

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: P400397

Luminaire Tested: **ARCH-L-PA3-270-830-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400397  
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-PA3-270-830-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 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: 28916 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

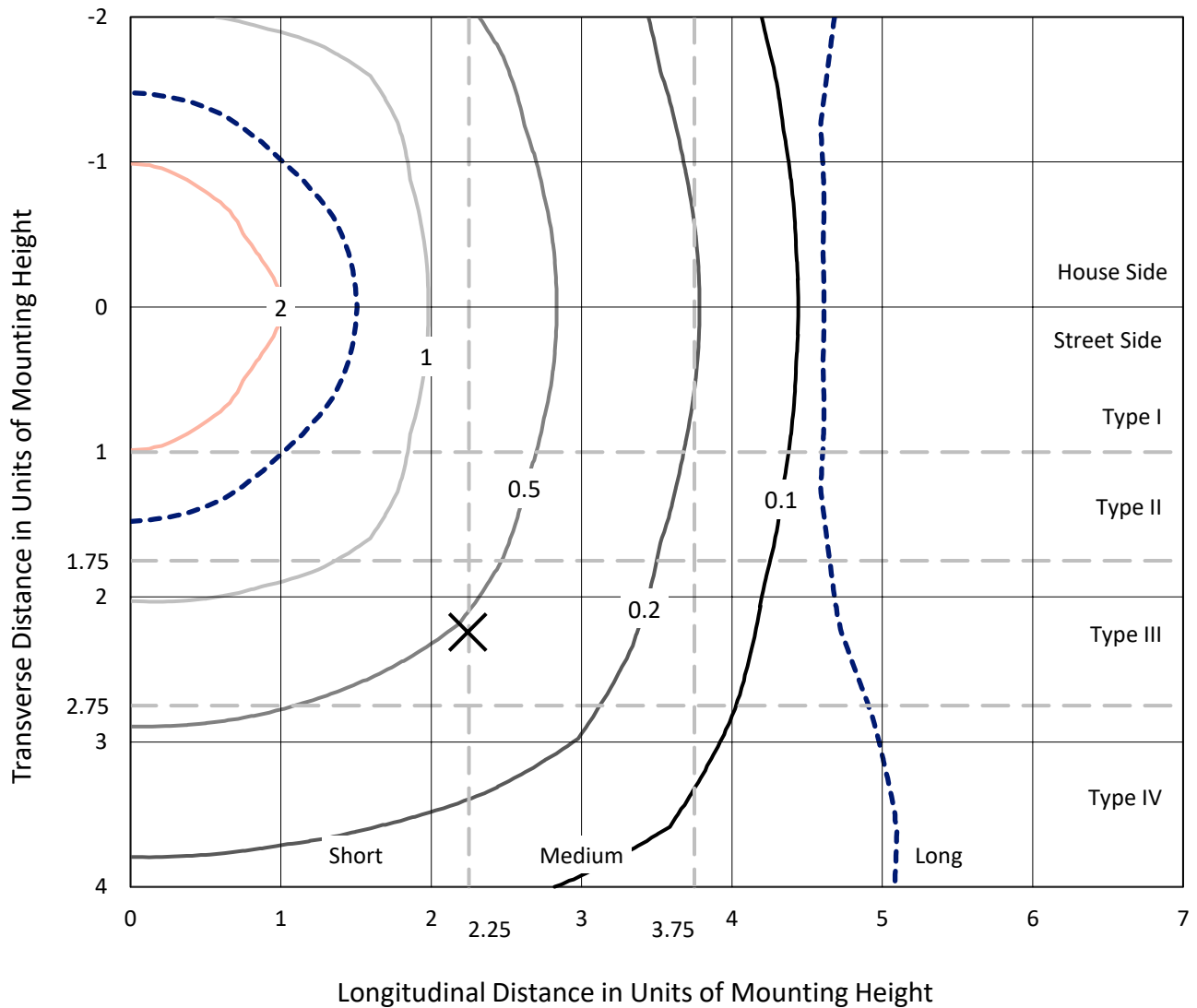
Input Watts (W): 273  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

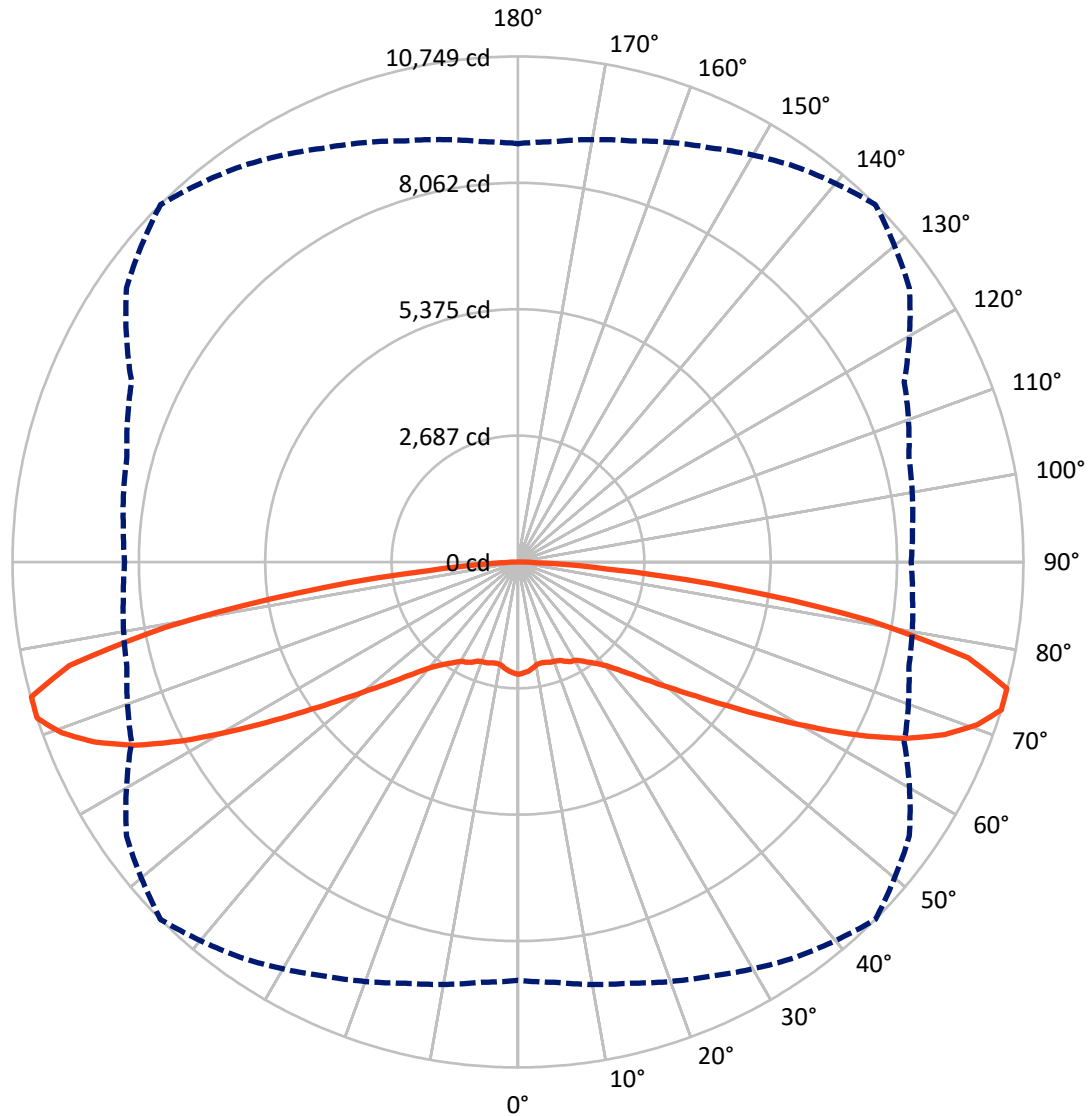
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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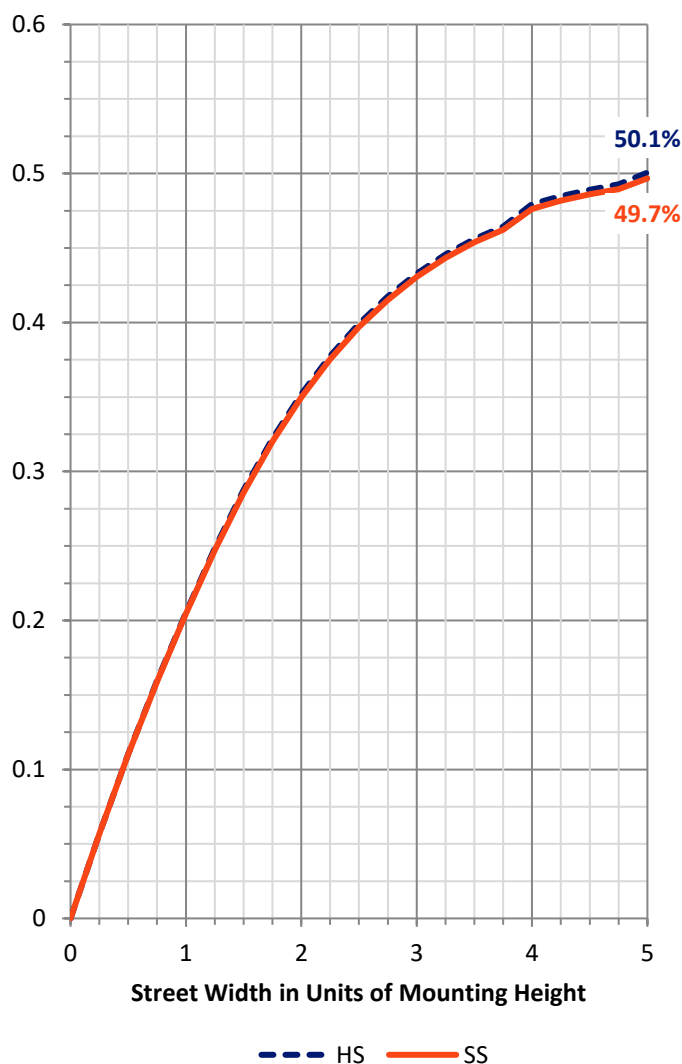
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14458.0	0.0	14458.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14458.0	0.0	14458.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28916.0	0.0	28916.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.4	0.8
10°-20°	636.9	2.2
20°-30°	1082.2	3.7
30°-40°	1650.7	5.7
40°-50°	2718.0	9.4
50°-60°	4746.4	16.4
60°-70°	7957.4	27.5
70°-80°	8516.1	29.5
80°-90°	1389.0	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°	28916.0	100.0
0°-180°	28916.0	100.0

**Coefficient of Utilization**

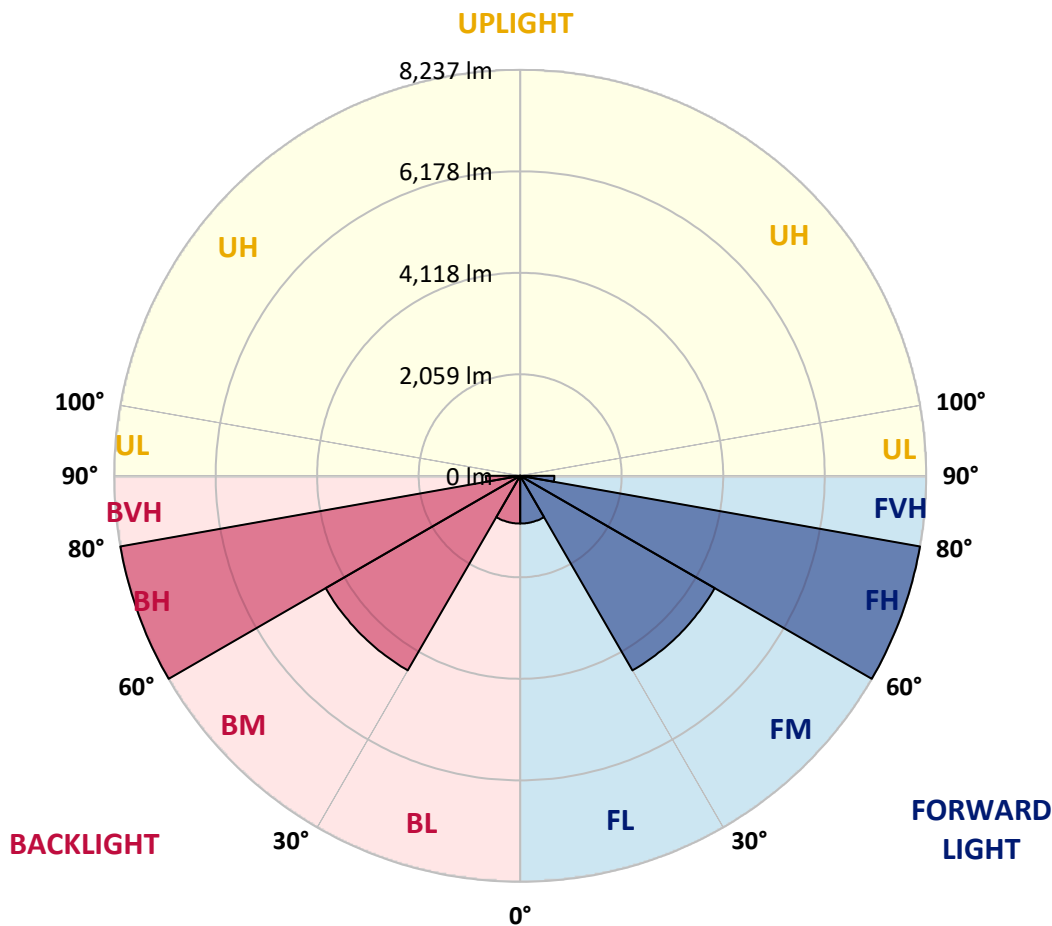


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.3	3.4			
FM (30°-60°)	4557.5	15.8			
FH (60°-80°)	8236.8	28.5			G4/12000
FVH (80°-90°)	694.5	2.4			G4/750
BL (0°-30°)	969.3	3.4	B2/1000		
BM (30°-60°)	4557.5	15.8	B3/5000		
BH (60°-80°)	8236.8	28.5	B5		G4/12000
BVH (80°-90°)	694.5	2.4			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8	2392.8
2.5°	2378.1	2378.1	2378.1	2374.4	2367.0	2363.3	2355.9	2359.6	2359.6	2359.6	2359.6
5°	2348.5	2348.5	2344.8	2341.1	2333.7	2330.1	2322.7	2330.1	2330.1	2330.1	2330.1
7.5°	2293.1	2296.8	2296.8	2293.1	2282.1	2278.4	2267.3	2271.0	2271.0	2274.7	2271.0
10°	2263.6	2263.6	2259.9	2241.4	2223.0	2215.6	2211.9	2223.0	2234.0	2245.1	2245.1
12.5°	2263.6	2263.6	2256.2	2226.7	2200.8	2200.8	2200.8	2215.6	2237.7	2259.9	2263.6
15°	2274.7	2274.7	2259.9	2226.7	2211.9	2215.6	2215.6	2230.4	2256.2	2285.7	2289.4
17.5°	2282.1	2282.1	2263.6	2230.4	2230.4	2241.4	2234.0	2245.1	2271.0	2304.2	2307.9
20°	2293.1	2293.1	2267.3	2241.4	2241.4	2252.5	2252.5	2263.6	2285.7	2319.0	2322.7
22.5°	2315.3	2311.6	2285.7	2263.6	2263.6	2271.0	2278.4	2293.1	2311.6	2341.1	2348.5
25°	2341.1	2341.1	2319.0	2315.3	2322.7	2341.1	2337.4	2333.7	2341.1	2367.0	2378.1
27.5°	2355.9	2355.9	2341.1	2352.2	2381.8	2396.5	2378.1	2363.3	2363.3	2389.1	2392.8
30°	2403.9	2400.2	2385.4	2392.8	2418.7	2426.1	2415.0	2396.5	2407.6	2437.1	2440.8
32.5°	2485.1	2485.1	2463.0	2463.0	2481.5	2511.0	2474.1	2463.0	2477.8	2511.0	2514.7
35°	2610.7	2610.7	2581.2	2566.4	2581.2	2621.8	2566.4	2562.7	2588.5	2625.5	2629.2
37.5°	2769.5	2769.5	2751.0	2714.1	2717.8	2743.6	2695.6	2691.9	2739.9	2780.6	2780.6
40°	2968.9	2980.0	2961.5	2917.2	2902.4	2906.1	2869.2	2872.9	2928.3	2976.3	2976.3
42.5°	3216.3	3223.7	3194.1	3160.9	3142.4	3131.4	3094.4	3101.8	3168.3	3231.1	3231.1
45°	3515.4	3519.1	3489.5	3448.9	3426.8	3419.4	3382.5	3400.9	3474.8	3541.2	3537.5
47.5°	3851.4	3855.1	3825.6	3785.0	3770.2	3781.3	3744.3	3744.3	3810.8	3866.2	3858.8
50°	4231.8	4239.2	4205.9	4187.5	4176.4	4205.9	4161.6	4121.0	4165.3	4220.7	4213.3
52.5°	4652.7	4671.2	4649.0	4656.4	4697.0	4734.0	4660.1	4571.5	4593.6	4630.6	4619.5
55°	5162.3	5184.5	5191.9	5217.7	5324.8	5387.6	5265.7	5118.0	5106.9	5110.6	5092.2
57.5°	5734.7	5749.4	5797.4	5856.5	6078.1	6177.8	5985.8	5731.0	5649.7	5601.7	5590.7
60°	6310.7	6336.6	6454.7	6576.6	6916.3	7097.3	6801.8	6373.5	6199.9	6111.3	6092.9
62.5°	6890.5	6942.2	7134.2	7341.0	7835.8	8105.3	7651.2	7030.8	6779.7	6668.9	6639.4
65°	7562.5	7625.3	7857.9	8120.1	8670.3	9050.7	8500.5	7710.2	7440.7	7293.0	7256.0
67.5°	8349.1	8415.5	8603.9	8895.6	9416.2	9789.2	9301.8	8404.5	8053.6	7865.3	7835.8
70°	8995.3	9054.4	9257.5	9552.9	9940.6	10365.2	9900.0	8958.3	8640.8	8507.8	8489.4
72.5°	8895.6	8973.1	9272.2	9715.3	10269.2	10749.3	10162.1	9065.4	8607.5	8422.9	8363.8
75°	7769.3	7854.2	8208.7	9010.0	10021.8	10738.2	9781.8	8352.8	7813.6	7658.5	7629.0
77.5°	5143.8	5225.1	5823.3	7086.2	8751.6	9785.5	8633.4	6997.6	6129.8	5756.8	5734.7
80°	2079.0	2182.4	2754.7	4095.1	6203.6	7606.8	6403.0	4479.2	3020.6	2437.1	2319.0
82.5°	483.7	576.1	838.2	1510.3	3175.7	4737.7	3452.6	1672.8	971.2	690.5	620.4
85°	203.1	206.8	358.2	491.1	993.3	1912.8	1129.9	609.3	494.8	361.9	354.5
87.5°	77.5	81.2	173.6	206.8	317.6	361.9	384.0	313.9	291.7	180.9	173.6
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)