

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: P399749

Luminaire Tested: **ARCH-L-PA3-180-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399749
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-PA3-180-830-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21911 lumens
Efficiency: N/A
Efficacy: 121.1 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

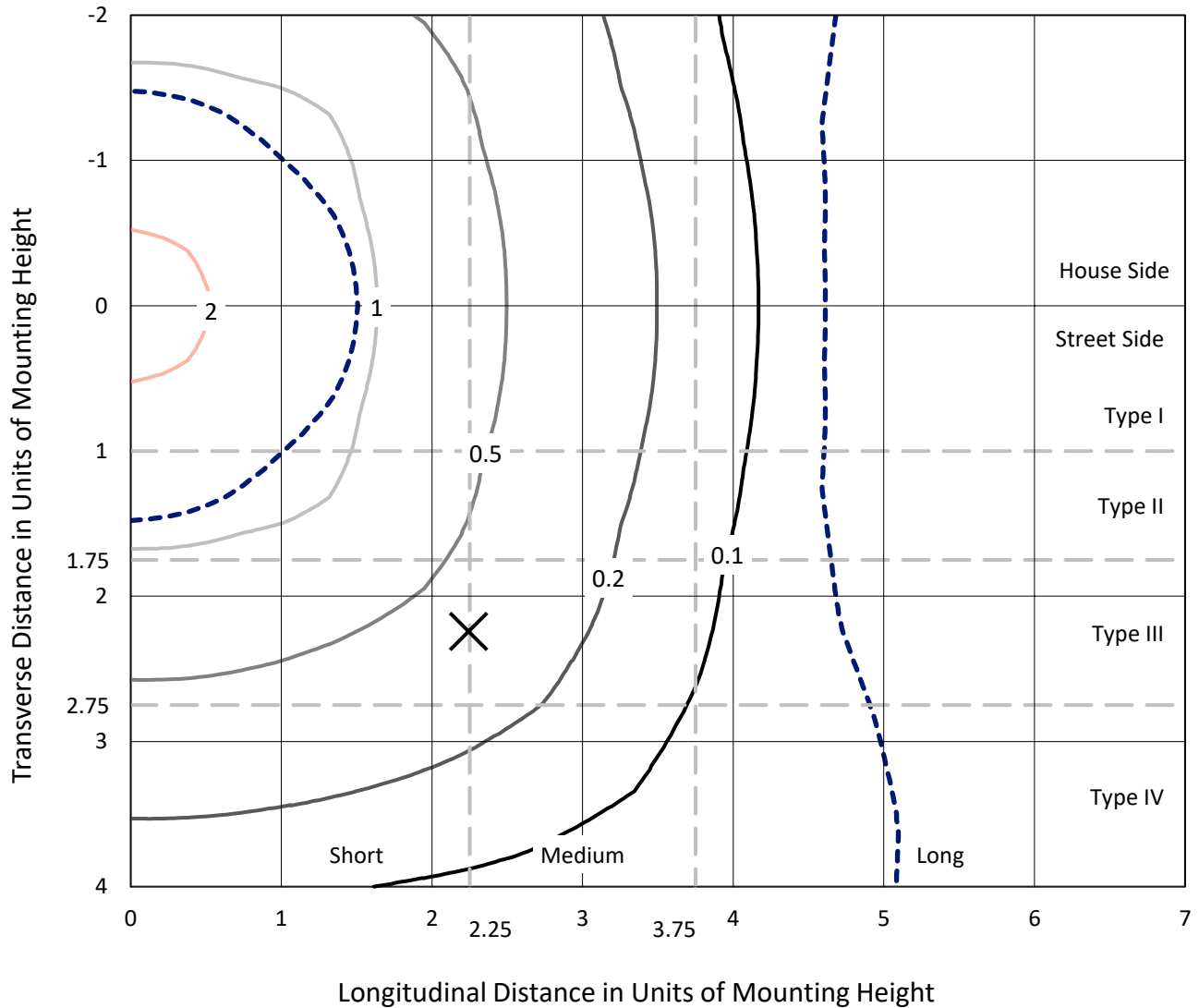
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

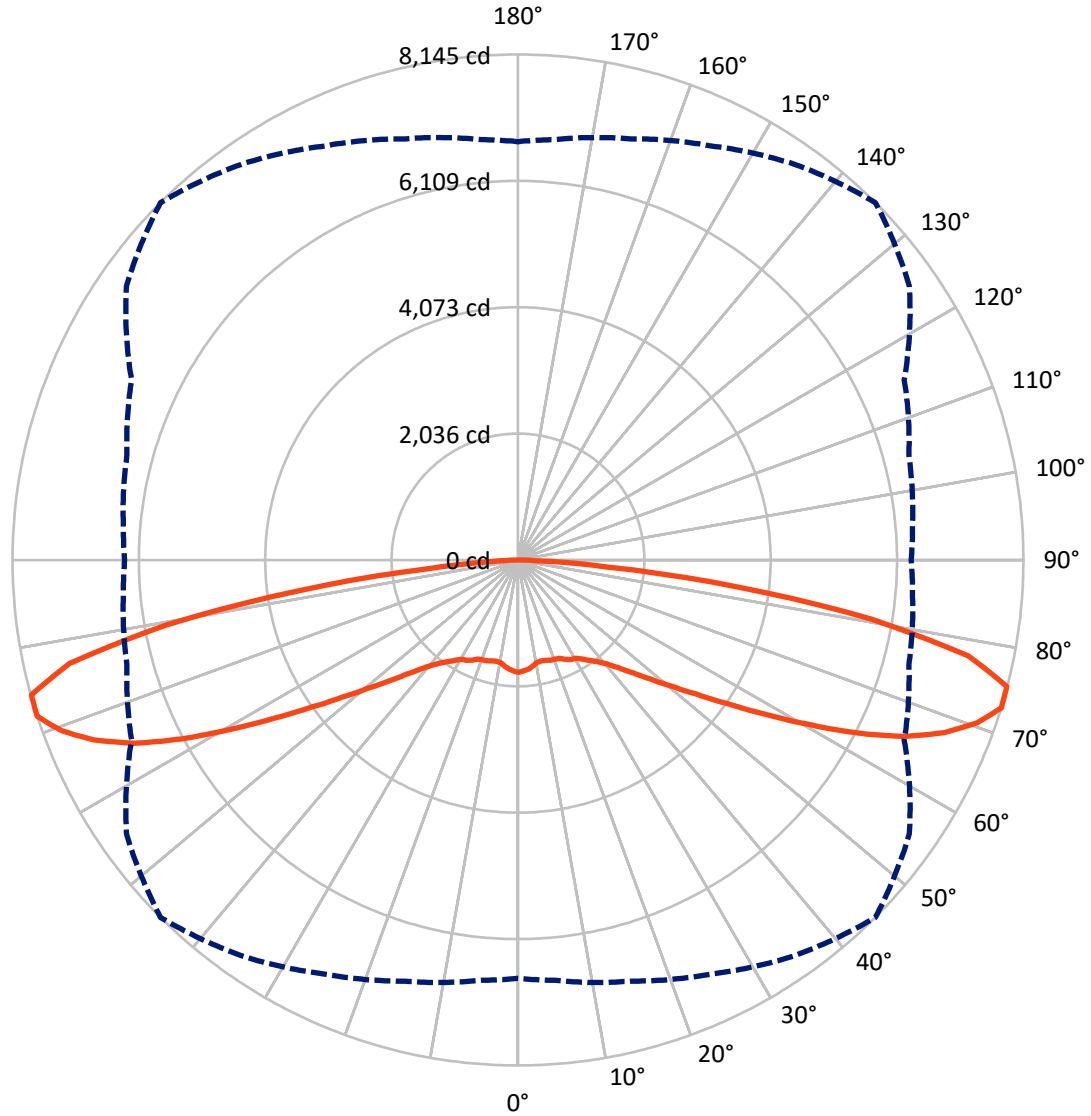
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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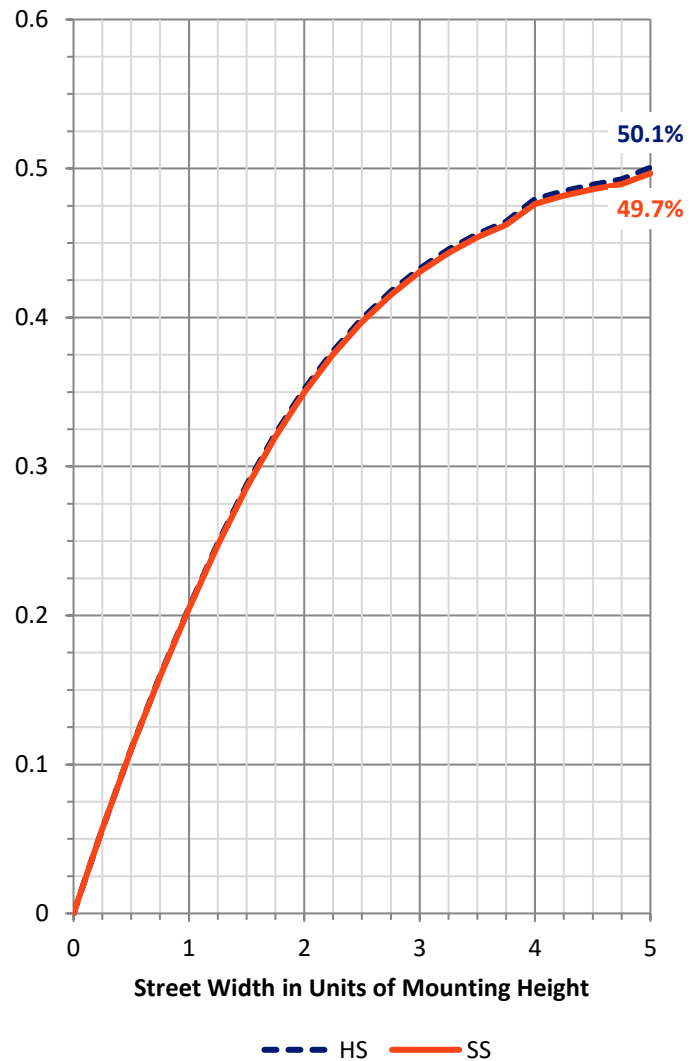
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10955.5	0.0	10955.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10955.5	0.0	10955.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21911.0	0.0	21911.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	0.8
10°-20°	482.6	2.2
20°-30°	820.0	3.7
30°-40°	1250.8	5.7
40°-50°	2059.5	9.4
50°-60°	3596.6	16.4
60°-70°	6029.7	27.5
70°-80°	6453.0	29.5
80°-90°	1052.5	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°	21911.0	100.0
0°-180°	21911.0	100.0

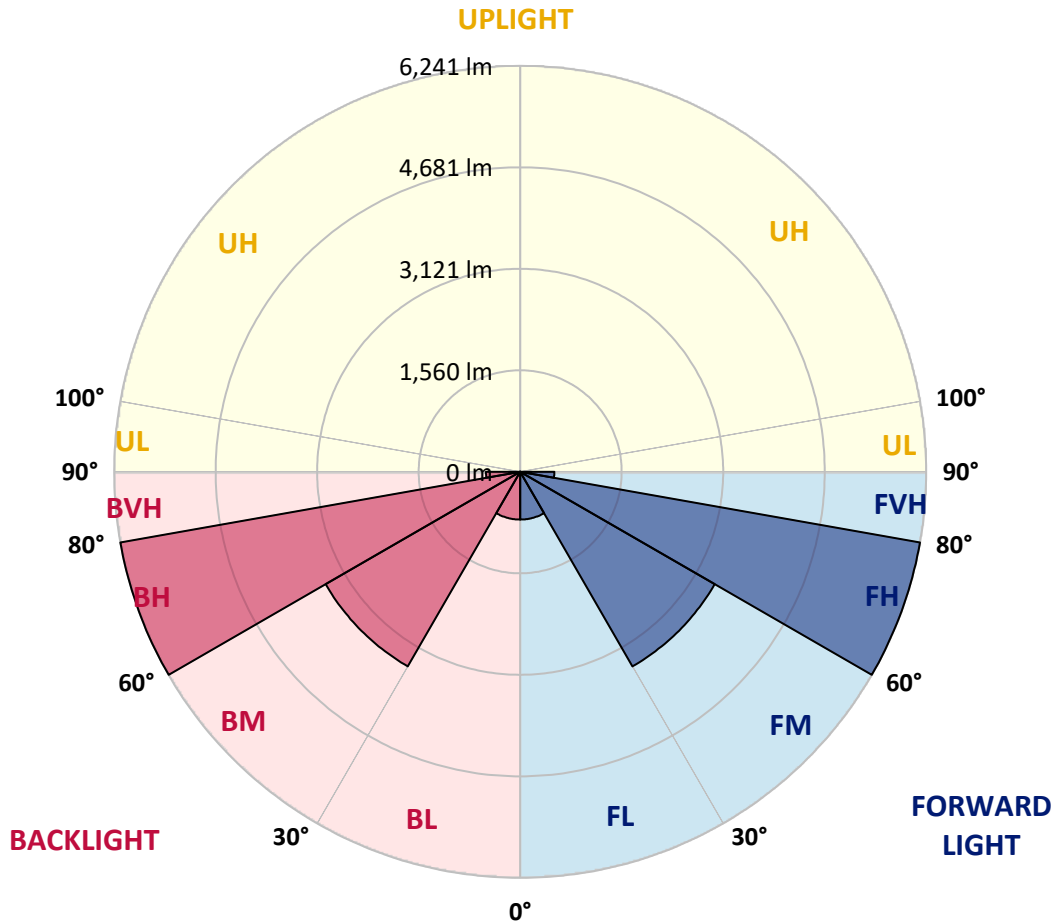


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	734.5	3.4			
FM (30°-60°)	3453.4	15.8			
FH (60°-80°)	6241.4	28.5			G3/7500
FVH (80°-90°)	526.2	2.4			G4/750
BL (0°-30°)	734.5	3.4	B2/1000		
BM (30°-60°)	3453.4	15.8	B3/5000		
BH (60°-80°)	6241.4	28.5	B5		G3/7500
BVH (80°-90°)	526.2	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°	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2	1813.2
2.5°	1802.0	1802.0	1802.0	1799.2	1793.6	1790.8	1785.2	1788.0	1788.0	1788.0	1788.0
5°	1779.6	1779.6	1776.8	1774.0	1768.4	1765.6	1760.0	1765.6	1765.6	1765.6	1765.6
7.5°	1737.6	1740.4	1740.4	1737.6	1729.2	1726.4	1718.0	1720.8	1720.8	1723.6	1720.8
10°	1715.2	1715.2	1712.4	1698.4	1684.4	1678.9	1676.1	1684.4	1692.8	1701.2	1701.2
12.5°	1715.2	1715.2	1709.6	1687.2	1667.7	1667.7	1667.7	1678.9	1695.6	1712.4	1715.2
15°	1723.6	1723.6	1712.4	1687.2	1676.1	1678.9	1678.9	1690.0	1709.6	1732.0	1734.8
17.5°	1729.2	1729.2	1715.2	1690.0	1690.0	1698.4	1692.8	1701.2	1720.8	1746.0	1748.8
20°	1737.6	1737.6	1718.0	1698.4	1698.4	1706.8	1706.8	1715.2	1732.0	1757.2	1760.0
22.5°	1754.4	1751.6	1732.0	1715.2	1715.2	1720.8	1726.4	1737.6	1751.6	1774.0	1779.6
25°	1774.0	1774.0	1757.2	1754.4	1760.0	1774.0	1771.2	1768.4	1774.0	1793.6	1802.0
27.5°	1785.2	1785.2	1774.0	1782.4	1804.8	1816.0	1802.0	1790.8	1790.8	1810.4	1813.2
30°	1821.6	1818.8	1807.6	1813.2	1832.7	1838.3	1829.9	1816.0	1824.4	1846.7	1849.5
32.5°	1883.1	1883.1	1866.3	1866.3	1880.3	1902.7	1874.7	1866.3	1877.5	1902.7	1905.5
35°	1978.2	1978.2	1955.9	1944.7	1955.9	1986.6	1944.7	1941.9	1961.5	1989.4	1992.2
37.5°	2098.6	2098.6	2084.6	2056.6	2059.4	2079.0	2042.6	2039.8	2076.2	2107.0	2107.0
40°	2249.7	2258.1	2244.1	2210.5	2199.3	2202.1	2174.1	2176.9	2218.9	2255.3	2255.3
42.5°	2437.1	2442.7	2420.3	2395.2	2381.2	2372.8	2344.8	2350.4	2400.8	2448.3	2448.3
45°	2663.8	2666.6	2644.2	2613.4	2596.6	2591.0	2563.0	2577.0	2633.0	2683.4	2680.6
47.5°	2918.4	2921.2	2898.8	2868.0	2856.8	2865.2	2837.3	2837.3	2887.6	2929.6	2924.0
50°	3206.6	3212.2	3187.0	3173.0	3164.6	3187.0	3153.4	3122.7	3156.2	3198.2	3192.6
52.5°	3525.6	3539.6	3522.8	3528.4	3559.2	3587.1	3531.2	3464.0	3480.8	3508.8	3500.4
55°	3911.7	3928.5	3934.1	3953.7	4034.8	4082.4	3990.1	3878.1	3869.8	3872.6	3858.6
57.5°	4345.4	4356.6	4393.0	4437.8	4605.6	4681.2	4535.7	4342.6	4281.1	4244.7	4236.3
60°	4781.9	4801.5	4891.1	4983.4	5240.8	5377.9	5154.1	4829.5	4698.0	4630.8	4616.8
62.5°	5221.2	5260.4	5405.9	5562.6	5937.5	6141.8	5797.6	5327.6	5137.3	5053.3	5031.0
65°	5730.5	5778.0	5954.3	6153.0	6569.9	6858.1	6441.2	5842.4	5638.1	5526.2	5498.2
67.5°	6326.5	6376.8	6519.5	6740.6	7135.1	7417.7	7048.4	6368.4	6102.6	5959.9	5937.5
70°	6816.1	6860.9	7014.8	7238.6	7532.4	7854.2	7501.7	6788.2	6547.5	6446.8	6432.8
72.5°	6740.6	6799.3	7026.0	7361.8	7781.5	8145.2	7700.3	6869.3	6522.3	6382.4	6337.7
75°	5887.2	5951.5	6220.1	6827.3	7594.0	8136.8	7412.1	6329.3	5920.7	5803.2	5780.8
77.5°	3897.7	3959.3	4412.6	5369.5	6631.5	7414.9	6541.9	5302.4	4644.8	4362.2	4345.4
80°	1575.3	1653.7	2087.4	3103.1	4700.8	5764.1	4851.9	3394.1	2288.8	1846.7	1757.2
82.5°	366.5	436.5	635.2	1144.4	2406.4	3589.9	2616.2	1267.5	735.9	523.2	470.1
85°	153.9	156.7	271.4	372.1	752.7	1449.4	856.2	461.7	374.9	274.2	268.6
87.5°	58.8	61.6	131.5	156.7	240.6	274.2	291.0	237.8	221.0	137.1	131.5
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)