

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: P400388

Luminaire Tested: **ARCH-L-PA3-270-827-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400388  
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-PA3-270-827-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 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: 26750 lumens  
Efficiency: N/A  
Efficacy: 98.0 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

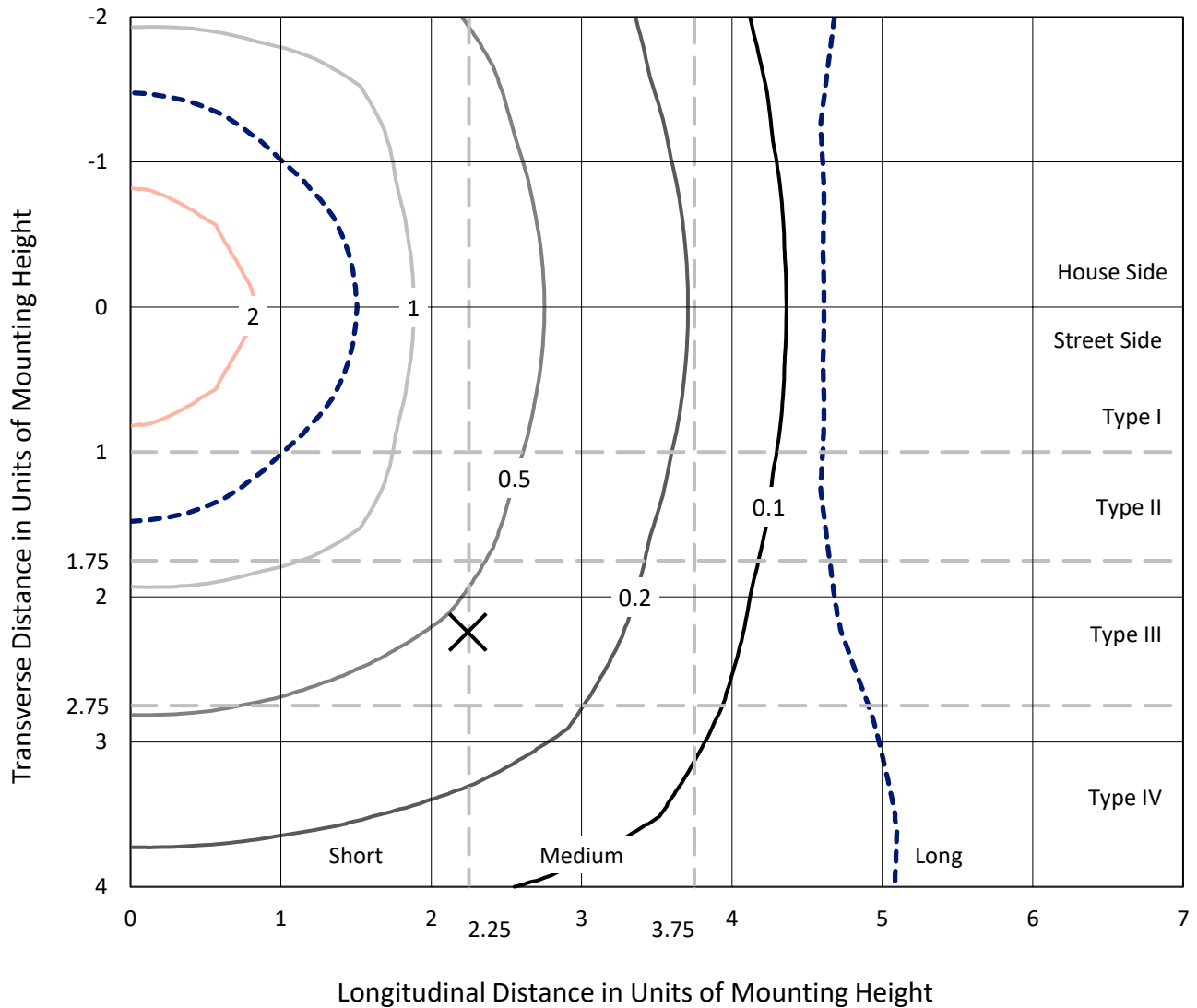
Input Watts (W): 273  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

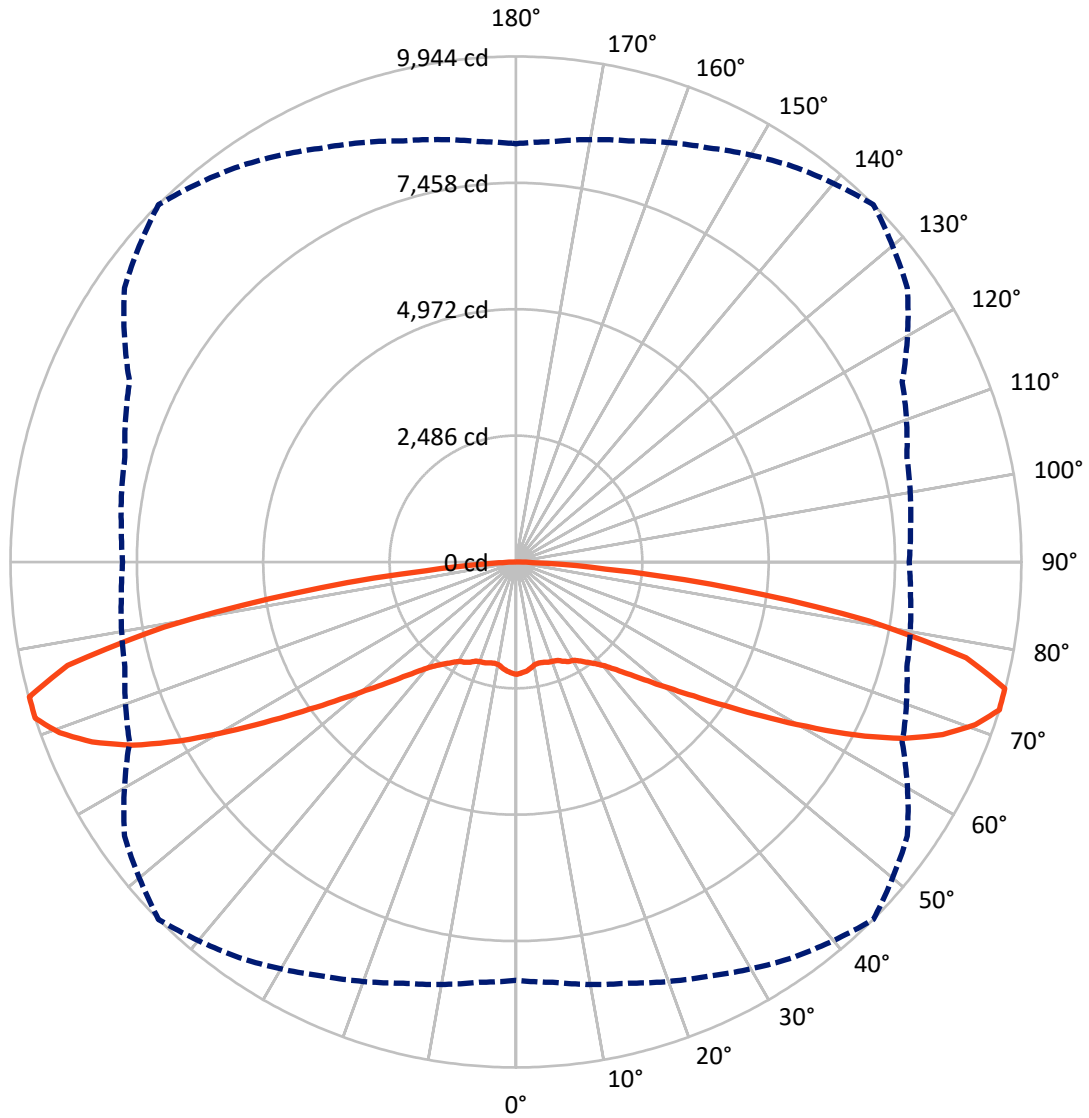
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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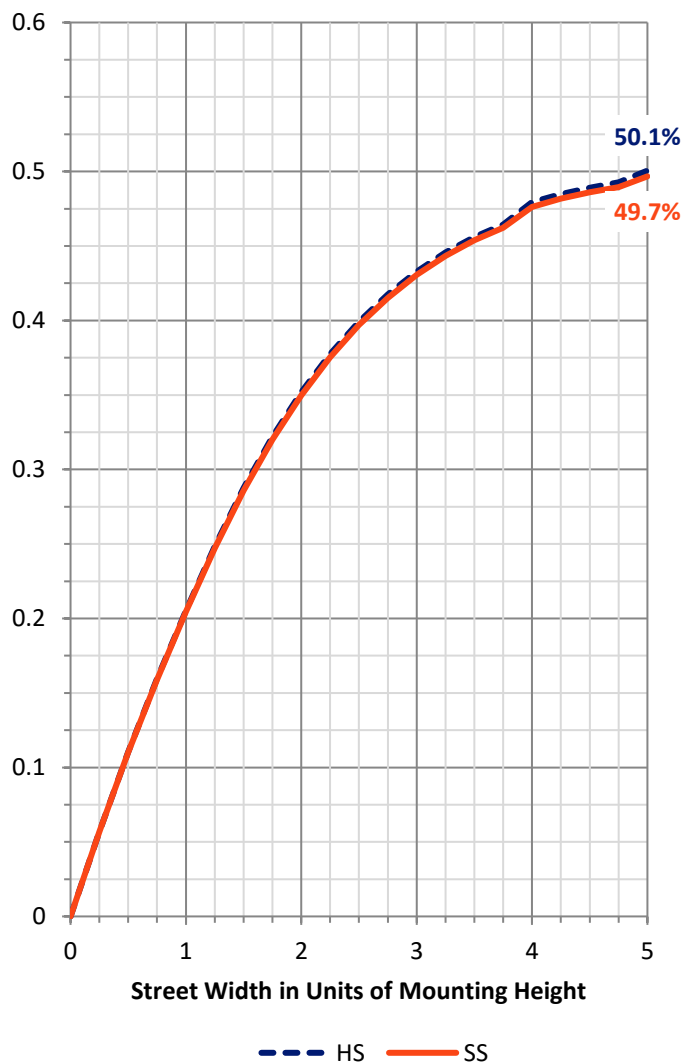
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13375.0	0.0	13375.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13375.0	0.0	13375.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26750.0	0.0	26750.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.0	0.8
10°-20°	589.2	2.2
20°-30°	1001.1	3.7
30°-40°	1527.0	5.7
40°-50°	2514.4	9.4
50°-60°	4390.8	16.4
60°-70°	7361.4	27.5
70°-80°	7878.2	29.5
80°-90°	1284.9	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°	26750.0	100.0
0°-180°	26750.0	100.0



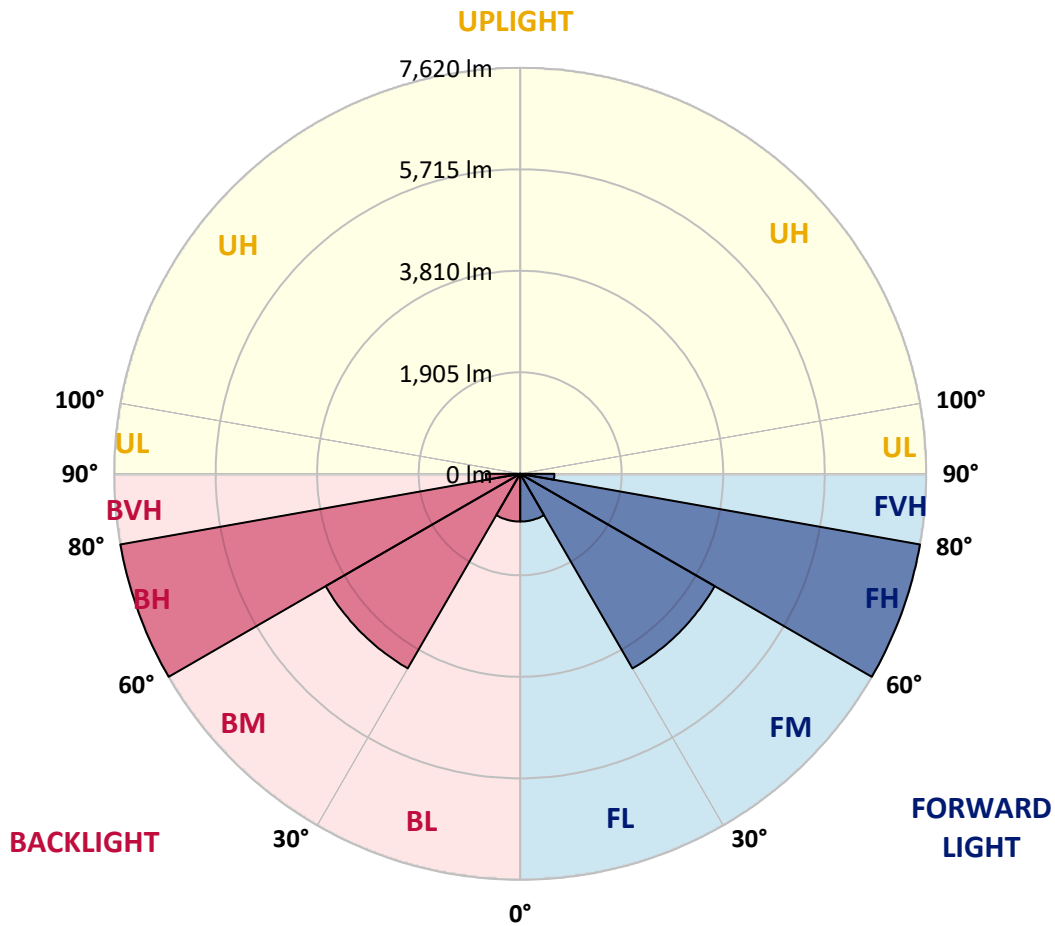
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	896.7	3.4			
FM (30°-60°)	4216.1	15.8			
FH (60°-80°)	7619.8	28.5			G4/12000
FVH (80°-90°)	642.5	2.4			G4/750
BL (0°-30°)	896.7	3.4	B2/1000		
BM (30°-60°)	4216.1	15.8	B3/5000		
BH (60°-80°)	7619.8	28.5	B5		G4/12000
BVH (80°-90°)	642.5	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°	2213.6	2213.6	2213.6	2213.6	2213.6	2213.6	2213.6	2213.6	2213.6	2213.6	2213.6
2.5°	2199.9	2199.9	2199.9	2196.5	2189.7	2186.3	2179.4	2182.8	2182.8	2182.8	2182.8
5°	2172.6	2172.6	2169.2	2165.8	2158.9	2155.5	2148.7	2155.5	2155.5	2155.5	2155.5
7.5°	2121.4	2124.8	2124.8	2121.4	2111.1	2107.7	2097.4	2100.9	2100.9	2104.3	2100.9
10°	2094.0	2094.0	2090.6	2073.5	2056.5	2049.6	2046.2	2056.5	2066.7	2077.0	2077.0
12.5°	2094.0	2094.0	2087.2	2059.9	2036.0	2036.0	2036.0	2049.6	2070.1	2090.6	2094.0
15°	2104.3	2104.3	2090.6	2059.9	2046.2	2049.6	2049.6	2063.3	2087.2	2114.5	2117.9
17.5°	2111.1	2111.1	2094.0	2063.3	2063.3	2073.5	2066.7	2077.0	2100.9	2131.6	2135.0
20°	2121.4	2121.4	2097.4	2073.5	2073.5	2083.8	2083.8	2094.0	2114.5	2145.3	2148.7
22.5°	2141.9	2138.4	2114.5	2094.0	2094.0	2100.9	2107.7	2121.4	2138.4	2165.8	2172.6
25°	2165.8	2165.8	2145.3	2141.9	2148.7	2165.8	2162.4	2158.9	2165.8	2189.7	2199.9
27.5°	2179.4	2179.4	2165.8	2176.0	2203.3	2217.0	2199.9	2186.3	2186.3	2210.2	2213.6
30°	2223.8	2220.4	2206.8	2213.6	2237.5	2244.3	2234.1	2217.0	2227.3	2254.6	2258.0
32.5°	2299.0	2299.0	2278.5	2278.5	2295.6	2322.9	2288.7	2278.5	2292.2	2322.9	2326.3
35°	2415.1	2415.1	2387.8	2374.1	2387.8	2425.4	2374.1	2370.7	2394.6	2428.8	2432.2
37.5°	2562.0	2562.0	2544.9	2510.8	2514.2	2538.1	2493.7	2490.3	2534.7	2572.3	2572.3
40°	2746.5	2756.7	2739.7	2698.7	2685.0	2688.4	2654.3	2657.7	2708.9	2753.3	2753.3
42.5°	2975.4	2982.2	2954.9	2924.1	2907.0	2896.8	2862.6	2869.5	2931.0	2989.0	2989.0
45°	3252.1	3255.5	3228.2	3190.6	3170.1	3163.3	3129.1	3146.2	3214.5	3276.0	3272.6
47.5°	3562.9	3566.3	3539.0	3501.4	3487.8	3498.0	3463.9	3463.9	3525.4	3576.6	3569.8
50°	3914.8	3921.6	3890.9	3873.8	3863.5	3890.9	3849.9	3812.3	3853.3	3904.5	3897.7
52.5°	4304.2	4321.3	4300.8	4307.6	4345.2	4379.4	4311.0	4229.1	4249.6	4283.7	4273.5
55°	4775.6	4796.1	4802.9	4826.9	4925.9	4984.0	4871.3	4734.6	4724.4	4727.8	4710.7
57.5°	5305.1	5318.8	5363.2	5417.8	5622.8	5715.0	5537.4	5301.7	5226.5	5182.1	5171.9
60°	5838.0	5861.9	5971.2	6084.0	6398.2	6565.6	6292.3	5896.1	5735.5	5653.5	5636.5
62.5°	6374.3	6422.2	6599.8	6791.1	7248.8	7498.2	7078.0	6504.1	6271.8	6169.4	6142.0
65°	6996.0	7054.1	7269.3	7511.9	8020.9	8372.7	7863.7	7132.7	6883.3	6746.7	6712.5
67.5°	7723.7	7785.1	7959.4	8229.2	8710.9	9055.9	8605.0	7774.9	7450.4	7276.2	7248.8
70°	8321.5	8376.1	8564.0	8837.3	9196.0	9588.8	9158.4	8287.3	7993.5	7870.6	7853.5
72.5°	8229.2	8301.0	8577.7	8987.6	9500.0	9944.1	9400.9	8386.4	7962.8	7792.0	7737.3
75°	7187.3	7265.9	7593.9	8335.1	9271.1	9933.8	9049.1	7727.1	7228.3	7084.9	7057.5
77.5°	4758.5	4833.7	5387.1	6555.4	8096.0	9052.5	7986.7	6473.4	5670.6	5325.6	5305.1
80°	1923.2	2018.9	2548.4	3788.4	5738.9	7037.0	5923.4	4143.7	2794.3	2254.6	2145.3
82.5°	447.5	532.9	775.4	1397.2	2937.8	4382.8	3194.0	1547.5	898.4	638.8	573.9
85°	187.9	191.3	331.4	454.3	918.9	1769.5	1045.3	563.6	457.7	334.8	327.9
87.5°	71.7	75.2	160.6	191.3	293.8	334.8	355.3	290.4	269.9	167.4	160.6
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)