

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: P399965

Luminaire Tested: **ARCH-L-PA3-210-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399965
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-PA3-210-830-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24502 lumens
Efficiency: N/A
Efficacy: 116.1 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

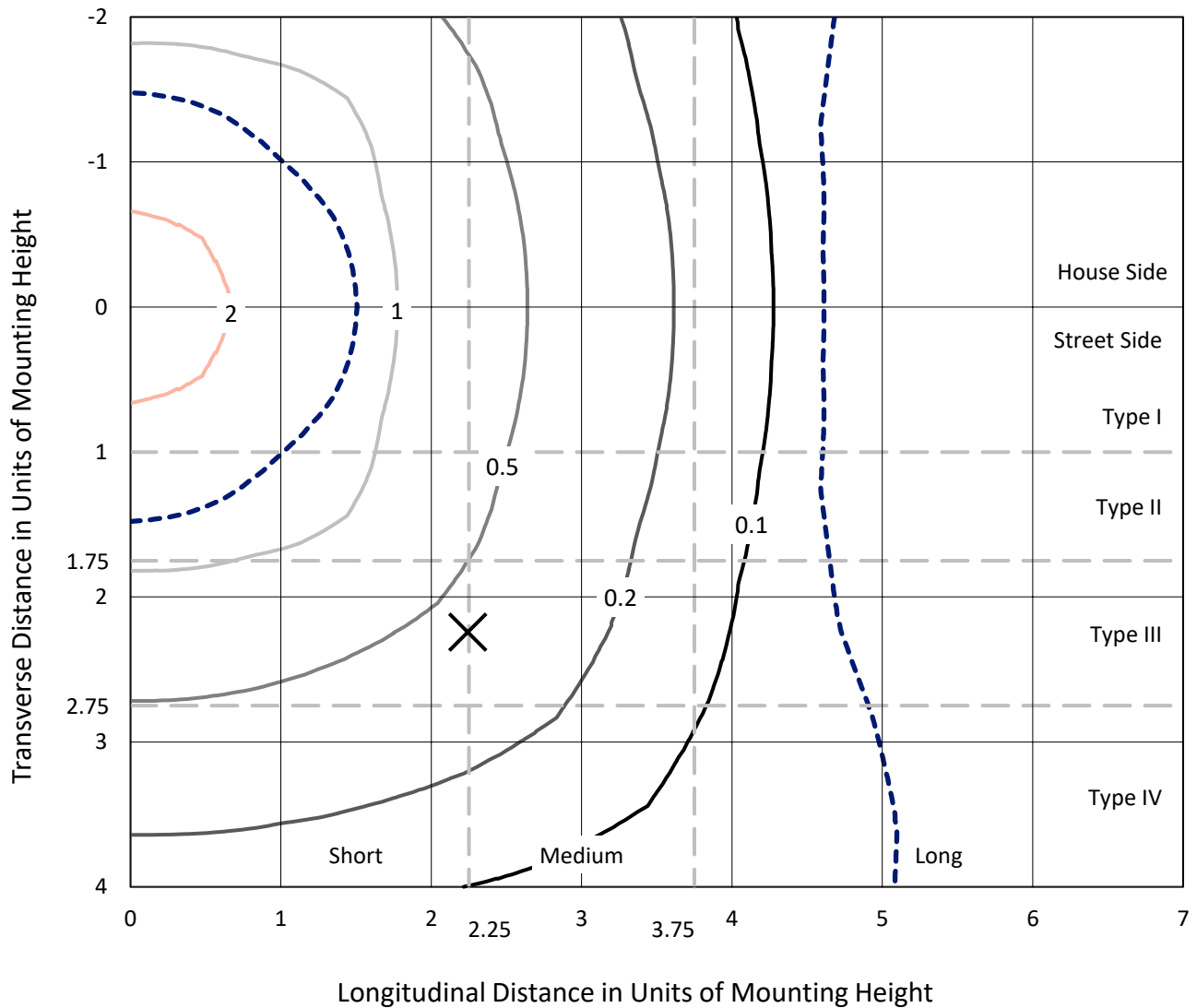
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

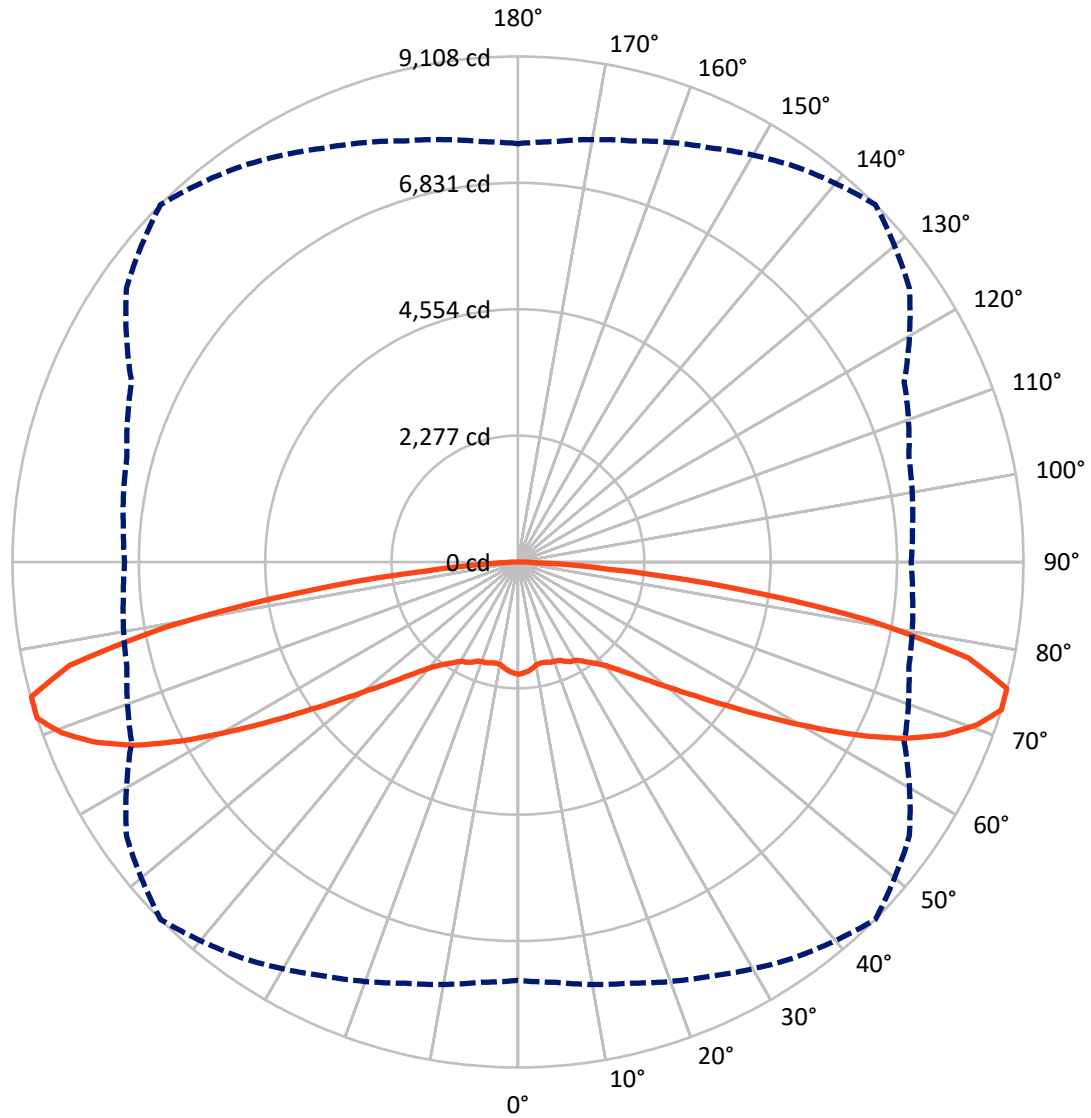
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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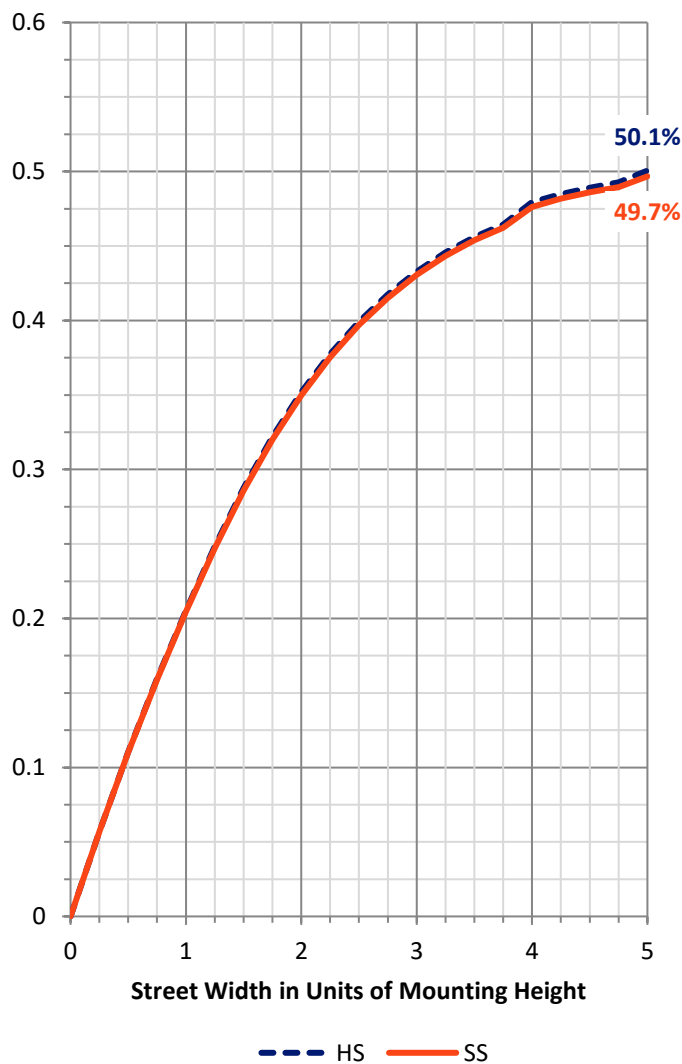
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12251.0	0.0	12251.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12251.0	0.0	12251.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24502.0	0.0	24502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	0.8
10°-20°	539.7	2.2
20°-30°	917.0	3.7
30°-40°	1398.7	5.7
40°-50°	2303.1	9.4
50°-60°	4021.9	16.4
60°-70°	6742.7	27.5
70°-80°	7216.1	29.5
80°-90°	1176.9	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°	24502.0	100.0
0°-180°	24502.0	100.0

Coefficient of Utilization

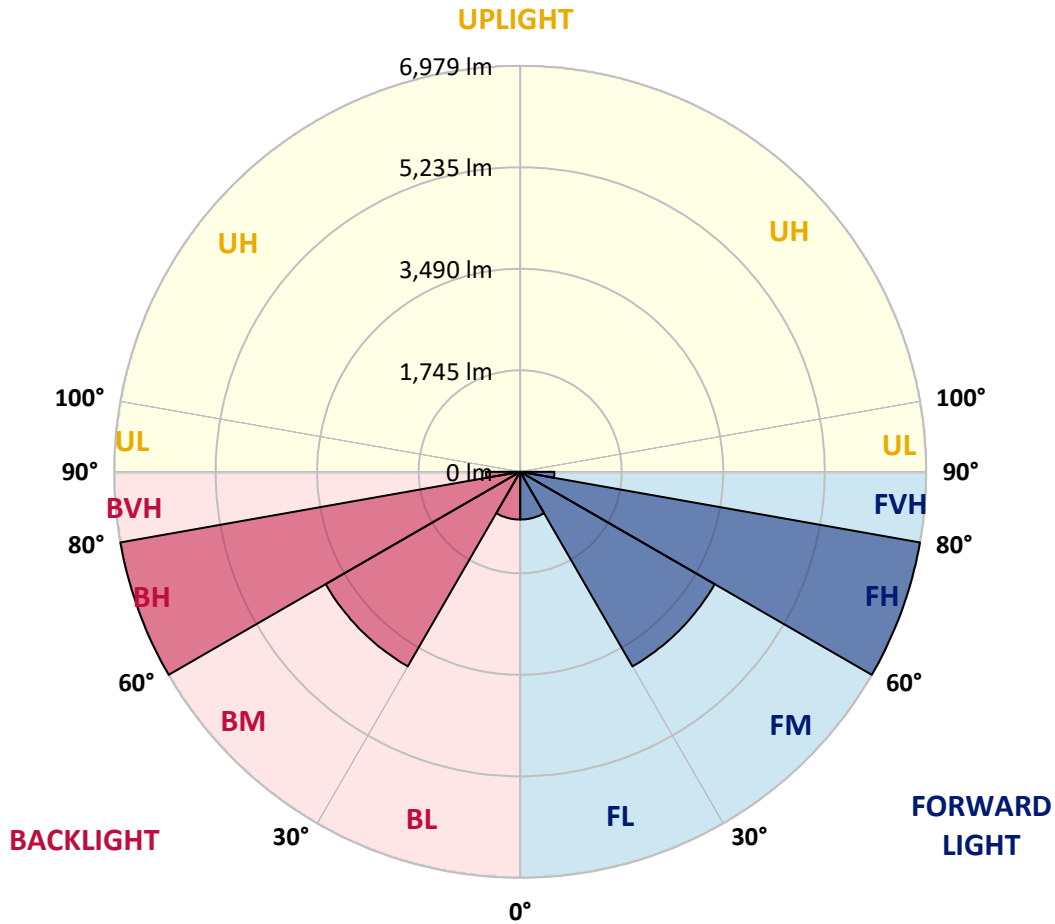


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.3	3.4			
FM (30°-60°)	3861.8	15.8			
FH (60°-80°)	6979.4	28.5			G3/7500
FVH (80°-90°)	588.5	2.4			G4/750
BL (0°-30°)	821.3	3.4	B2/1000		
BM (30°-60°)	3861.8	15.8	B3/5000		
BH (60°-80°)	6979.4	28.5	B5		G3/7500
BVH (80°-90°)	588.5	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°	2027.6	2027.6	2027.6	2027.6	2027.6	2027.6	2027.6	2027.6	2027.6	2027.6	2027.6
2.5°	2015.1	2015.1	2015.1	2011.9	2005.7	2002.5	1996.3	1999.4	1999.4	1999.4	1999.4
5°	1990.0	1990.0	1986.9	1983.8	1977.5	1974.4	1968.1	1974.4	1974.4	1974.4	1974.4
7.5°	1943.1	1946.2	1946.2	1943.1	1933.7	1930.6	1921.2	1924.3	1924.3	1927.4	1924.3
10°	1918.1	1918.1	1914.9	1899.3	1883.6	1877.4	1874.2	1883.6	1893.0	1902.4	1902.4
12.5°	1918.1	1918.1	1911.8	1886.8	1864.9	1864.9	1864.9	1877.4	1896.2	1914.9	1918.1
15°	1927.4	1927.4	1914.9	1886.8	1874.2	1877.4	1877.4	1889.9	1911.8	1936.8	1940.0
17.5°	1933.7	1933.7	1918.1	1889.9	1889.9	1899.3	1893.0	1902.4	1924.3	1952.5	1955.6
20°	1943.1	1943.1	1921.2	1899.3	1899.3	1908.7	1908.7	1918.1	1936.8	1965.0	1968.1
22.5°	1961.9	1958.7	1936.8	1918.1	1918.1	1924.3	1930.6	1943.1	1958.7	1983.8	1990.0
25°	1983.8	1983.8	1965.0	1961.9	1968.1	1983.8	1980.6	1977.5	1983.8	2005.7	2015.1
27.5°	1996.3	1996.3	1983.8	1993.1	2018.2	2030.7	2015.1	2002.5	2002.5	2024.4	2027.6
30°	2037.0	2033.8	2021.3	2027.6	2049.5	2055.7	2046.3	2030.7	2040.1	2065.1	2068.2
32.5°	2105.8	2105.8	2087.0	2087.0	2102.7	2127.7	2096.4	2087.0	2099.5	2127.7	2130.8
35°	2212.2	2212.2	2187.1	2174.6	2187.1	2221.6	2174.6	2171.5	2193.4	2224.7	2227.8
37.5°	2346.7	2346.7	2331.1	2299.8	2302.9	2324.8	2284.1	2281.0	2321.7	2356.1	2356.1
40°	2515.7	2525.1	2509.4	2471.9	2459.4	2462.5	2431.2	2434.3	2481.3	2521.9	2521.9
42.5°	2725.3	2731.6	2706.6	2678.4	2662.7	2653.4	2622.1	2628.3	2684.6	2737.8	2737.8
45°	2978.8	2981.9	2956.9	2922.5	2903.7	2897.4	2866.1	2881.8	2944.4	3000.7	2997.5
47.5°	3263.5	3266.6	3241.6	3207.2	3194.7	3204.1	3172.8	3172.8	3229.1	3276.0	3269.8
50°	3585.8	3592.0	3563.9	3548.2	3538.9	3563.9	3526.3	3491.9	3529.5	3576.4	3570.1
52.5°	3942.5	3958.1	3939.4	3945.6	3980.0	4011.3	3948.8	3873.7	3892.4	3923.7	3914.3
55°	4374.3	4393.1	4399.3	4421.2	4512.0	4565.2	4461.9	4336.7	4327.4	4330.5	4314.8
57.5°	4859.3	4871.8	4912.5	4962.5	5150.3	5234.8	5072.0	4856.1	4787.3	4746.6	4737.2
60°	5347.4	5369.3	5469.4	5572.7	5860.5	6013.9	5763.5	5400.6	5253.5	5178.4	5162.8
62.5°	5838.6	5882.4	6045.2	6220.4	6639.7	6868.1	6483.2	5957.5	5744.8	5650.9	5625.9
65°	6408.1	6461.3	6658.4	6880.6	7346.8	7669.1	7202.9	6533.3	6304.9	6179.7	6148.4
67.5°	7074.6	7130.9	7290.5	7537.7	7978.9	8294.9	7881.9	7121.5	6824.3	6664.7	6639.7
70°	7622.2	7672.2	7844.3	8094.6	8423.2	8783.0	8388.7	7590.9	7321.8	7209.1	7193.5
72.5°	7537.7	7603.4	7856.8	8232.3	8701.6	9108.4	8610.9	7681.6	7293.6	7137.2	7087.1
75°	6583.3	6655.3	6955.7	7634.7	8492.0	9099.0	8288.6	7077.7	6620.9	6489.5	6464.4
77.5°	4358.6	4427.5	4934.4	6004.5	7415.6	8291.8	7315.5	5929.4	5194.1	4878.1	4859.3
80°	1761.6	1849.2	2334.2	3470.0	5256.7	6445.7	5425.6	3795.4	2559.5	2065.1	1965.0
82.5°	409.9	488.1	710.3	1279.7	2690.9	4014.5	2925.6	1417.4	822.9	585.1	525.7
85°	172.1	175.2	303.5	416.2	841.7	1620.8	957.5	516.3	419.3	306.6	300.4
87.5°	65.7	68.8	147.1	175.2	269.1	306.6	325.4	266.0	247.2	153.3	147.1
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)