

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: P400127

Luminaire Tested: **ARCH-L-PA3-240-727-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400127  
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-PA3-240-727-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28285 lumens  
Efficiency: N/A  
Efficacy: 116.9 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

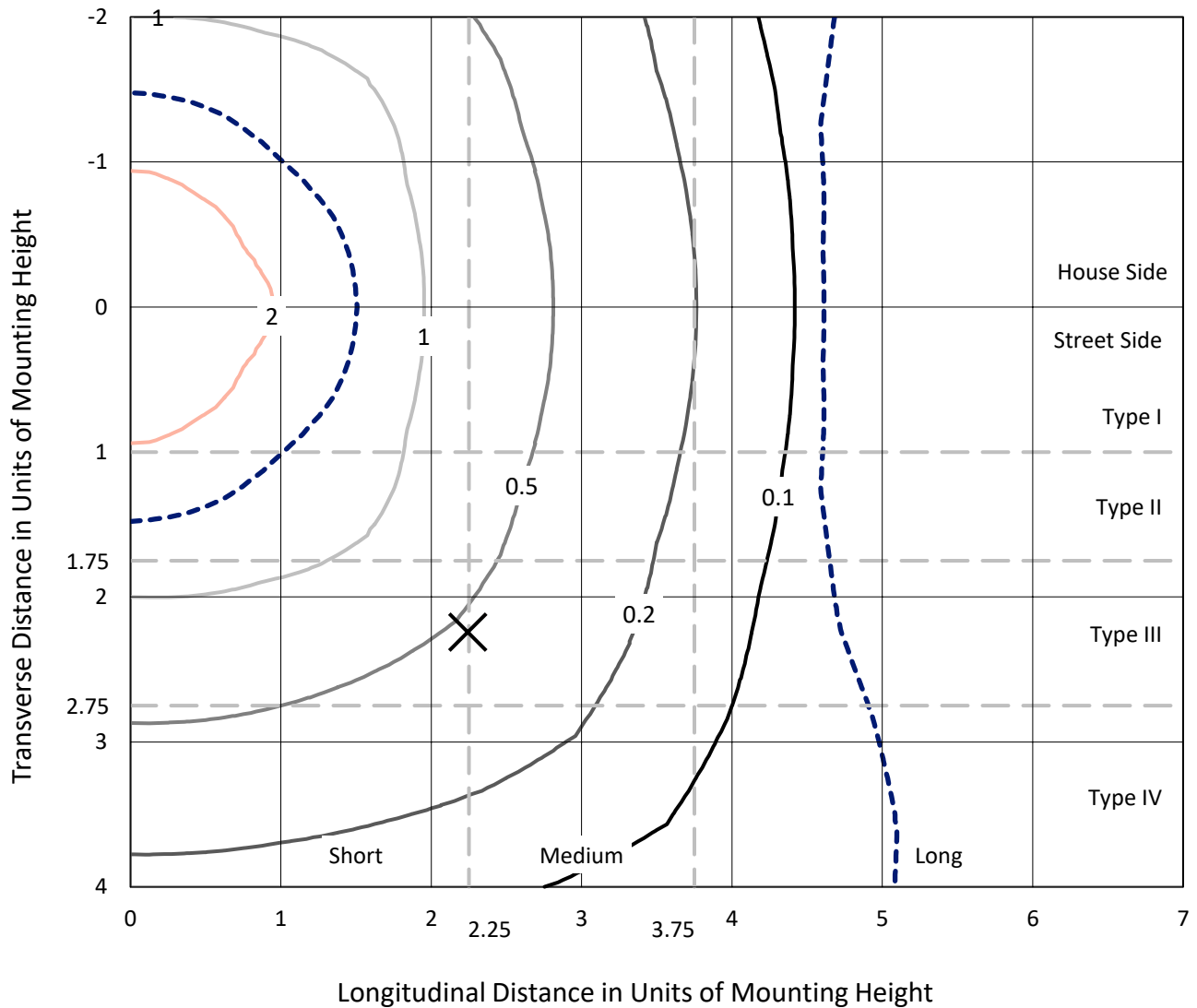
Input Watts (W): 242  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

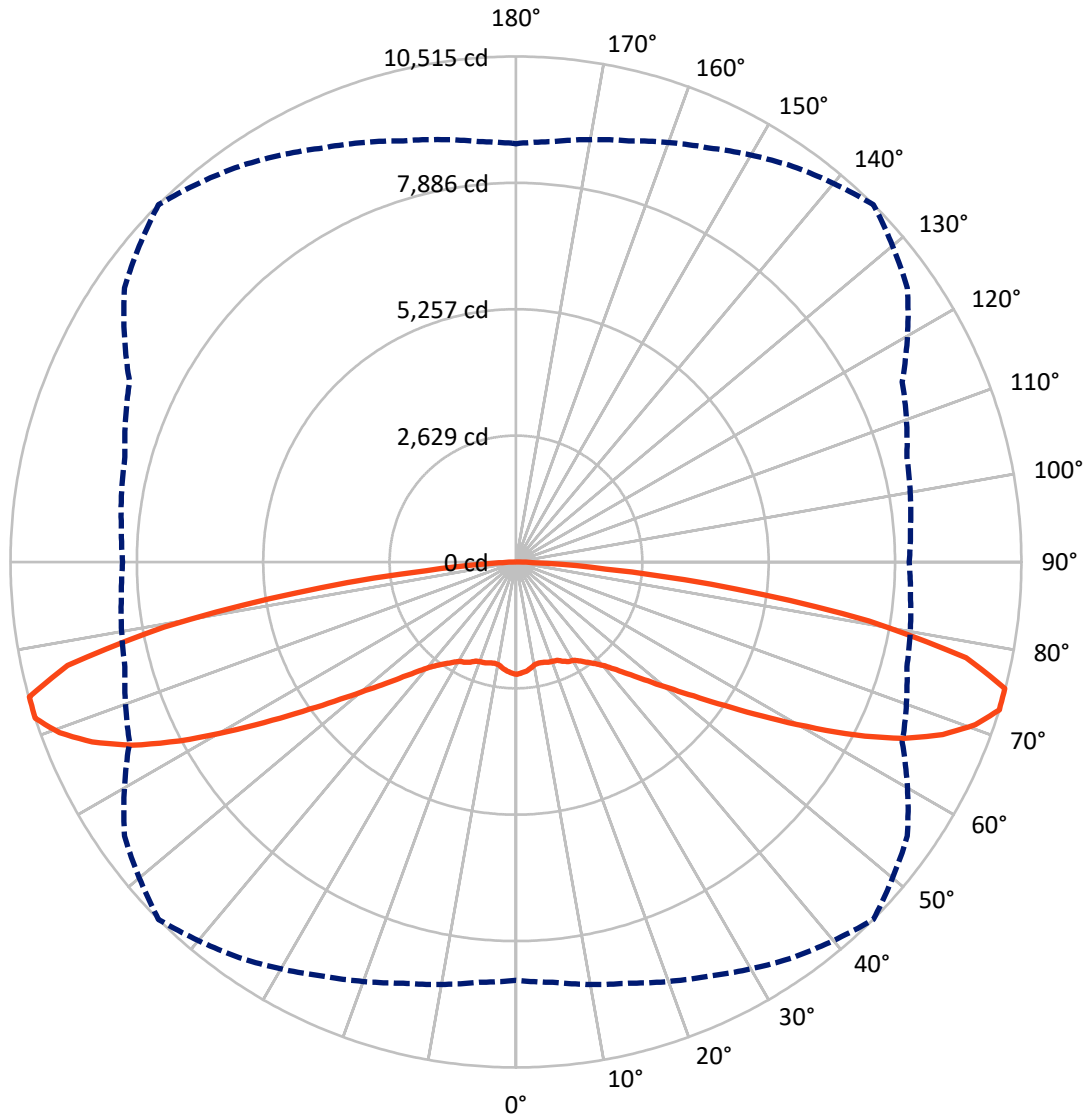
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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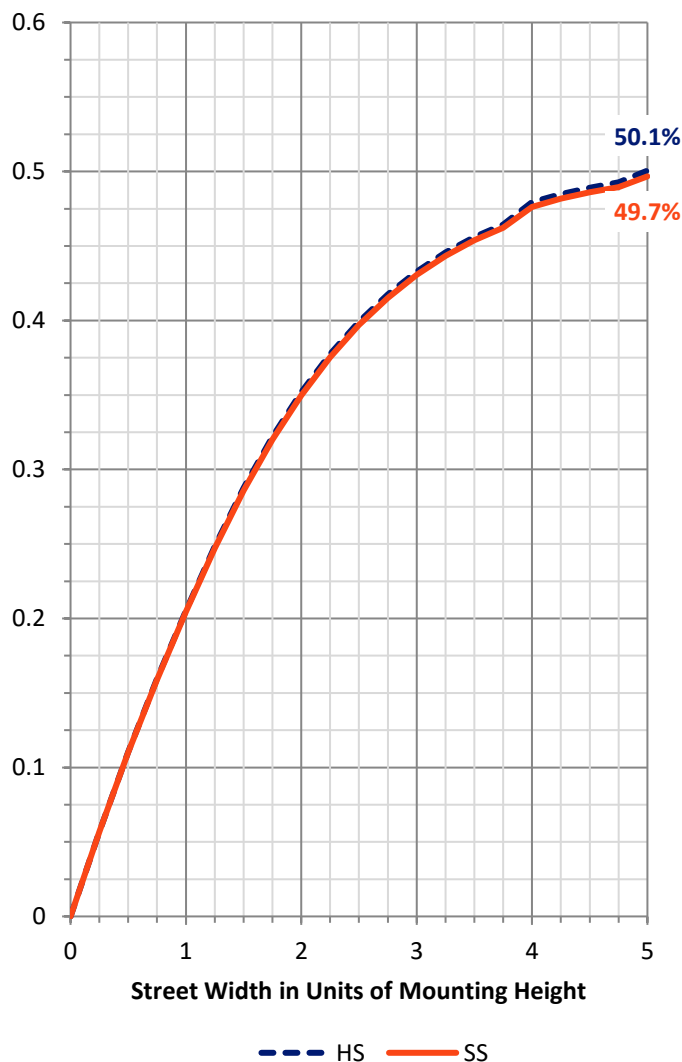
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14142.5	0.0	14142.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14142.5	0.0	14142.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28285.0	0.0	28285.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.6	0.8
10°-20°	623.0	2.2
20°-30°	1058.6	3.7
30°-40°	1614.6	5.7
40°-50°	2658.7	9.4
50°-60°	4642.8	16.4
60°-70°	7783.8	27.5
70°-80°	8330.2	29.5
80°-90°	1358.7	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°	28285.0	100.0
0°-180°	28285.0	100.0

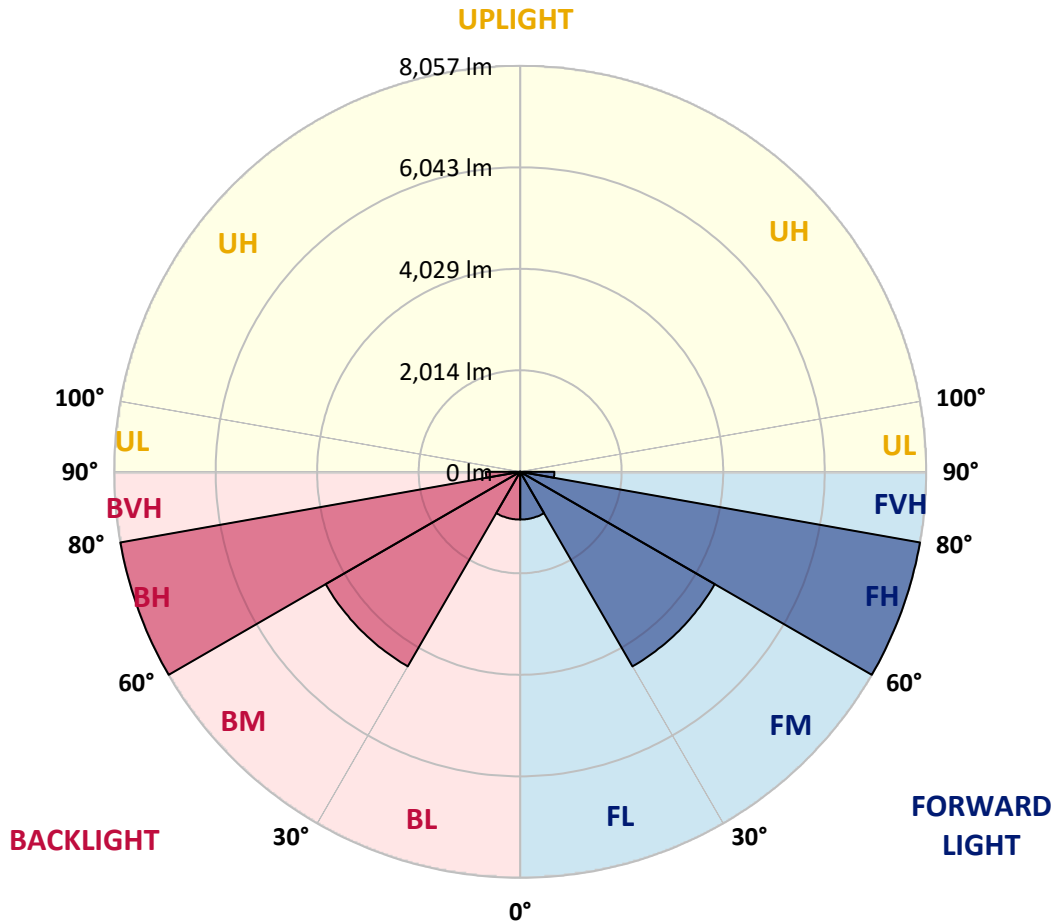


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.1	3.4			
FM (30°-60°)	4458.1	15.8			
FH (60°-80°)	8057.0	28.5			G4/12000
FVH (80°-90°)	679.3	2.4			G4/750
BL (0°-30°)	948.1	3.4	B2/1000		
BM (30°-60°)	4458.1	15.8	B3/5000		
BH (60°-80°)	8057.0	28.5	B5		G4/12000
BVH (80°-90°)	679.3	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°	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6	2340.6
2.5°	2326.2	2326.2	2326.2	2322.6	2315.3	2311.7	2304.5	2308.1	2308.1	2308.1	2308.1
5°	2297.3	2297.3	2293.7	2290.0	2282.8	2279.2	2272.0	2279.2	2279.2	2279.2	2279.2
7.5°	2243.1	2246.7	2246.7	2243.1	2232.3	2228.6	2217.8	2221.4	2221.4	2225.0	2221.4
10°	2214.2	2214.2	2210.6	2192.5	2174.5	2167.2	2163.6	2174.5	2185.3	2196.1	2196.1
12.5°	2214.2	2214.2	2207.0	2178.1	2152.8	2152.8	2152.8	2167.2	2188.9	2210.6	2214.2
15°	2225.0	2225.0	2210.6	2178.1	2163.6	2167.2	2167.2	2181.7	2207.0	2235.9	2239.5
17.5°	2232.3	2232.3	2214.2	2181.7	2181.7	2192.5	2185.3	2196.1	2221.4	2253.9	2257.5
20°	2243.1	2243.1	2217.8	2192.5	2192.5	2203.4	2203.4	2214.2	2235.9	2268.4	2272.0
22.5°	2264.8	2261.1	2235.9	2214.2	2214.2	2221.4	2228.6	2243.1	2261.1	2290.0	2297.3
25°	2290.0	2290.0	2268.4	2264.8	2272.0	2290.0	2286.4	2282.8	2290.0	2315.3	2326.2
27.5°	2304.5	2304.5	2290.0	2300.9	2329.8	2344.2	2326.2	2311.7	2311.7	2337.0	2340.6
30°	2351.5	2347.8	2333.4	2340.6	2365.9	2373.1	2362.3	2344.2	2355.1	2384.0	2387.6
32.5°	2430.9	2430.9	2409.2	2409.2	2427.3	2456.2	2420.1	2409.2	2423.7	2456.2	2459.8
35°	2553.7	2553.7	2524.8	2510.4	2524.8	2564.6	2510.4	2506.8	2532.1	2568.2	2571.8
37.5°	2709.0	2709.0	2691.0	2654.9	2658.5	2683.8	2636.8	2633.2	2680.1	2719.9	2719.9
40°	2904.1	2914.9	2896.9	2853.5	2839.1	2842.7	2806.6	2810.2	2864.4	2911.3	2911.3
42.5°	3146.1	3153.3	3124.4	3091.9	3073.9	3063.0	3026.9	3034.1	3099.1	3160.6	3160.6
45°	3438.7	3442.3	3413.4	3373.7	3352.0	3344.8	3308.6	3326.7	3398.9	3464.0	3460.4
47.5°	3767.4	3771.0	3742.1	3702.4	3687.9	3698.7	3662.6	3662.6	3727.6	3781.8	3774.6
50°	4139.4	4146.6	4114.1	4096.1	4085.2	4114.1	4070.8	4031.1	4074.4	4128.6	4121.4
52.5°	4551.2	4569.3	4547.6	4554.8	4594.5	4630.7	4558.4	4471.7	4493.4	4529.5	4518.7
55°	5049.7	5071.3	5078.6	5103.8	5208.6	5270.0	5150.8	5006.3	4995.5	4999.1	4981.0
57.5°	5609.5	5624.0	5670.9	5728.7	5945.5	6043.0	5855.2	5605.9	5526.5	5479.5	5468.7
60°	6173.0	6198.3	6313.9	6433.1	6765.4	6942.4	6653.4	6234.4	6064.6	5978.0	5959.9
62.5°	6740.1	6790.7	6978.5	7180.8	7664.8	7928.5	7484.2	6877.4	6631.7	6523.4	6494.5
65°	7397.5	7458.9	7686.5	7942.9	8481.1	8853.2	8315.0	7542.0	7278.3	7133.8	7097.7
67.5°	8166.9	8231.9	8416.1	8701.5	9210.8	9575.6	9098.8	8221.0	7877.9	7693.7	7664.8
70°	8799.0	8856.8	9055.4	9344.4	9723.7	10139.1	9683.9	8762.9	8452.2	8322.2	8304.1
72.5°	8701.5	8777.3	9069.9	9503.3	10045.1	10514.7	9940.4	8867.6	8419.7	8239.1	8181.3
75°	7599.8	7682.9	8029.6	8813.4	9803.1	10503.9	9568.3	8170.5	7643.1	7491.4	7462.5
77.5°	5031.6	5111.1	5696.2	6931.5	8560.6	9572.0	8445.0	6844.9	5996.0	5631.2	5609.5
80°	2033.6	2134.7	2694.6	4005.8	6068.3	7440.8	6263.3	4381.4	2954.7	2384.0	2268.4
82.5°	473.2	563.5	819.9	1477.3	3106.4	4634.3	3377.3	1636.3	950.0	675.5	606.8
85°	198.7	202.3	350.4	480.4	971.6	1871.0	1105.3	596.0	484.0	354.0	346.8
87.5°	75.9	79.5	169.8	202.3	310.6	354.0	375.7	307.0	285.4	177.0	169.8
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)