

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: P236714

Luminaire Tested: **ARCH-L-AF72-210-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-210-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

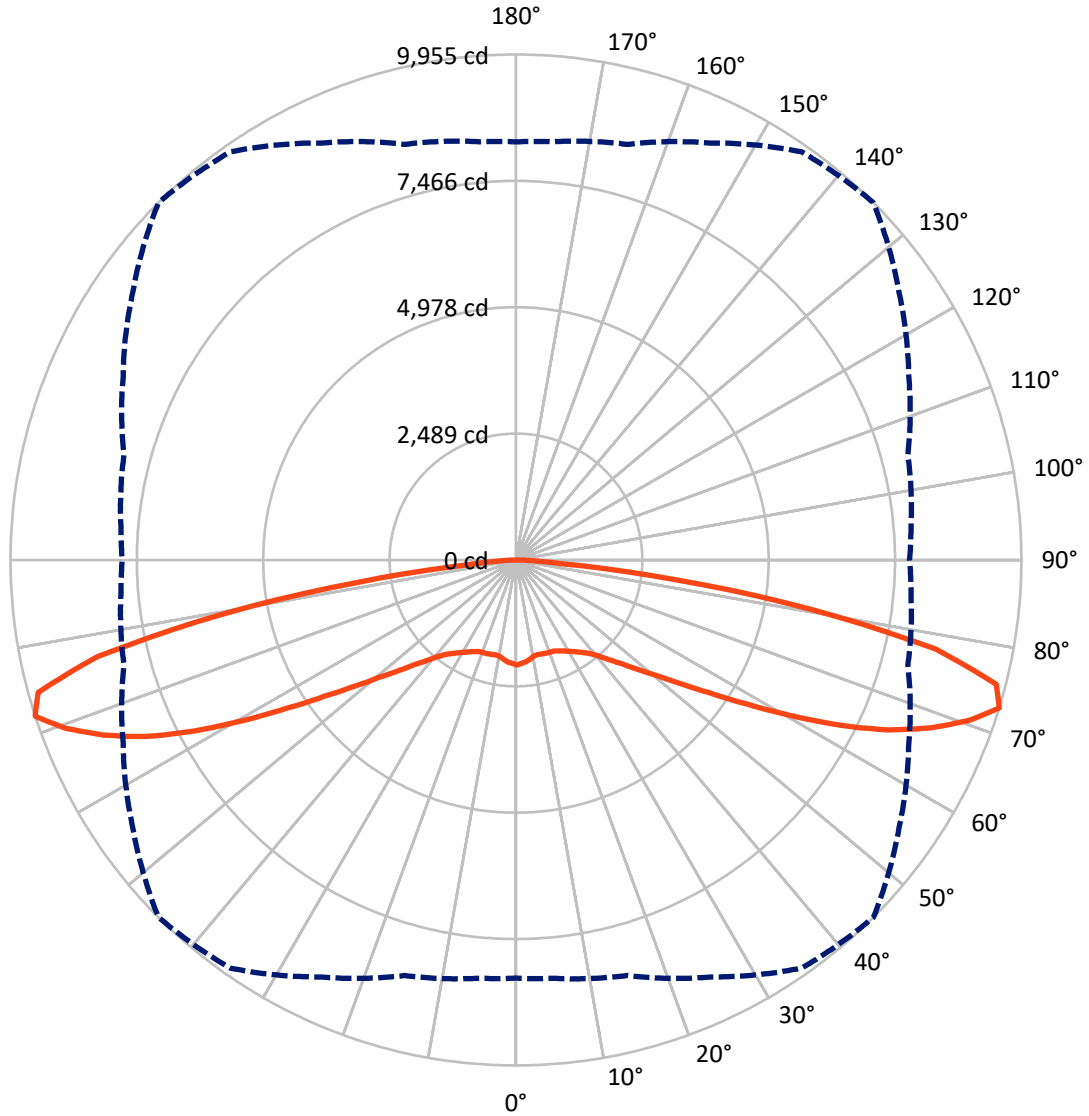
Lumens per Lamp: N/A
Luminaire Lumens: 25095.7 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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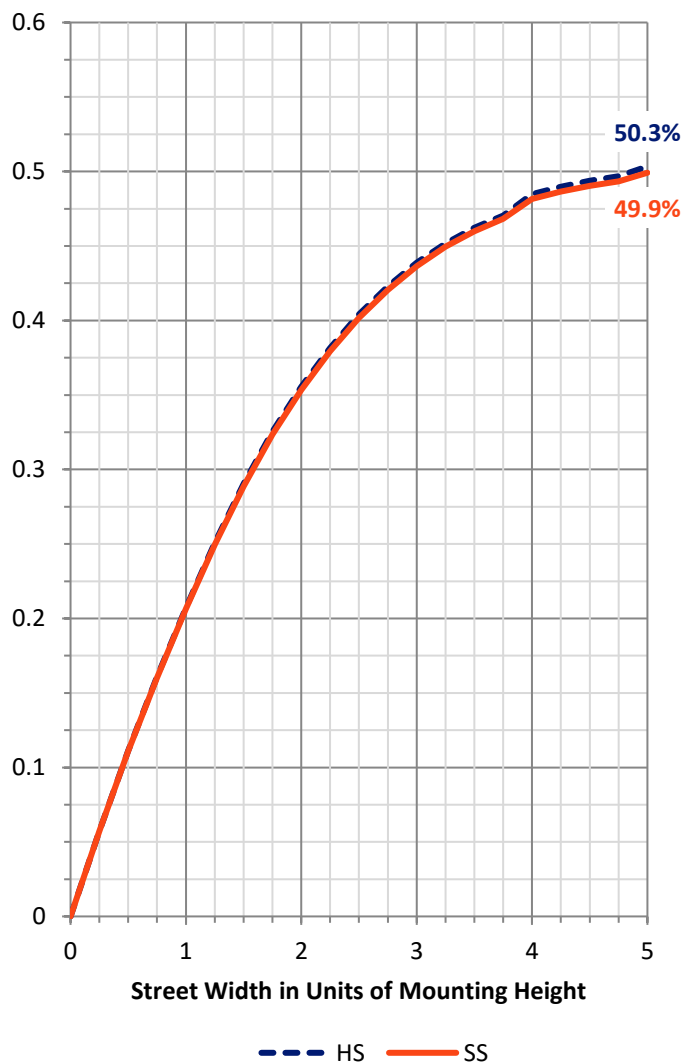
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12547.9	0.0	12547.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12547.9	0.0	12547.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	25095.7	0.0	25095.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.3	0.8
10°-20°	549.1	2.2
20°-30°	919.0	3.7
30°-40°	1412.0	5.6
40°-50°	2337.9	9.3
50°-60°	4156.4	16.6
60°-70°	7271.4	29.0
70°-80°	7398.1	29.5
80°-90°	861.5	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°	25095.7	100.0
0°-180°	25095.7	100.0

Coefficient of Utilization



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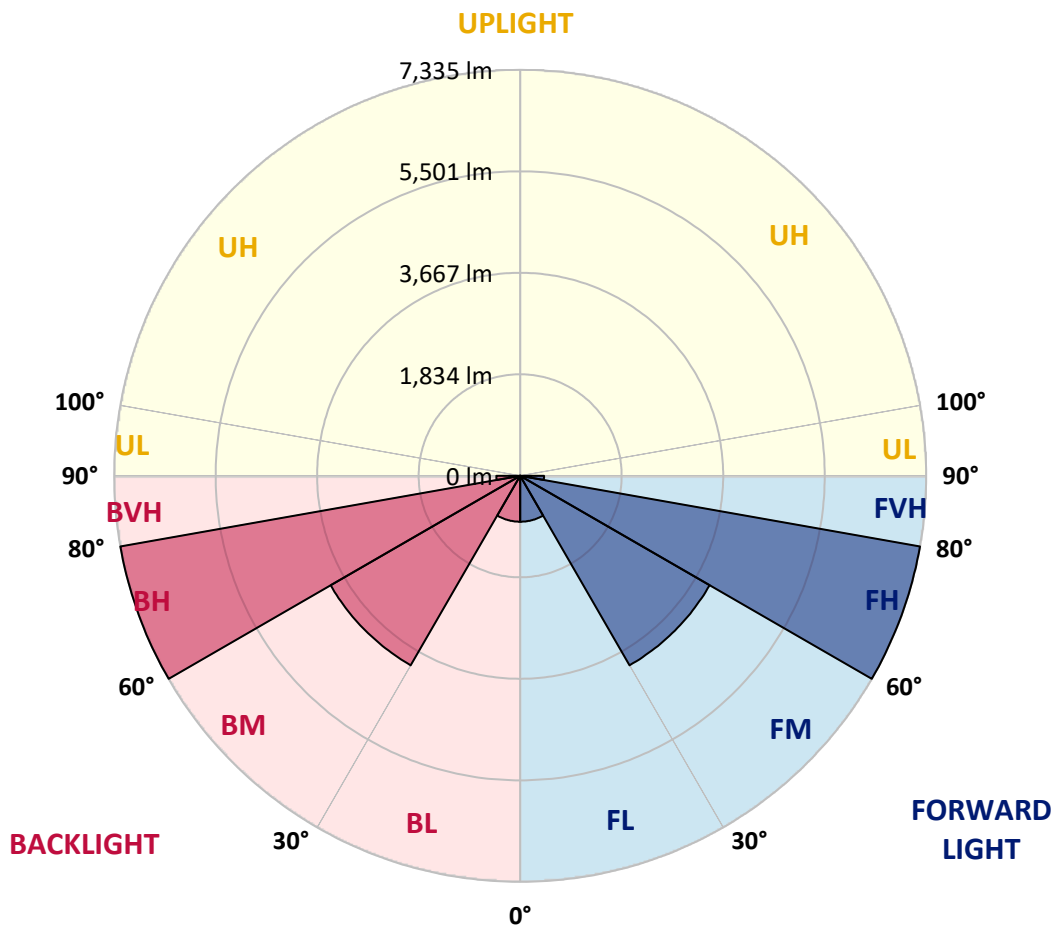
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	829.2	3.3			
FM (30°-60°)	3953.1	15.8			
FH (60°-80°)	7334.8	29.2			G3/7500
FVH (80°-90°)	430.7	1.7			G3/500
BL (0°-30°)	829.2	3.3	B2/1000		
BM (30°-60°)	3953.1	15.8	B3/5000		
BH (60°-80°)	7334.8	29.2	B5		G3/7500
BVH (80°-90°)	430.7	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5	2068.5
2.5°	2049.3	2054.2	2044.6	2044.6	2044.6	2039.8	2044.6	2039.8	2044.6	2049.3	2049.3
5°	2030.2	2030.2	2020.7	2020.7	2020.7	2016.0	2020.7	2020.7	2025.4	2030.2	2030.2
7.5°	1987.3	1987.3	1982.5	1977.7	1972.9	1972.9	1977.7	1977.7	1982.5	1987.3	1987.3
10°	1963.4	1958.6	1949.0	1934.8	1929.9	1925.1	1934.8	1944.3	1958.6	1972.9	1968.2
12.5°	1953.8	1949.0	1929.9	1915.7	1906.0	1910.8	1920.3	1929.9	1953.8	1968.2	1963.4
15°	1963.4	1953.8	1929.9	1906.0	1910.8	1920.3	1929.9	1929.9	1958.6	1972.9	1972.9
17.5°	1963.4	1958.6	1929.9	1910.8	1915.7	1929.9	1934.8	1929.9	1953.8	1977.7	1977.7
20°	1968.2	1968.2	1929.9	1915.7	1920.3	1934.8	1939.5	1934.8	1953.8	1982.5	1982.5
22.5°	1977.7	1972.9	1934.8	1925.1	1934.8	1944.3	1949.0	1944.3	1963.4	1987.3	1992.1
25°	1996.8	1987.3	1953.8	1949.0	1968.2	1982.5	1982.5	1972.9	1982.5	2006.3	2006.3
27.5°	2020.7	2016.0	1977.7	1977.7	2001.6	2030.2	2016.0	1996.8	2006.3	2030.2	2030.2
30°	2063.7	2058.9	2020.7	2020.7	2054.2	2087.6	2054.2	2030.2	2044.6	2068.5	2073.3
32.5°	2125.7	2125.7	2092.4	2082.8	2140.2	2154.5	2140.2	2092.4	2101.9	2135.4	2135.4
35°	2230.8	2221.3	2187.9	2183.1	2240.5	2235.7	2230.8	2187.9	2197.4	2235.7	2235.7
37.5°	2369.4	2364.7	2336.0	2321.6	2350.2	2331.3	2340.8	2321.6	2345.6	2374.2	2379.0
40°	2546.2	2541.4	2517.6	2498.4	2507.9	2479.3	2488.8	2498.4	2522.2	2541.4	2546.2
42.5°	2765.9	2765.9	2742.1	2708.6	2694.3	2679.9	2679.9	2699.0	2723.0	2746.8	2746.8
45°	3038.2	3038.2	3009.5	2976.1	2933.2	2909.2	2918.8	2937.9	2966.6	2995.3	3004.7
47.5°	3358.3	3358.3	3320.1	3286.6	3243.6	3215.0	3215.0	3224.6	3267.5	3291.4	3305.7
50°	3716.6	3702.2	3664.0	3630.5	3606.6	3568.5	3573.3	3568.5	3606.6	3640.1	3649.7
52.5°	4089.1	4084.4	4046.2	4036.6	4051.0	4031.8	4031.8	3984.0	3998.5	4017.6	4012.8
55°	4552.5	4538.2	4504.8	4523.9	4581.2	4609.8	4600.4	4523.9	4480.9	4490.4	4485.6
57.5°	5058.9	5044.6	5035.0	5092.3	5221.4	5340.8	5316.9	5140.1	5058.9	5063.7	5068.4
60°	5574.9	5574.9	5603.5	5746.8	6023.9	6219.8	6148.1	5851.9	5708.6	5680.0	5670.3
62.5°	6105.1	6119.4	6181.6	6420.4	6845.5	7170.3	6988.9	6568.4	6353.5	6296.2	6277.1
65°	6721.3	6735.8	6826.4	7122.6	7686.3	8073.2	7762.8	7366.3	7065.2	6945.8	6926.7
67.5°	7614.6	7624.2	7695.9	7982.5	8512.7	8823.2	8503.2	8149.6	7824.8	7686.3	7676.8
70°	8417.3	8426.7	8488.9	8866.3	9353.4	9463.4	9109.9	8660.9	8321.6	8211.8	8192.7
72.5°	8235.6	8269.1	8474.5	9062.1	9812.1	9955.3	9210.2	8536.7	7992.1	7810.5	7753.1
75°	6907.7	6960.3	7285.1	8168.8	9363.1	9769.1	8617.9	7380.6	6568.4	6219.8	6129.0
77.5°	4031.8	4227.7	4786.6	5918.8	7624.2	8450.6	7098.7	5402.9	4036.6	3463.4	3272.4
80°	1103.5	1208.6	1614.7	2723.0	4781.8	5918.8	4528.7	2479.3	1337.6	1003.2	931.6
82.5°	348.7	463.4	587.6	783.4	1877.4	3119.5	1681.5	731.0	573.3	473.0	420.4
85°	186.3	200.6	329.6	382.2	563.7	874.2	520.7	382.2	343.9	253.2	238.8
87.5°	95.5	100.3	186.3	186.3	248.4	205.4	224.5	205.4	195.9	124.2	110.0
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)