

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: P399551

Luminaire Tested: **ARCH-L-PA3-160-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399551
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-PA3-160-727-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21491 lumens
Efficiency: N/A
Efficacy: 132.7 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

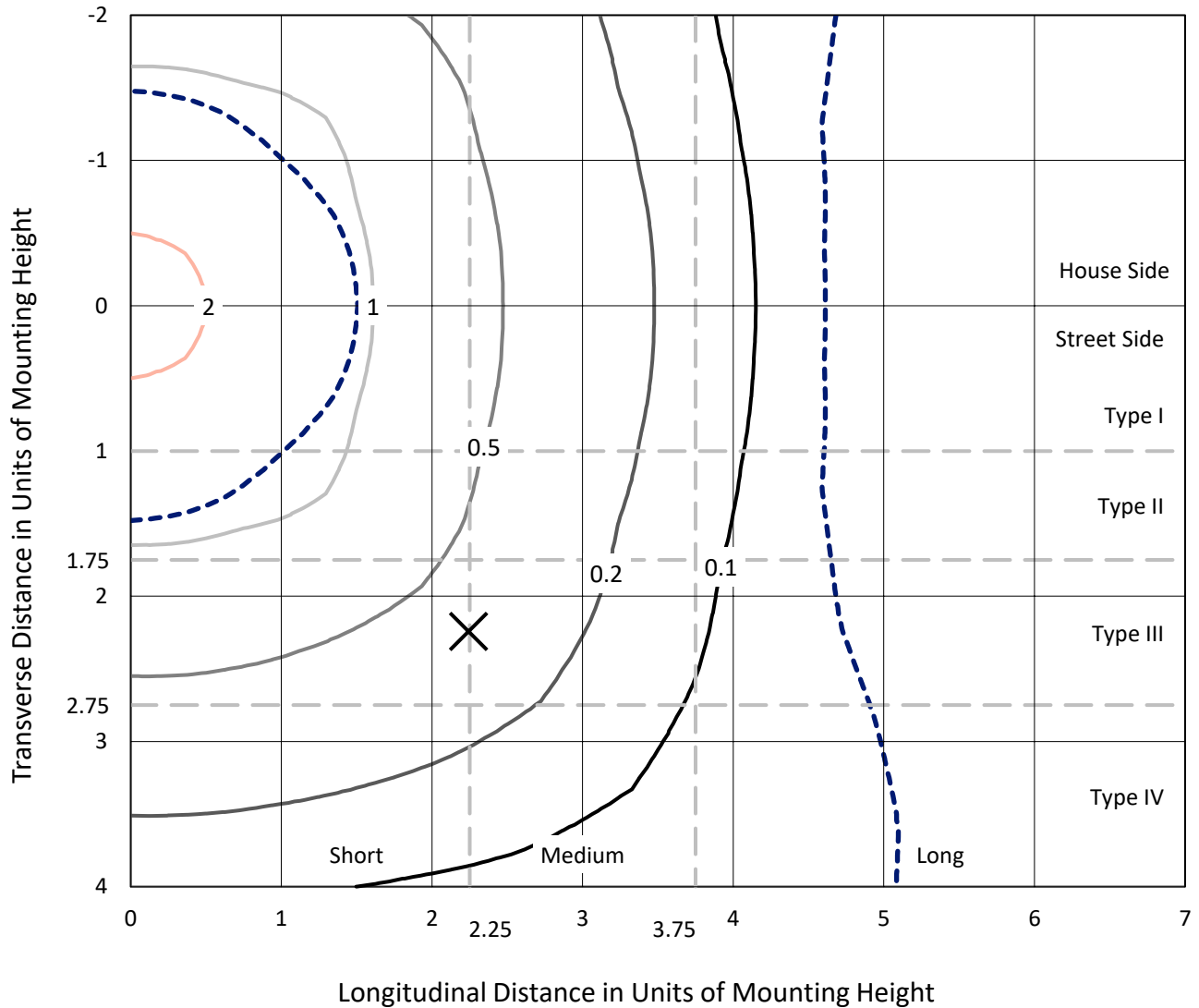
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

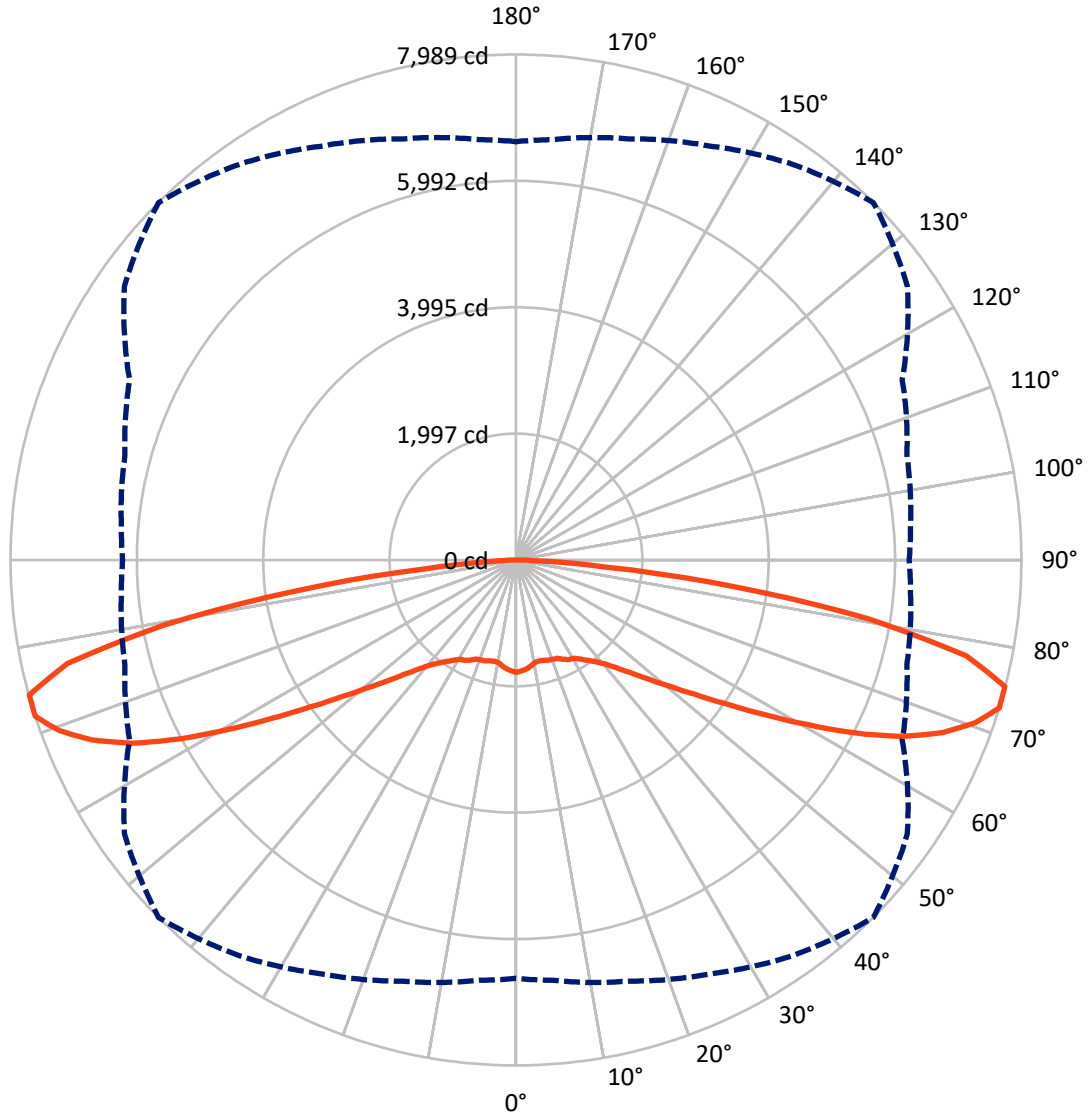
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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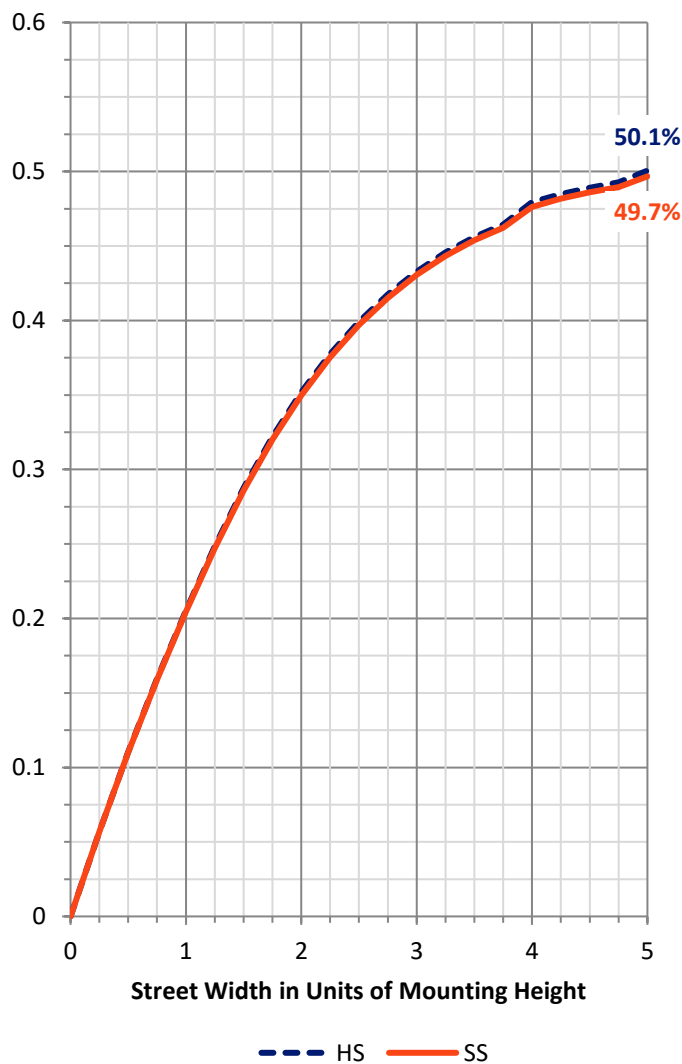
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10745.5	0.0	10745.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10745.5	0.0	10745.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21491.0	0.0	21491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	0.8
10°-20°	473.4	2.2
20°-30°	804.3	3.7
30°-40°	1226.8	5.7
40°-50°	2020.1	9.4
50°-60°	3527.6	16.4
60°-70°	5914.1	27.5
70°-80°	6329.3	29.5
80°-90°	1032.3	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°	21491.0	100.0
0°-180°	21491.0	100.0

Coefficient of Utilization

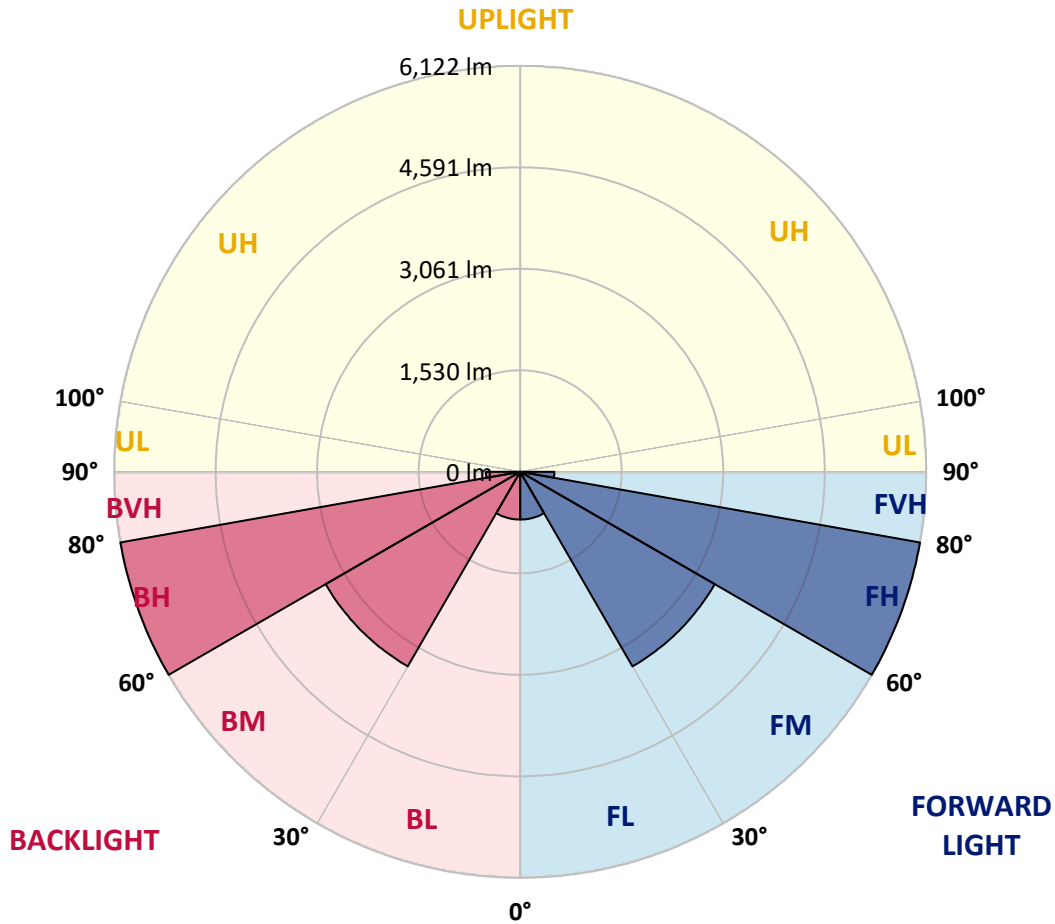


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.4	3.4			
FM (30°-60°)	3387.2	15.8			
FH (60°-80°)	6121.7	28.5			G3/7500
FVH (80°-90°)	516.2	2.4			G4/750
BL (0°-30°)	720.4	3.4	B2/1000		
BM (30°-60°)	3387.2	15.8	B3/5000		
BH (60°-80°)	6121.7	28.5	B5		G3/7500
BVH (80°-90°)	516.2	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°	1778.4	1778.4	1778.4	1778.4	1778.4	1778.4	1778.4	1778.4	1778.4	1778.4	1778.4
2.5°	1767.4	1767.4	1767.4	1764.7	1759.2	1756.4	1751.0	1753.7	1753.7	1753.7	1753.7
5°	1745.5	1745.5	1742.7	1740.0	1734.5	1731.7	1726.3	1731.7	1731.7	1731.7	1731.7
7.5°	1704.3	1707.0	1707.0	1704.3	1696.1	1693.3	1685.1	1687.8	1687.8	1690.6	1687.8
10°	1682.3	1682.3	1679.6	1665.9	1652.2	1646.7	1643.9	1652.2	1660.4	1668.6	1668.6
12.5°	1682.3	1682.3	1676.9	1654.9	1635.7	1635.7	1635.7	1646.7	1663.1	1679.6	1682.3
15°	1690.6	1690.6	1679.6	1654.9	1643.9	1646.7	1646.7	1657.6	1676.9	1698.8	1701.6
17.5°	1696.1	1696.1	1682.3	1657.6	1657.6	1665.9	1660.4	1668.6	1687.8	1712.5	1715.3
20°	1704.3	1704.3	1685.1	1665.9	1665.9	1674.1	1674.1	1682.3	1698.8	1723.5	1726.3
22.5°	1720.8	1718.0	1698.8	1682.3	1682.3	1687.8	1693.3	1704.3	1718.0	1740.0	1745.5
25°	1740.0	1740.0	1723.5	1720.8	1726.3	1740.0	1737.2	1734.5	1740.0	1759.2	1767.4
27.5°	1751.0	1751.0	1740.0	1748.2	1770.2	1781.1	1767.4	1756.4	1756.4	1775.7	1778.4
30°	1786.6	1783.9	1772.9	1778.4	1797.6	1803.1	1794.9	1781.1	1789.4	1811.3	1814.1
32.5°	1847.0	1847.0	1830.5	1830.5	1844.3	1866.2	1838.8	1830.5	1841.5	1866.2	1869.0
35°	1940.3	1940.3	1918.4	1907.4	1918.4	1948.6	1907.4	1904.6	1923.9	1951.3	1954.0
37.5°	2058.3	2058.3	2044.6	2017.2	2019.9	2039.1	2003.4	2000.7	2036.4	2066.6	2066.6
40°	2206.5	2214.8	2201.0	2168.1	2157.1	2159.9	2132.4	2135.2	2176.3	2212.0	2212.0
42.5°	2390.4	2395.9	2373.9	2349.2	2335.5	2327.3	2299.8	2305.3	2354.7	2401.4	2401.4
45°	2612.7	2615.5	2593.5	2563.3	2546.9	2541.4	2513.9	2527.6	2582.5	2631.9	2629.2
47.5°	2862.5	2865.2	2843.3	2813.1	2802.1	2810.3	2782.9	2782.9	2832.3	2873.4	2868.0
50°	3145.1	3150.6	3125.9	3112.2	3104.0	3125.9	3093.0	3062.8	3095.7	3136.9	3131.4
52.5°	3458.0	3471.7	3455.3	3460.8	3490.9	3518.4	3463.5	3397.6	3414.1	3441.5	3433.3
55°	3836.7	3853.2	3858.7	3877.9	3957.5	4004.2	3913.6	3803.8	3795.6	3798.3	3784.6
57.5°	4262.1	4273.1	4308.8	4352.7	4517.4	4591.5	4448.8	4259.4	4199.0	4163.3	4155.1
60°	4690.3	4709.5	4797.3	4887.9	5140.4	5274.8	5055.3	4736.9	4607.9	4542.1	4528.3
62.5°	5121.1	5159.6	5302.3	5456.0	5823.7	6024.1	5686.5	5225.4	5038.8	4956.5	4934.5
65°	5620.6	5667.3	5840.2	6035.0	6444.0	6726.6	6317.7	5730.4	5530.1	5420.3	5392.8
67.5°	6205.2	6254.6	6394.6	6611.4	6998.3	7275.5	6913.3	6246.4	5985.6	5845.7	5823.7
70°	6685.5	6729.4	6880.3	7099.9	7388.1	7703.7	7357.9	6658.0	6422.0	6323.2	6309.5
72.5°	6611.4	6669.0	6891.3	7220.7	7632.3	7989.1	7552.7	6737.6	6397.3	6260.1	6216.2
75°	5774.3	5837.4	6100.9	6696.5	7448.4	7980.9	7270.1	6207.9	5807.3	5692.0	5670.0
77.5°	3823.0	3883.4	4328.0	5266.6	6504.3	7272.8	6416.5	5200.7	4555.8	4278.6	4262.1
80°	1545.1	1622.0	2047.4	3043.6	4610.7	5653.6	4758.9	3329.0	2245.0	1811.3	1723.5
82.5°	359.5	428.1	623.0	1122.5	2360.2	3521.1	2566.1	1243.2	721.8	513.2	461.1
85°	150.9	153.7	266.2	365.0	738.3	1421.6	839.8	452.8	367.8	269.0	263.5
87.5°	57.6	60.4	129.0	153.7	236.0	269.0	285.4	233.3	216.8	134.5	129.0
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)