

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: P399434

Luminaire Tested: **ARCH-L-PA3-140-750-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399434  
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-PA3-140-750-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23173 lumens  
Efficiency: N/A  
Efficacy: 162.0 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

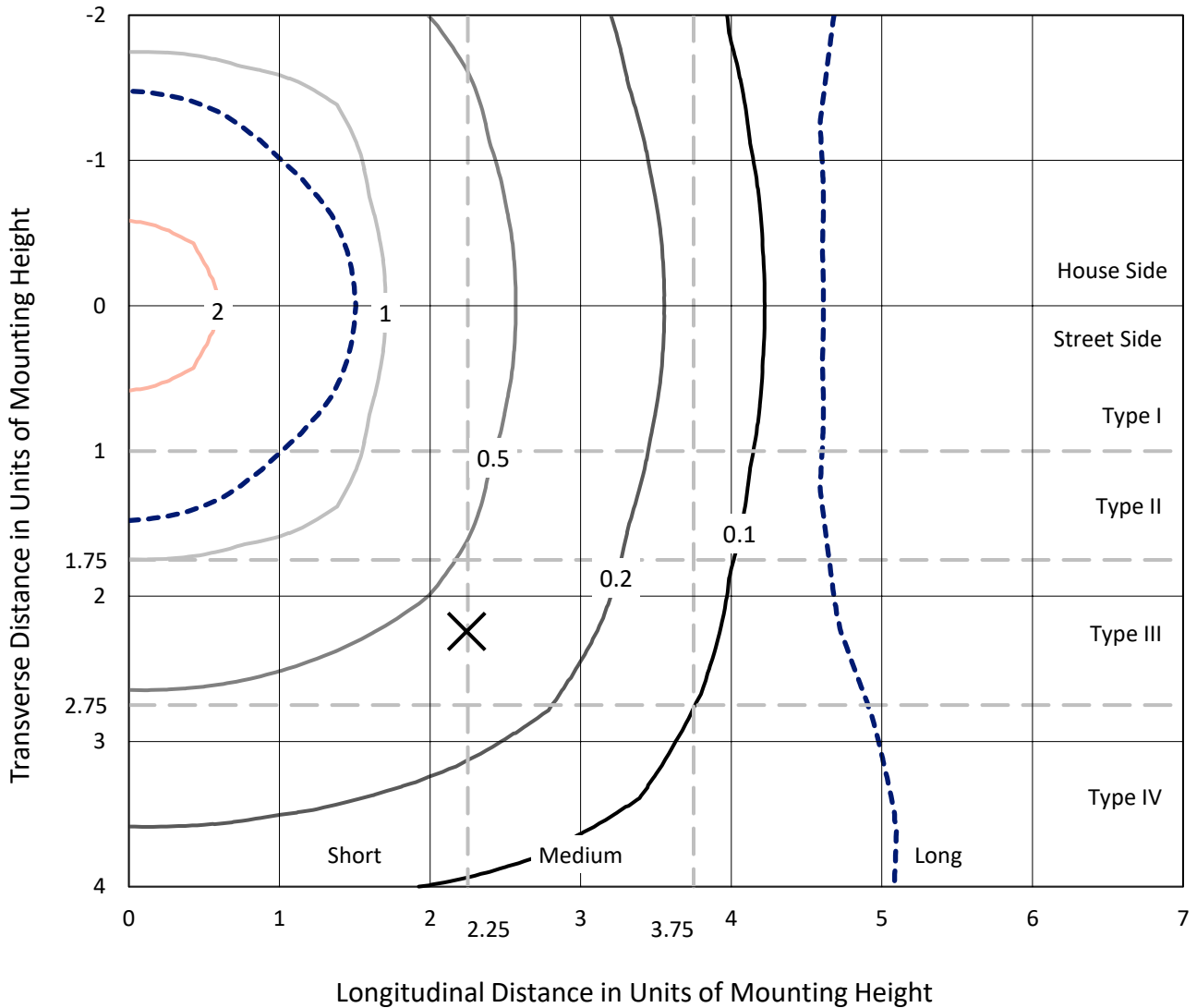
Input Watts (W): 143  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

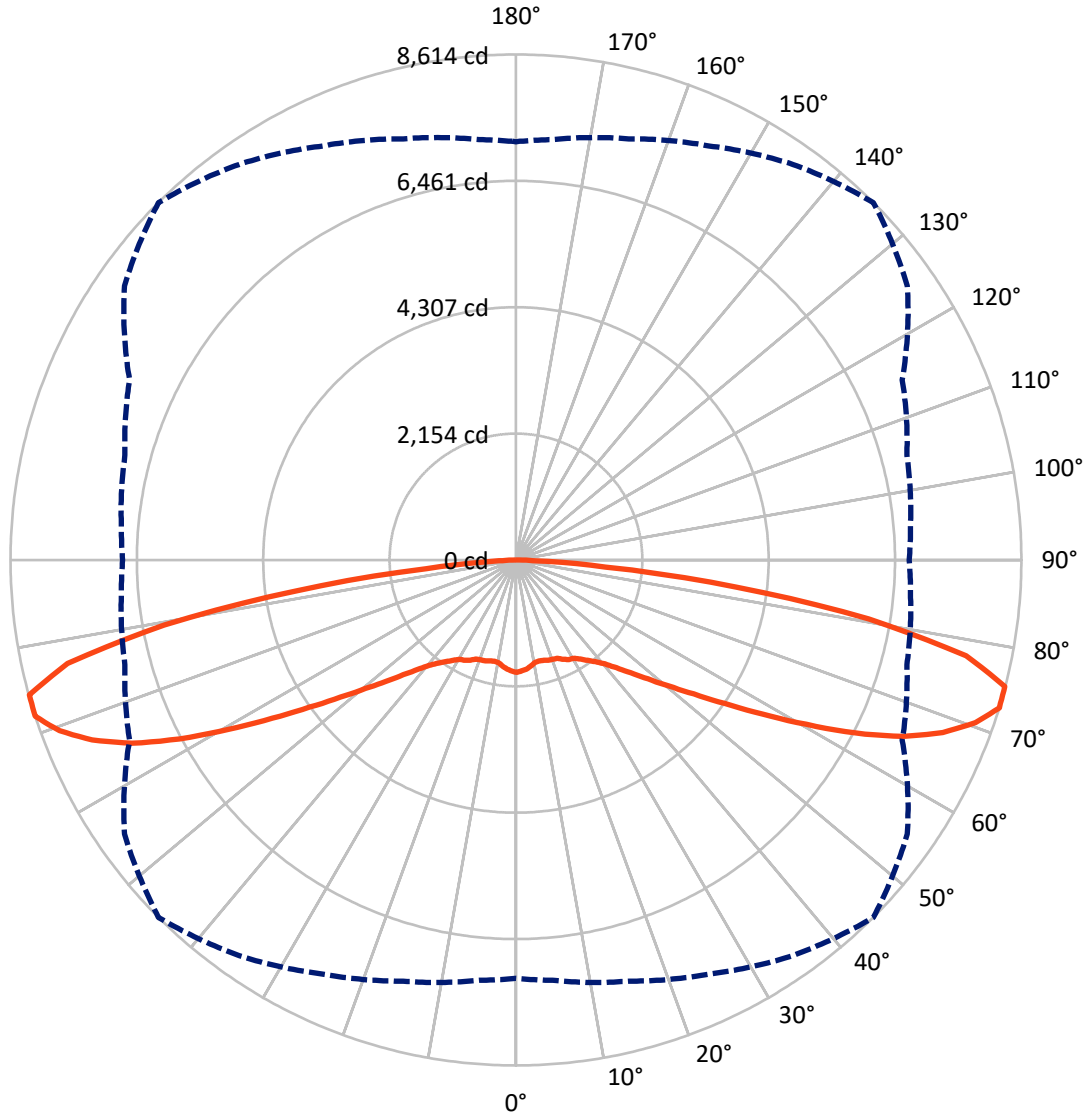
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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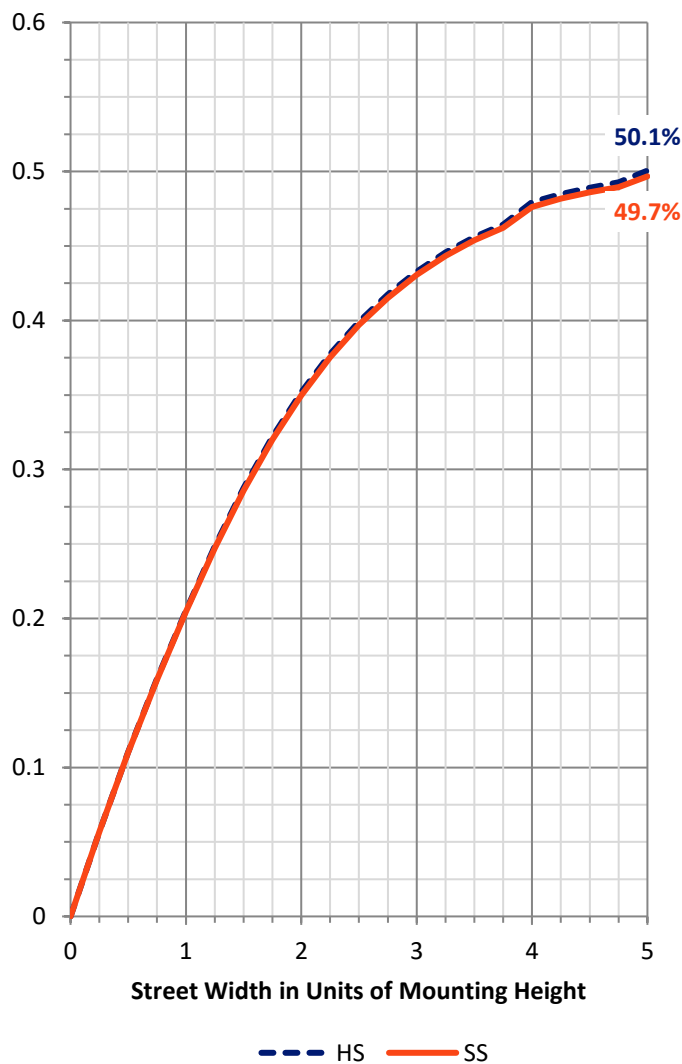
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11586.5	0.0	11586.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11586.5	0.0	11586.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23173.0	0.0	23173.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.8	0.8
10°-20°	510.4	2.2
20°-30°	867.3	3.7
30°-40°	1322.8	5.7
40°-50°	2178.2	9.4
50°-60°	3803.7	16.4
60°-70°	6377.0	27.5
70°-80°	6824.7	29.5
80°-90°	1113.1	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°	23173.0	100.0
0°-180°	23173.0	100.0

**Coefficient of Utilization**



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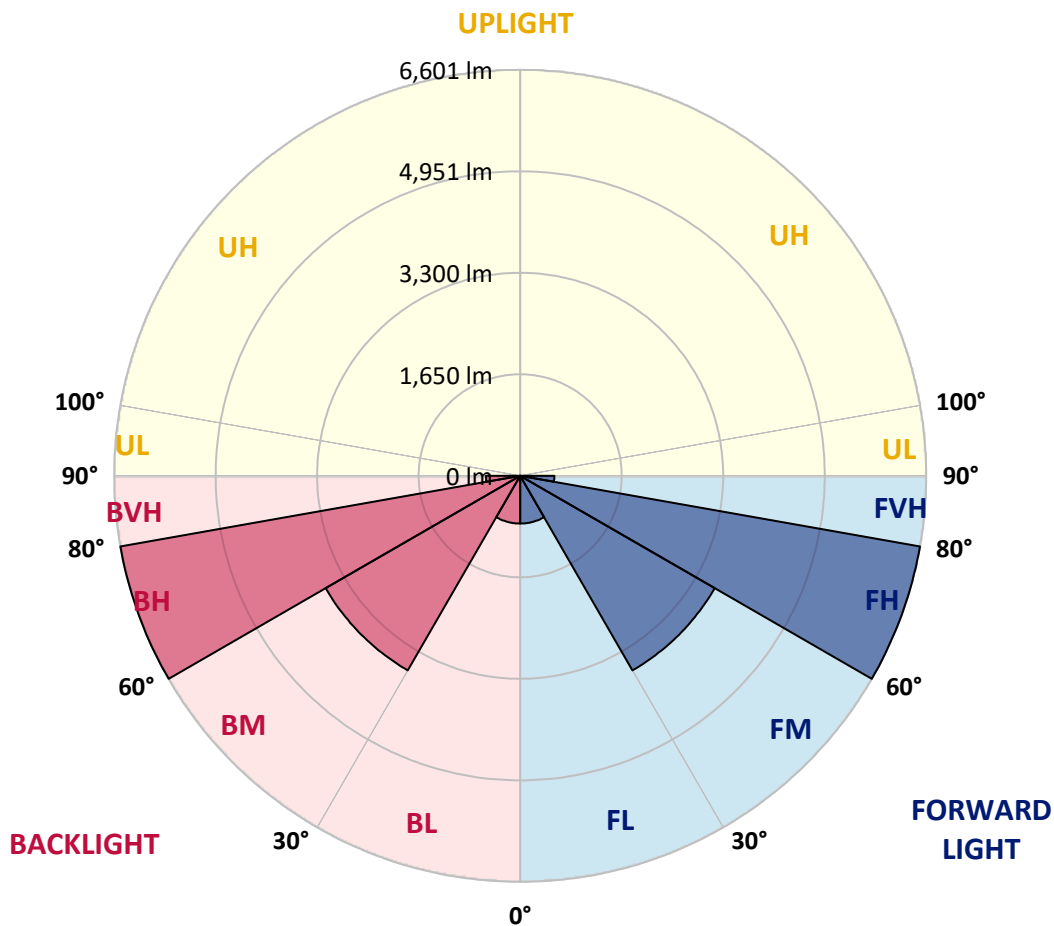
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.8	3.4			
FM (30°-60°)	3652.3	15.8			
FH (60°-80°)	6600.9	28.5			G3/7500
FVH (80°-90°)	556.5	2.4			G4/750
BL (0°-30°)	776.8	3.4	B2/1000		
BM (30°-60°)	3652.3	15.8	B3/5000		
BH (60°-80°)	6600.9	28.5	B5		G3/7500
BVH (80°-90°)	556.5	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°	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6	1917.6
2.5°	1905.8	1905.8	1905.8	1902.8	1896.9	1893.9	1888.0	1891.0	1891.0	1891.0	1891.0
5°	1882.1	1882.1	1879.1	1876.2	1870.2	1867.3	1861.4	1867.3	1867.3	1867.3	1867.3
7.5°	1837.7	1840.7	1840.7	1837.7	1828.8	1825.9	1817.0	1819.9	1819.9	1822.9	1819.9
10°	1814.0	1814.0	1811.1	1796.3	1781.5	1775.5	1772.6	1781.5	1790.3	1799.2	1799.2
12.5°	1814.0	1814.0	1808.1	1784.4	1763.7	1763.7	1763.7	1775.5	1793.3	1811.1	1814.0
15°	1822.9	1822.9	1811.1	1784.4	1772.6	1775.5	1775.5	1787.4	1808.1	1831.8	1834.7
17.5°	1828.8	1828.8	1814.0	1787.4	1787.4	1796.3	1790.3	1799.2	1819.9	1846.6	1849.5
20°	1837.7	1837.7	1817.0	1796.3	1796.3	1805.1	1805.1	1814.0	1831.8	1858.4	1861.4
22.5°	1855.4	1852.5	1831.8	1814.0	1814.0	1819.9	1825.9	1837.7	1852.5	1876.2	1882.1
25°	1876.2	1876.2	1858.4	1855.4	1861.4	1876.2	1873.2	1870.2	1876.2	1896.9	1905.8
27.5°	1888.0	1888.0	1876.2	1885.0	1908.7	1920.6	1905.8	1893.9	1893.9	1914.6	1917.6
30°	1926.5	1923.5	1911.7	1917.6	1938.3	1944.2	1935.3	1920.6	1929.4	1953.1	1956.1
32.5°	1991.6	1991.6	1973.8	1973.8	1988.6	2012.3	1982.7	1973.8	1985.7	2012.3	2015.2
35°	2092.2	2092.2	2068.5	2056.7	2068.5	2101.1	2056.7	2053.7	2074.4	2104.0	2107.0
37.5°	2219.4	2219.4	2204.6	2175.0	2178.0	2198.7	2160.2	2157.3	2195.8	2228.3	2228.3
40°	2379.2	2388.1	2373.3	2337.8	2326.0	2328.9	2299.3	2302.3	2346.7	2385.2	2385.2
42.5°	2577.5	2583.4	2559.7	2533.1	2518.3	2509.4	2479.8	2485.8	2539.0	2589.3	2589.3
45°	2817.2	2820.2	2796.5	2763.9	2746.2	2740.3	2710.7	2725.5	2784.7	2837.9	2835.0
47.5°	3086.5	3089.5	3065.8	3033.2	3021.4	3030.3	3000.7	3000.7	3053.9	3098.3	3092.4
50°	3391.3	3397.2	3370.6	3355.8	3346.9	3370.6	3335.1	3302.5	3338.0	3382.4	3376.5
52.5°	3728.7	3743.4	3725.7	3731.6	3764.2	3793.8	3734.6	3663.5	3681.3	3710.9	3702.0
55°	4137.0	4154.8	4160.7	4181.4	4267.2	4317.5	4219.9	4101.5	4092.6	4095.6	4080.8
57.5°	4595.7	4607.5	4646.0	4693.4	4870.9	4950.8	4796.9	4592.8	4527.6	4489.2	4480.3
60°	5057.4	5078.1	5172.8	5270.4	5542.7	5687.7	5450.9	5107.7	4968.6	4897.6	4882.8
62.5°	5522.0	5563.4	5717.3	5883.0	6279.5	6495.5	6131.6	5634.4	5433.2	5344.4	5320.7
65°	6060.5	6110.8	6297.3	6507.4	6948.3	7253.1	6812.2	6178.9	5962.9	5844.5	5814.9
67.5°	6690.9	6744.1	6895.0	7128.8	7546.1	7845.0	7454.3	6735.2	6454.1	6303.2	6279.5
70°	7208.7	7256.1	7418.8	7655.6	7966.3	8306.6	7933.7	7179.1	6924.6	6818.1	6803.3
72.5°	7128.8	7191.0	7430.7	7785.8	8229.7	8614.4	8143.8	7264.9	6898.0	6750.0	6702.7
75°	6226.3	6294.3	6578.4	7220.6	8031.4	8605.5	7839.0	6693.8	6261.8	6137.5	6113.8
77.5°	4122.2	4187.3	4666.7	5678.8	7013.4	7842.0	6918.7	5607.8	4912.3	4613.5	4595.7
80°	1666.1	1748.9	2207.6	3281.8	4971.5	6096.0	5131.3	3589.6	2420.7	1953.1	1858.4
82.5°	387.7	461.6	671.7	1210.3	2545.0	3796.7	2766.9	1340.5	778.3	553.4	497.2
85°	162.8	165.7	287.0	393.6	796.0	1532.9	905.5	488.3	396.5	290.0	284.1
87.5°	62.1	65.1	139.1	165.7	254.5	290.0	307.8	251.5	233.8	145.0	139.1
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)