

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: P399884

Luminaire Tested: **ARCH-L-PA3-200-827-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399884
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-PA3-200-827-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21993 lumens
Efficiency: N/A
Efficacy: 109.4 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

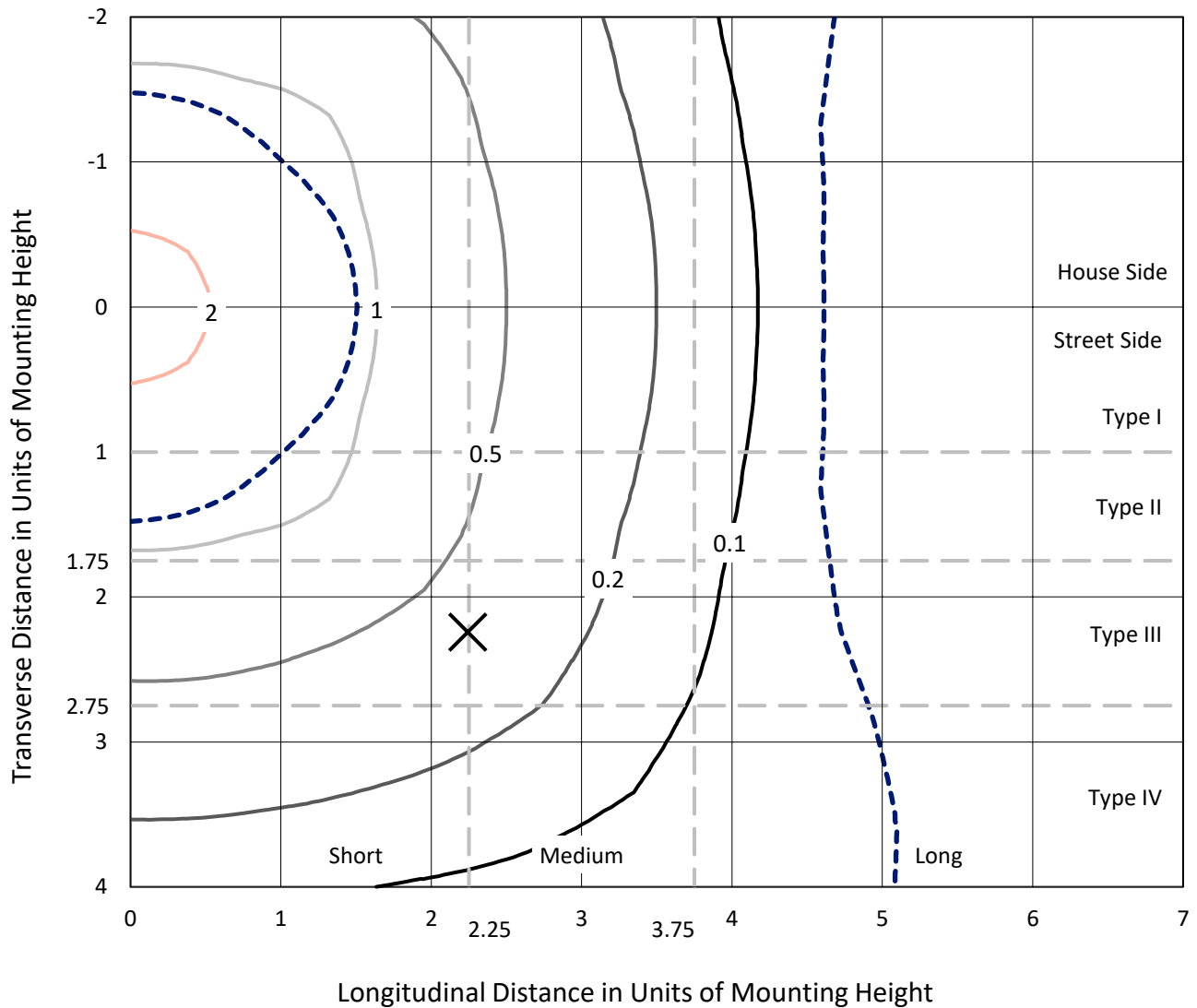
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

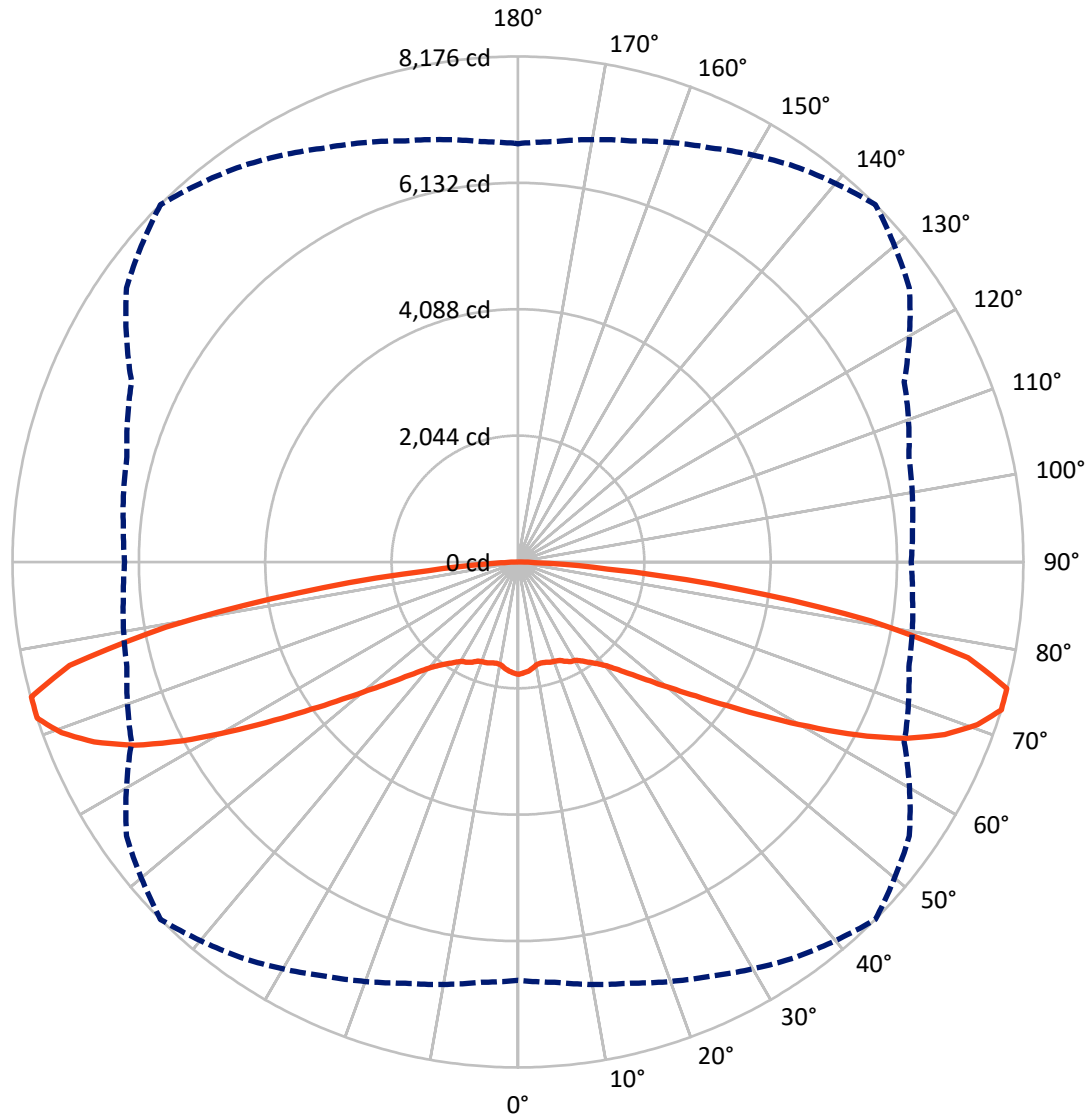
✕ Max cd
 - - - 1/2 Max cd



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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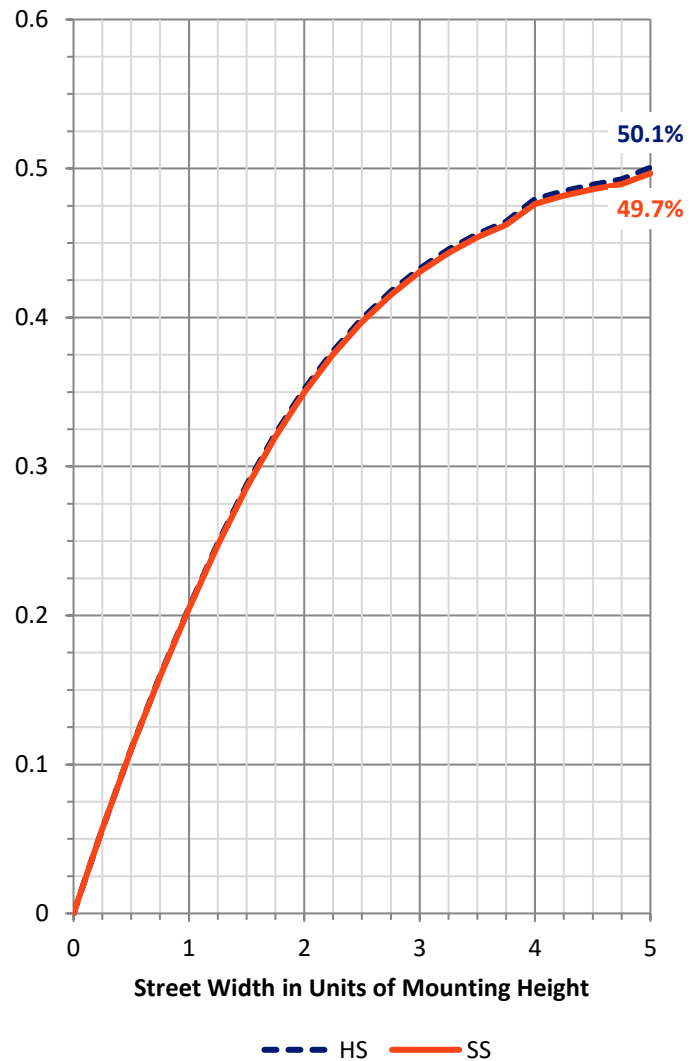
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10996.5	0.0	10996.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10996.5	0.0	10996.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21993.0	0.0	21993.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	0.8
10°-20°	484.4	2.2
20°-30°	823.1	3.7
30°-40°	1255.5	5.7
40°-50°	2067.2	9.4
50°-60°	3610.0	16.4
60°-70°	6052.3	27.5
70°-80°	6477.2	29.5
80°-90°	1056.4	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°	21993.0	100.0
0°-180°	21993.0	100.0

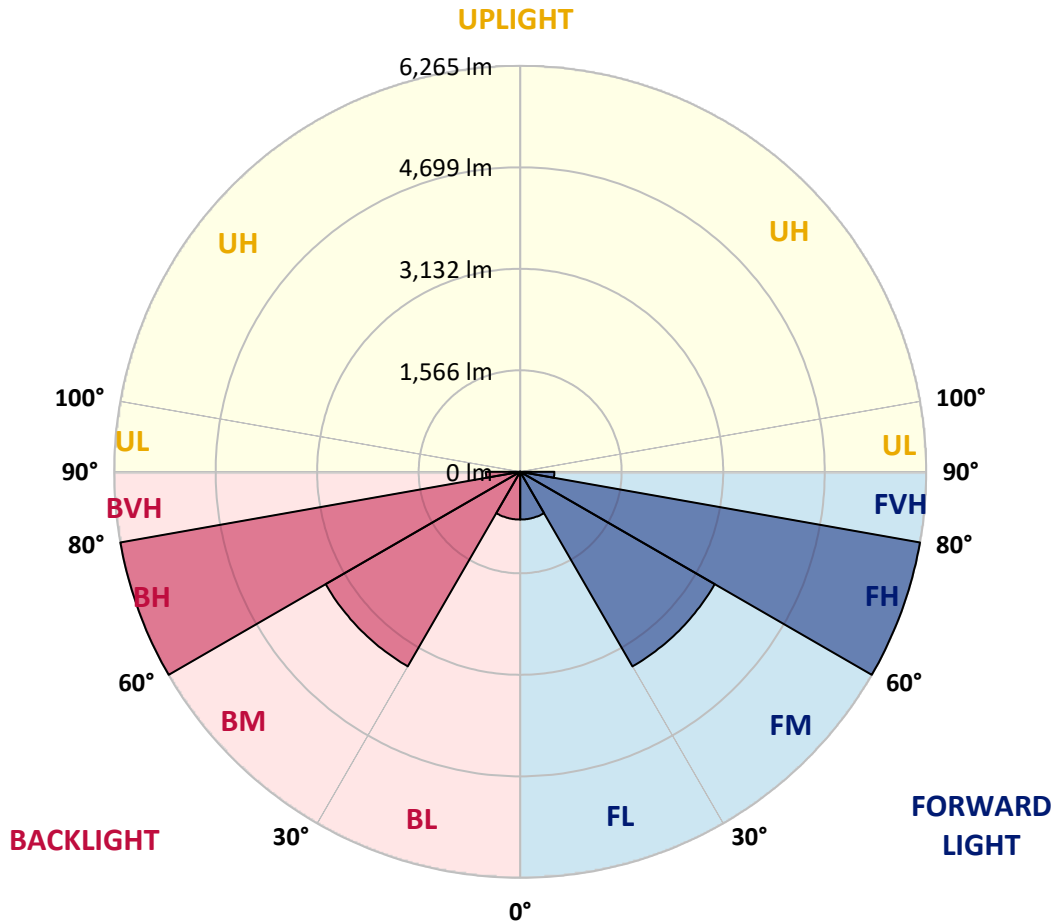


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.2	3.4			
FM (30°-60°)	3466.4	15.8			
FH (60°-80°)	6264.7	28.5			G3/7500
FVH (80°-90°)	528.2	2.4			G4/750
BL (0°-30°)	737.2	3.4	B2/1000		
BM (30°-60°)	3466.4	15.8	B3/5000		
BH (60°-80°)	6264.7	28.5	B5		G3/7500
BVH (80°-90°)	528.2	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°	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9
2.5°	1808.7	1808.7	1808.7	1805.9	1800.3	1797.5	1791.9	1794.7	1794.7	1794.7	1794.7
5°	1786.2	1786.2	1783.4	1780.6	1775.0	1772.2	1766.6	1772.2	1772.2	1772.2	1772.2
7.5°	1744.1	1746.9	1746.9	1744.1	1735.7	1732.9	1724.5	1727.3	1727.3	1730.1	1727.3
10°	1721.6	1721.6	1718.8	1704.8	1690.8	1685.1	1682.3	1690.8	1699.2	1707.6	1707.6
12.5°	1721.6	1721.6	1716.0	1693.6	1673.9	1673.9	1673.9	1685.1	1702.0	1718.8	1721.6
15°	1730.1	1730.1	1718.8	1693.6	1682.3	1685.1	1685.1	1696.4	1716.0	1738.5	1741.3
17.5°	1735.7	1735.7	1721.6	1696.4	1696.4	1704.8	1699.2	1707.6	1727.3	1752.5	1755.3
20°	1744.1	1744.1	1724.5	1704.8	1704.8	1713.2	1713.2	1721.6	1738.5	1763.8	1766.6
22.5°	1761.0	1758.2	1738.5	1721.6	1721.6	1727.3	1732.9	1744.1	1758.2	1780.6	1786.2
25°	1780.6	1780.6	1763.8	1761.0	1766.6	1780.6	1777.8	1775.0	1780.6	1800.3	1808.7
27.5°	1791.9	1791.9	1780.6	1789.1	1811.5	1822.8	1808.7	1797.5	1797.5	1817.1	1819.9
30°	1828.4	1825.6	1814.3	1819.9	1839.6	1845.2	1836.8	1822.8	1831.2	1853.6	1856.5
32.5°	1890.2	1890.2	1873.3	1873.3	1887.4	1909.8	1881.7	1873.3	1884.5	1909.8	1912.6
35°	1985.7	1985.7	1963.2	1951.9	1963.2	1994.1	1951.9	1949.1	1968.8	1996.9	1999.7
37.5°	2106.4	2106.4	2092.4	2064.3	2067.1	2086.8	2050.2	2047.4	2083.9	2114.8	2114.8
40°	2258.1	2266.5	2252.5	2218.8	2207.5	2210.3	2182.2	2185.1	2227.2	2263.7	2263.7
42.5°	2446.3	2451.9	2429.4	2404.1	2390.1	2381.7	2353.6	2359.2	2409.7	2457.5	2457.5
45°	2673.7	2676.6	2654.1	2623.2	2606.3	2600.7	2572.6	2586.7	2642.9	2693.4	2690.6
47.5°	2929.3	2932.1	2909.7	2878.8	2867.5	2876.0	2847.9	2847.9	2898.4	2940.6	2934.9
50°	3218.6	3224.2	3198.9	3184.9	3176.5	3198.9	3165.2	3134.4	3168.1	3210.2	3204.6
52.5°	3538.8	3552.8	3536.0	3541.6	3572.5	3600.6	3544.4	3477.0	3493.8	3521.9	3513.5
55°	3926.4	3943.2	3948.8	3968.5	4049.9	4097.7	4005.0	3892.7	3884.2	3887.0	3873.0
57.5°	4361.7	4372.9	4409.4	4454.4	4622.9	4698.7	4552.7	4358.9	4297.1	4260.6	4252.2
60°	4799.8	4819.5	4909.4	5002.0	5260.4	5398.0	5173.4	4847.6	4715.6	4648.2	4634.1
62.5°	5240.8	5280.1	5426.1	5583.4	5959.8	6164.8	5819.3	5347.5	5156.5	5072.3	5049.8
65°	5751.9	5799.7	5976.6	6176.0	6594.5	6883.8	6465.3	5864.3	5659.2	5546.9	5518.8
67.5°	6350.1	6400.7	6543.9	6765.8	7161.8	7445.5	7074.8	6392.3	6125.5	5982.2	5959.8
70°	6841.6	6886.6	7041.1	7265.7	7560.6	7883.6	7529.7	6813.6	6572.0	6470.9	6456.9
72.5°	6765.8	6824.8	7052.3	7389.3	7810.6	8175.7	7729.1	6895.0	6546.7	6406.3	6361.4
75°	5909.2	5973.8	6243.4	6852.9	7622.4	8167.3	7439.9	6353.0	5942.9	5824.9	5802.5
77.5°	3912.3	3974.1	4429.1	5389.6	6656.3	7442.7	6566.4	5322.2	4662.2	4378.5	4361.7
80°	1581.2	1659.9	2095.2	3114.7	4718.4	5785.6	4870.0	3406.8	2297.4	1853.6	1763.8
82.5°	367.9	438.1	637.5	1148.7	2415.4	3603.4	2626.0	1272.3	738.7	525.2	471.8
85°	154.5	157.3	272.4	373.5	755.5	1454.8	859.4	463.4	376.3	275.2	269.6
87.5°	59.0	61.8	132.0	157.3	241.5	275.2	292.1	238.7	221.9	137.6	132.0
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)