

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: P400460

Luminaire Tested: **ARCH-L-PA3-280-827-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400460  
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-PA3-280-827-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27147 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

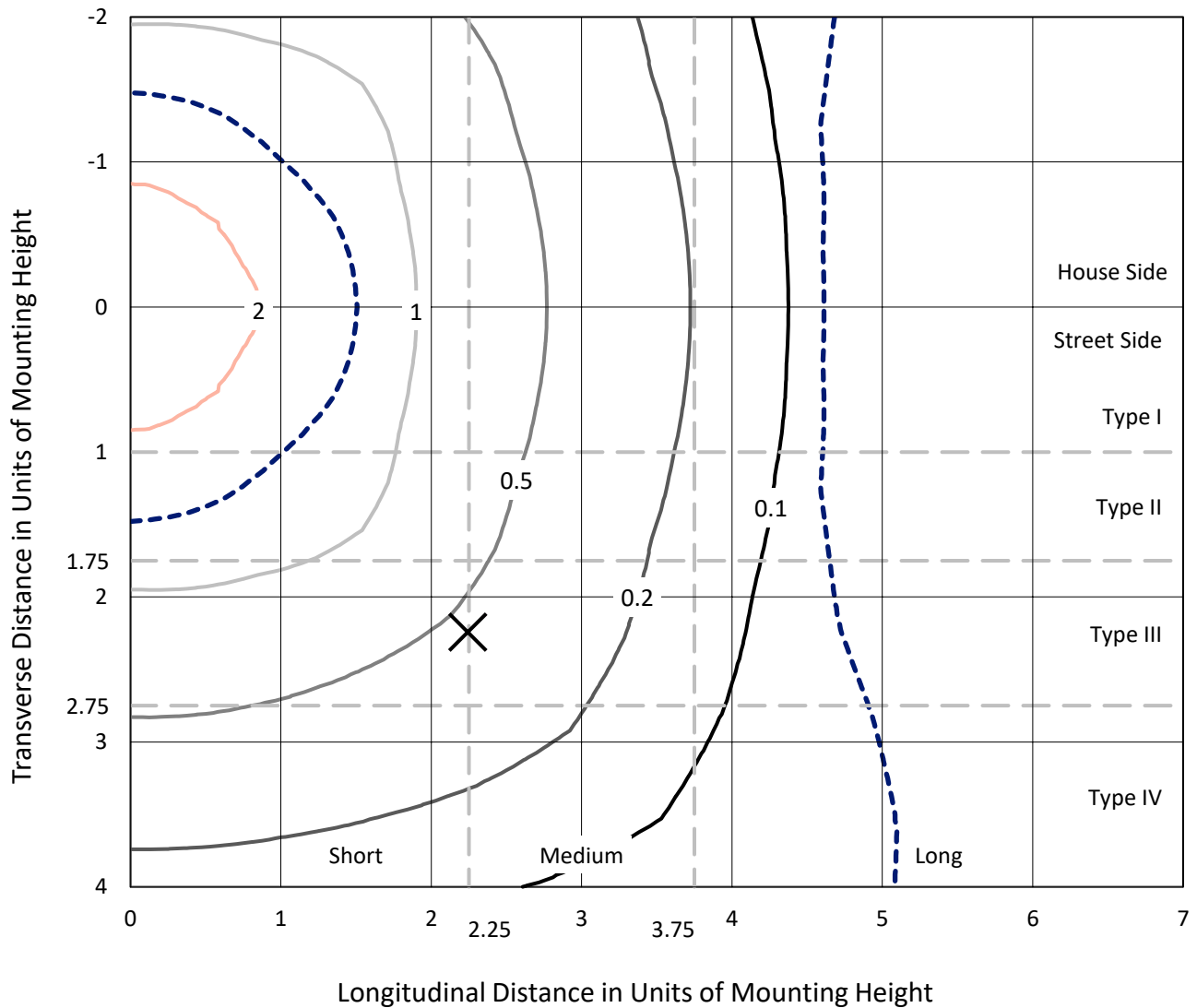
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

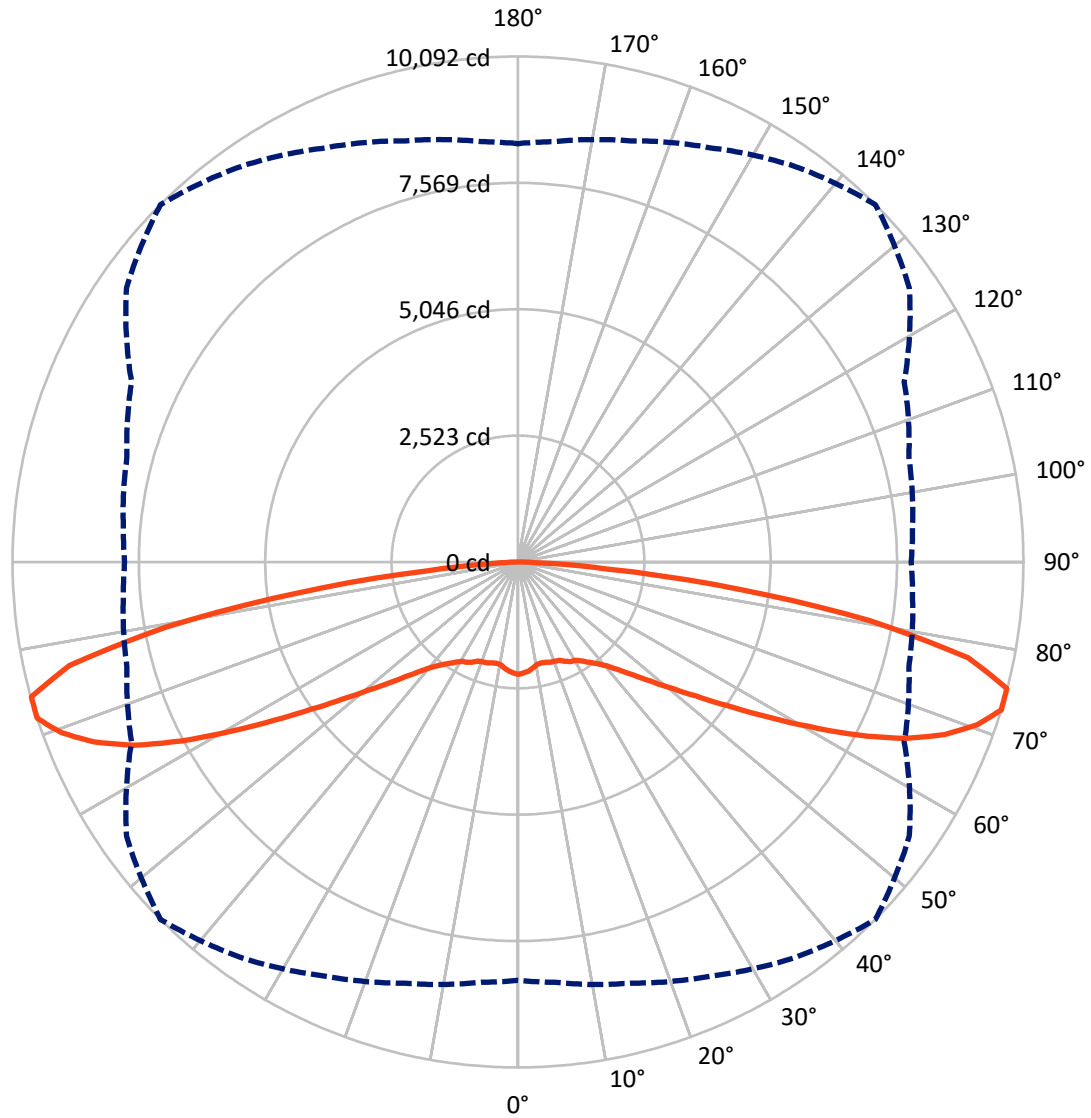
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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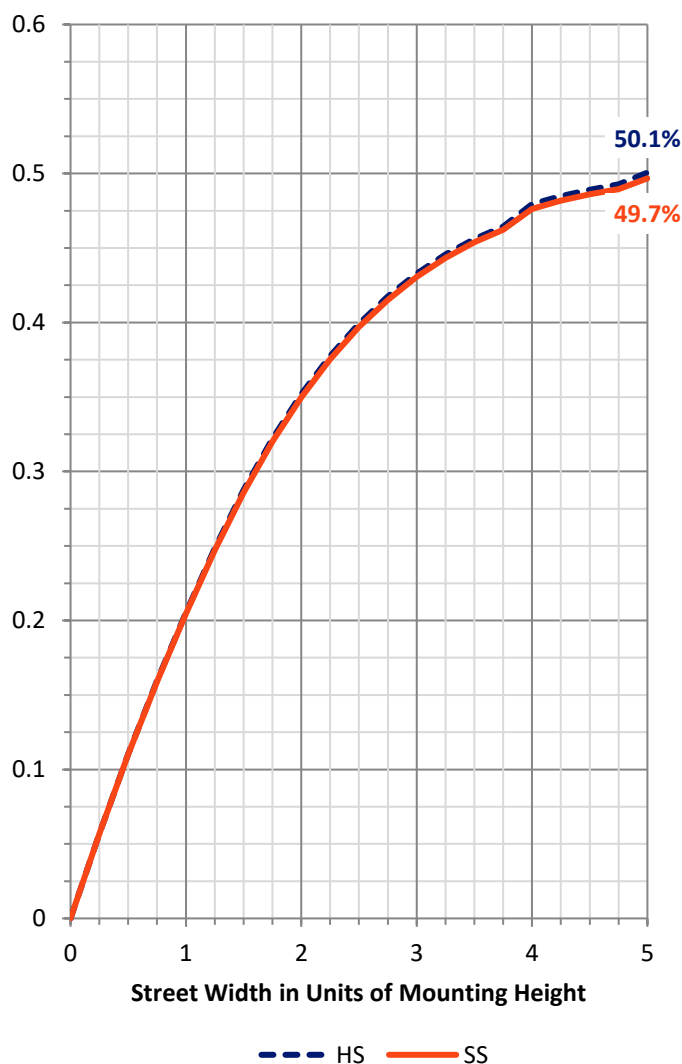
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13573.5	0.0	13573.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13573.5	0.0	13573.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27147.0	0.0	27147.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.0	0.8
10°-20°	597.9	2.2
20°-30°	1016.0	3.7
30°-40°	1549.7	5.7
40°-50°	2551.7	9.4
50°-60°	4456.0	16.4
60°-70°	7470.6	27.5
70°-80°	7995.1	29.5
80°-90°	1304.0	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°	27147.0	100.0
0°-180°	27147.0	100.0

**Coefficient of Utilization**



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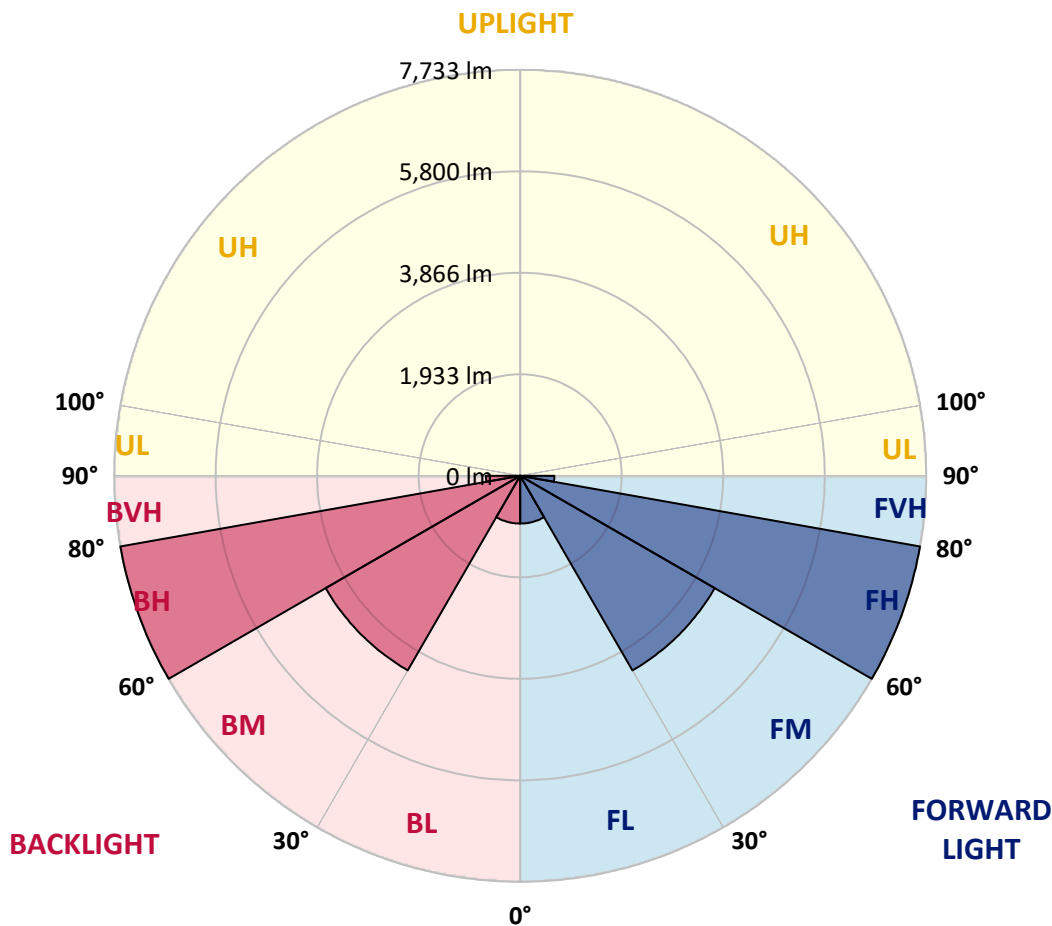
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.0	3.4			
FM (30°-60°)	4278.7	15.8			
FH (60°-80°)	7732.9	28.5			G4/12000
FVH (80°-90°)	652.0	2.4			G4/750
BL (0°-30°)	910.0	3.4	B2/1000		
BM (30°-60°)	4278.7	15.8	B3/5000		
BH (60°-80°)	7732.9	28.5	B5		G4/12000
BVH (80°-90°)	652.0	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°	2246.4	2246.4	2246.4	2246.4	2246.4	2246.4	2246.4	2246.4	2246.4	2246.4	2246.4
2.5°	2232.6	2232.6	2232.6	2229.1	2222.2	2218.7	2211.8	2215.2	2215.2	2215.2	2215.2
5°	2204.8	2204.8	2201.4	2197.9	2191.0	2187.5	2180.6	2187.5	2187.5	2187.5	2187.5
7.5°	2152.8	2156.3	2156.3	2152.8	2142.4	2139.0	2128.6	2132.0	2132.0	2135.5	2132.0
10°	2125.1	2125.1	2121.6	2104.3	2087.0	2080.0	2076.6	2087.0	2097.4	2107.8	2107.8
12.5°	2125.1	2125.1	2118.2	2090.4	2066.2	2066.2	2066.2	2080.0	2100.8	2121.6	2125.1
15°	2135.5	2135.5	2121.6	2090.4	2076.6	2080.0	2080.0	2093.9	2118.2	2145.9	2149.4
17.5°	2142.4	2142.4	2125.1	2093.9	2093.9	2104.3	2097.4	2107.8	2132.0	2163.2	2166.7
20°	2152.8	2152.8	2128.6	2104.3	2104.3	2114.7	2114.7	2125.1	2145.9	2177.1	2180.6
22.5°	2173.6	2170.2	2145.9	2125.1	2125.1	2132.0	2139.0	2152.8	2170.2	2197.9	2204.8
25°	2197.9	2197.9	2177.1	2173.6	2180.6	2197.9	2194.4	2191.0	2197.9	2222.2	2232.6
27.5°	2211.8	2211.8	2197.9	2208.3	2236.0	2249.9	2232.6	2218.7	2218.7	2243.0	2246.4
30°	2256.8	2253.4	2239.5	2246.4	2270.7	2277.6	2267.2	2249.9	2260.3	2288.0	2291.5
32.5°	2333.1	2333.1	2312.3	2312.3	2329.6	2357.4	2322.7	2312.3	2326.2	2357.4	2360.8
35°	2451.0	2451.0	2423.2	2409.4	2423.2	2461.4	2409.4	2405.9	2430.2	2464.8	2468.3
37.5°	2600.1	2600.1	2582.7	2548.1	2551.5	2575.8	2530.7	2527.2	2572.3	2610.5	2610.5
40°	2787.3	2797.7	2780.3	2738.7	2724.9	2728.3	2693.7	2697.1	2749.1	2794.2	2794.2
42.5°	3019.5	3026.5	2998.7	2967.5	2950.2	2939.8	2905.1	2912.1	2974.5	3033.4	3033.4
45°	3300.3	3303.8	3276.1	3237.9	3217.1	3210.2	3175.5	3192.9	3262.2	3324.6	3321.1
47.5°	3615.8	3619.3	3591.5	3553.4	3539.5	3549.9	3515.3	3515.3	3577.7	3629.7	3622.7
50°	3972.9	3979.8	3948.6	3931.3	3920.9	3948.6	3907.0	3868.9	3910.5	3962.5	3955.5
52.5°	4368.1	4385.4	4364.6	4371.6	4409.7	4444.4	4375.0	4291.8	4312.6	4347.3	4336.9
55°	4846.5	4867.3	4874.2	4898.5	4999.0	5058.0	4943.6	4804.9	4794.5	4798.0	4780.6
57.5°	5383.8	5397.7	5442.8	5498.2	5706.2	5799.8	5619.6	5380.4	5304.1	5259.0	5248.6
60°	5924.7	5948.9	6059.9	6174.3	6493.2	6663.1	6385.7	5983.6	5820.6	5737.4	5720.1
62.5°	6468.9	6517.5	6697.7	6891.9	7356.4	7609.5	7183.1	6600.7	6364.9	6260.9	6233.2
65°	7099.9	7158.8	7377.2	7623.4	8139.9	8497.0	7980.4	7238.5	6985.5	6846.8	6812.1
67.5°	7838.3	7900.7	8077.5	8351.4	8840.2	9190.3	8732.7	7890.3	7560.9	7384.1	7356.4
70°	8445.0	8500.4	8691.1	8968.4	9332.5	9731.1	9294.3	8410.3	8112.2	7987.4	7970.0
72.5°	8351.4	8424.2	8705.0	9121.0	9641.0	10091.7	9540.5	8510.8	8081.0	7907.6	7852.2
75°	7294.0	7373.7	7706.6	8458.8	9408.7	10081.3	9183.4	7841.8	7335.6	7190.0	7162.3
77.5°	4829.2	4905.4	5467.0	6652.7	8216.2	9186.8	8105.2	6569.5	5754.8	5404.6	5383.8
80°	1951.8	2048.8	2586.2	3844.6	5824.1	7141.5	6011.3	4205.1	2835.8	2288.0	2177.1
82.5°	454.1	540.8	786.9	1417.9	2981.4	4447.8	3241.4	1570.4	911.8	648.3	582.4
85°	190.7	194.1	336.3	461.1	932.6	1795.8	1060.8	572.0	464.5	339.7	332.8
87.5°	72.8	76.3	162.9	194.1	298.1	339.7	360.5	294.7	273.9	169.9	162.9
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)