

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: P399695

Luminaire Tested: **ARCH-L-PA3-180-727-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399695
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-PA3-180-727-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 23060 lumens
Efficiency: N/A
Efficacy: 127.4 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

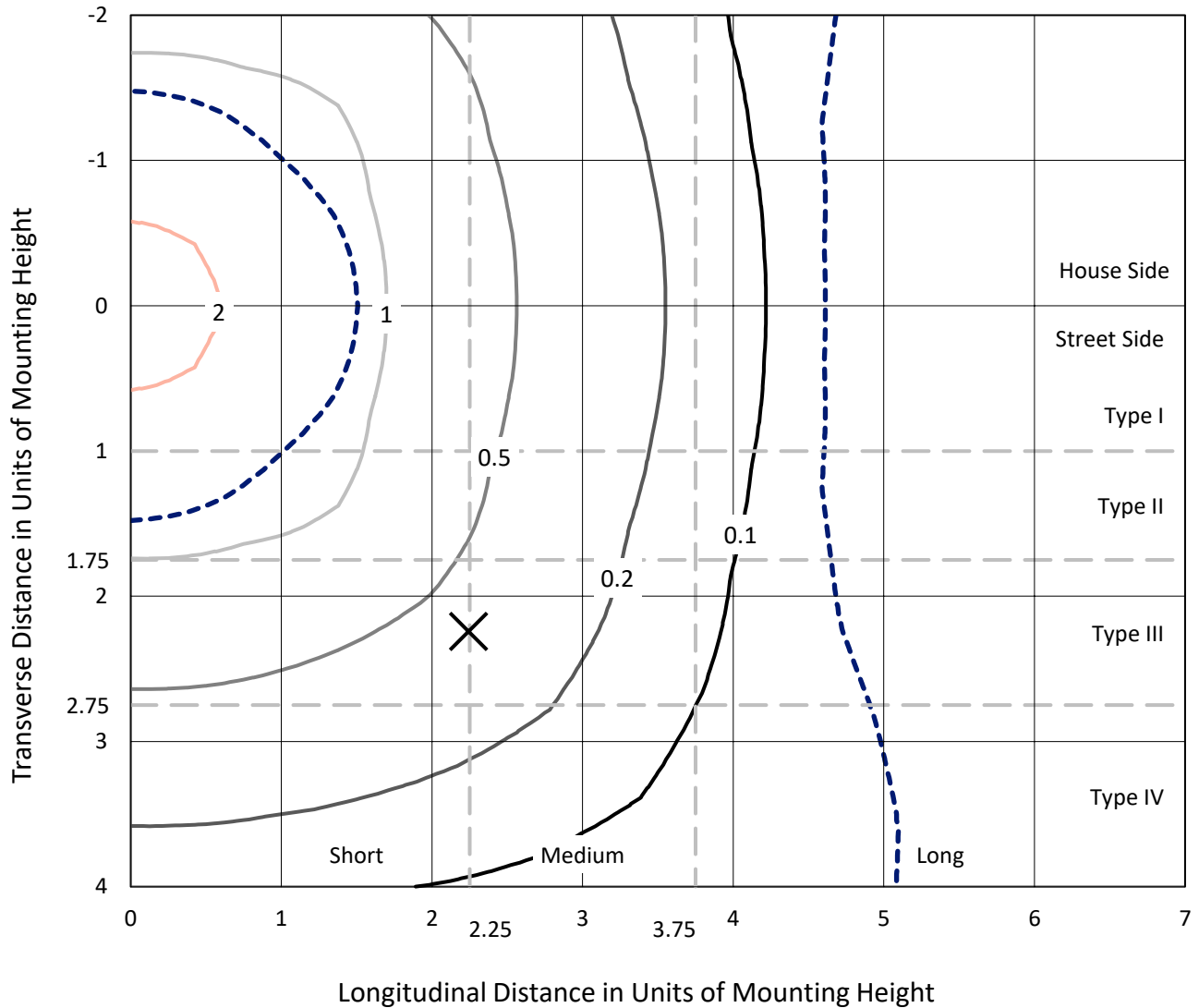
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

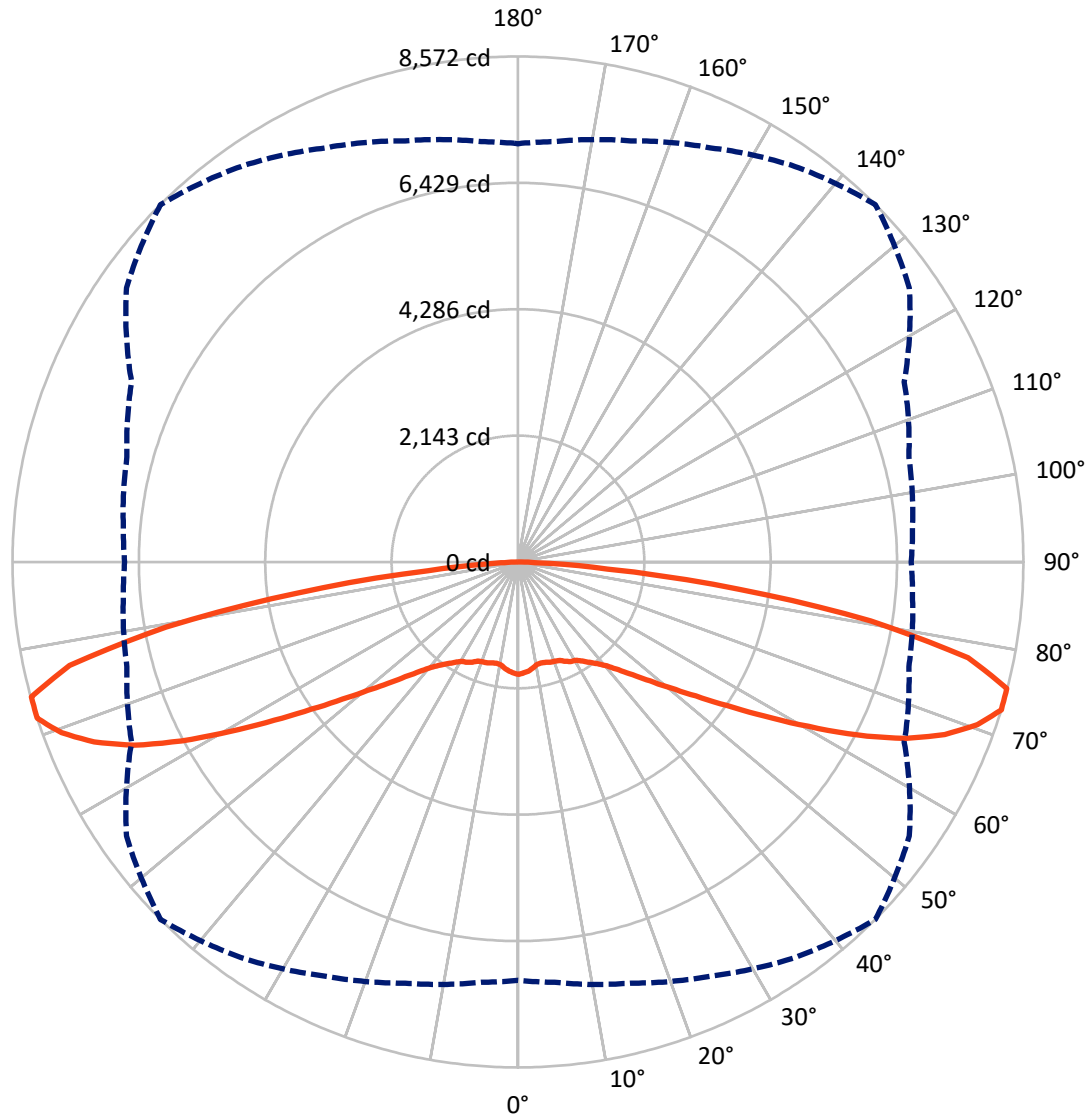
✕ Max cd
 - - - 1/2 Max cd



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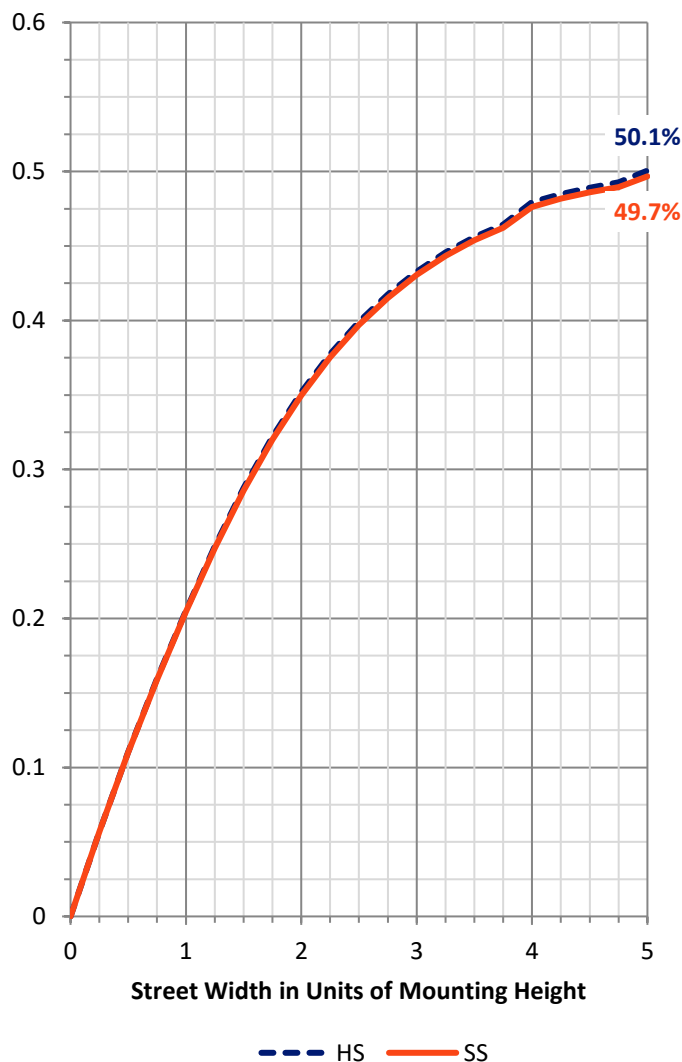
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11530.0	0.0	11530.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11530.0	0.0	11530.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23060.0	0.0	23060.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	0.8
10°-20°	507.9	2.2
20°-30°	863.0	3.7
30°-40°	1316.4	5.7
40°-50°	2167.5	9.4
50°-60°	3785.2	16.4
60°-70°	6345.9	27.5
70°-80°	6791.4	29.5
80°-90°	1107.7	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°	23060.0	100.0
0°-180°	23060.0	100.0

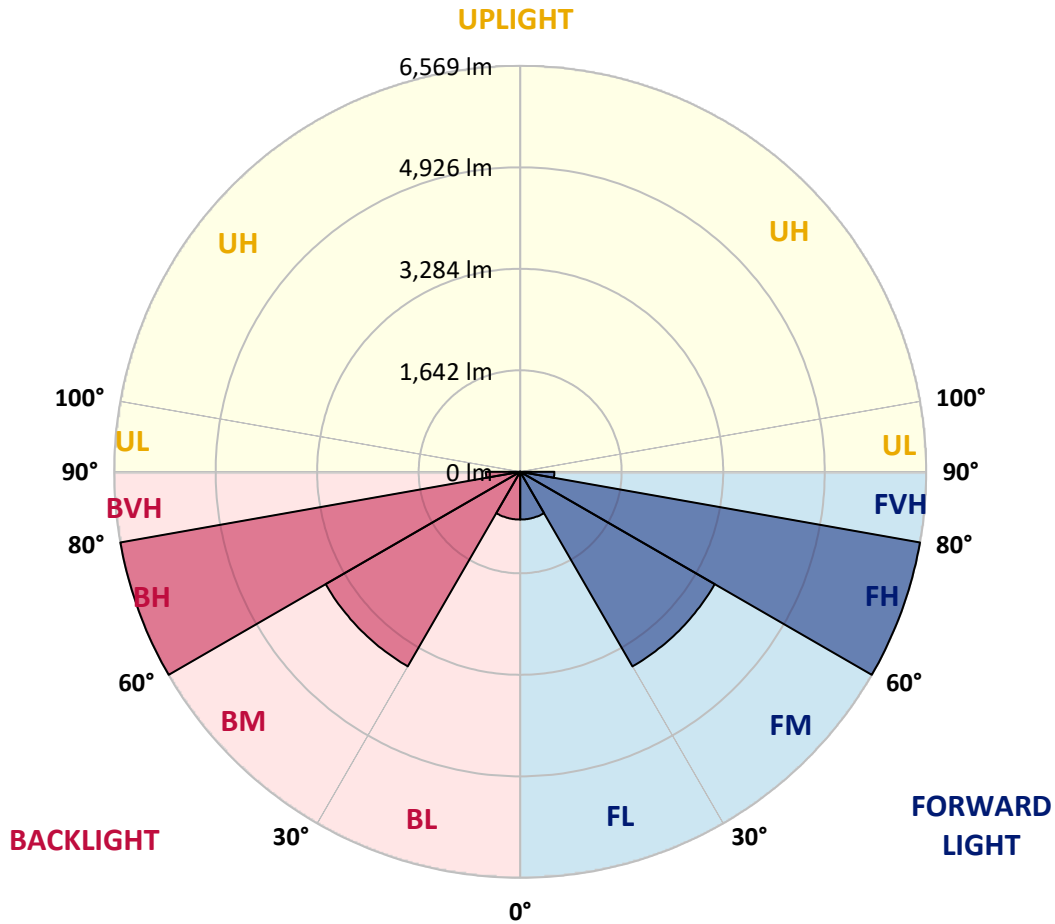


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.0	3.4			
FM (30°-60°)	3634.5	15.8			
FH (60°-80°)	6568.7	28.5			G3/7500
FVH (80°-90°)	553.8	2.4			G4/750
BL (0°-30°)	773.0	3.4	B2/1000		
BM (30°-60°)	3634.5	15.8	B3/5000		
BH (60°-80°)	6568.7	28.5	B5		G3/7500
BVH (80°-90°)	553.8	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°	1908.2	1908.2	1908.2	1908.2	1908.2	1908.2	1908.2	1908.2	1908.2	1908.2	1908.2
2.5°	1896.5	1896.5	1896.5	1893.5	1887.6	1884.7	1878.8	1881.7	1881.7	1881.7	1881.7
5°	1872.9	1872.9	1870.0	1867.0	1861.1	1858.2	1852.3	1858.2	1858.2	1858.2	1858.2
7.5°	1828.7	1831.7	1831.7	1828.7	1819.9	1817.0	1808.1	1811.1	1811.1	1814.0	1811.1
10°	1805.2	1805.2	1802.2	1787.5	1772.8	1766.9	1763.9	1772.8	1781.6	1790.4	1790.4
12.5°	1805.2	1805.2	1799.3	1775.7	1755.1	1755.1	1755.1	1766.9	1784.6	1802.2	1805.2
15°	1814.0	1814.0	1802.2	1775.7	1763.9	1766.9	1766.9	1778.7	1799.3	1822.8	1825.8
17.5°	1819.9	1819.9	1805.2	1778.7	1778.7	1787.5	1781.6	1790.4	1811.1	1837.6	1840.5
20°	1828.7	1828.7	1808.1	1787.5	1787.5	1796.3	1796.3	1805.2	1822.8	1849.3	1852.3
22.5°	1846.4	1843.5	1822.8	1805.2	1805.2	1811.1	1817.0	1828.7	1843.5	1867.0	1872.9
25°	1867.0	1867.0	1849.3	1846.4	1852.3	1867.0	1864.1	1861.1	1867.0	1887.6	1896.5
27.5°	1878.8	1878.8	1867.0	1875.8	1899.4	1911.2	1896.5	1884.7	1884.7	1905.3	1908.2
30°	1917.1	1914.1	1902.4	1908.2	1928.9	1934.7	1925.9	1911.2	1920.0	1943.6	1946.5
32.5°	1981.9	1981.9	1964.2	1964.2	1978.9	2002.5	1973.0	1964.2	1976.0	2002.5	2005.4
35°	2082.0	2082.0	2058.4	2046.6	2058.4	2090.8	2046.6	2043.7	2064.3	2093.8	2096.7
37.5°	2208.6	2208.6	2193.9	2164.4	2167.4	2188.0	2149.7	2146.8	2185.1	2217.4	2217.4
40°	2367.6	2376.5	2361.7	2326.4	2314.6	2317.6	2288.1	2291.1	2335.2	2373.5	2373.5
42.5°	2564.9	2570.8	2547.3	2520.8	2506.0	2497.2	2467.8	2473.6	2526.7	2576.7	2576.7
45°	2803.5	2806.4	2782.9	2750.5	2732.8	2726.9	2697.5	2712.2	2771.1	2824.1	2821.1
47.5°	3071.4	3074.4	3050.8	3018.4	3006.7	3015.5	2986.0	2986.0	3039.0	3083.2	3077.3
50°	3374.8	3380.6	3354.1	3339.4	3330.6	3354.1	3318.8	3286.4	3321.8	3365.9	3360.0
52.5°	3710.5	3725.2	3707.5	3713.4	3745.8	3775.3	3716.4	3645.7	3663.4	3692.8	3684.0
55°	4116.9	4134.5	4140.4	4161.0	4246.4	4296.5	4199.3	4081.5	4072.7	4075.6	4060.9
57.5°	4573.3	4585.1	4623.4	4670.5	4847.2	4926.7	4773.5	4570.4	4505.6	4467.3	4458.5
60°	5032.7	5053.3	5147.5	5244.7	5515.6	5659.9	5424.4	5082.8	4944.3	4873.7	4858.9
62.5°	5495.0	5536.3	5689.4	5854.3	6248.9	6463.9	6101.7	5606.9	5406.7	5318.3	5294.8
65°	6031.0	6081.0	6266.6	6475.6	6914.4	7217.7	6779.0	6148.8	5933.8	5816.0	5786.6
67.5°	6658.2	6711.2	6861.4	7094.1	7509.3	7806.7	7418.0	6702.4	6422.6	6272.5	6248.9
70°	7173.6	7220.7	7382.7	7618.2	7927.4	8266.1	7895.1	7144.1	6890.9	6784.9	6770.1
72.5°	7094.1	7155.9	7394.4	7747.8	8189.5	8572.4	8104.1	7229.5	6864.4	6717.1	6670.0
75°	6195.9	6263.6	6546.3	7185.4	7992.2	8563.5	7800.8	6661.2	6231.2	6107.5	6084.0
77.5°	4102.1	4166.9	4644.0	5651.1	6979.2	7803.8	6885.0	5580.4	4888.4	4591.0	4573.3
80°	1657.9	1740.4	2196.8	3265.8	4947.3	6066.3	5106.3	3572.1	2408.9	1943.6	1849.3
82.5°	385.8	459.4	668.5	1204.4	2532.5	3778.2	2753.4	1334.0	774.5	550.7	494.7
85°	162.0	164.9	285.6	391.7	792.2	1525.4	901.1	485.9	394.6	288.6	282.7
87.5°	61.8	64.8	138.4	164.9	253.3	288.6	306.3	250.3	232.6	144.3	138.4
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)