

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: P399623

Luminaire Tested: **ARCH-L-PA3-170-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399623
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-PA3-170-727-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22521 lumens
Efficiency: N/A
Efficacy: 130.2 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

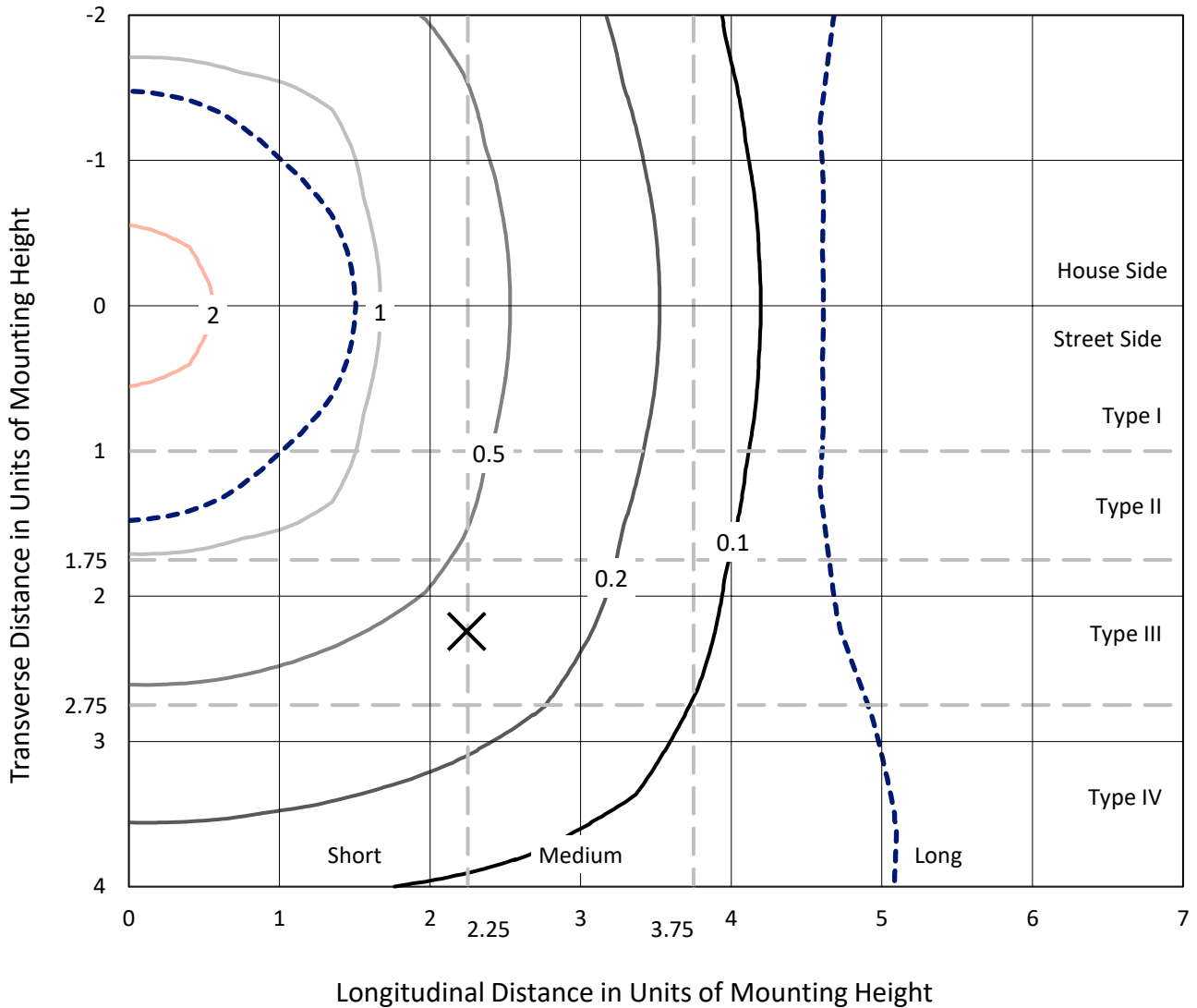
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

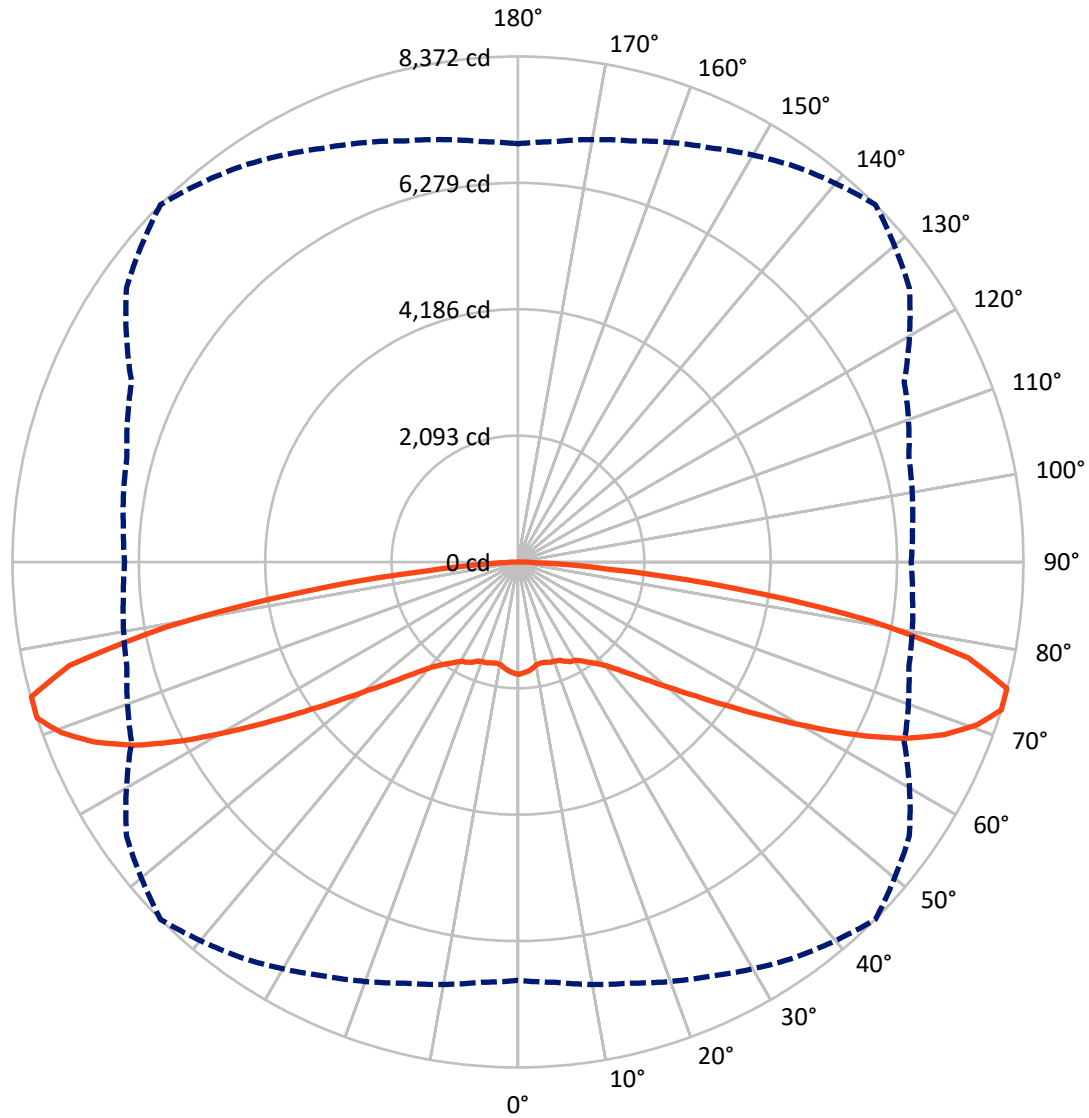
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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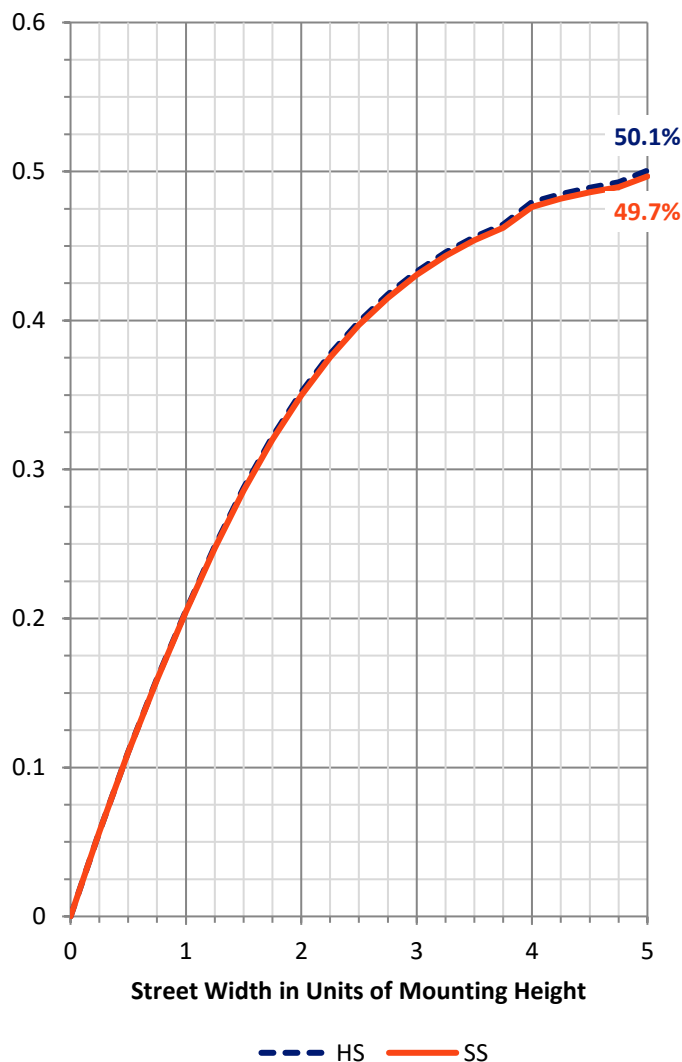
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11260.5	0.0	11260.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11260.5	0.0	11260.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22521.0	0.0	22521.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	0.8
10°-20°	496.1	2.2
20°-30°	842.9	3.7
30°-40°	1285.6	5.7
40°-50°	2116.9	9.4
50°-60°	3696.7	16.4
60°-70°	6197.6	27.5
70°-80°	6632.7	29.5
80°-90°	1081.8	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°	22521.0	100.0
0°-180°	22521.0	100.0

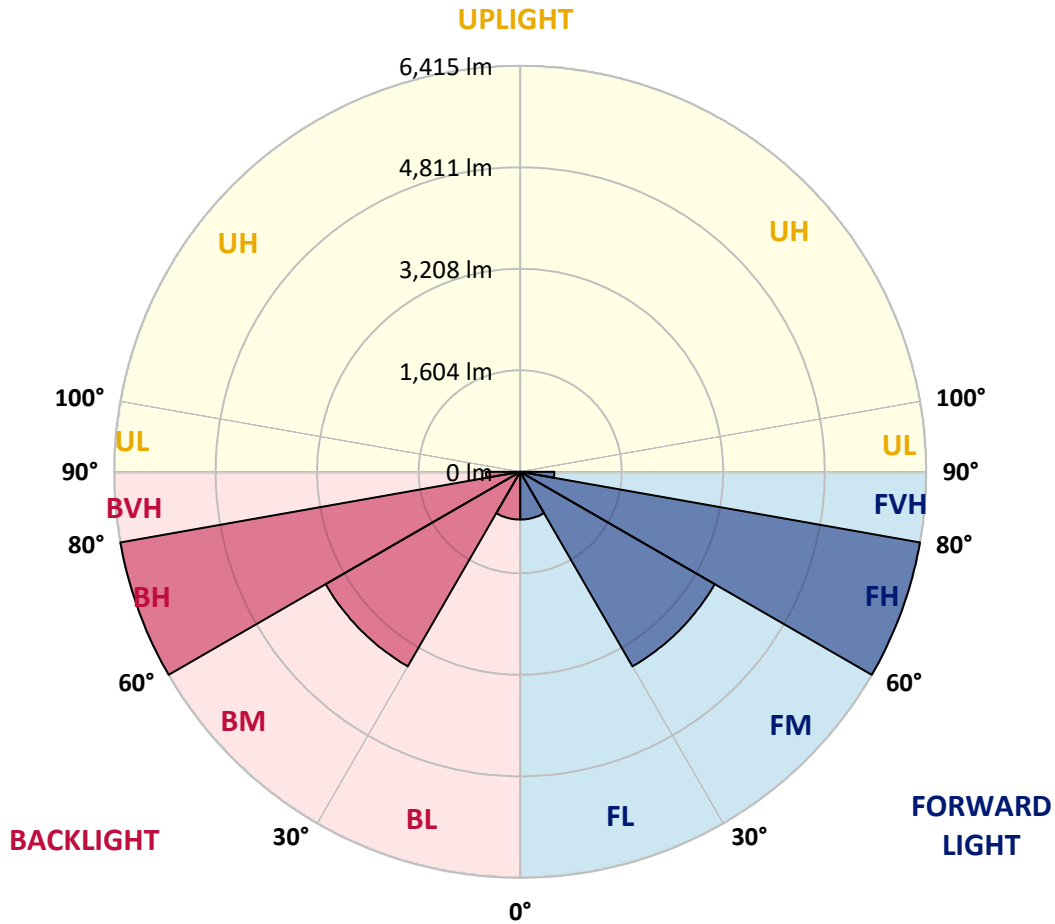


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	754.9	3.4			
FM (30°-60°)	3549.6	15.8			
FH (60°-80°)	6415.1	28.5			G3/7500
FVH (80°-90°)	540.9	2.4			G4/750
BL (0°-30°)	754.9	3.4	B2/1000		
BM (30°-60°)	3549.6	15.8	B3/5000		
BH (60°-80°)	6415.1	28.5	B5		G3/7500
BVH (80°-90°)	540.9	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°	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6	1863.6
2.5°	1852.1	1852.1	1852.1	1849.3	1843.5	1840.6	1834.9	1837.8	1837.8	1837.8	1837.8
5°	1829.1	1829.1	1826.2	1823.4	1817.6	1814.7	1809.0	1814.7	1814.7	1814.7	1814.7
7.5°	1786.0	1788.9	1788.9	1786.0	1777.4	1774.5	1765.9	1768.7	1768.7	1771.6	1768.7
10°	1763.0	1763.0	1760.1	1745.7	1731.3	1725.6	1722.7	1731.3	1740.0	1748.6	1748.6
12.5°	1763.0	1763.0	1757.2	1734.2	1714.1	1714.1	1714.1	1725.6	1742.8	1760.1	1763.0
15°	1771.6	1771.6	1760.1	1734.2	1722.7	1725.6	1725.6	1737.1	1757.2	1780.2	1783.1
17.5°	1777.4	1777.4	1763.0	1737.1	1737.1	1745.7	1740.0	1748.6	1768.7	1794.6	1797.5
20°	1786.0	1786.0	1765.9	1745.7	1745.7	1754.4	1754.4	1763.0	1780.2	1806.1	1809.0
22.5°	1803.2	1800.4	1780.2	1763.0	1763.0	1768.7	1774.5	1786.0	1800.4	1823.4	1829.1
25°	1823.4	1823.4	1806.1	1803.2	1809.0	1823.4	1820.5	1817.6	1823.4	1843.5	1852.1
27.5°	1834.9	1834.9	1823.4	1832.0	1855.0	1866.5	1852.1	1840.6	1840.6	1860.8	1863.6
30°	1872.3	1869.4	1857.9	1863.6	1883.8	1889.5	1880.9	1866.5	1875.1	1898.1	1901.0
32.5°	1935.5	1935.5	1918.3	1918.3	1932.7	1955.7	1926.9	1918.3	1929.8	1955.7	1958.5
35°	2033.3	2033.3	2010.3	1998.8	2010.3	2041.9	1998.8	1995.9	2016.1	2044.8	2047.7
37.5°	2157.0	2157.0	2142.6	2113.8	2116.7	2136.9	2099.5	2096.6	2134.0	2165.6	2165.6
40°	2312.3	2320.9	2306.5	2272.0	2260.5	2263.4	2234.6	2237.5	2280.7	2318.0	2318.0
42.5°	2505.0	2510.7	2487.7	2461.8	2447.5	2438.8	2410.1	2415.8	2467.6	2516.5	2516.5
45°	2737.9	2740.8	2717.8	2686.2	2668.9	2663.2	2634.4	2648.8	2706.3	2758.1	2755.2
47.5°	2999.7	3002.5	2979.5	2947.9	2936.4	2945.0	2916.2	2916.2	2968.0	3011.2	3005.4
50°	3295.9	3301.6	3275.7	3261.4	3252.7	3275.7	3241.2	3209.6	3244.1	3287.2	3281.5
52.5°	3623.7	3638.1	3620.9	3626.6	3658.3	3687.0	3629.5	3560.5	3577.7	3606.5	3597.9
55°	4020.6	4037.9	4043.6	4063.8	4147.2	4196.1	4101.2	3986.1	3977.5	3980.4	3966.0
57.5°	4466.4	4477.9	4515.3	4561.3	4733.9	4811.5	4662.0	4463.5	4400.3	4362.9	4354.2
60°	4915.1	4935.2	5027.2	5122.1	5386.7	5527.6	5297.6	4963.9	4828.8	4759.8	4745.4
62.5°	5366.6	5406.9	5556.4	5717.5	6102.8	6312.8	5959.0	5475.9	5280.3	5194.0	5171.0
65°	5890.0	5938.9	6120.1	6324.3	6752.8	7049.0	6620.5	6005.1	5795.1	5680.1	5651.3
67.5°	6502.6	6554.4	6701.0	6928.2	7333.8	7624.2	7244.6	6545.7	6272.5	6125.8	6102.8
70°	7005.9	7051.9	7210.1	7440.2	7742.1	8072.9	7710.5	6977.1	6729.8	6626.3	6611.9
72.5°	6928.2	6988.6	7221.6	7566.7	7998.1	8372.0	7914.7	7060.5	6703.9	6560.1	6514.1
75°	6051.1	6117.2	6393.3	7017.4	7805.4	8363.4	7618.5	6505.5	6085.6	5964.8	5941.8
77.5°	4006.2	4069.5	4535.4	5519.0	6816.1	7621.4	6724.1	5450.0	4774.1	4483.7	4466.4
80°	1619.2	1699.7	2145.5	3189.5	4831.7	5924.5	4987.0	3488.6	2352.6	1898.1	1806.1
82.5°	376.8	448.7	652.8	1176.3	2473.3	3689.9	2689.0	1302.8	756.4	537.8	483.2
85°	158.2	161.1	279.0	382.5	773.6	1489.8	880.1	474.5	385.4	281.8	276.1
87.5°	60.4	63.3	135.2	161.1	247.3	281.8	299.1	244.5	227.2	140.9	135.2
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)