

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: P573138

Luminaire Tested: **ARCH-S-PA2-40-730-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-40-730-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6295 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

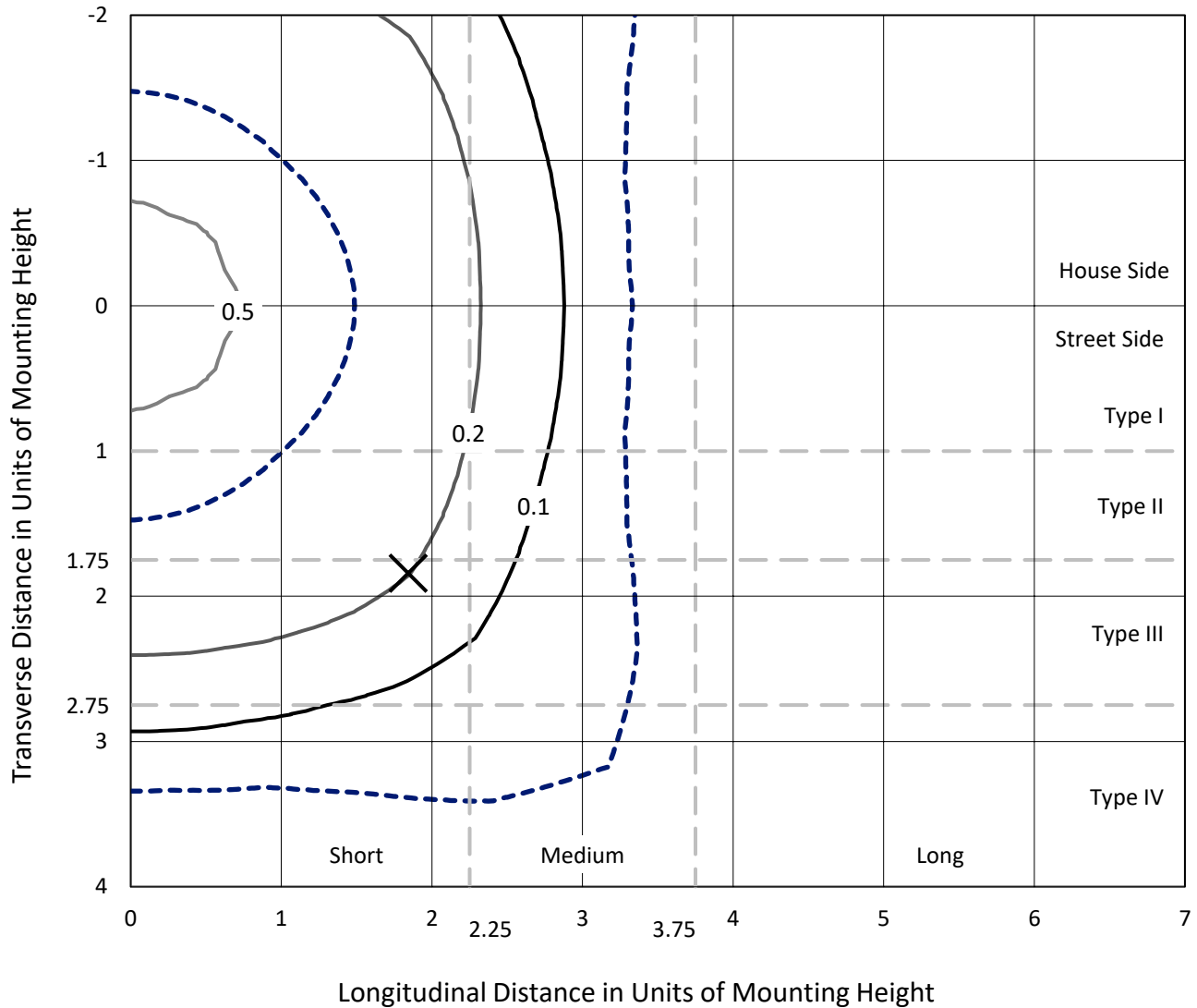
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

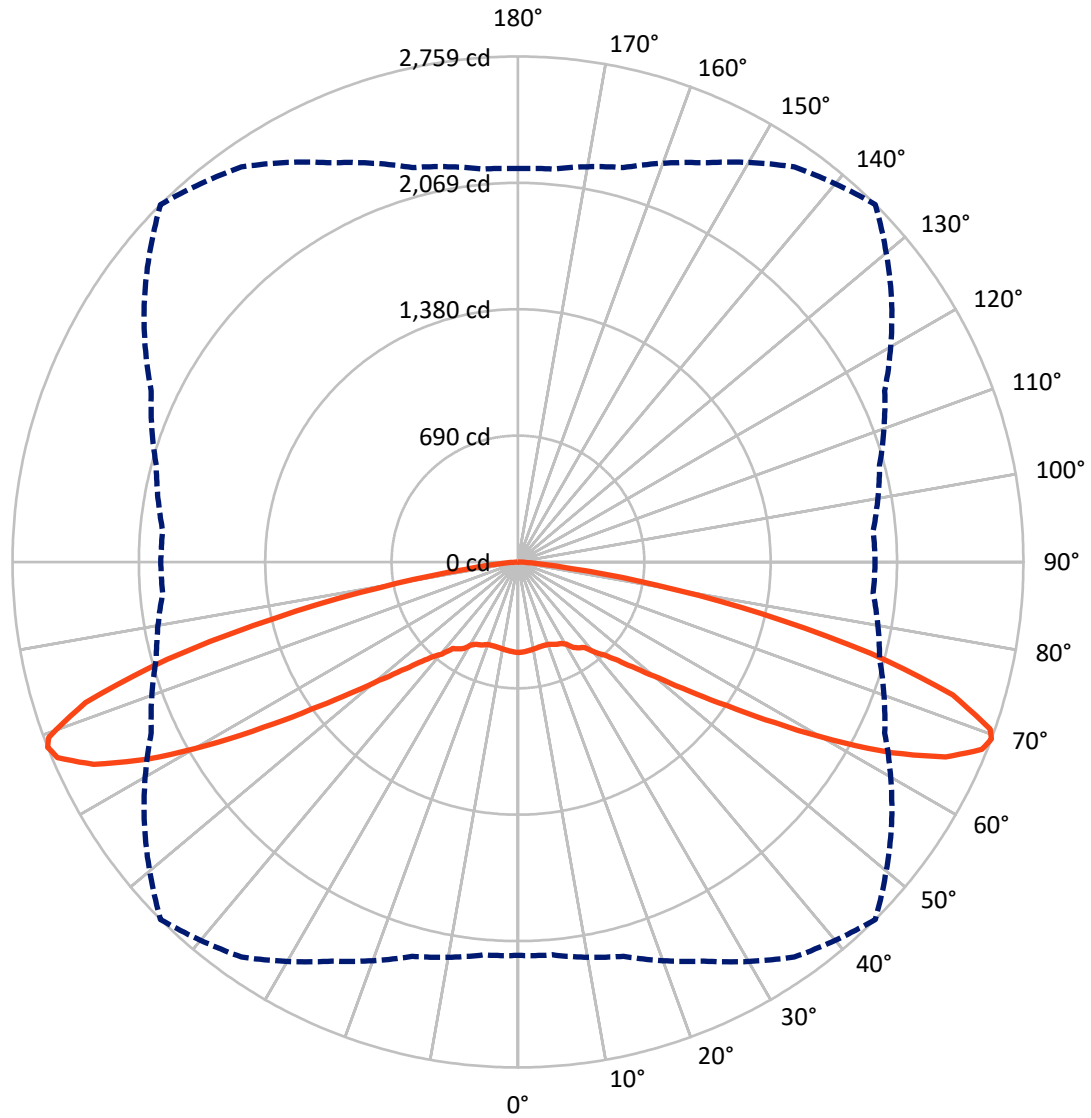
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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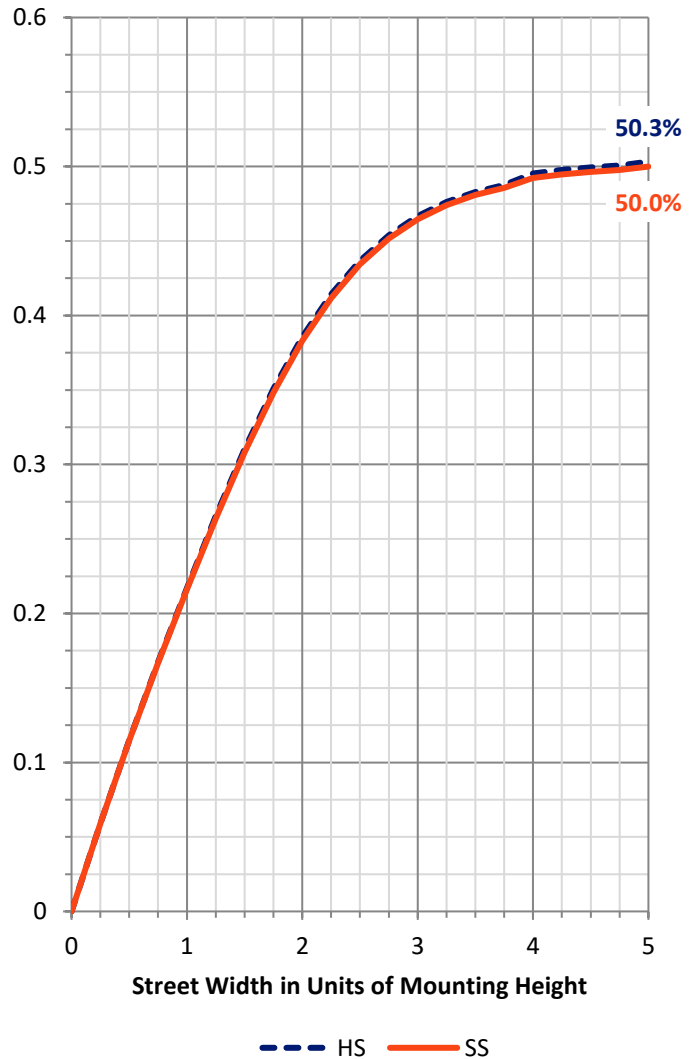
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3147.5	0.0	3147.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3147.5	0.0	3147.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6295.0	0.0	6295.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	0.7
10°-20°	136.8	2.2
20°-30°	232.0	3.7
30°-40°	360.7	5.7
40°-50°	619.3	9.8
50°-60°	1232.1	19.6
60°-70°	2194.9	34.9
70°-80°	1382.3	22.0
80°-90°	90.3	1.4
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°	6295.0	100.0
0°-180°	6295.0	100.0

Coefficient of Utilization



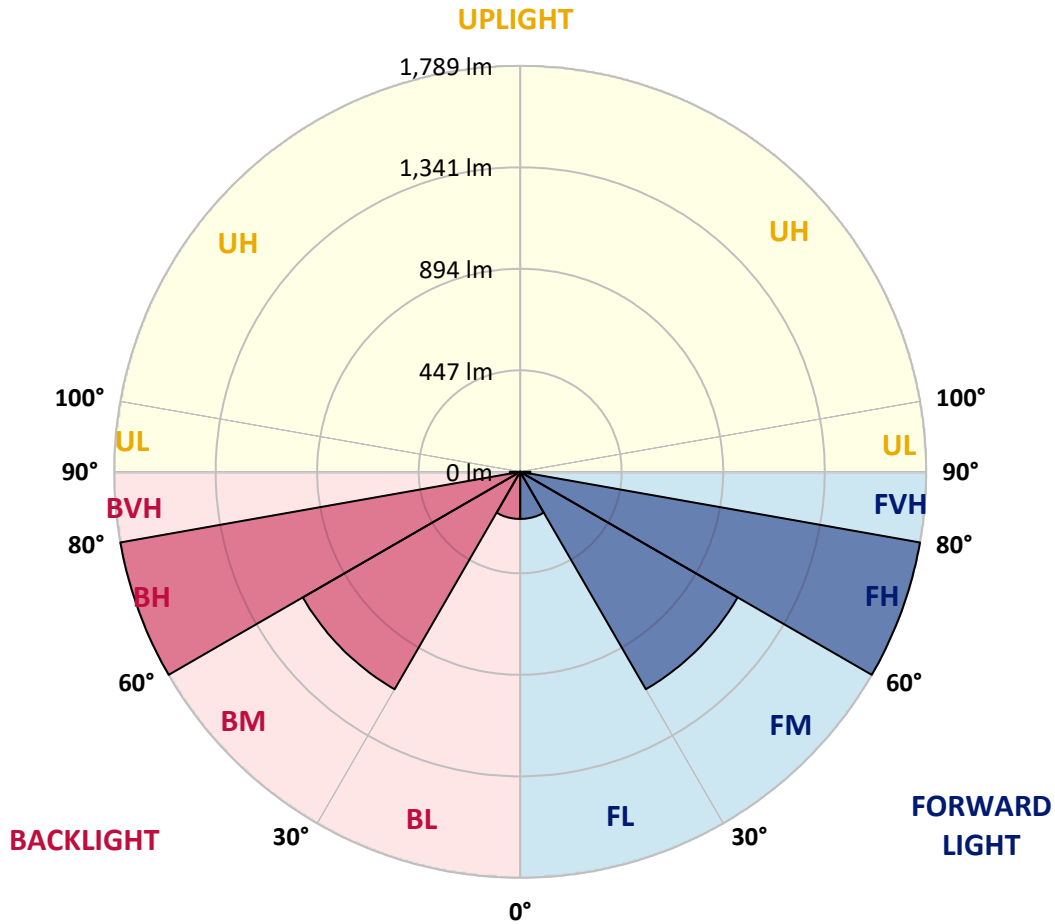
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.7	3.3			
FM (30°-60°)	1106.1	17.6			
FH (60°-80°)	1788.6	28.4			G1/1800
FVH (80°-90°)	45.1	0.7			G1/100
BL (0°-30°)	207.7	3.3	B1/500		
BM (30°-60°)	1106.1	17.6	B2/2500		
BH (60°-80°)	1788.6	28.4	B3/2500		G1/1800
BVH (80°-90°)	45.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0
2.5°	497.3	495.6	495.6	494.0	492.3	492.3	492.3	490.7	492.3	492.3	492.3
5°	495.6	494.0	492.3	490.7	490.7	489.0	490.7	489.0	489.0	489.0	489.0
7.5°	490.7	490.7	487.4	487.4	485.7	485.7	484.1	484.1	484.1	482.4	482.4
10°	490.7	489.0	487.4	484.1	482.4	482.4	482.4	480.8	482.4	482.4	482.4
12.5°	490.7	490.7	485.7	482.4	479.1	479.1	479.1	479.1	482.4	484.1	484.1
15°	494.0	492.3	487.4	480.8	477.5	477.5	477.5	479.1	482.4	485.7	485.7
17.5°	495.6	492.3	485.7	479.1	477.5	477.5	477.5	479.1	484.1	487.4	489.0
20°	497.3	495.6	487.4	480.8	479.1	479.1	479.1	479.1	484.1	489.0	490.7
22.5°	502.2	500.6	492.3	487.4	485.7	487.4	485.7	485.7	490.7	497.3	497.3
25°	508.8	505.5	497.3	494.0	494.0	497.3	497.3	494.0	498.9	503.9	505.5
27.5°	520.4	517.1	508.8	505.5	503.9	503.9	503.9	503.9	507.2	515.5	515.5
30°	530.3	528.7	525.4	525.4	523.7	520.4	520.4	523.7	525.4	528.7	530.3
32.5°	543.5	540.2	536.9	536.9	546.8	556.8	548.5	535.3	533.6	535.3	536.9
35°	571.6	568.3	560.1	555.1	565.0	574.9	561.7	553.5	558.4	563.4	563.4
37.5°	611.3	609.6	603.0	593.1	589.8	591.5	586.5	593.1	606.3	616.2	617.9
40°	652.6	650.9	644.3	639.4	641.0	649.3	646.0	639.4	647.6	654.2	654.2
42.5°	717.0	710.4	700.5	687.3	688.9	695.5	687.3	693.9	705.4	717.0	718.7
45°	802.9	796.3	783.1	771.5	763.3	766.6	766.6	778.1	791.4	804.6	809.5
47.5°	895.4	893.8	880.6	870.7	862.4	867.4	867.4	867.4	888.8	902.0	902.0
50°	1009.4	1004.5	1004.5	996.2	992.9	994.6	988.0	994.6	1004.5	1007.8	1002.8
52.5°	1144.9	1140.0	1143.3	1146.6	1154.8	1166.4	1149.9	1148.2	1143.3	1138.3	1136.6
55°	1306.8	1311.8	1325.0	1346.5	1359.7	1382.8	1358.0	1328.3	1315.1	1301.9	1291.9
57.5°	1500.1	1508.4	1528.2	1579.4	1635.6	1657.1	1614.1	1559.6	1513.3	1475.3	1483.6
60°	1752.9	1747.9	1781.0	1850.4	1929.7	1972.6	1904.9	1815.7	1741.3	1723.1	1728.1
62.5°	2022.2	2032.1	2055.2	2147.7	2246.9	2293.1	2210.5	2078.3	1982.5	1933.0	1933.0
65°	2190.7	2197.3	2261.7	2392.2	2502.9	2565.7	2448.4	2256.8	2119.6	2037.0	2032.1
67.5°	2215.5	2222.1	2294.8	2461.6	2643.4	2730.9	2527.7	2278.2	2118.0	2017.2	2013.9
69°	2147.7	2152.7	2228.7	2403.8	2631.8	2759.0	2489.7	2208.9	2043.6	1946.2	1949.5
70°	2050.3	2070.1	2127.9	2306.3	2570.7	2734.2	2420.3	2131.2	1959.4	1881.7	1868.5
72.5°	1607.5	1620.7	1716.5	1937.9	2294.8	2481.5	2126.3	1804.1	1629.0	1548.0	1567.8
75°	910.3	907.0	1029.3	1346.5	1769.4	1987.5	1673.6	1298.6	1044.1	946.7	959.9
77.5°	346.9	361.8	444.4	690.6	1111.9	1358.0	1110.2	693.9	485.7	378.3	360.2
80°	112.3	119.0	156.9	251.1	474.2	766.6	518.8	267.6	168.5	127.2	119.0
82.5°	44.6	49.6	59.5	84.3	160.3	289.1	175.1	97.5	72.7	59.5	54.5
85°	24.8	23.1	31.4	38.0	54.5	82.6	59.5	46.3	39.7	28.1	26.4
87.5°	8.3	8.3	13.2	13.2	14.9	13.2	14.9	16.5	16.5	9.9	8.3
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)