

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: P399425

Luminaire Tested: **ARCH-L-PA3-140-740-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399425
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-PA3-140-740-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 23174 lumens
Efficiency: N/A
Efficacy: 162.1 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

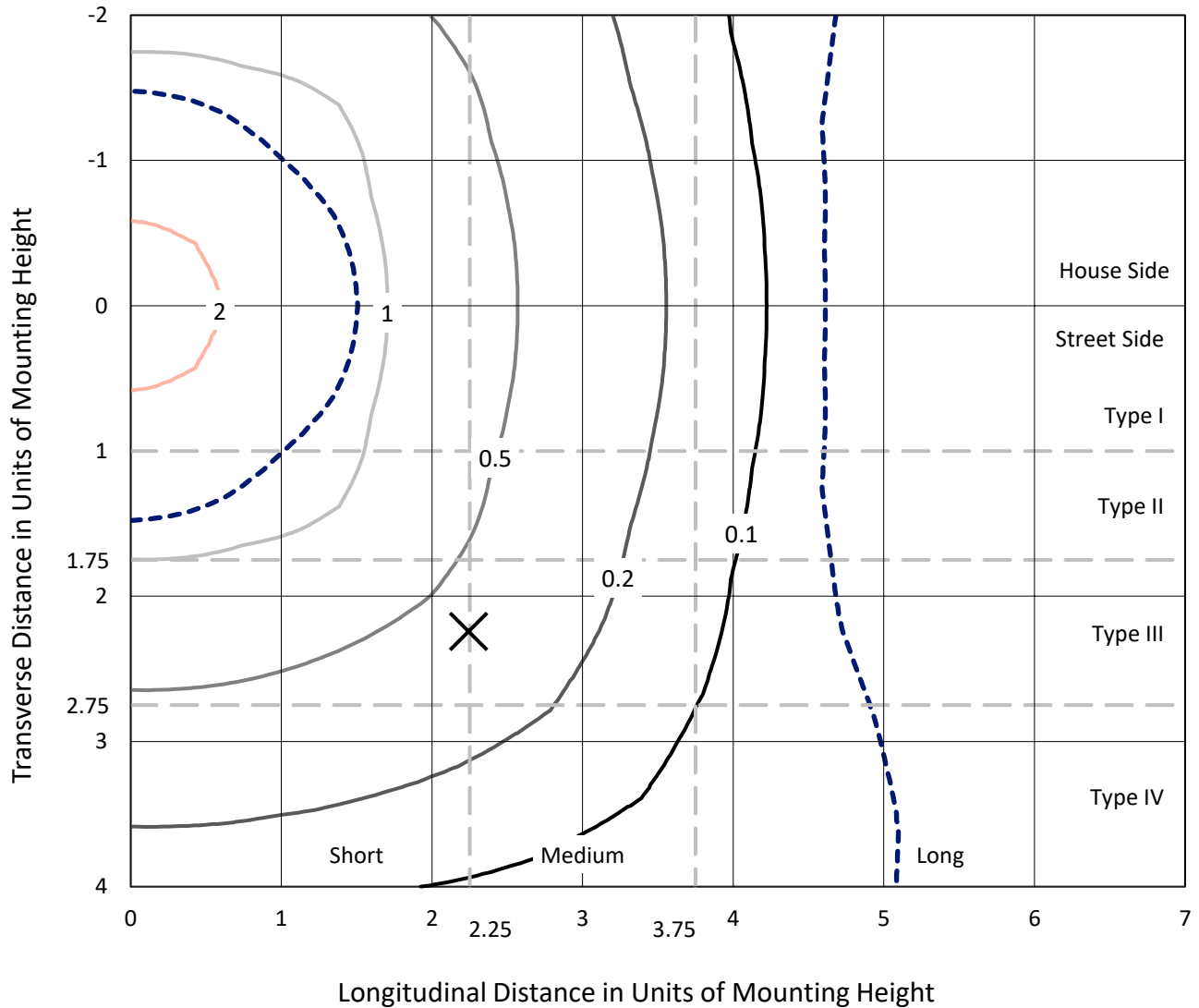
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

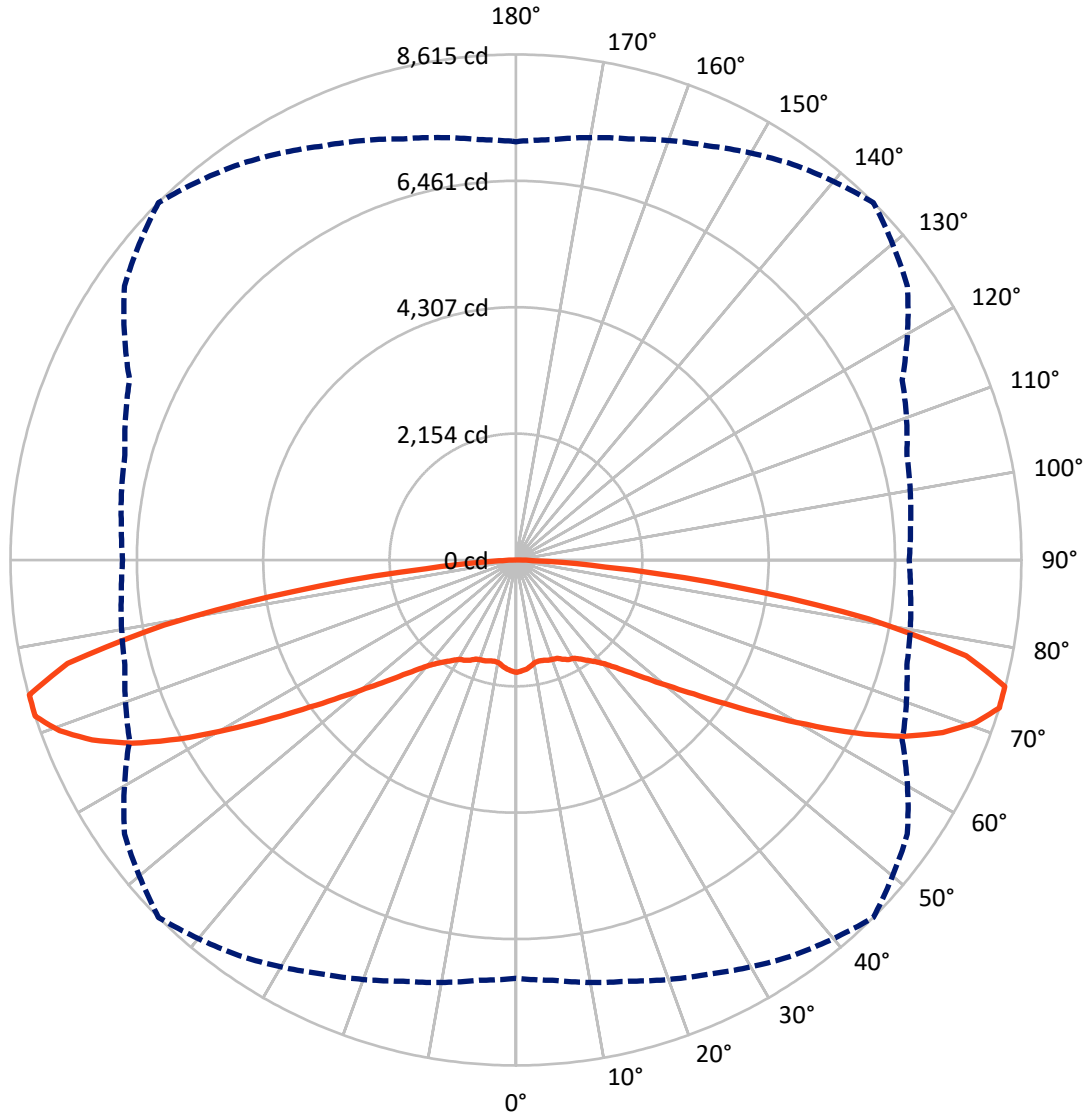
✕ Max cd
 - - - 1/2 Max cd



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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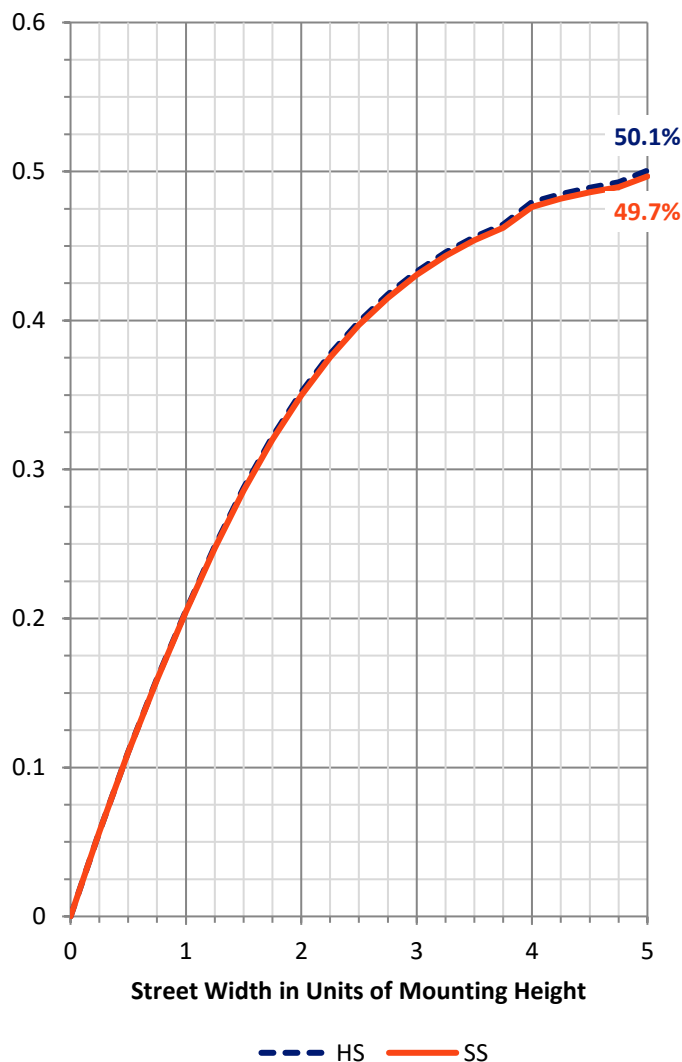
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11587.0	0.0	11587.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11587.0	0.0	11587.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23174.0	0.0	23174.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

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°	1322.9	5.7
40°-50°	2178.3	9.4
50°-60°	3803.9	16.4
60°-70°	6377.3	27.5
70°-80°	6825.0	29.5
80°-90°	1113.2	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°	23174.0	100.0
0°-180°	23174.0	100.0

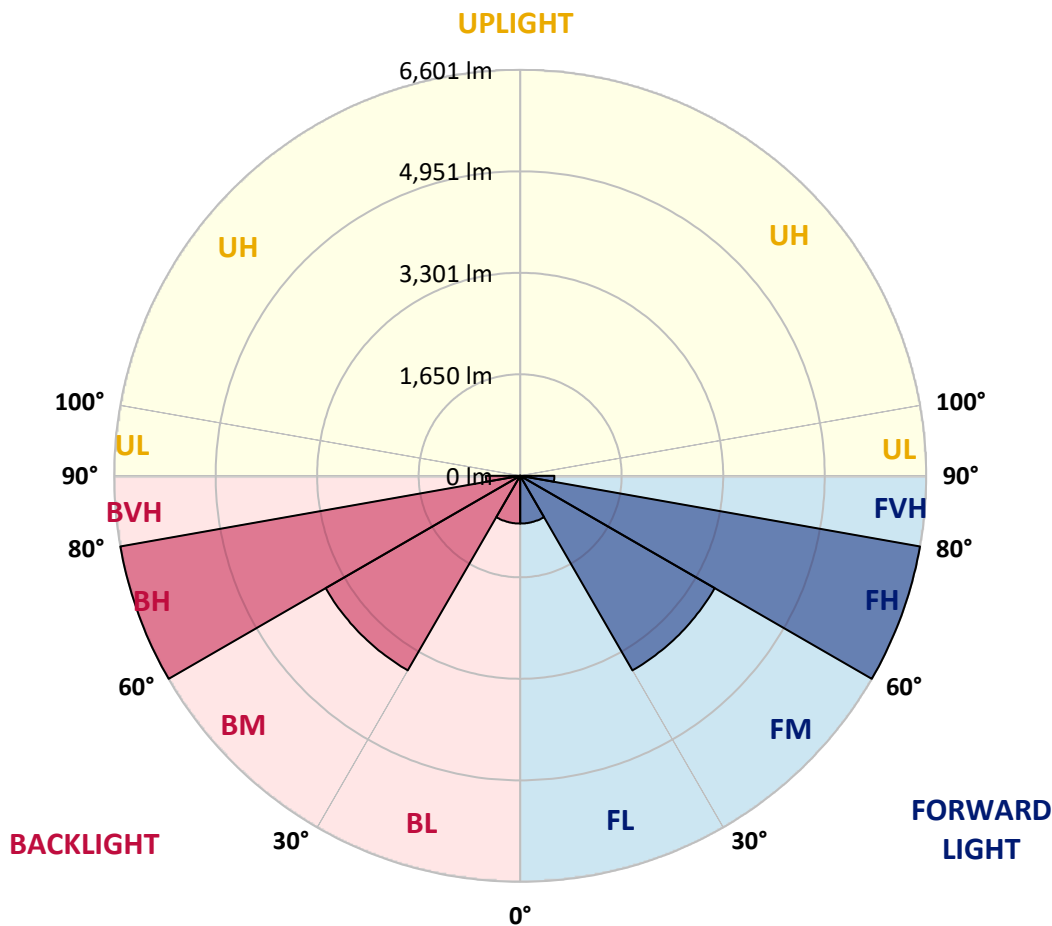


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.8	3.4			
FM (30°-60°)	3652.5	15.8			
FH (60°-80°)	6601.1	28.5			G3/7500
FVH (80°-90°)	556.6	2.4			G4/750
BL (0°-30°)	776.8	3.4	B2/1000		
BM (30°-60°)	3652.5	15.8	B3/5000		
BH (60°-80°)	6601.1	28.5	B5		G3/7500
BVH (80°-90°)	556.6	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°	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7	1917.7
2.5°	1905.8	1905.8	1905.8	1902.9	1897.0	1894.0	1888.1	1891.0	1891.0	1891.0	1891.0
5°	1882.2	1882.2	1879.2	1876.2	1870.3	1867.4	1861.4	1867.4	1867.4	1867.4	1867.4
7.5°	1837.8	1840.7	1840.7	1837.8	1828.9	1825.9	1817.1	1820.0	1820.0	1823.0	1820.0
10°	1814.1	1814.1	1811.1	1796.3	1781.5	1775.6	1772.7	1781.5	1790.4	1799.3	1799.3
12.5°	1814.1	1814.1	1808.2	1784.5	1763.8	1763.8	1763.8	1775.6	1793.4	1811.1	1814.1
15°	1823.0	1823.0	1811.1	1784.5	1772.7	1775.6	1775.6	1787.5	1808.2	1831.9	1834.8
17.5°	1828.9	1828.9	1814.1	1787.5	1787.5	1796.3	1790.4	1799.3	1820.0	1846.6	1849.6
20°	1837.8	1837.8	1817.1	1796.3	1796.3	1805.2	1805.2	1814.1	1831.9	1858.5	1861.4
22.5°	1855.5	1852.6	1831.9	1814.1	1814.1	1820.0	1825.9	1837.8	1852.6	1876.2	1882.2
25°	1876.2	1876.2	1858.5	1855.5	1861.4	1876.2	1873.3	1870.3	1876.2	1897.0	1905.8
27.5°	1888.1	1888.1	1876.2	1885.1	1908.8	1920.6	1905.8	1894.0	1894.0	1914.7	1917.7
30°	1926.6	1923.6	1911.8	1917.7	1938.4	1944.3	1935.4	1920.6	1929.5	1953.2	1956.1
32.5°	1991.7	1991.7	1973.9	1973.9	1988.7	2012.4	1982.8	1973.9	1985.7	2012.4	2015.3
35°	2092.3	2092.3	2068.6	2056.8	2068.6	2101.2	2056.8	2053.8	2074.5	2104.1	2107.1
37.5°	2219.5	2219.5	2204.7	2175.1	2178.1	2198.8	2160.3	2157.4	2195.9	2228.4	2228.4
40°	2379.3	2388.2	2373.4	2337.9	2326.1	2329.0	2299.4	2302.4	2346.8	2385.3	2385.3
42.5°	2577.6	2583.5	2559.9	2533.2	2518.4	2509.5	2480.0	2485.9	2539.1	2589.5	2589.5
45°	2817.3	2820.3	2796.6	2764.1	2746.3	2740.4	2710.8	2725.6	2784.8	2838.0	2835.1
47.5°	3086.6	3089.6	3065.9	3033.4	3021.5	3030.4	3000.8	3000.8	3054.1	3098.5	3092.5
50°	3391.4	3397.4	3370.7	3355.9	3347.1	3370.7	3335.2	3302.7	3338.2	3382.6	3376.6
52.5°	3728.8	3743.6	3725.9	3731.8	3764.3	3793.9	3734.7	3663.7	3681.5	3711.1	3702.2
55°	4137.2	4155.0	4160.9	4181.6	4267.4	4317.7	4220.1	4101.7	4092.8	4095.8	4081.0
57.5°	4595.9	4607.7	4646.2	4693.6	4871.1	4951.0	4797.1	4592.9	4527.8	4489.4	4480.5
60°	5057.6	5078.3	5173.0	5270.6	5542.9	5687.9	5451.2	5107.9	4968.8	4897.8	4883.0
62.5°	5522.2	5563.6	5717.5	5883.2	6279.8	6495.8	6131.8	5634.6	5433.4	5344.6	5321.0
65°	6060.8	6111.1	6297.5	6507.7	6948.6	7253.4	6812.5	6179.2	5963.1	5844.8	5815.2
67.5°	6691.1	6744.4	6895.3	7129.1	7546.4	7845.3	7454.7	6735.5	6454.4	6303.5	6279.8
70°	7209.0	7256.4	7419.2	7655.9	7966.6	8307.0	7934.1	7179.4	6924.9	6818.4	6803.6
72.5°	7129.1	7191.3	7431.0	7786.1	8230.0	8614.7	8144.2	7265.3	6898.3	6750.3	6703.0
75°	6226.5	6294.6	6578.7	7220.9	8031.7	8605.9	7839.4	6694.1	6262.0	6137.7	6114.1
77.5°	4122.4	4187.5	4666.9	5679.0	7013.7	7842.3	6919.0	5608.0	4912.6	4613.7	4595.9
80°	1666.1	1749.0	2207.7	3281.9	4971.7	6096.3	5131.6	3589.7	2420.8	1953.2	1858.5
82.5°	387.7	461.7	671.8	1210.4	2545.1	3796.9	2767.0	1340.6	778.3	553.4	497.2
85°	162.8	165.7	287.1	393.6	796.1	1533.0	905.6	488.3	396.6	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)