

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: P400037

Luminaire Tested: **ARCH-L-PA3-220-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400037
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-PA3-220-830-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25359 lumens
Efficiency: N/A
Efficacy: 114.2 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

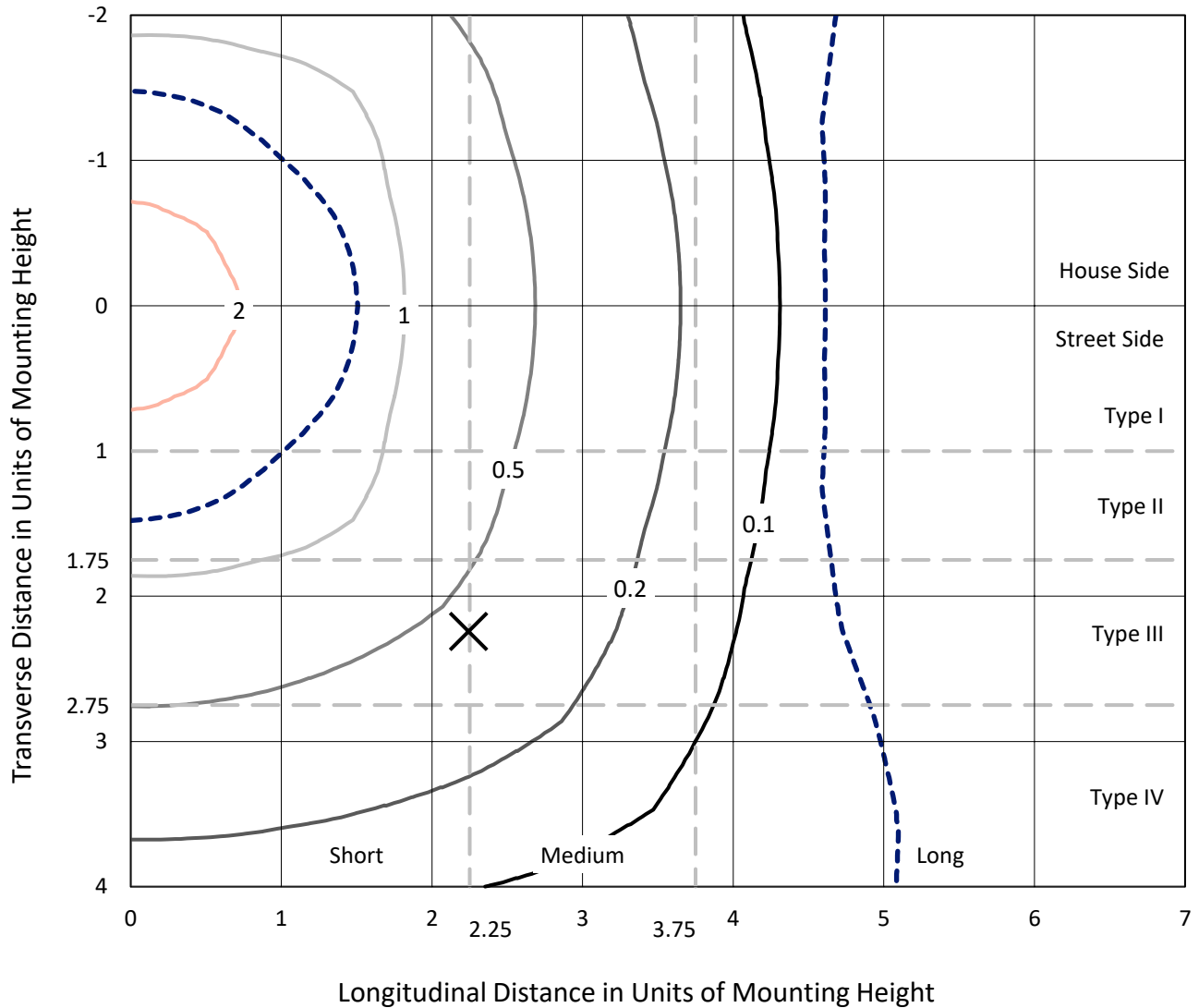
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

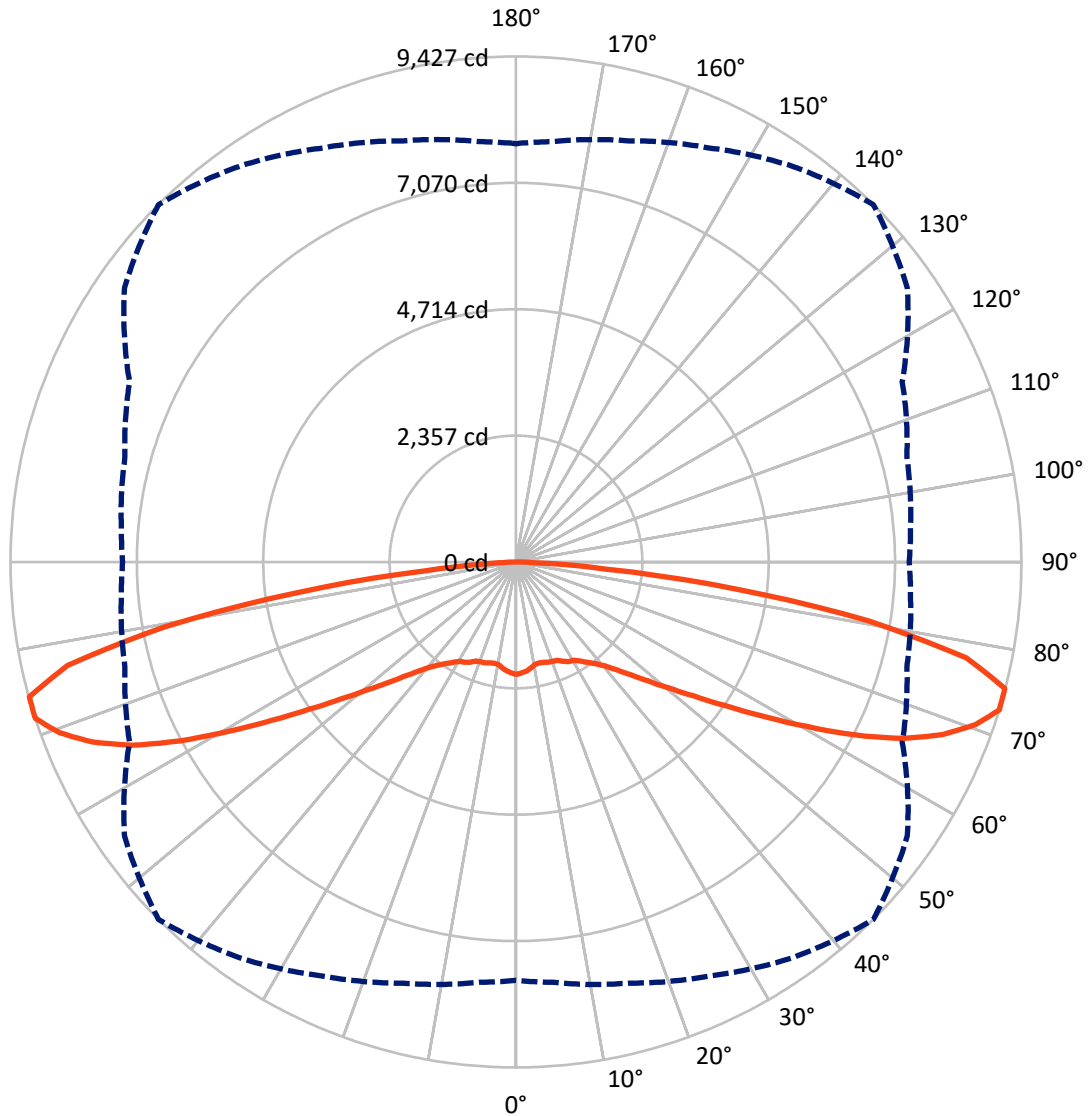
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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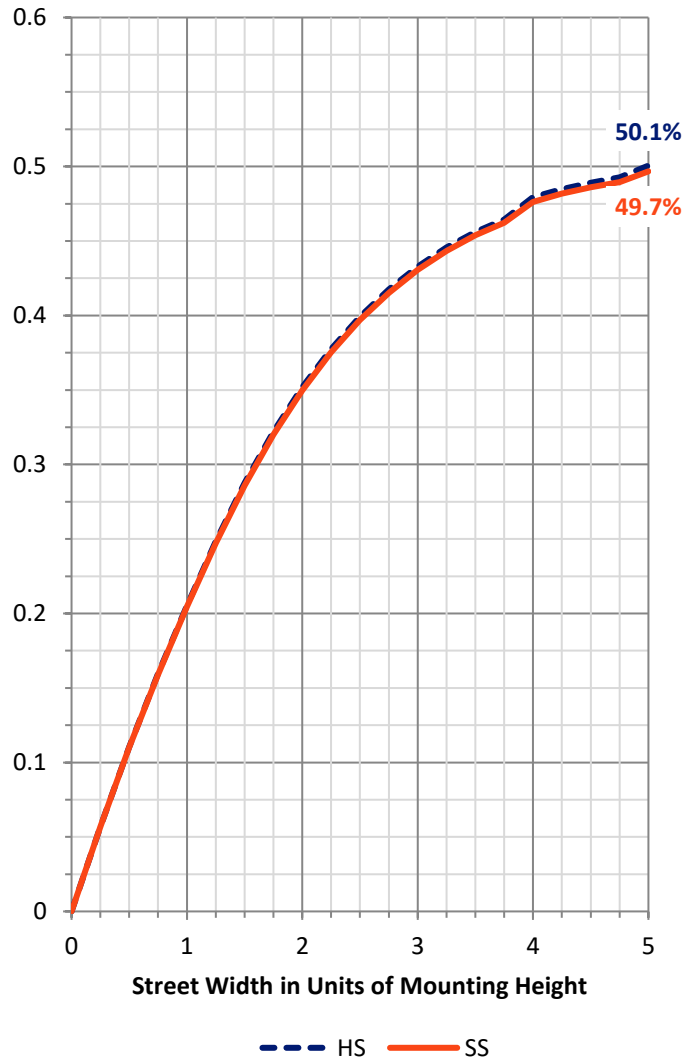
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12679.5	0.0	12679.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12679.5	0.0	12679.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25359.0	0.0	25359.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	0.8
10°-20°	558.6	2.2
20°-30°	949.1	3.7
30°-40°	1447.6	5.7
40°-50°	2383.6	9.4
50°-60°	4162.5	16.4
60°-70°	6978.6	27.5
70°-80°	7468.5	29.5
80°-90°	1218.1	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°	25359.0	100.0
0°-180°	25359.0	100.0

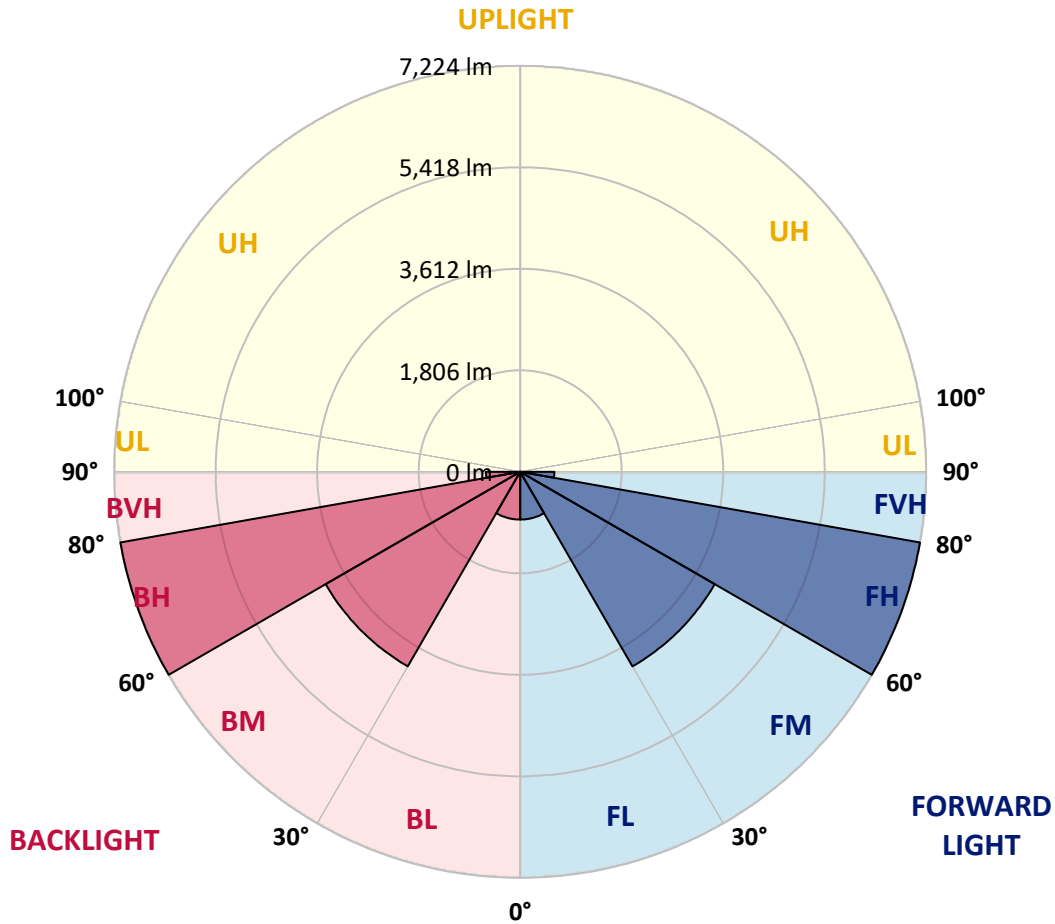


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.0	3.4			
FM (30°-60°)	3996.9	15.8			
FH (60°-80°)	7223.5	28.5			G3/7500
FVH (80°-90°)	609.1	2.4			G4/750
BL (0°-30°)	850.0	3.4	B2/1000		
BM (30°-60°)	3996.9	15.8	B3/5000		
BH (60°-80°)	7223.5	28.5	B5		G3/7500
BVH (80°-90°)	609.1	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°	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5	2098.5
2.5°	2085.5	2085.5	2085.5	2082.3	2075.8	2072.6	2066.1	2069.3	2069.3	2069.3	2069.3
5°	2059.6	2059.6	2056.4	2053.1	2046.7	2043.4	2037.0	2043.4	2043.4	2043.4	2043.4
7.5°	2011.0	2014.3	2014.3	2011.0	2001.3	1998.1	1988.4	1991.6	1991.6	1994.9	1991.6
10°	1985.1	1985.1	1981.9	1965.7	1949.5	1943.0	1939.8	1949.5	1959.2	1968.9	1968.9
12.5°	1985.1	1985.1	1978.7	1952.8	1930.1	1930.1	1930.1	1943.0	1962.5	1981.9	1985.1
15°	1994.9	1994.9	1981.9	1952.8	1939.8	1943.0	1943.0	1956.0	1978.7	2004.6	2007.8
17.5°	2001.3	2001.3	1985.1	1956.0	1956.0	1965.7	1959.2	1968.9	1991.6	2020.8	2024.0
20°	2011.0	2011.0	1988.4	1965.7	1965.7	1975.4	1975.4	1985.1	2004.6	2033.7	2037.0
22.5°	2030.5	2027.2	2004.6	1985.1	1985.1	1991.6	1998.1	2011.0	2027.2	2053.1	2059.6
25°	2053.1	2053.1	2033.7	2030.5	2037.0	2053.1	2049.9	2046.7	2053.1	2075.8	2085.5
27.5°	2066.1	2066.1	2053.1	2062.9	2088.8	2101.7	2085.5	2072.6	2072.6	2095.2	2098.5
30°	2108.2	2105.0	2092.0	2098.5	2121.2	2127.6	2117.9	2101.7	2111.4	2137.3	2140.6
32.5°	2179.4	2179.4	2160.0	2160.0	2176.2	2202.1	2169.7	2160.0	2173.0	2202.1	2205.4
35°	2289.6	2289.6	2263.6	2250.7	2263.6	2299.3	2250.7	2247.5	2270.1	2302.5	2305.7
37.5°	2428.8	2428.8	2412.6	2380.2	2383.5	2406.1	2364.0	2360.8	2402.9	2438.5	2438.5
40°	2603.7	2613.4	2597.2	2558.3	2545.4	2548.6	2516.2	2519.5	2568.1	2610.2	2610.2
42.5°	2820.6	2827.1	2801.2	2772.1	2755.9	2746.2	2713.8	2720.3	2778.6	2833.6	2833.6
45°	3083.0	3086.2	3060.3	3024.7	3005.2	2998.8	2966.4	2982.6	3047.3	3105.6	3102.4
47.5°	3377.7	3380.9	3355.0	3319.4	3306.4	3316.1	3283.7	3283.7	3342.0	3390.6	3384.1
50°	3711.2	3717.7	3688.5	3672.3	3662.6	3688.5	3649.7	3614.1	3652.9	3701.5	3695.0
52.5°	4080.4	4096.6	4077.1	4083.6	4119.2	4151.6	4086.9	4009.1	4028.6	4061.0	4051.2
55°	4527.3	4546.7	4553.2	4575.9	4669.8	4724.8	4618.0	4488.4	4478.7	4482.0	4465.8
57.5°	5029.2	5042.2	5084.3	5136.1	5330.4	5417.8	5249.5	5026.0	4954.8	4912.7	4902.9
60°	5534.4	5557.1	5660.7	5767.6	6065.5	6224.2	5965.1	5589.5	5437.3	5359.6	5343.4
62.5°	6042.9	6088.2	6256.6	6437.9	6871.9	7108.3	6710.0	6165.9	5945.7	5848.6	5822.6
65°	6632.3	6687.3	6891.3	7121.2	7603.8	7937.3	7454.8	6761.8	6525.4	6395.8	6363.5
67.5°	7322.0	7380.3	7545.5	7801.3	8257.9	8585.0	8157.5	7370.6	7063.0	6897.8	6871.9
70°	7888.8	7940.6	8118.7	8377.7	8717.8	9090.2	8682.2	7856.4	7577.9	7461.3	7445.1
72.5°	7801.3	7869.3	8131.6	8520.2	9006.0	9427.0	8912.1	7950.3	7548.7	7386.8	7335.0
75°	6813.6	6888.1	7199.0	7901.7	8789.0	9417.3	8578.5	7325.3	6852.5	6716.4	6690.5
77.5°	4511.1	4582.3	5107.0	6214.5	7675.0	8581.8	7571.4	6136.8	5375.7	5048.7	5029.2
80°	1823.2	1913.9	2415.8	3591.4	5440.5	6671.1	5615.4	3928.2	2649.0	2137.3	2033.7
82.5°	424.2	505.2	735.1	1324.5	2785.0	4154.9	3027.9	1467.0	851.7	605.6	544.1
85°	178.1	181.4	314.1	430.7	871.1	1677.5	991.0	534.3	433.9	317.4	310.9
87.5°	68.0	71.2	152.2	181.4	278.5	317.4	336.8	275.3	255.8	158.7	152.2
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)