

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: P399497

Luminaire Tested: **ARCH-L-PA3-150-740-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399497
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-PA3-150-740-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24551 lumens
Efficiency: N/A
Efficacy: 160.5 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

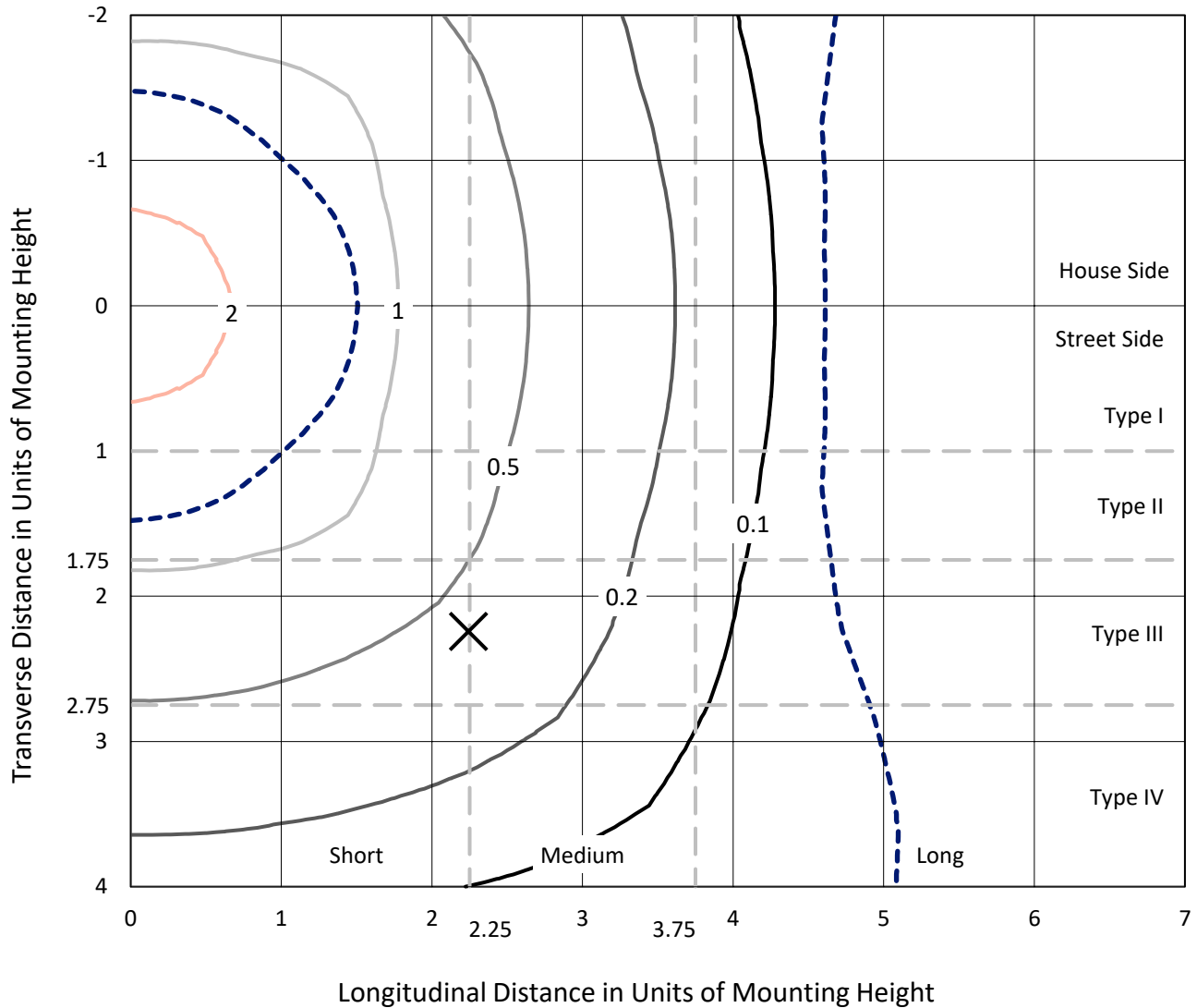
Input Watts (W): 153
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

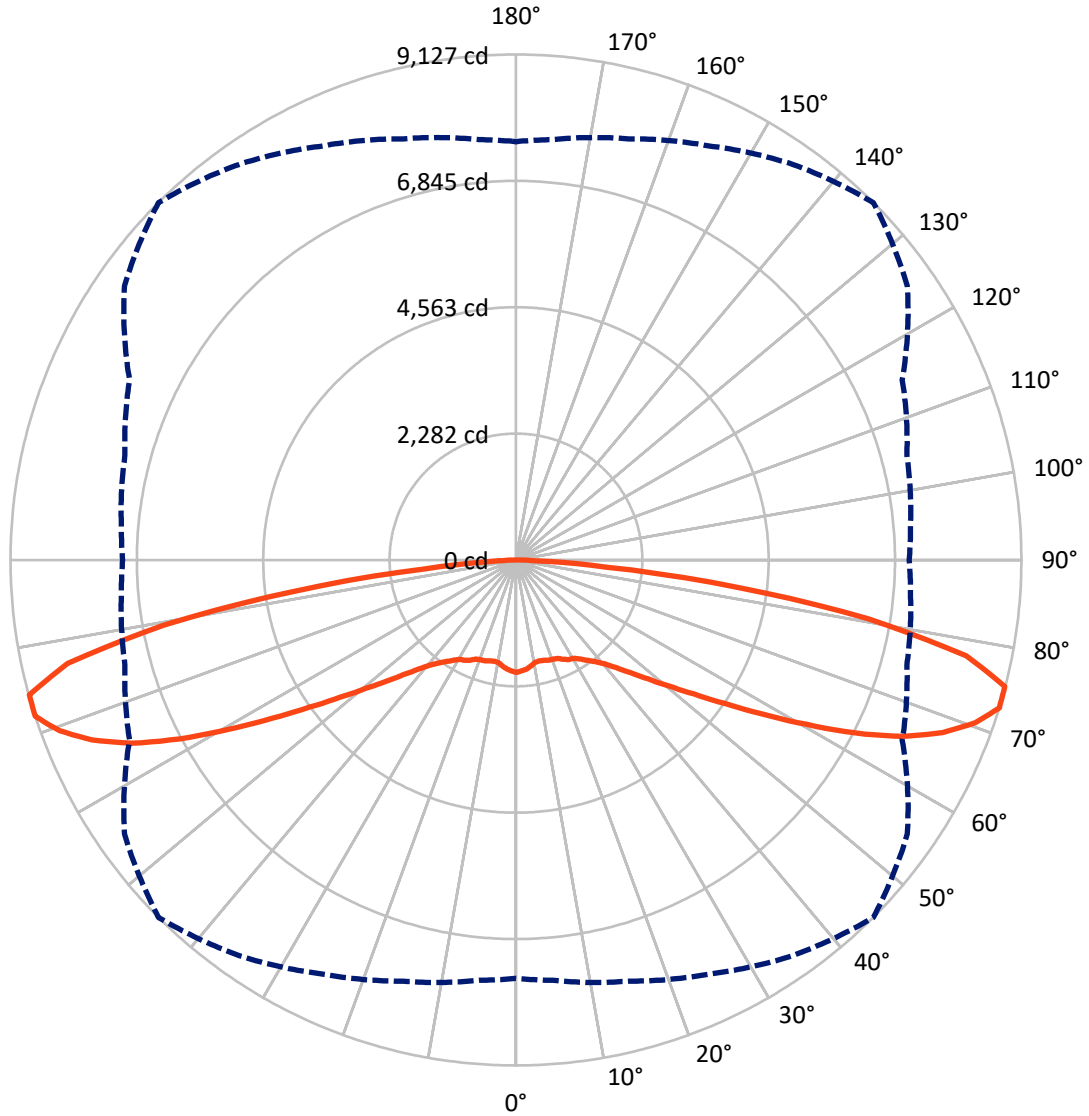
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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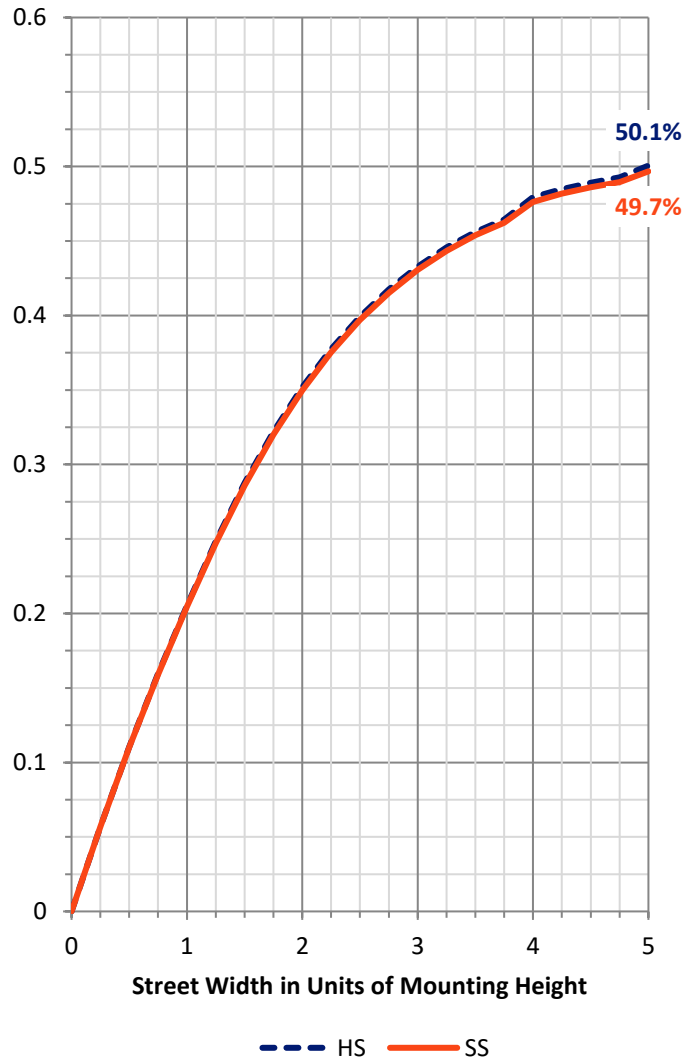
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12275.5	0.0	12275.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12275.5	0.0	12275.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24551.0	0.0	24551.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.3	0.8
10°-20°	540.8	2.2
20°-30°	918.8	3.7
30°-40°	1401.5	5.7
40°-50°	2307.7	9.4
50°-60°	4029.9	16.4
60°-70°	6756.2	27.5
70°-80°	7230.5	29.5
80°-90°	1179.3	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°	24551.0	100.0
0°-180°	24551.0	100.0

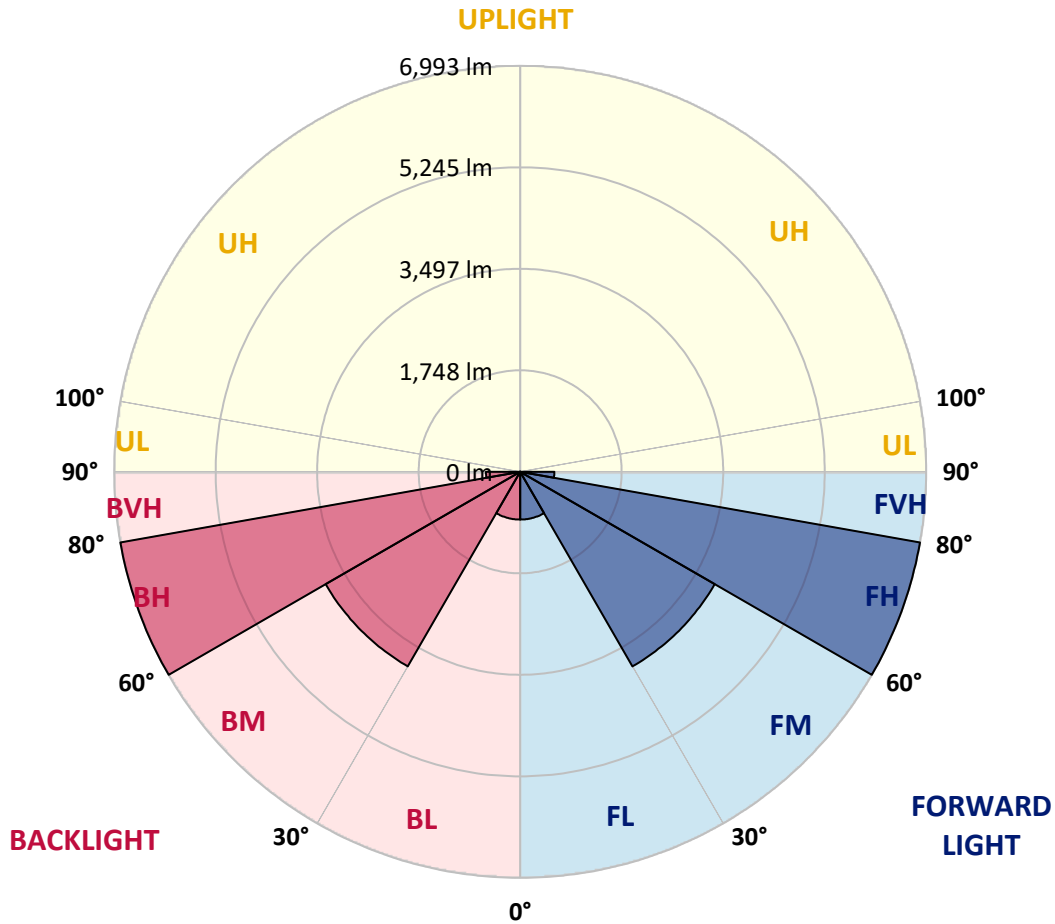


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.9	3.4			
FM (30°-60°)	3869.5	15.8			
FH (60°-80°)	6993.4	28.5			G3/7500
FVH (80°-90°)	589.7	2.4			G4/750
BL (0°-30°)	822.9	3.4	B2/1000		
BM (30°-60°)	3869.5	15.8	B3/5000		
BH (60°-80°)	6993.4	28.5	B5		G3/7500
BVH (80°-90°)	589.7	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°	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6	2031.6
2.5°	2019.1	2019.1	2019.1	2015.9	2009.7	2006.5	2000.3	2003.4	2003.4	2003.4	2003.4
5°	1994.0	1994.0	1990.9	1987.7	1981.5	1978.3	1972.1	1978.3	1978.3	1978.3	1978.3
7.5°	1947.0	1950.1	1950.1	1947.0	1937.6	1934.4	1925.0	1928.2	1928.2	1931.3	1928.2
10°	1921.9	1921.9	1918.8	1903.1	1887.4	1881.1	1878.0	1887.4	1896.8	1906.2	1906.2
12.5°	1921.9	1921.9	1915.6	1890.5	1868.6	1868.6	1868.6	1881.1	1899.9	1918.8	1921.9
15°	1931.3	1931.3	1918.8	1890.5	1878.0	1881.1	1881.1	1893.7	1915.6	1940.7	1943.8
17.5°	1937.6	1937.6	1921.9	1893.7	1893.7	1903.1	1896.8	1906.2	1928.2	1956.4	1959.5
20°	1947.0	1947.0	1925.0	1903.1	1903.1	1912.5	1912.5	1921.9	1940.7	1968.9	1972.1
22.5°	1965.8	1962.6	1940.7	1921.9	1921.9	1928.2	1934.4	1947.0	1962.6	1987.7	1994.0
25°	1987.7	1987.7	1968.9	1965.8	1972.1	1987.7	1984.6	1981.5	1987.7	2009.7	2019.1
27.5°	2000.3	2000.3	1987.7	1997.1	2022.2	2034.8	2019.1	2006.5	2006.5	2028.5	2031.6
30°	2041.0	2037.9	2025.4	2031.6	2053.6	2059.8	2050.4	2034.8	2044.2	2069.2	2072.4
32.5°	2110.0	2110.0	2091.2	2091.2	2106.9	2131.9	2100.6	2091.2	2103.7	2131.9	2135.1
35°	2216.6	2216.6	2191.5	2179.0	2191.5	2226.0	2179.0	2175.8	2197.8	2229.1	2232.3
37.5°	2351.4	2351.4	2335.7	2304.4	2307.5	2329.5	2288.7	2285.6	2326.3	2360.8	2360.8
40°	2520.7	2530.1	2514.4	2476.8	2464.3	2467.4	2436.1	2439.2	2486.2	2527.0	2527.0
42.5°	2730.8	2737.0	2712.0	2683.7	2668.1	2658.7	2627.3	2633.6	2690.0	2743.3	2743.3
45°	2984.7	2987.9	2962.8	2928.3	2909.5	2903.2	2871.9	2887.5	2950.2	3006.7	3003.5
47.5°	3270.0	3273.2	3248.1	3213.6	3201.1	3210.5	3179.1	3179.1	3235.5	3282.6	3276.3
50°	3593.0	3599.2	3571.0	3555.3	3545.9	3571.0	3533.4	3498.9	3536.5	3583.6	3577.3
52.5°	3950.4	3966.1	3947.2	3953.5	3988.0	4019.4	3956.6	3881.4	3900.2	3931.6	3922.2
55°	4383.0	4401.8	4408.1	4430.1	4521.0	4574.3	4470.8	4345.4	4336.0	4339.1	4323.5
57.5°	4869.0	4881.5	4922.3	4972.5	5160.6	5245.2	5082.2	4865.9	4796.9	4756.1	4746.7
60°	5358.1	5380.0	5480.4	5583.8	5872.3	6025.9	5775.1	5411.4	5264.0	5188.8	5173.1
62.5°	5850.3	5894.2	6057.2	6232.8	6652.9	6881.8	6496.2	5969.5	5756.3	5662.2	5637.1
65°	6420.9	6474.2	6671.7	6894.3	7361.5	7684.4	7217.3	6546.3	6317.5	6192.1	6160.7
67.5°	7088.7	7145.2	7305.1	7552.7	7994.8	8311.5	7897.6	7135.8	6837.9	6678.0	6652.9
70°	7637.4	7687.6	7860.0	8110.8	8440.0	8800.6	8405.5	7606.0	7336.4	7223.5	7207.9
72.5°	7552.7	7618.6	7872.5	8248.8	8719.0	9126.6	8628.1	7697.0	7308.2	7151.4	7101.3
75°	6596.5	6668.6	6969.6	7649.9	8509.0	9117.2	8305.2	7091.9	6634.1	6502.4	6477.4
77.5°	4367.4	4436.3	4944.2	6016.5	7430.5	8308.3	7330.1	5941.2	5204.5	4887.8	4869.0
80°	1765.1	1852.9	2338.9	3477.0	5267.2	6458.6	5436.5	3803.0	2564.6	2069.2	1968.9
82.5°	410.7	489.1	711.7	1282.3	2696.3	4022.5	2931.4	1420.3	824.6	586.3	526.7
85°	172.4	175.6	304.1	417.0	843.4	1624.0	959.4	517.3	420.1	307.3	301.0
87.5°	65.8	69.0	147.4	175.6	269.6	307.3	326.1	266.5	247.7	153.6	147.4
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)