

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: P400046

Luminaire Tested: **ARCH-L-PA3-230-722-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400046
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-PA3-230-722-U-5WQ
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2200K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24049 lumens
Efficiency: N/A
Efficacy: 105.0 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

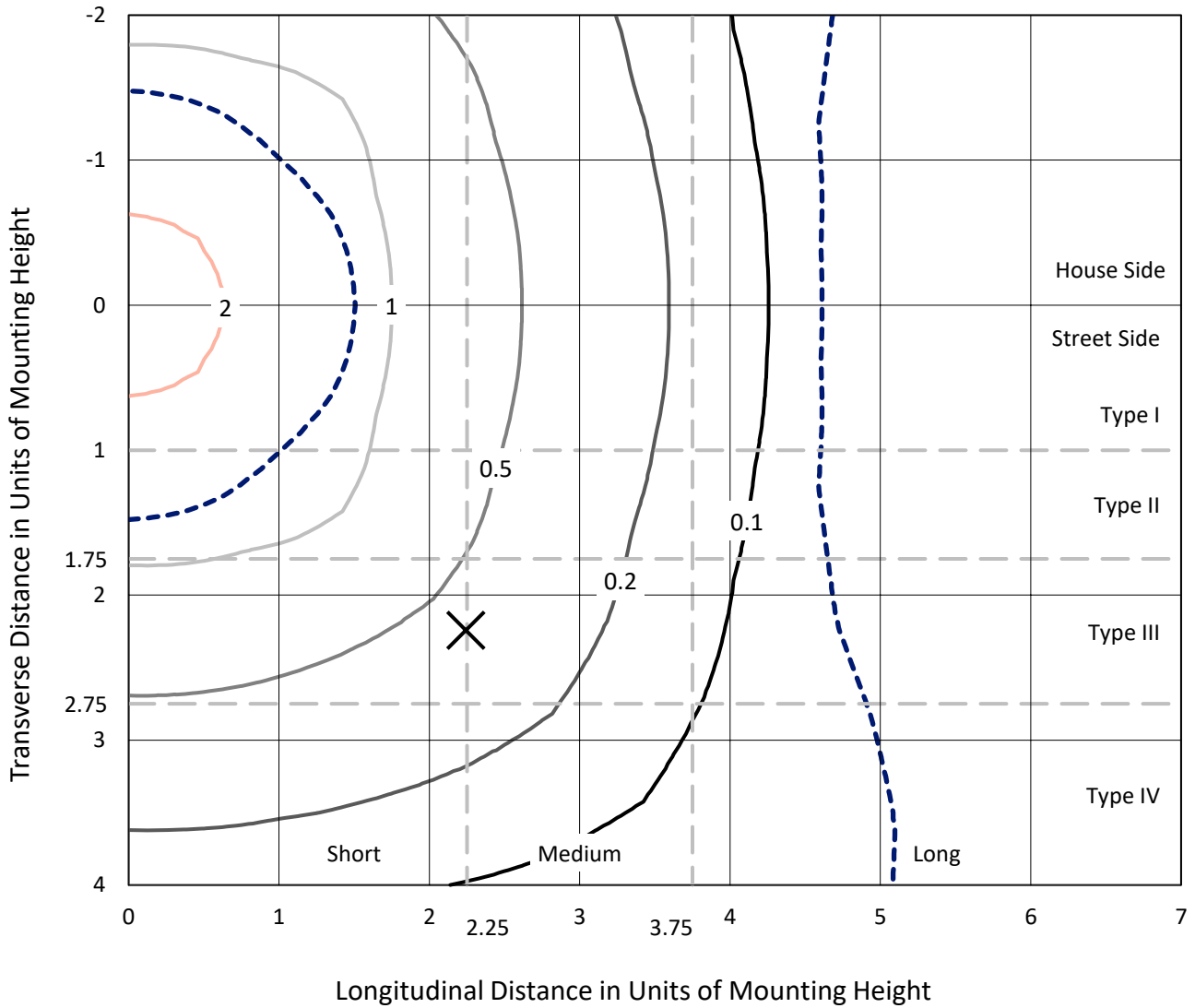
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

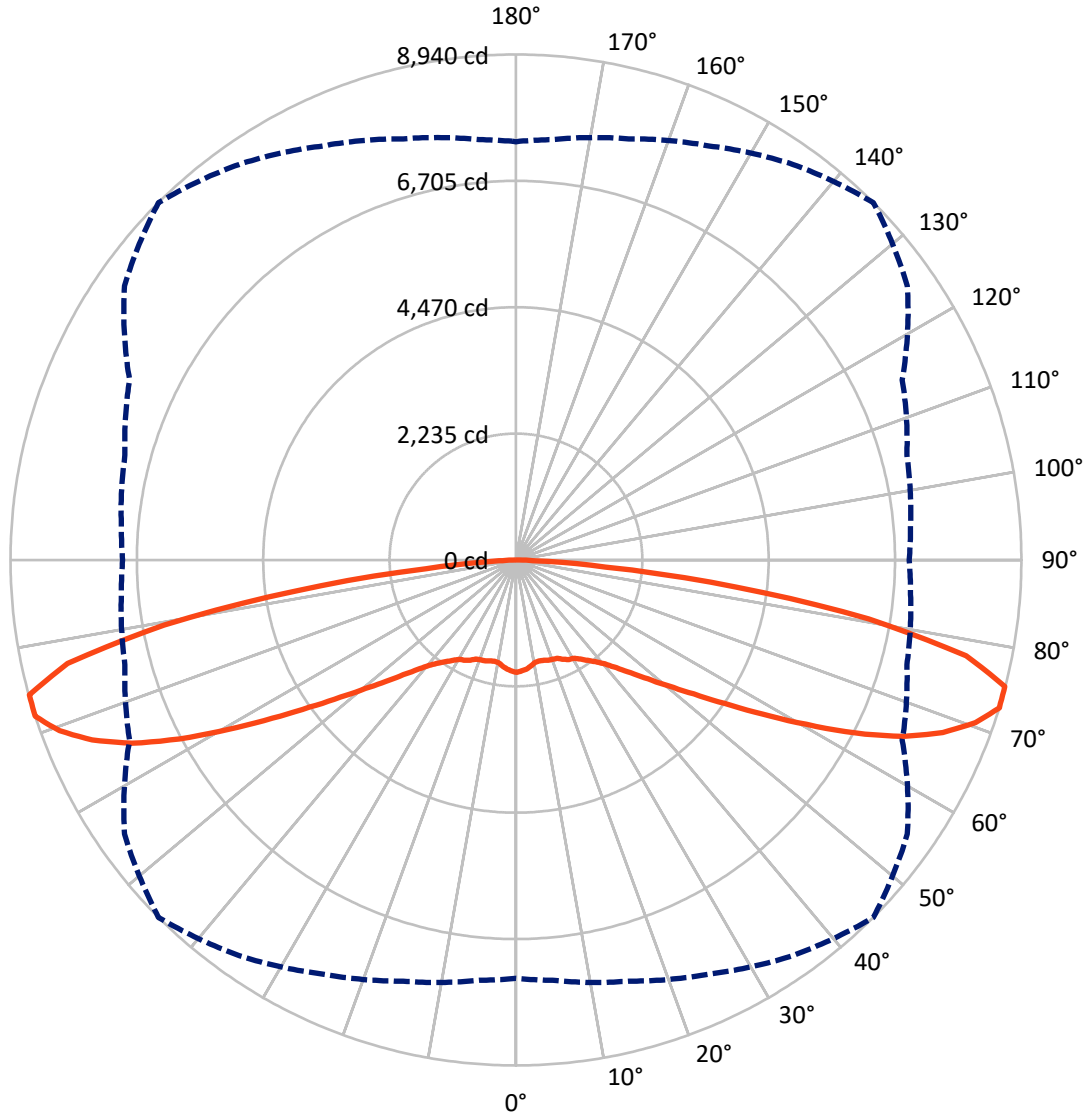
✕ Max cd
 - - - 1/2 Max cd



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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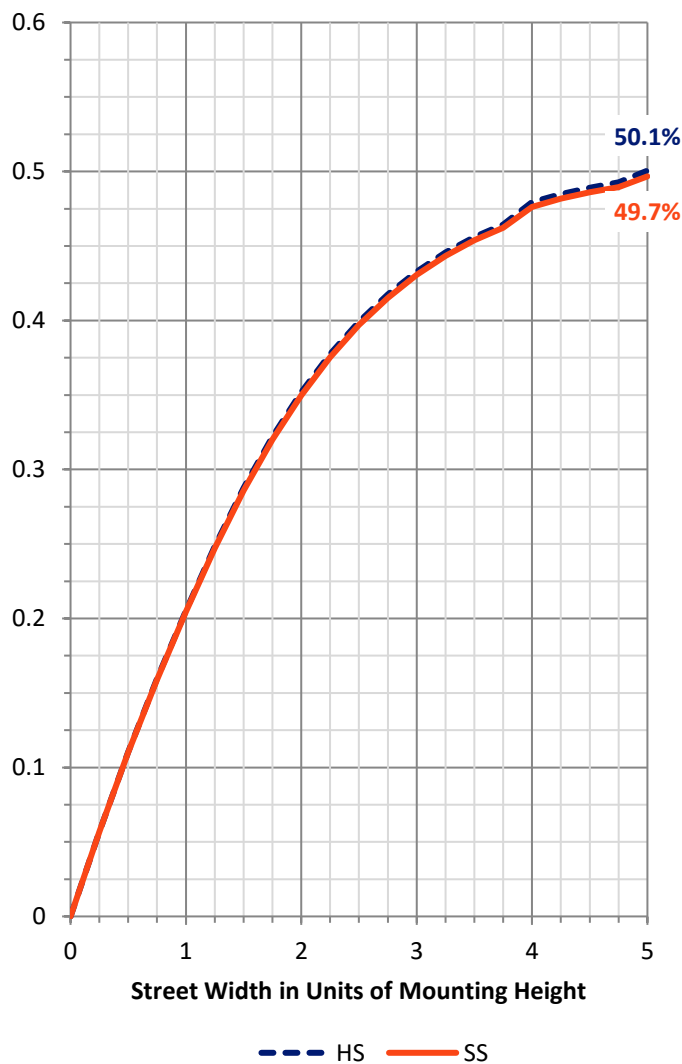
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12024.5	0.0	12024.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12024.5	0.0	12024.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24049.0	0.0	24049.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	0.8
10°-20°	529.7	2.2
20°-30°	900.1	3.7
30°-40°	1372.8	5.7
40°-50°	2260.5	9.4
50°-60°	3947.5	16.4
60°-70°	6618.1	27.5
70°-80°	7082.7	29.5
80°-90°	1155.2	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°	24049.0	100.0
0°-180°	24049.0	100.0

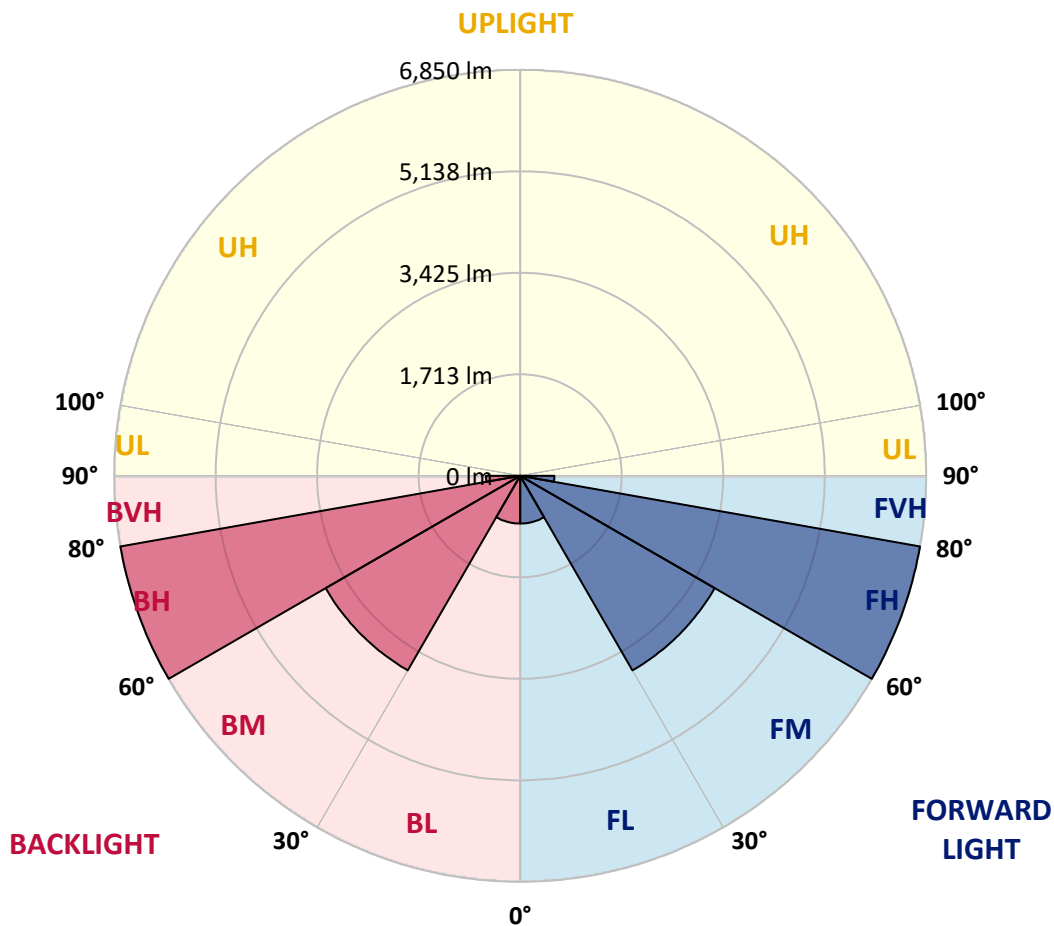


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	806.1	3.4			
FM (30°-60°)	3790.4	15.8			
FH (60°-80°)	6850.4	28.5			G3/7500
FVH (80°-90°)	577.6	2.4			G4/750
BL (0°-30°)	806.1	3.4	B2/1000		
BM (30°-60°)	3790.4	15.8	B3/5000		
BH (60°-80°)	6850.4	28.5	B5		G3/7500
BVH (80°-90°)	577.6	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°	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1	1990.1
2.5°	1977.8	1977.8	1977.8	1974.7	1968.6	1965.5	1959.4	1962.4	1962.4	1962.4	1962.4
5°	1953.2	1953.2	1950.2	1947.1	1940.9	1937.9	1931.7	1937.9	1937.9	1937.9	1937.9
7.5°	1907.2	1910.2	1910.2	1907.2	1897.9	1894.9	1885.7	1888.7	1888.7	1891.8	1888.7
10°	1882.6	1882.6	1879.5	1864.2	1848.8	1842.7	1839.6	1848.8	1858.0	1867.2	1867.2
12.5°	1882.6	1882.6	1876.5	1851.9	1830.4	1830.4	1830.4	1842.7	1861.1	1879.5	1882.6
15°	1891.8	1891.8	1879.5	1851.9	1839.6	1842.7	1842.7	1855.0	1876.5	1901.0	1904.1
17.5°	1897.9	1897.9	1882.6	1855.0	1855.0	1864.2	1858.0	1867.2	1888.7	1916.4	1919.4
20°	1907.2	1907.2	1885.7	1864.2	1864.2	1873.4	1873.4	1882.6	1901.0	1928.7	1931.7
22.5°	1925.6	1922.5	1901.0	1882.6	1882.6	1888.7	1894.9	1907.2	1922.5	1947.1	1953.2
25°	1947.1	1947.1	1928.7	1925.6	1931.7	1947.1	1944.0	1940.9	1947.1	1968.6	1977.8
27.5°	1959.4	1959.4	1947.1	1956.3	1980.9	1993.2	1977.8	1965.5	1965.5	1987.0	1990.1
30°	1999.3	1996.2	1983.9	1990.1	2011.6	2017.7	2008.5	1993.2	2002.4	2026.9	2030.0
32.5°	2066.9	2066.9	2048.4	2048.4	2063.8	2088.4	2057.6	2048.4	2060.7	2088.4	2091.4
35°	2171.3	2171.3	2146.7	2134.4	2146.7	2180.5	2134.4	2131.4	2152.9	2183.6	2186.6
37.5°	2303.3	2303.3	2288.0	2257.3	2260.3	2281.8	2241.9	2238.8	2278.8	2312.5	2312.5
40°	2469.2	2478.4	2463.0	2426.2	2413.9	2417.0	2386.3	2389.3	2435.4	2475.3	2475.3
42.5°	2674.9	2681.1	2656.5	2628.9	2613.5	2604.3	2573.6	2579.7	2635.0	2687.2	2687.2
45°	2923.7	2926.8	2902.2	2868.4	2850.0	2843.9	2813.1	2828.5	2889.9	2945.2	2942.1
47.5°	3203.2	3206.2	3181.7	3147.9	3135.6	3144.8	3114.1	3114.1	3169.4	3215.5	3209.3
50°	3519.5	3525.6	3498.0	3482.6	3473.4	3498.0	3461.1	3427.4	3464.2	3510.3	3504.1
52.5°	3869.6	3885.0	3866.5	3872.7	3906.5	3937.2	3875.7	3802.0	3820.5	3851.2	3842.0
55°	4293.4	4311.8	4318.0	4339.5	4428.5	4480.8	4379.4	4256.6	4247.3	4250.4	4235.1
57.5°	4769.4	4781.7	4821.6	4870.8	5055.1	5138.0	4978.3	4766.4	4698.8	4658.9	4649.7
60°	5248.5	5270.0	5368.3	5469.7	5752.2	5902.7	5657.0	5300.7	5156.4	5082.7	5067.3
62.5°	5730.7	5773.7	5933.4	6105.4	6516.9	6741.1	6363.3	5847.4	5638.6	5546.4	5521.9
65°	6289.6	6341.8	6535.3	6753.4	7211.0	7527.3	7069.7	6412.5	6188.3	6065.4	6034.7
67.5°	6943.8	6999.1	7155.7	7398.3	7831.3	8141.5	7736.1	6989.9	6698.1	6541.5	6516.9
70°	7481.2	7530.4	7699.3	7945.0	8267.4	8620.6	8233.7	7450.5	7186.4	7075.8	7060.5
72.5°	7398.3	7462.8	7711.6	8080.1	8540.8	8940.0	8451.7	7539.6	7158.8	7005.2	6956.1
75°	6461.6	6532.3	6827.1	7493.5	8335.0	8930.8	8135.4	6946.9	6498.5	6369.5	6344.9
77.5°	4278.1	4345.6	4843.1	5893.5	7278.5	8138.5	7180.3	5819.8	5098.0	4787.9	4769.4
80°	1729.0	1815.0	2291.1	3405.9	5159.5	6326.5	5325.3	3725.3	2512.2	2026.9	1928.7
82.5°	402.3	479.1	697.1	1256.1	2641.2	3940.2	2871.5	1391.2	807.7	574.3	515.9
85°	168.9	172.0	297.9	408.5	826.1	1590.8	939.8	506.7	411.5	301.0	294.8
87.5°	64.5	67.6	144.3	172.0	264.1	301.0	319.4	261.0	242.6	150.5	144.3
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)