

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: P236754

Luminaire Tested: **ARCH-L-AF72-210-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-210-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 25948 lumens
Efficiency: N/A
Efficacy: 123.0 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

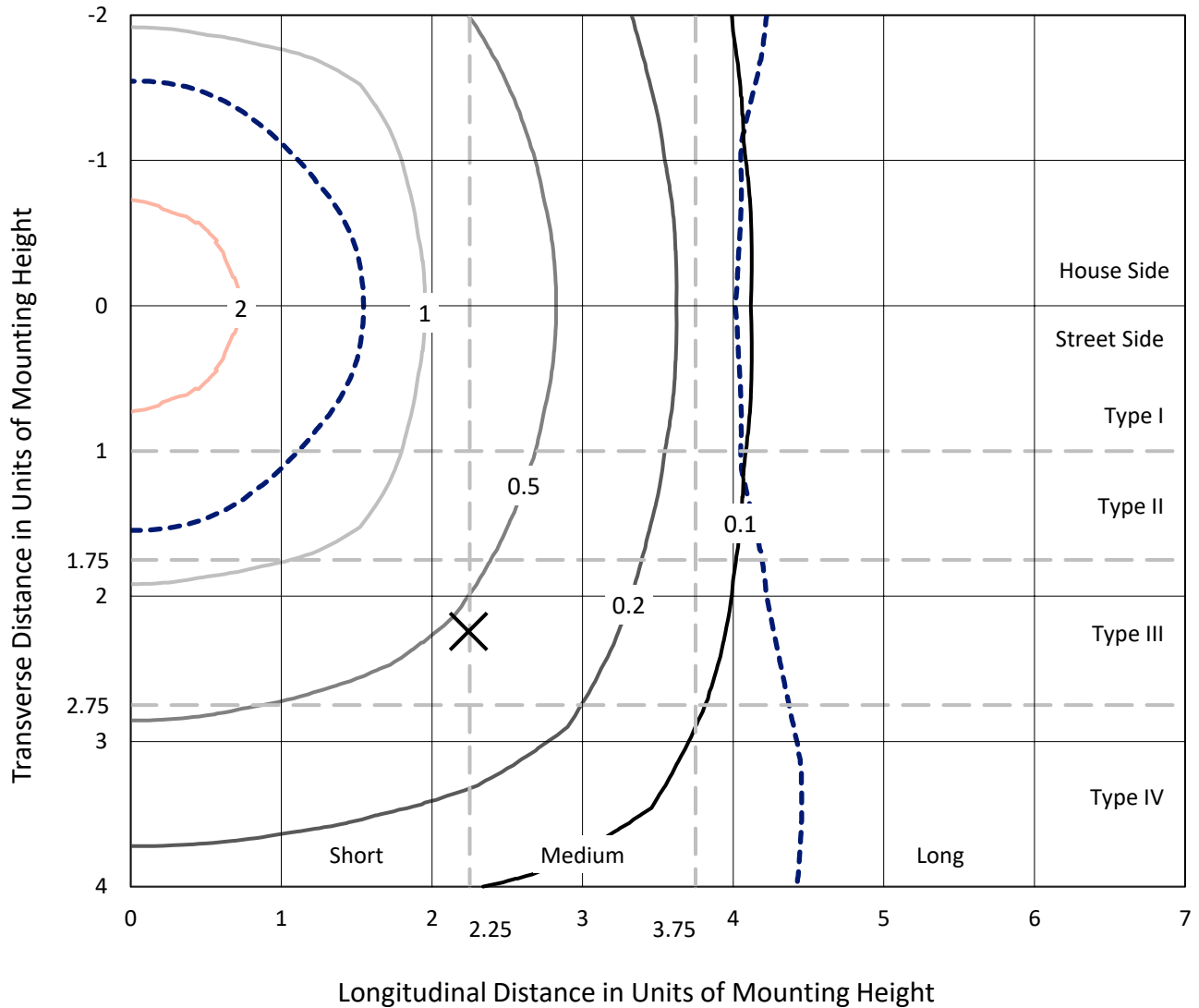
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

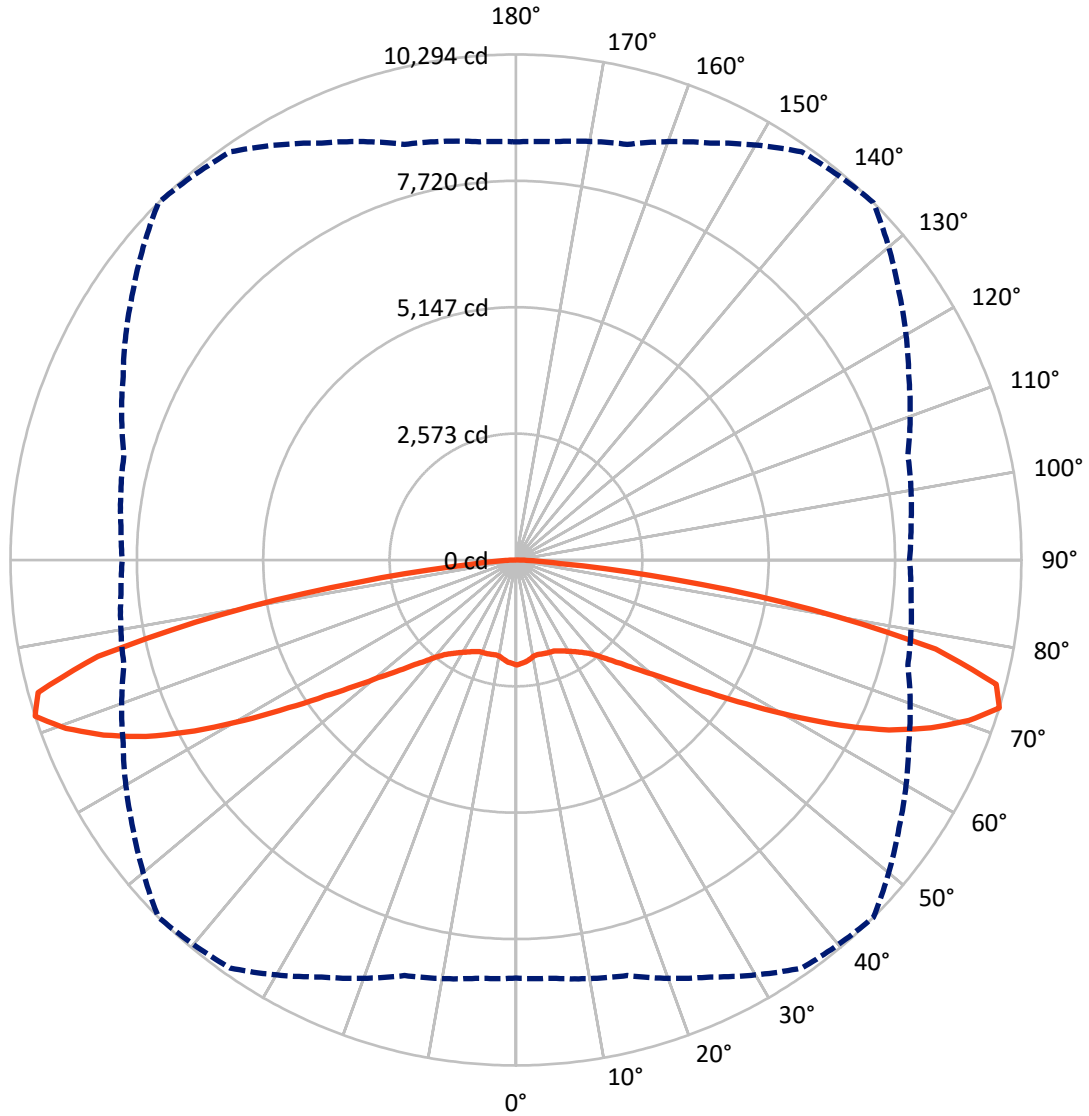
✕ Max cd
 - - - 1/2 Max cd



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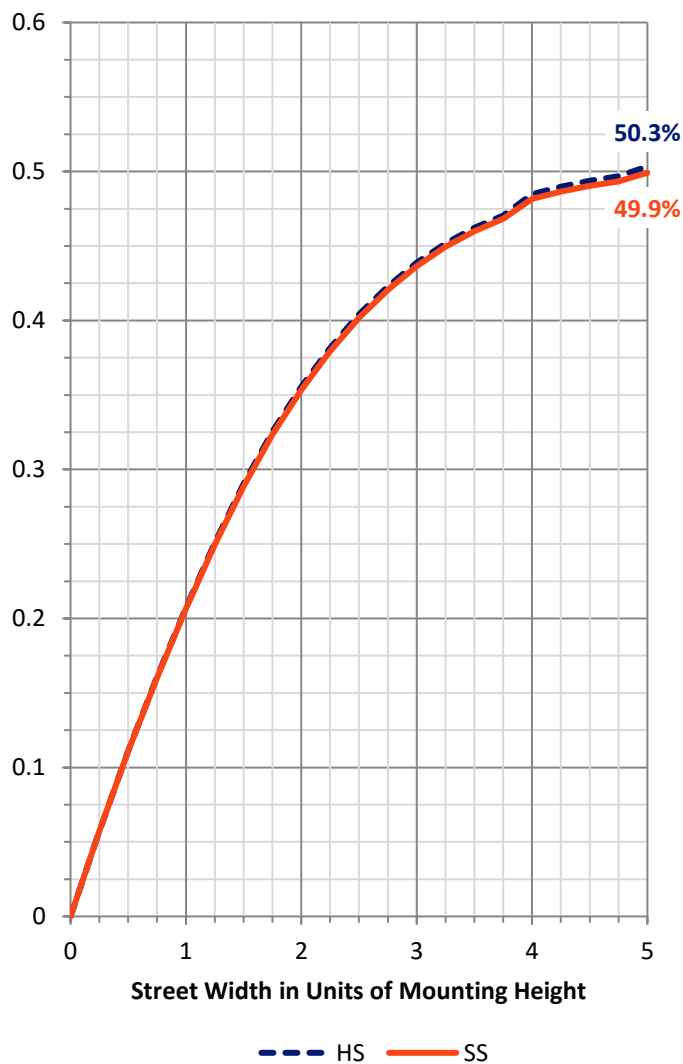
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12974.0	0.0	12974.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12974.0	0.0	12974.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25948.0	0.0	25948.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	0.8
10°-20°	567.8	2.2
20°-30°	950.2	3.7
30°-40°	1459.9	5.6
40°-50°	2417.3	9.3
50°-60°	4297.5	16.6
60°-70°	7518.4	29.0
70°-80°	7649.4	29.5
80°-90°	890.7	3.4
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°	25948.0	100.0
0°-180°	25948.0	100.0



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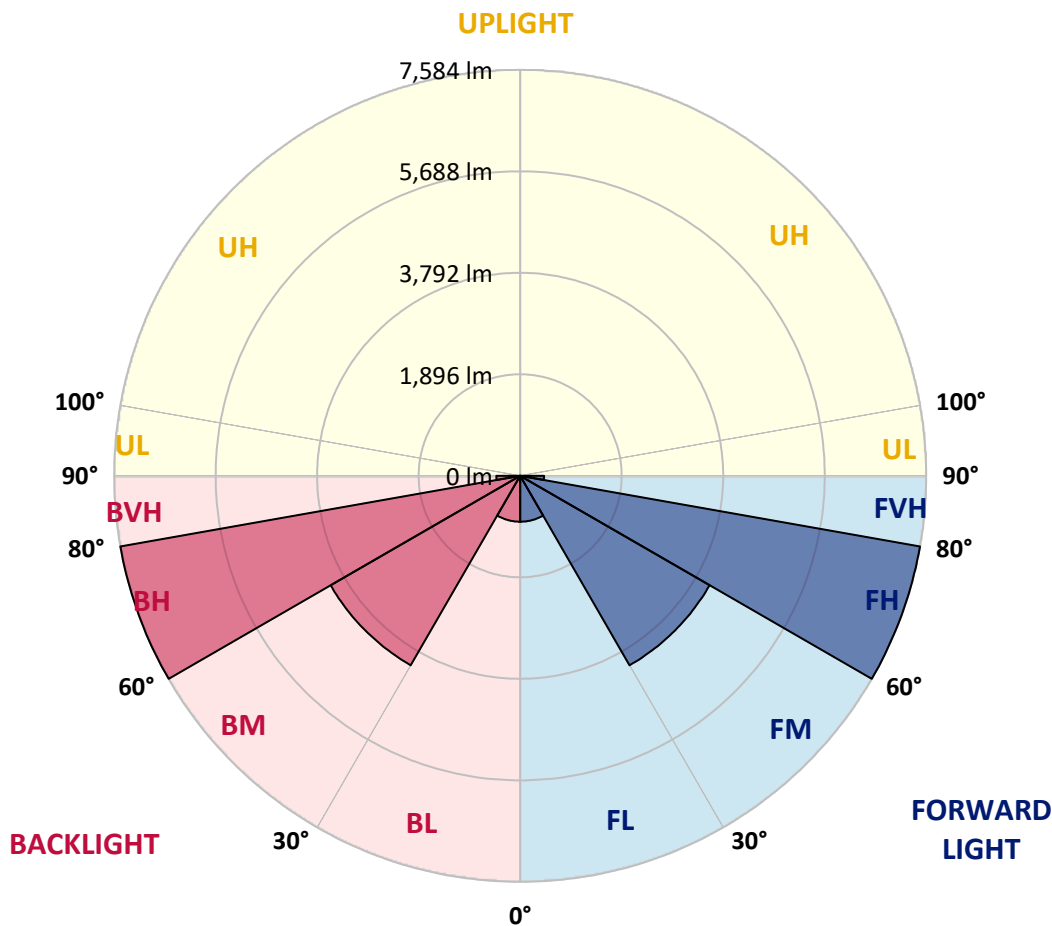
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	857.4	3.3			
FM (30°-60°)	4087.4	15.8			
FH (60°-80°)	7583.9	29.2			G4/12000
FVH (80°-90°)	445.4	1.7			G3/500
BL (0°-30°)	857.4	3.3	B2/1000		
BM (30°-60°)	4087.4	15.8	B3/5000		
BH (60°-80°)	7583.9	29.2	B5		G4/12000
BVH (80°-90°)	445.4	1.7			G3/500
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°	2138.7	2138.7	2138.7	2138.7	2138.7	2138.7	2138.7	2138.7	2138.7	2138.7	2138.7
2.5°	2119.0	2123.9	2114.0	2114.0	2114.0	2109.1	2114.0	2109.1	2114.0	2119.0	2119.0
5°	2099.2	2099.2	2089.3	2089.3	2089.3	2084.4	2089.3	2089.3	2094.3	2099.2	2099.2
7.5°	2054.7	2054.7	2049.8	2044.9	2039.9	2039.9	2044.9	2044.9	2049.8	2054.7	2054.7
10°	2030.1	2025.1	2015.2	2000.4	1995.5	1990.5	2000.4	2010.3	2025.1	2039.9	2035.0
12.5°	2020.2	2015.2	1995.5	1980.7	1970.8	1975.7	1985.6	1995.5	2020.2	2035.0	2030.1
15°	2030.1	2020.2	1995.5	1970.8	1975.7	1985.6	1995.5	1995.5	2025.1	2039.9	2039.9
17.5°	2030.1	2025.1	1995.5	1975.7	1980.7	1995.5	2000.4	1995.5	2020.2	2044.9	2044.9
20°	2035.0	2035.0	1995.5	1980.7	1985.6	2000.4	2005.4	2000.4	2020.2	2049.8	2049.8
22.5°	2044.9	2039.9	2000.4	1990.5	2000.4	2010.3	2015.2	2010.3	2030.1	2054.7	2059.7
25°	2064.6	2054.7	2020.2	2015.2	2035.0	2049.8	2049.8	2039.9	2049.8	2074.5	2074.5
27.5°	2089.3	2084.4	2044.9	2044.9	2069.6	2099.2	2084.4	2064.6	2074.5	2099.2	2099.2
30°	2133.8	2128.8	2089.3	2089.3	2123.9	2158.5	2123.9	2099.2	2114.0	2138.7	2143.7
32.5°	2198.0	2198.0	2163.4	2153.5	2212.8	2227.6	2212.8	2163.4	2173.3	2207.9	2207.9
35°	2306.7	2296.8	2262.2	2257.3	2316.5	2311.6	2306.7	2262.2	2272.1	2311.6	2311.6
37.5°	2449.9	2445.0	2415.3	2400.5	2430.1	2410.4	2420.3	2400.5	2425.2	2454.8	2459.8
40°	2632.6	2627.7	2603.0	2583.3	2593.1	2563.5	2573.4	2583.3	2608.0	2627.7	2632.6
42.5°	2859.9	2859.9	2835.2	2800.6	2785.8	2770.9	2770.9	2790.7	2815.4	2840.1	2840.1
45°	3141.4	3141.4	3111.8	3077.2	3032.7	3008.0	3017.9	3037.7	3067.3	3096.9	3106.8
47.5°	3472.3	3472.3	3432.8	3398.2	3353.8	3324.2	3324.2	3334.0	3378.5	3403.2	3418.0
50°	3842.8	3828.0	3788.4	3753.9	3729.2	3689.7	3694.6	3689.7	3729.2	3763.7	3773.6
52.5°	4228.0	4223.1	4183.6	4173.7	4188.5	4168.8	4168.8	4119.4	4134.2	4154.0	4149.0
55°	4707.2	4692.3	4657.8	4677.5	4736.8	4766.4	4756.5	4677.5	4633.1	4642.9	4638.0
57.5°	5230.7	5215.9	5206.0	5265.3	5398.7	5522.1	5497.4	5314.7	5230.7	5235.7	5240.6
60°	5764.2	5764.2	5793.8	5942.0	6228.5	6431.0	6356.9	6050.6	5902.5	5872.8	5863.0
62.5°	6312.4	6327.2	6391.5	6638.4	7078.0	7413.9	7226.2	6791.5	6569.3	6510.0	6490.2
65°	6949.6	6964.4	7058.3	7364.5	7947.3	8347.4	8026.4	7616.4	7305.2	7181.7	7162.0
67.5°	7873.2	7883.1	7957.2	8253.6	8801.8	9122.9	8792.0	8426.5	8090.6	7947.3	7937.5
70°	8703.1	8712.9	8777.1	9167.3	9671.2	9784.8	9419.3	8955.0	8604.3	8490.7	8470.9
72.5°	8515.4	8549.9	8762.3	9369.9	10145.3	10293.5	9523.0	8826.5	8263.5	8075.8	8016.5
75°	7142.2	7196.6	7532.4	8446.2	9681.0	10100.9	8910.5	7631.2	6791.5	6431.0	6337.1
77.5°	4168.8	4371.3	4949.2	6119.8	7883.1	8737.6	7339.8	5586.4	4173.7	3581.0	3383.4
80°	1141.0	1249.6	1669.5	2815.4	4944.2	6119.8	4682.5	2563.5	1383.0	1037.3	963.2
82.5°	360.6	479.1	607.5	810.0	1941.1	3225.4	1738.6	755.7	592.7	489.0	434.7
85°	192.6	207.5	340.8	395.1	582.8	903.9	538.4	395.1	355.6	261.8	247.0
87.5°	98.8	103.7	192.6	192.6	256.8	212.4	232.1	212.4	202.5	128.4	113.6
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)