

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: P399785

Luminaire Tested: **ARCH-L-PA3-190-740-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399785  
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-PA3-190-740-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28535 lumens  
Efficiency: N/A  
Efficacy: 151.0 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

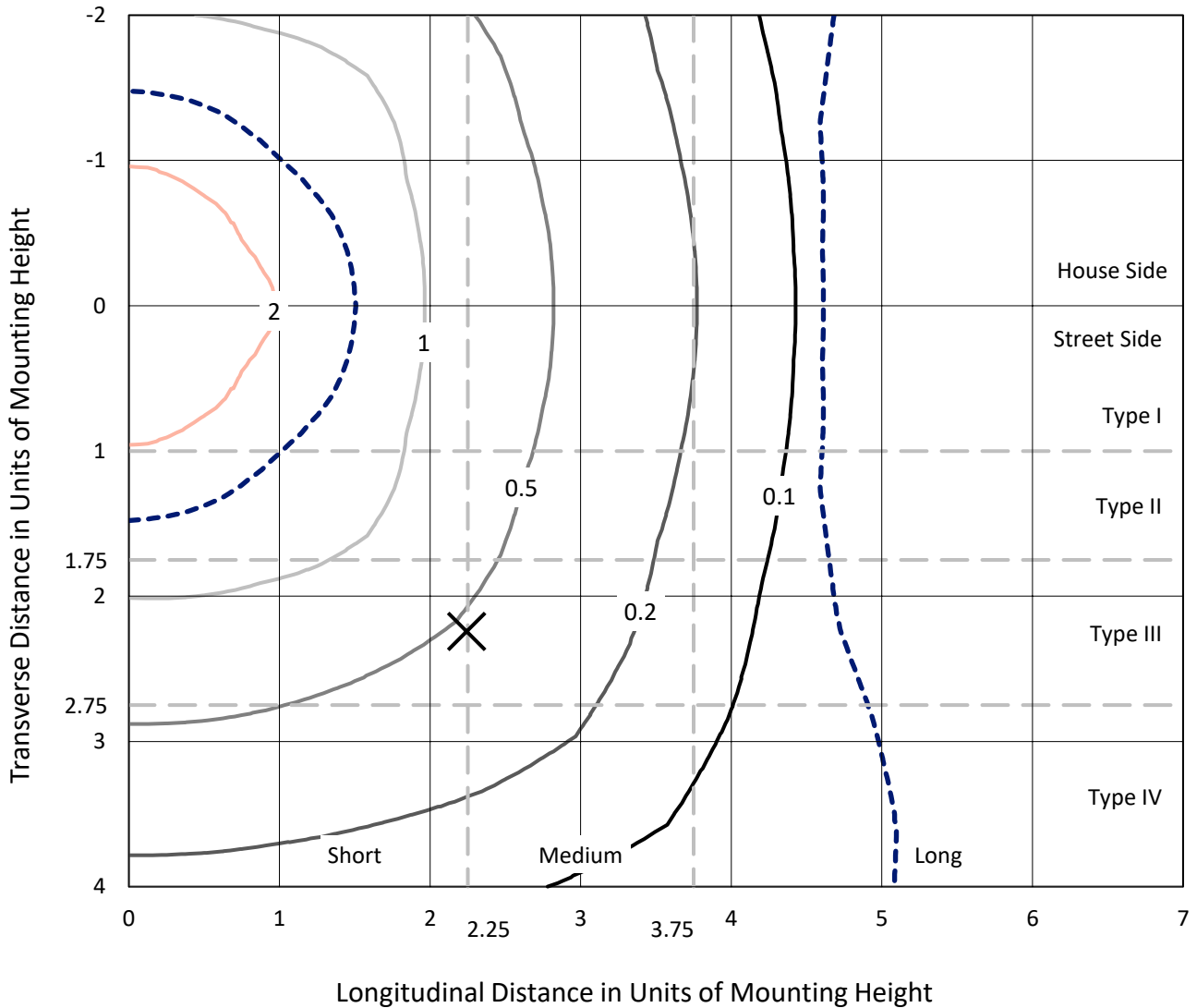
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

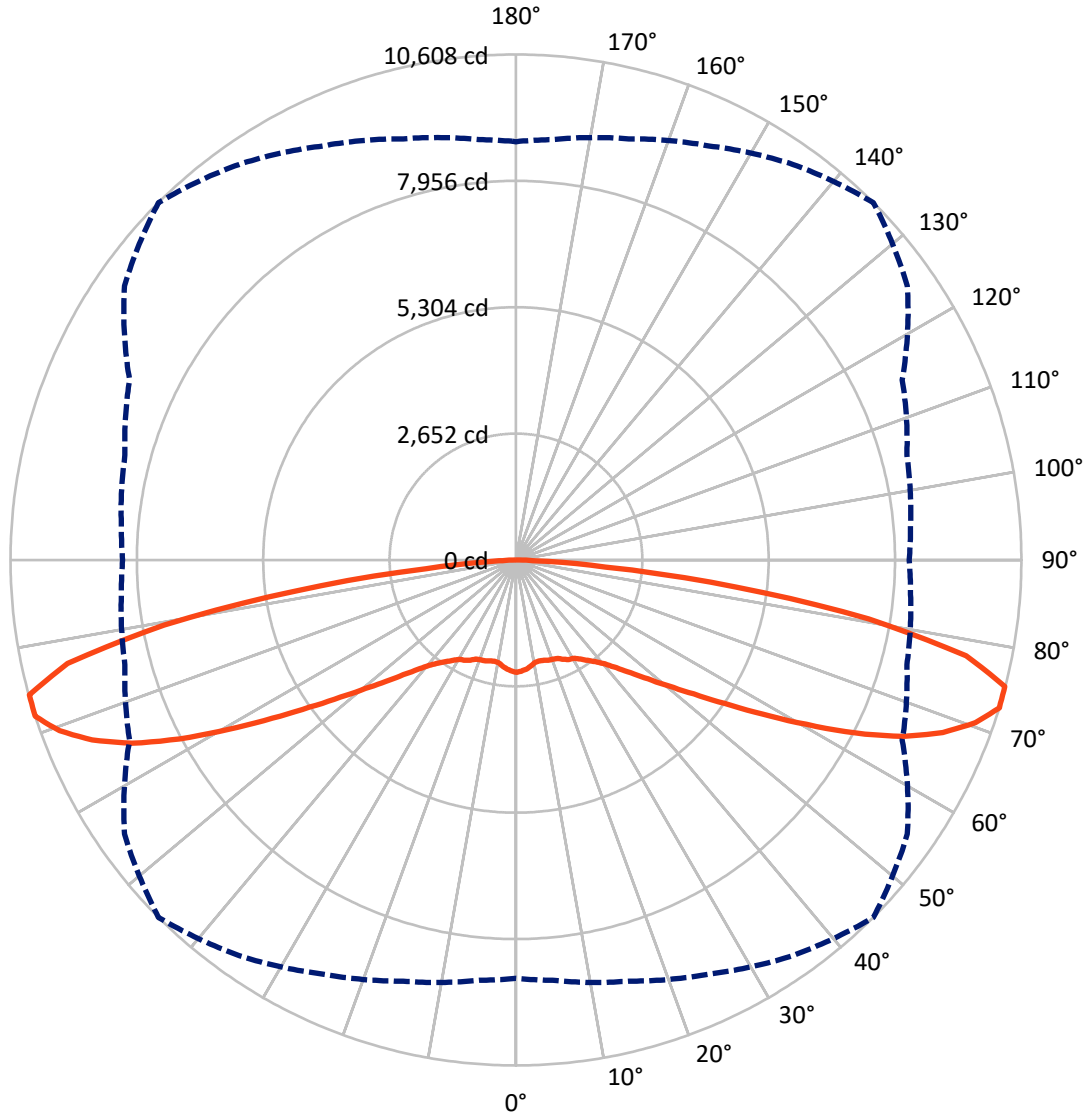
✕ Max cd  
 - - - 1/2 Max cd



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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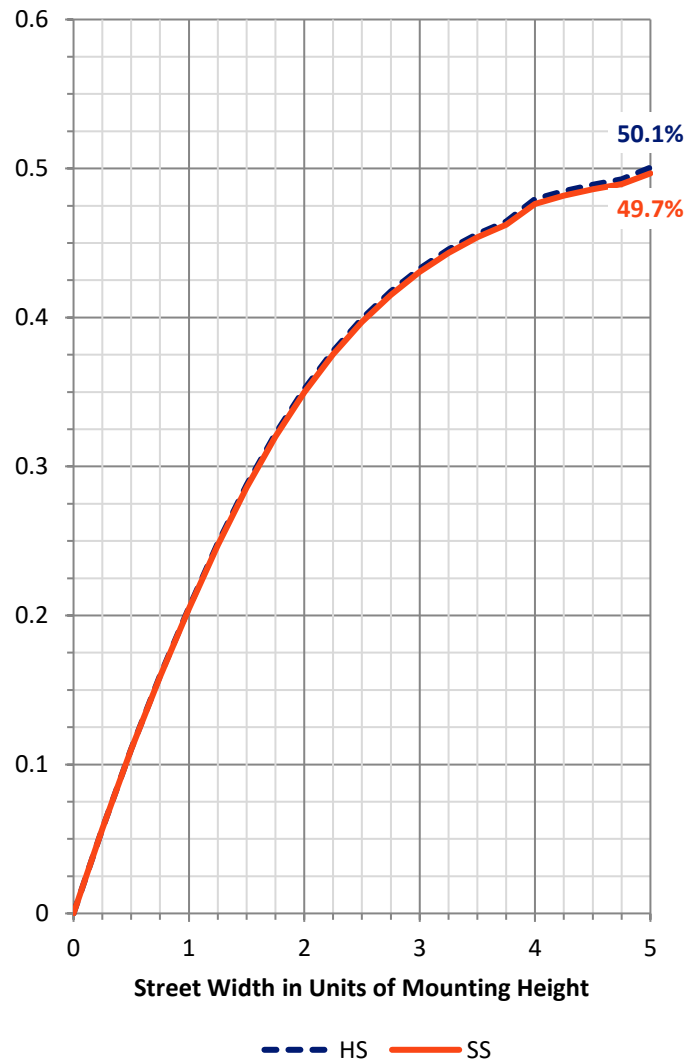
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14267.5	0.0	14267.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14267.5	0.0	14267.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28535.0	0.0	28535.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.5	0.8
10°-20°	628.5	2.2
20°-30°	1067.9	3.7
30°-40°	1628.9	5.7
40°-50°	2682.2	9.4
50°-60°	4683.9	16.4
60°-70°	7852.6	27.5
70°-80°	8403.9	29.5
80°-90°	1370.7	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°	28535.0	100.0
0°-180°	28535.0	100.0

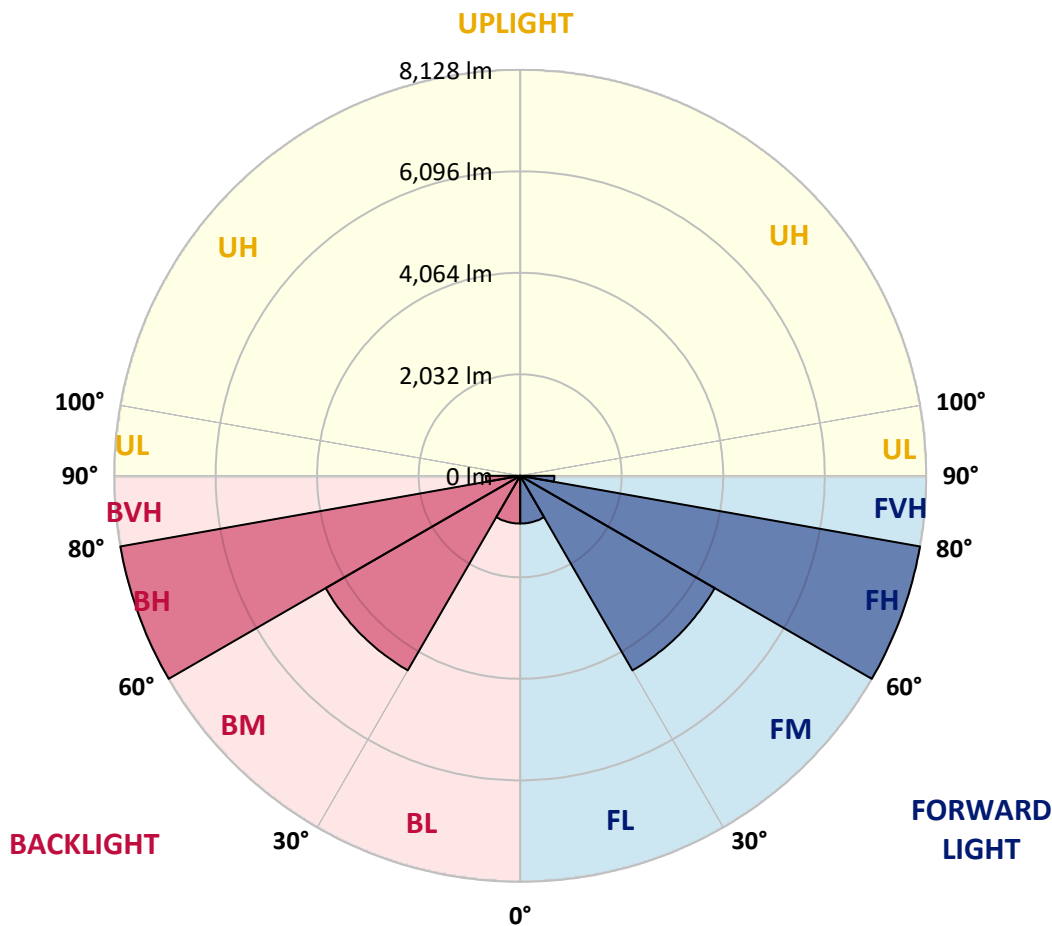


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.5	3.4			
FM (30°-60°)	4497.5	15.8			
FH (60°-80°)	8128.2	28.5			G4/12000
FVH (80°-90°)	685.3	2.4			G4/750
BL (0°-30°)	956.5	3.4	B2/1000		
BM (30°-60°)	4497.5	15.8	B3/5000		
BH (60°-80°)	8128.2	28.5	B5		G4/12000
BVH (80°-90°)	685.3	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°	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3
2.5°	2346.7	2346.7	2346.7	2343.1	2335.8	2332.2	2324.9	2328.5	2328.5	2328.5	2328.5
5°	2317.6	2317.6	2313.9	2310.3	2303.0	2299.4	2292.1	2299.4	2299.4	2299.4	2299.4
7.5°	2262.9	2266.6	2266.6	2262.9	2252.0	2248.3	2237.4	2241.1	2241.1	2244.7	2241.1
10°	2233.8	2233.8	2230.1	2211.9	2193.7	2186.4	2182.7	2193.7	2204.6	2215.5	2215.5
12.5°	2233.8	2233.8	2226.5	2197.3	2171.8	2171.8	2171.8	2186.4	2208.3	2230.1	2233.8
15°	2244.7	2244.7	2230.1	2197.3	2182.7	2186.4	2186.4	2201.0	2226.5	2255.6	2259.3
17.5°	2252.0	2252.0	2233.8	2201.0	2201.0	2211.9	2204.6	2215.5	2241.1	2273.8	2277.5
20°	2262.9	2262.9	2237.4	2211.9	2211.9	2222.8	2222.8	2233.8	2255.6	2288.4	2292.1
22.5°	2284.8	2281.1	2255.6	2233.8	2233.8	2241.1	2248.3	2262.9	2281.1	2310.3	2317.6
25°	2310.3	2310.3	2288.4	2284.8	2292.1	2310.3	2306.6	2303.0	2310.3	2335.8	2346.7
27.5°	2324.9	2324.9	2310.3	2321.2	2350.4	2364.9	2346.7	2332.2	2332.2	2357.7	2361.3
30°	2372.2	2368.6	2354.0	2361.3	2386.8	2394.1	2383.2	2364.9	2375.9	2405.0	2408.7
32.5°	2452.4	2452.4	2430.5	2430.5	2448.8	2477.9	2441.5	2430.5	2445.1	2477.9	2481.6
35°	2576.3	2576.3	2547.1	2532.6	2547.1	2587.2	2532.6	2528.9	2554.4	2590.9	2594.5
37.5°	2733.0	2733.0	2714.8	2678.3	2682.0	2707.5	2660.1	2656.5	2703.8	2743.9	2743.9
40°	2929.8	2940.7	2922.5	2878.7	2864.2	2867.8	2831.4	2835.0	2889.7	2937.1	2937.1
42.5°	3173.9	3181.2	3152.0	3119.3	3101.0	3090.1	3053.7	3060.9	3126.5	3188.5	3188.5
45°	3469.1	3472.7	3443.6	3403.5	3381.6	3374.3	3337.9	3356.1	3429.0	3494.6	3490.9
47.5°	3800.7	3804.3	3775.2	3735.1	3720.5	3731.4	3695.0	3695.0	3760.6	3815.3	3808.0
50°	4176.0	4183.3	4150.5	4132.3	4121.3	4150.5	4106.8	4066.7	4110.4	4165.1	4157.8
52.5°	4591.4	4609.6	4587.8	4595.1	4635.2	4671.6	4598.7	4511.3	4533.1	4569.6	4558.6
55°	5094.3	5116.2	5123.4	5149.0	5254.6	5316.6	5196.3	5050.6	5039.6	5043.3	5025.1
57.5°	5659.1	5673.7	5721.1	5779.4	5998.0	6096.4	5906.9	5655.5	5575.3	5527.9	5517.0
60°	6227.6	6253.1	6369.7	6489.9	6825.2	7003.7	6712.2	6289.5	6118.3	6030.8	6012.6
62.5°	6799.7	6850.7	7040.2	7244.2	7732.5	7998.5	7550.3	6938.1	6690.4	6581.0	6551.9
65°	7462.9	7524.8	7754.4	8013.1	8556.1	8931.4	8388.5	7608.6	7342.6	7196.9	7160.4
67.5°	8239.1	8304.6	8490.5	8778.4	9292.2	9660.2	9179.2	8293.7	7947.5	7761.7	7732.5
70°	8876.8	8935.1	9135.5	9427.0	9809.6	10228.7	9769.5	8840.3	8526.9	8395.7	8377.5
72.5°	8778.4	8854.9	9150.0	9587.3	10133.9	10607.6	10028.2	8946.0	8494.1	8311.9	8253.6
75°	7666.9	7750.8	8100.6	8891.3	9889.8	10596.7	9652.9	8242.7	7710.7	7557.6	7528.5
77.5°	5076.1	5156.2	5746.6	6992.8	8636.2	9656.6	8519.6	6905.4	6049.0	5681.0	5659.1
80°	2051.6	2153.6	2718.4	4041.2	6121.9	7506.6	6318.7	4420.2	2980.8	2405.0	2288.4
82.5°	477.4	568.5	827.2	1490.4	3133.8	4675.2	3407.1	1650.7	958.4	681.4	612.2
85°	200.4	204.1	353.5	484.7	980.2	1887.6	1115.1	601.3	488.3	357.1	349.8
87.5°	76.5	80.2	171.3	204.1	313.4	357.1	379.0	309.7	287.9	178.6	171.3
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)