.9
50°	5325.3	5334.6	5292.7	5269.5	5255.6	5292.7	5237.0	5185.9	5241.6	5311.3	5302.0
52.5°	5855.0	5878.2	5850.4	5859.7	5910.8	5957.2	5864.3	5752.8	5780.7	5827.1	5813.2
55°	6496.3	6524.2	6533.4	6566.0	6700.7	6779.7	6626.4	6440.5	6426.6	6431.2	6408.0
57.5°	7216.5	7235.1	7295.5	7369.9	7648.7	7774.2	7532.5	7211.9	7109.7	7049.2	7035.3
60°	7941.4	7974.0	8122.7	8276.0	8703.5	8931.2	8559.5	8020.4	7802.0	7690.5	7667.3
62.5°	8671.0	8736.0	8977.7	9237.9	9860.6	10199.8	9628.2	8847.6	8531.6	8392.2	8355.0
65°	9516.7	9595.7	9888.5	10218.4	10910.8	11389.4	10697.0	9702.6	9363.4	9177.5	9131.0
67.5°	10506.5	10590.1	10827.1	11194.2	11849.4	12318.8	11705.4	10576.2	10134.7	9897.8	9860.6
70°	11319.7	11394.0	11649.6	12021.4	12509.3	13043.7	12458.2	11273.2	10873.6	10706.3	10683.1
72.5°	11194.2	11291.8	11668.2	12225.8	12922.8	13526.9	12788.1	11408.0	10831.8	10599.4	10525.1
75°	9776.9	9883.8	10329.9	11338.3	12611.5	13513.0	12309.5	10511.1	9832.7	9637.5	9600.4
77.5°	6473.0	6575.3	7328.1	8917.3	11013.0	12314.1	10864.3	8805.7	7713.7	7244.4	7216.5
80°	2616.2	2746.3	3466.5	5153.3	7806.7	9572.5	8057.6	5636.6	3801.1	3066.9	2918.2
82.5°	608.7	724.9	1054.8	1900.6	3996.3	5961.9	4344.8	2105.0	1222.1	869.0	780.7
85°	255.6	260.2	450.7	618.0	1250.0	2407.1	1421.9	766.7	622.7	455.4	446.1
87.5°	97.6	102.2	218.4	260.2	399.6	455.4	483.3	395.0	367.1	227.7	218.4
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)