

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: P399767

Luminaire Tested: **ARCH-L-PA3-190-727-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399767  
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-PA3-190-727-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 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: 23863 lumens  
Efficiency: N/A  
Efficacy: 126.3 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

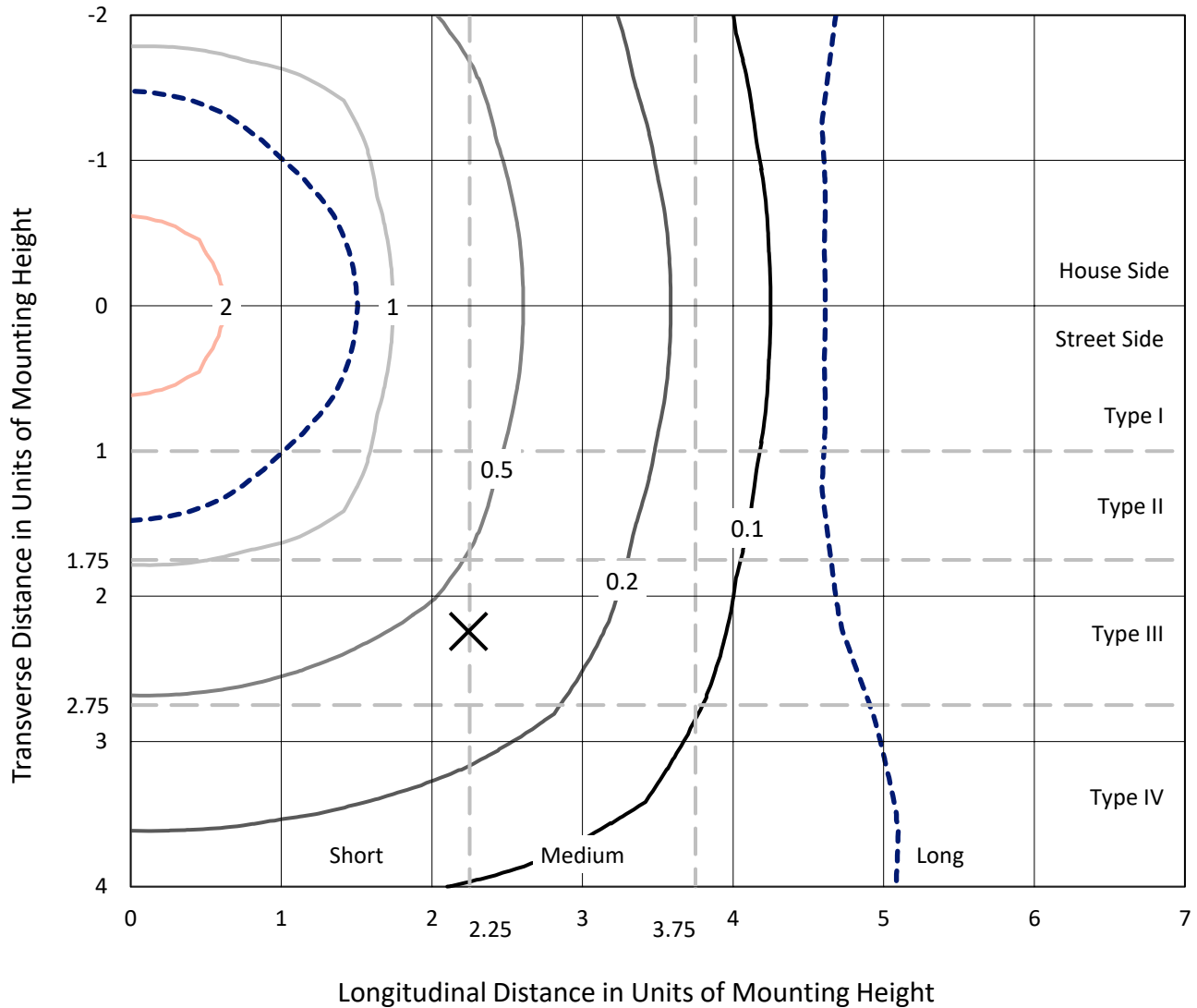
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

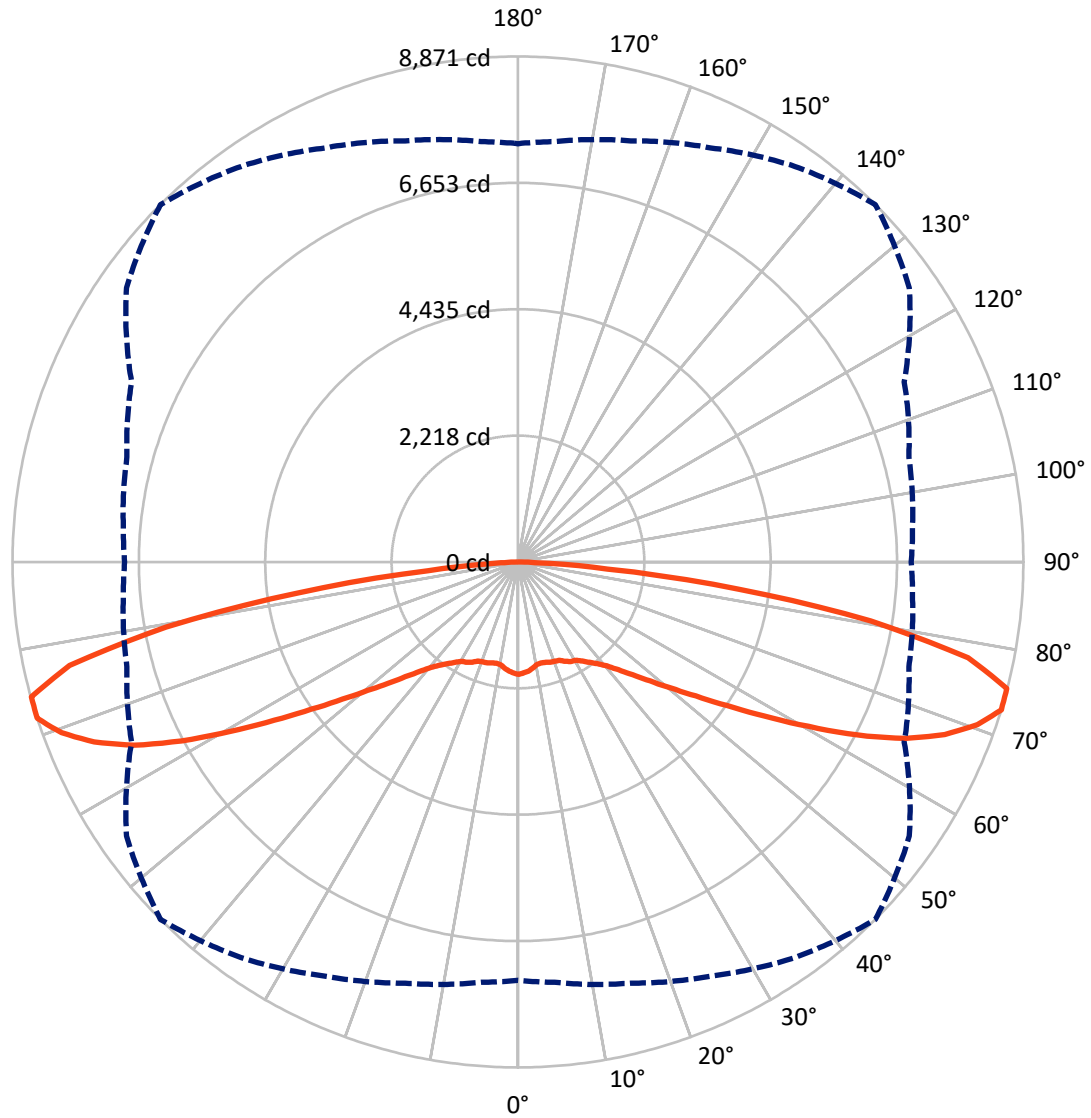
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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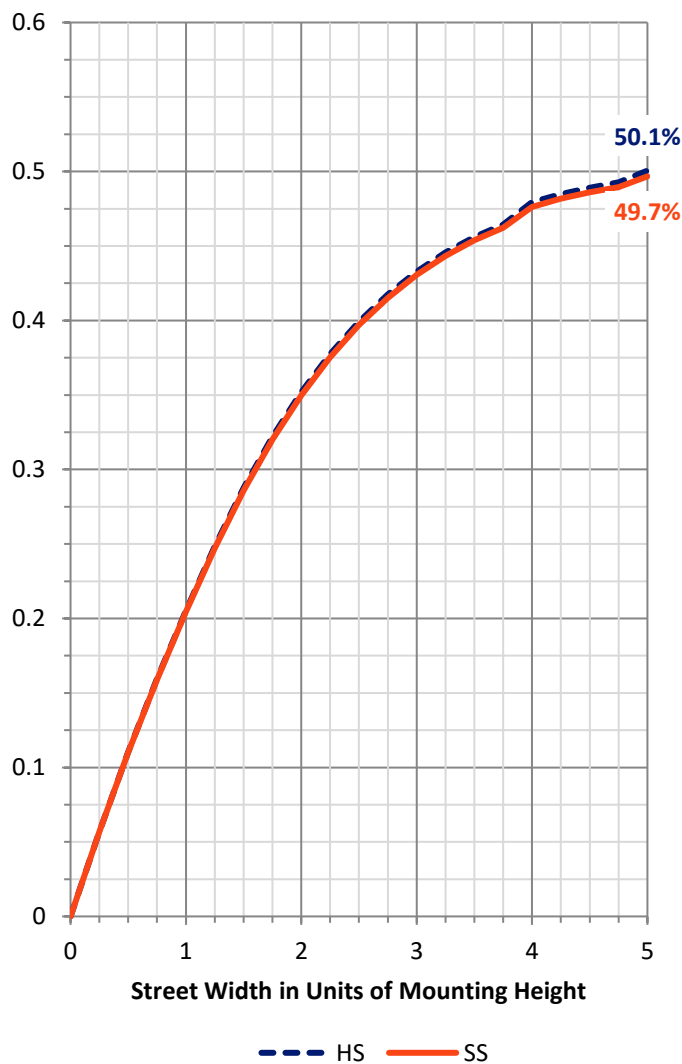
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11931.5	0.0	11931.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11931.5	0.0	11931.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23863.0	0.0	23863.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.1	0.8
10°-20°	525.6	2.2
20°-30°	893.1	3.7
30°-40°	1362.2	5.7
40°-50°	2243.0	9.4
50°-60°	3917.0	16.4
60°-70°	6566.9	27.5
70°-80°	7027.9	29.5
80°-90°	1146.2	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°	23863.0	100.0
0°-180°	23863.0	100.0

**Coefficient of Utilization**

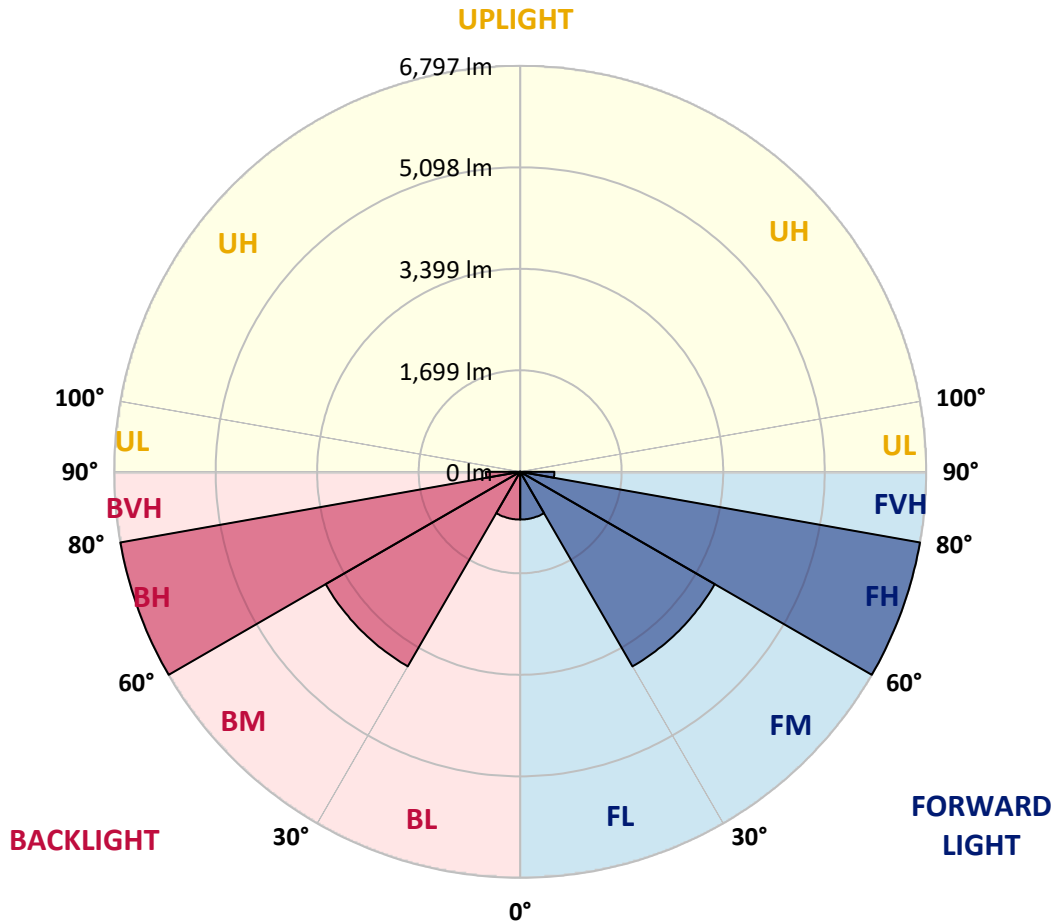


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	799.9	3.4			
FM (30°-60°)	3761.1	15.8			
FH (60°-80°)	6797.4	28.5			G3/7500
FVH (80°-90°)	573.1	2.4			G4/750
BL (0°-30°)	799.9	3.4	B2/1000		
BM (30°-60°)	3761.1	15.8	B3/5000		
BH (60°-80°)	6797.4	28.5	B5		G3/7500
BVH (80°-90°)	573.1	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°	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7	1974.7
2.5°	1962.5	1962.5	1962.5	1959.5	1953.4	1950.3	1944.2	1947.3	1947.3	1947.3	1947.3
5°	1938.1	1938.1	1935.1	1932.0	1925.9	1922.9	1916.8	1922.9	1922.9	1922.9	1922.9
7.5°	1892.4	1895.5	1895.5	1892.4	1883.3	1880.2	1871.1	1874.1	1874.1	1877.2	1874.1
10°	1868.0	1868.0	1865.0	1849.7	1834.5	1828.4	1825.4	1834.5	1843.7	1852.8	1852.8
12.5°	1868.0	1868.0	1861.9	1837.6	1816.2	1816.2	1816.2	1828.4	1846.7	1865.0	1868.0
15°	1877.2	1877.2	1865.0	1837.6	1825.4	1828.4	1828.4	1840.6	1861.9	1886.3	1889.4
17.5°	1883.3	1883.3	1868.0	1840.6	1840.6	1849.7	1843.7	1852.8	1874.1	1901.6	1904.6
20°	1892.4	1892.4	1871.1	1849.7	1849.7	1858.9	1858.9	1868.0	1886.3	1913.7	1916.8
22.5°	1910.7	1907.6	1886.3	1868.0	1868.0	1874.1	1880.2	1892.4	1907.6	1932.0	1938.1
25°	1932.0	1932.0	1913.7	1910.7	1916.8	1932.0	1929.0	1925.9	1932.0	1953.4	1962.5
27.5°	1944.2	1944.2	1932.0	1941.2	1965.5	1977.7	1962.5	1950.3	1950.3	1971.6	1974.7
30°	1983.8	1980.8	1968.6	1974.7	1996.0	2002.1	1993.0	1977.7	1986.9	2011.3	2014.3
32.5°	2050.9	2050.9	2032.6	2032.6	2047.8	2072.2	2041.7	2032.6	2044.8	2072.2	2075.3
35°	2154.5	2154.5	2130.1	2117.9	2130.1	2163.6	2117.9	2114.9	2136.2	2166.7	2169.7
37.5°	2285.5	2285.5	2270.3	2239.8	2242.9	2264.2	2224.6	2221.5	2261.1	2294.7	2294.7
40°	2450.1	2459.2	2444.0	2407.4	2395.2	2398.3	2367.8	2370.8	2416.6	2456.2	2456.2
42.5°	2654.3	2660.3	2636.0	2608.5	2593.3	2584.2	2553.7	2559.8	2614.6	2666.4	2666.4
45°	2901.1	2904.1	2879.8	2846.2	2828.0	2821.9	2791.4	2806.6	2867.6	2922.4	2919.4
47.5°	3178.4	3181.4	3157.1	3123.5	3111.4	3120.5	3090.0	3090.0	3144.9	3190.6	3184.5
50°	3492.3	3498.4	3470.9	3455.7	3446.6	3470.9	3434.4	3400.9	3437.4	3483.1	3477.0
52.5°	3839.7	3854.9	3836.6	3842.7	3876.2	3906.7	3845.8	3772.6	3790.9	3821.4	3812.2
55°	4260.2	4278.5	4284.6	4305.9	4394.3	4446.1	4345.5	4223.6	4214.5	4217.5	4202.3
57.5°	4732.6	4744.7	4784.4	4833.1	5016.0	5098.2	4939.8	4729.5	4662.5	4622.8	4613.7
60°	5207.9	5229.3	5326.8	5427.3	5707.7	5857.0	5613.2	5259.7	5116.5	5043.4	5028.1
62.5°	5686.4	5729.0	5887.5	6058.2	6466.5	6689.0	6314.1	5802.2	5595.0	5503.5	5479.2
65°	6241.0	6292.8	6484.8	6701.1	7155.2	7469.1	7015.0	6362.9	6140.4	6018.5	5988.1
67.5°	6890.1	6944.9	7100.4	7341.1	7770.8	8078.6	7676.3	6935.8	6646.3	6490.9	6466.5
70°	7423.4	7472.1	7639.7	7883.5	8203.5	8553.9	8170.0	7392.9	7130.8	7021.1	7005.9
72.5°	7341.1	7405.1	7651.9	8017.6	8474.7	8870.9	8386.3	7481.3	7103.4	6951.0	6902.3
75°	6411.6	6481.7	6774.3	7435.6	8270.5	8861.7	8072.5	6893.1	6448.2	6320.2	6295.8
77.5°	4245.0	4312.0	4805.7	5847.9	7222.2	8075.5	7124.7	5774.7	5058.6	4750.8	4732.6
80°	1715.7	1801.0	2273.3	3379.5	5119.6	6277.6	5284.1	3696.4	2492.7	2011.3	1913.7
82.5°	399.2	475.4	691.8	1246.4	2620.7	3909.8	2849.3	1380.5	801.5	569.9	512.0
85°	167.6	170.7	295.6	405.3	819.7	1578.5	932.5	502.8	408.3	298.6	292.5
87.5°	64.0	67.0	143.2	170.7	262.1	298.6	316.9	259.0	240.7	149.3	143.2
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)