

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: P400109

Luminaire Tested: **ARCH-L-PA3-230-830-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400109  
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-PA3-230-830-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25997 lumens  
Efficiency: N/A  
Efficacy: 113.5 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

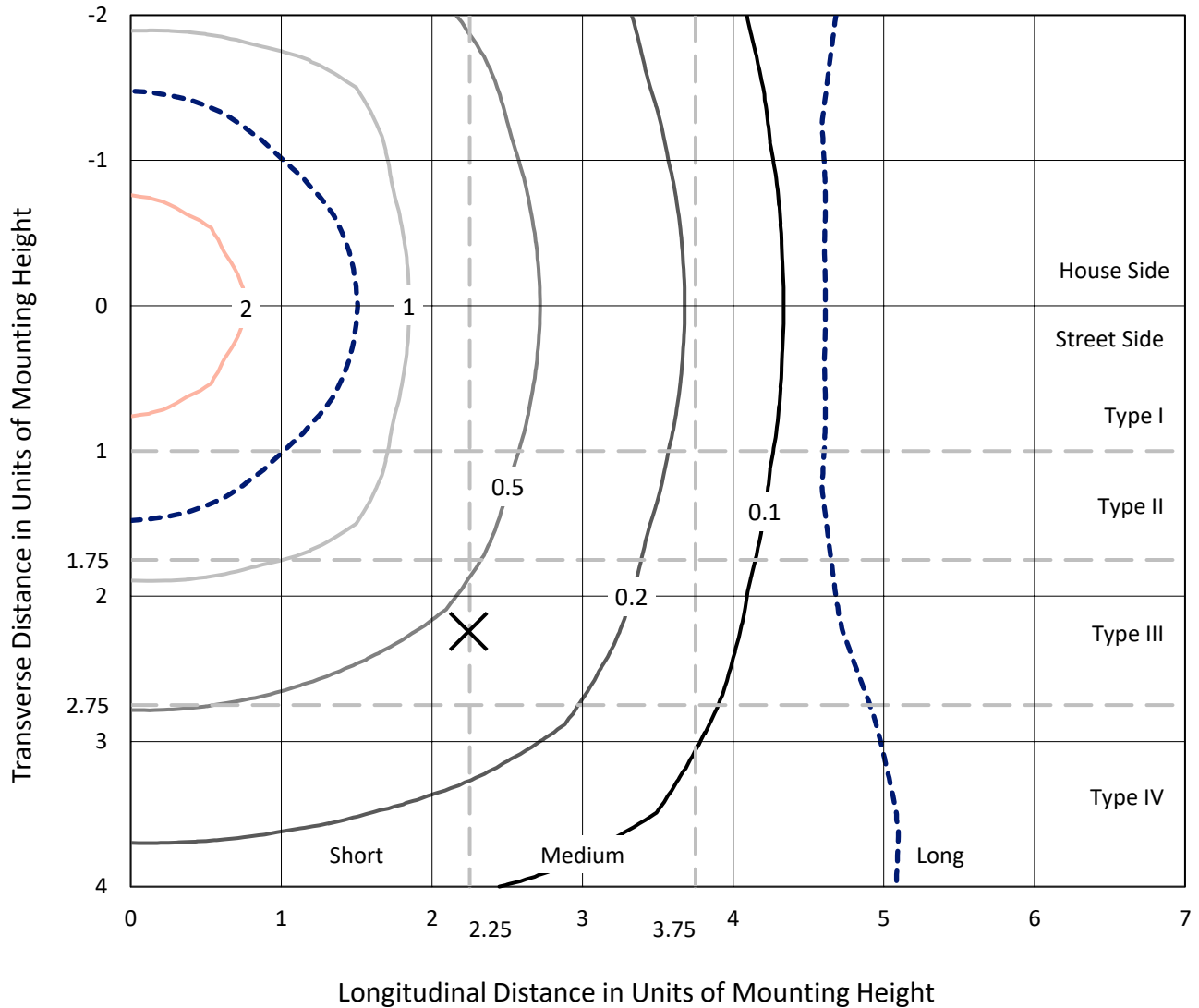
Input Watts (W): 229  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

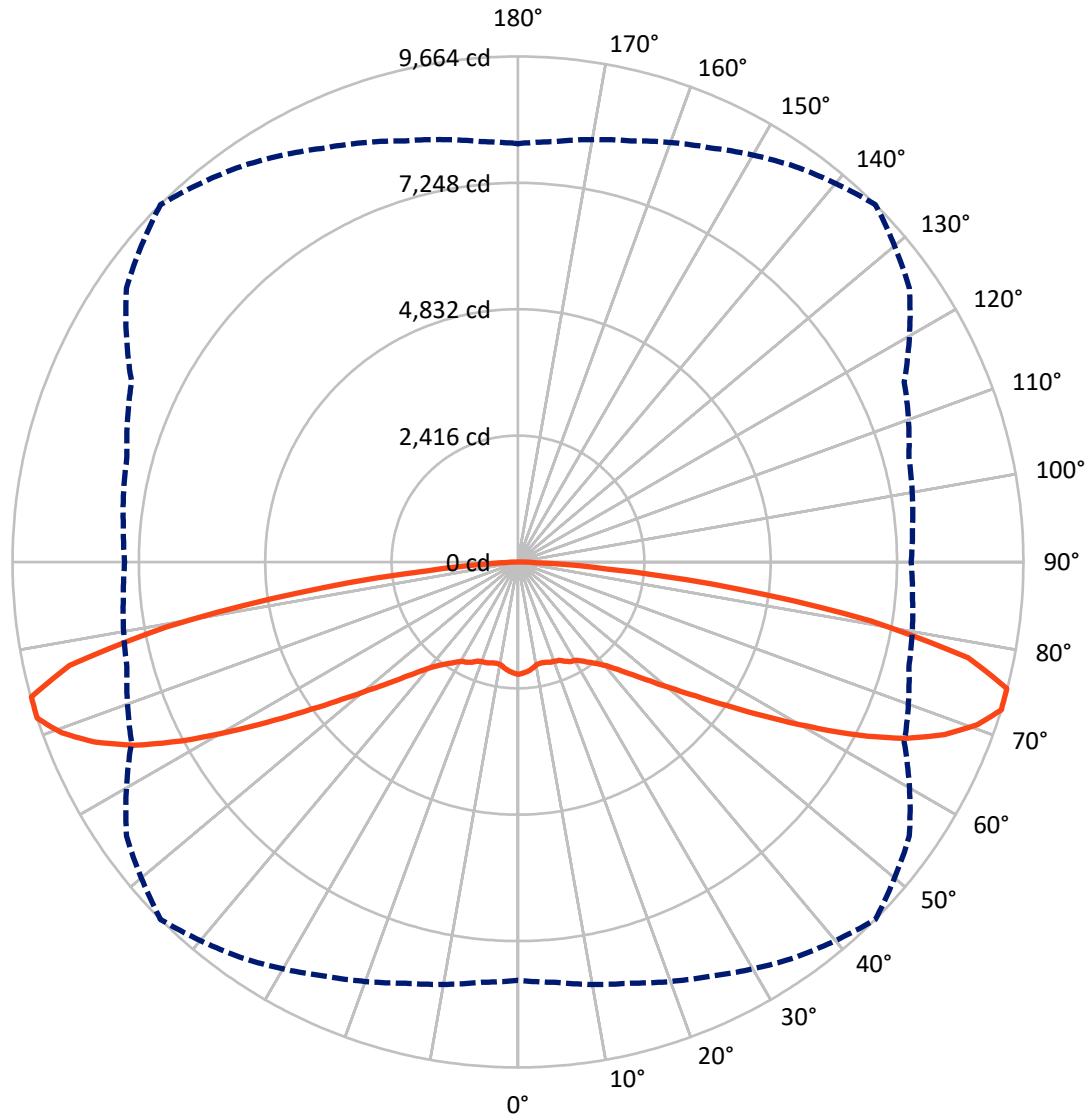
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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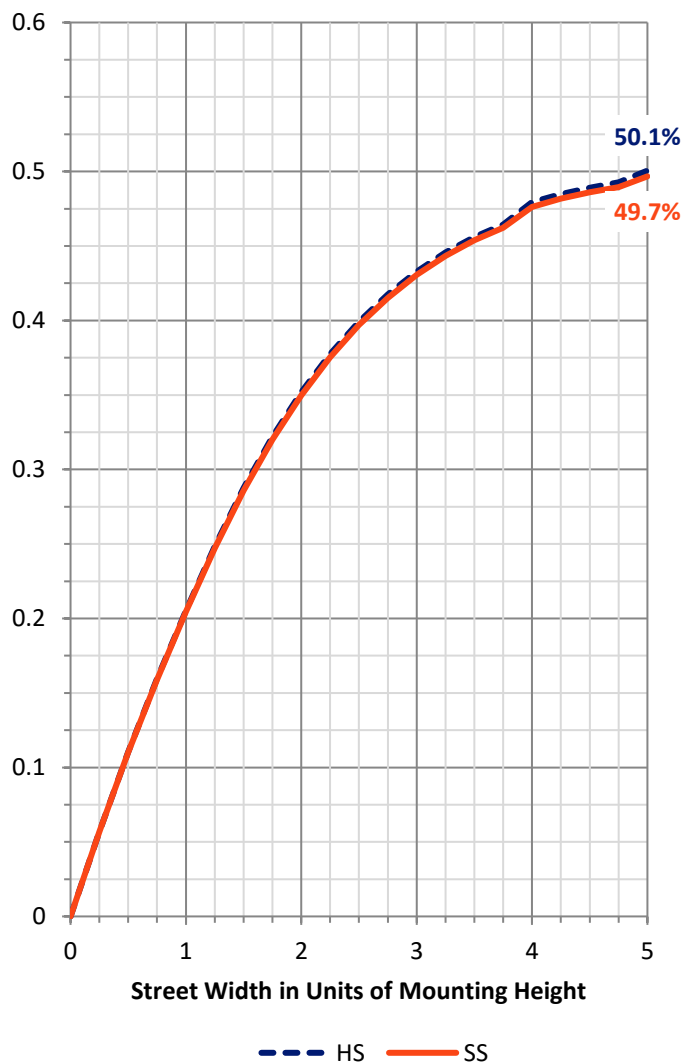
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12998.5	0.0	12998.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12998.5	0.0	12998.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25997.0	0.0	25997.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.3	0.8
10°-20°	572.6	2.2
20°-30°	973.0	3.7
30°-40°	1484.0	5.7
40°-50°	2443.6	9.4
50°-60°	4267.2	16.4
60°-70°	7154.1	27.5
70°-80°	7656.4	29.5
80°-90°	1248.7	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°	25997.0	100.0
0°-180°	25997.0	100.0

**Coefficient of Utilization**

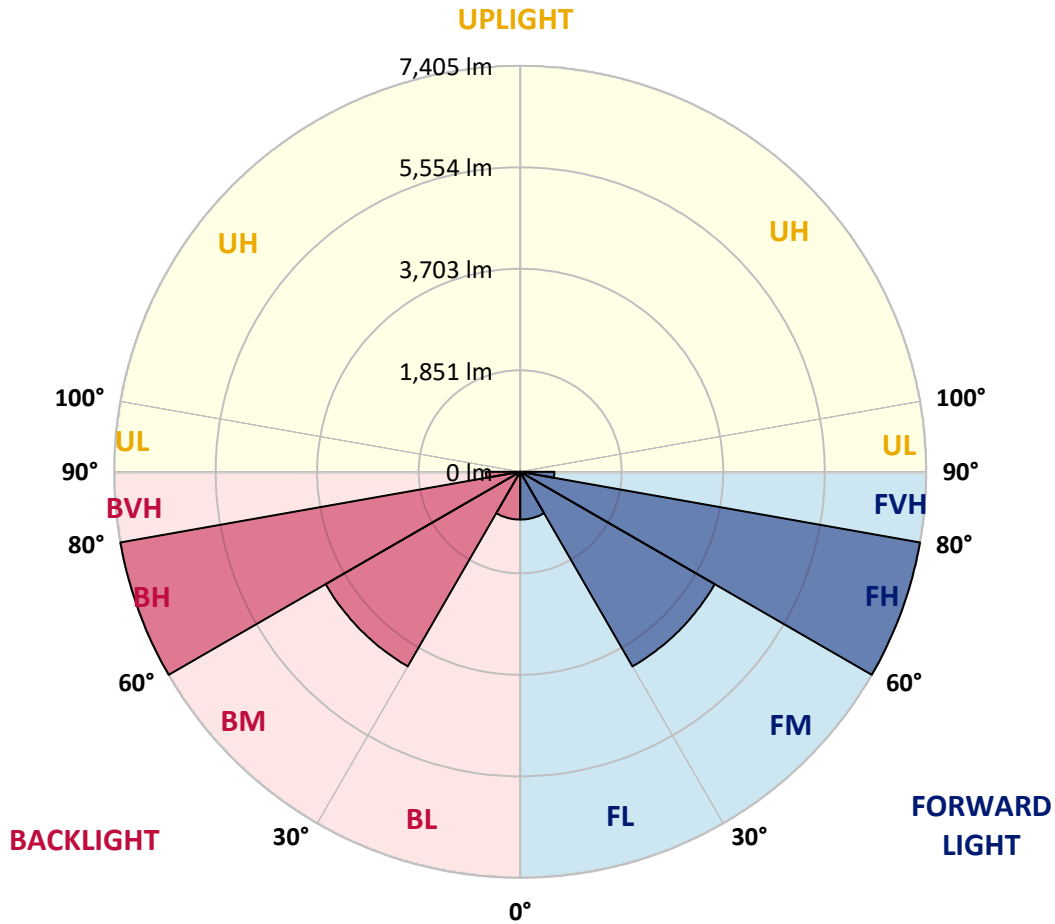


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	871.4	3.4			
FM (30°-60°)	4097.4	15.8			
FH (60°-80°)	7405.3	28.5			G3/7500
FVH (80°-90°)	624.4	2.4			G4/750
BL (0°-30°)	871.4	3.4	B2/1000		
BM (30°-60°)	4097.4	15.8	B3/5000		
BH (60°-80°)	7405.3	28.5	B5		G3/7500
BVH (80°-90°)	624.4	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°	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3	2151.3
2.5°	2138.0	2138.0	2138.0	2134.7	2128.0	2124.7	2118.1	2121.4	2121.4	2121.4	2121.4
5°	2111.4	2111.4	2108.1	2104.8	2098.2	2094.8	2088.2	2094.8	2094.8	2094.8	2094.8
7.5°	2061.6	2065.0	2065.0	2061.6	2051.7	2048.4	2038.4	2041.7	2041.7	2045.0	2041.7
10°	2035.1	2035.1	2031.8	2015.2	1998.6	1991.9	1988.6	1998.6	2008.5	2018.5	2018.5
12.5°	2035.1	2035.1	2028.4	2001.9	1978.6	1978.6	1978.6	1991.9	2011.8	2031.8	2035.1
15°	2045.0	2045.0	2031.8	2001.9	1988.6	1991.9	1991.9	2005.2	2028.4	2055.0	2058.3
17.5°	2051.7	2051.7	2035.1	2005.2	2005.2	2015.2	2008.5	2018.5	2041.7	2071.6	2074.9
20°	2061.6	2061.6	2038.4	2015.2	2015.2	2025.1	2025.1	2035.1	2055.0	2084.9	2088.2
22.5°	2081.6	2078.2	2055.0	2035.1	2035.1	2041.7	2048.4	2061.6	2078.2	2104.8	2111.4
25°	2104.8	2104.8	2084.9	2081.6	2088.2	2104.8	2101.5	2098.2	2104.8	2128.0	2138.0
27.5°	2118.1	2118.1	2104.8	2114.8	2141.3	2154.6	2138.0	2124.7	2124.7	2148.0	2151.3
30°	2161.2	2157.9	2144.6	2151.3	2174.5	2181.2	2171.2	2154.6	2164.6	2191.1	2194.4
32.5°	2234.3	2234.3	2214.4	2214.4	2231.0	2257.5	2224.3	2214.4	2227.6	2257.5	2260.8
35°	2347.2	2347.2	2320.6	2307.3	2320.6	2357.1	2307.3	2304.0	2327.2	2360.4	2363.8
37.5°	2489.9	2489.9	2473.3	2440.1	2443.4	2466.7	2423.5	2420.2	2463.3	2499.9	2499.9
40°	2669.2	2679.1	2662.5	2622.7	2609.4	2612.7	2579.5	2582.9	2632.7	2675.8	2675.8
42.5°	2891.6	2898.3	2871.7	2841.8	2825.2	2815.3	2782.1	2788.7	2848.5	2904.9	2904.9
45°	3160.5	3163.8	3137.3	3100.8	3080.8	3074.2	3041.0	3057.6	3124.0	3183.8	3180.4
47.5°	3462.6	3466.0	3439.4	3402.9	3389.6	3399.6	3366.4	3366.4	3426.1	3475.9	3469.3
50°	3804.6	3811.2	3781.3	3764.7	3754.8	3781.3	3741.5	3705.0	3744.8	3794.6	3788.0
52.5°	4183.0	4199.6	4179.7	4186.4	4222.9	4256.1	4189.7	4110.0	4129.9	4163.1	4153.2
55°	4641.2	4661.1	4667.7	4691.0	4787.3	4843.7	4734.1	4601.4	4591.4	4594.7	4578.1
57.5°	5155.8	5169.0	5212.2	5265.3	5464.5	5554.2	5381.5	5152.4	5079.4	5036.3	5026.3
60°	5673.7	5696.9	5803.1	5912.7	6218.1	6380.8	6115.2	5730.1	5574.1	5494.4	5477.8
62.5°	6194.9	6241.4	6414.0	6599.9	7044.8	7287.1	6878.8	6321.0	6095.3	5995.7	5969.1
65°	6799.1	6855.5	7064.7	7300.4	7795.1	8137.0	7642.4	6931.9	6689.6	6556.8	6523.6
67.5°	7506.2	7566.0	7735.3	7997.6	8465.7	8801.0	8362.8	7556.0	7240.7	7071.3	7044.8
70°	8087.2	8140.3	8322.9	8588.5	8937.1	9318.9	8900.6	8054.0	7768.5	7649.0	7632.4
72.5°	7997.6	8067.3	8336.2	8734.6	9232.6	9664.2	9136.3	8150.3	7738.6	7572.6	7519.5
75°	6985.0	7061.4	7380.1	8100.5	9010.1	9654.2	8794.4	7509.6	7024.9	6885.4	6858.9
77.5°	4624.6	4697.6	5235.4	6370.8	7868.1	8797.7	7761.9	6291.2	5511.0	5175.7	5155.8
80°	1869.1	1962.0	2476.6	3681.7	5577.4	6838.9	5756.7	4027.0	2715.7	2191.1	2084.9
82.5°	434.9	517.9	753.6	1357.8	2855.1	4259.4	3104.1	1503.9	873.1	620.8	557.7
85°	182.6	185.9	322.0	441.5	893.0	1719.7	1015.9	547.8	444.9	325.3	318.7
87.5°	69.7	73.0	156.0	185.9	285.5	325.3	345.3	282.2	262.3	162.7	156.0
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)