

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: P236752

Luminaire Tested: **ARCH-L-AF72-190-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236752
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-AF72-190-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24014 lumens
Efficiency: N/A
Efficacy: 127.1 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

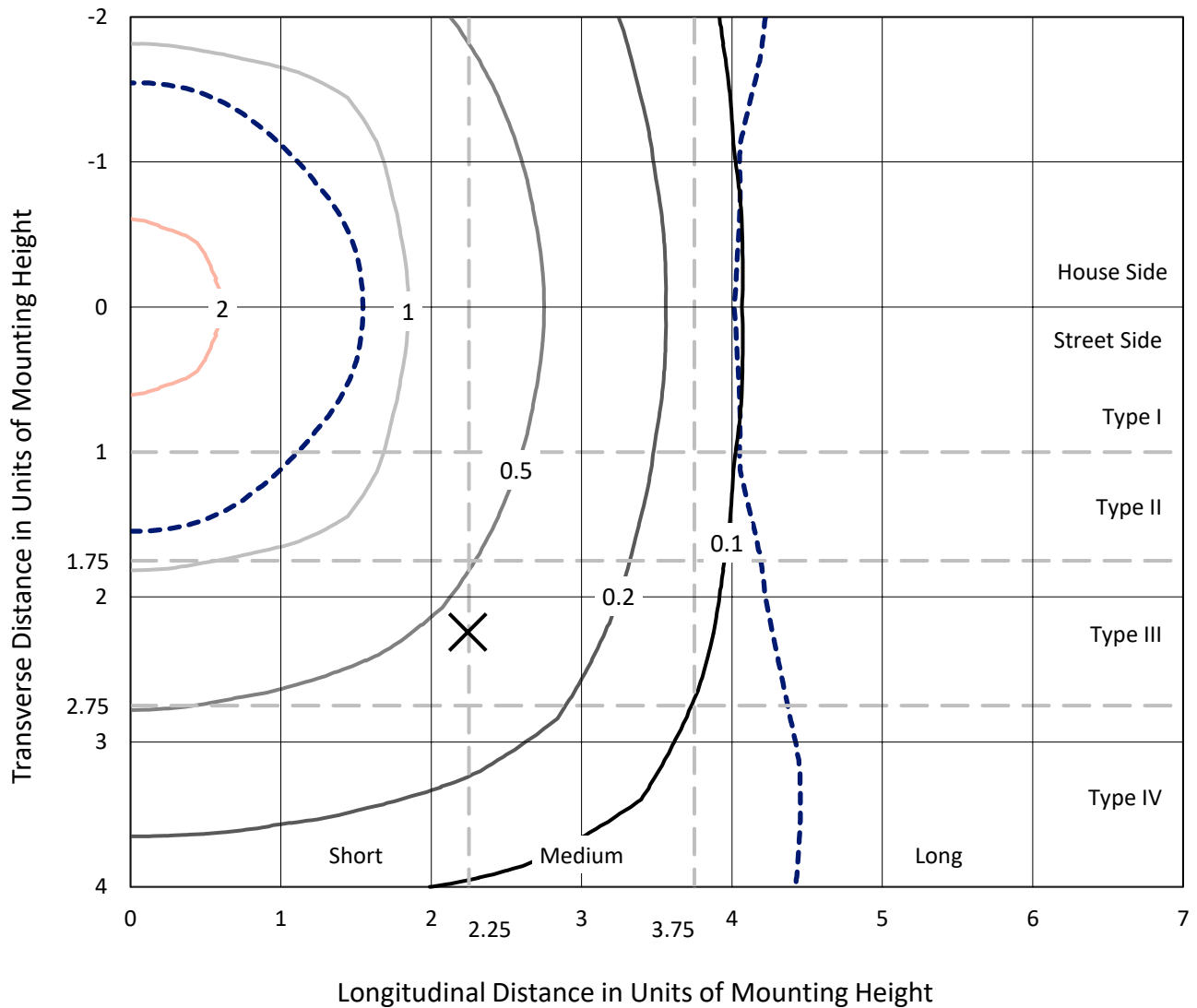
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

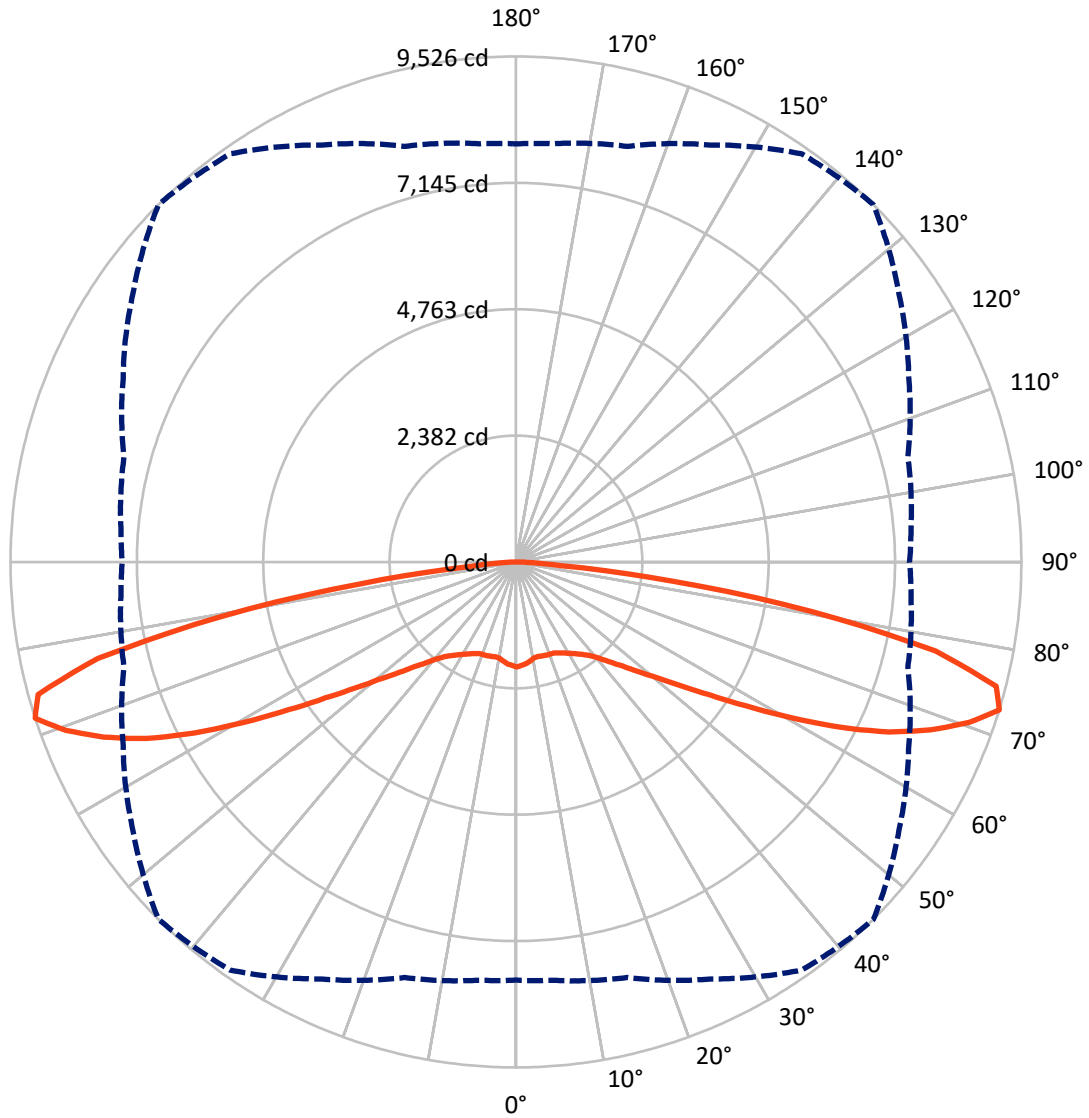
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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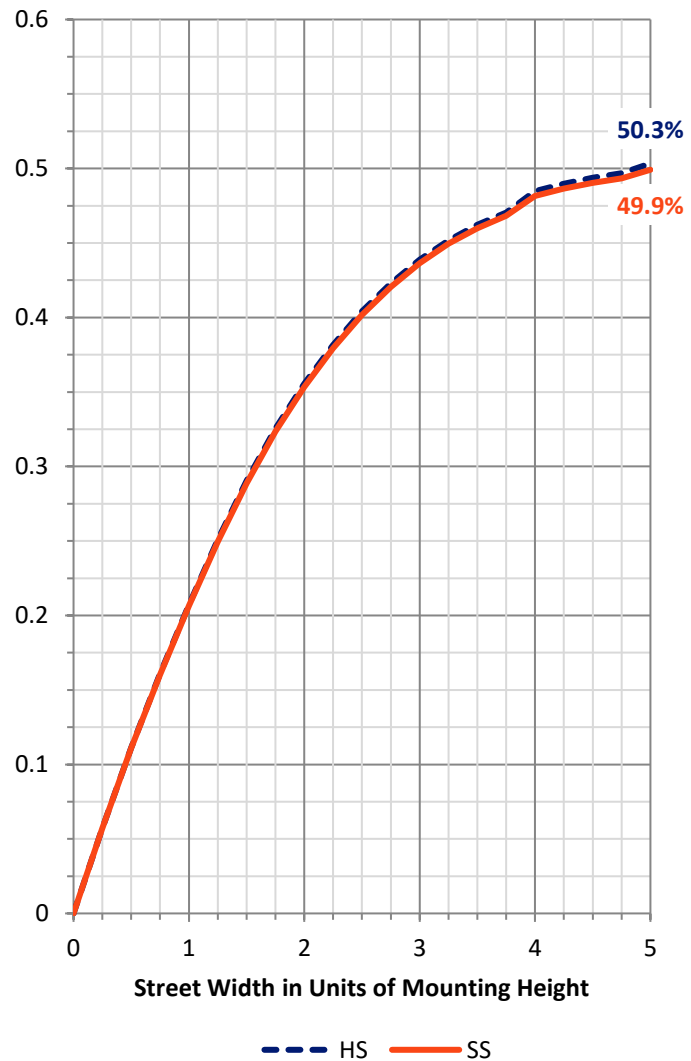
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12007.0	0.0	12007.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12007.0	0.0	12007.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24014.0	0.0	24014.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	0.8
10°-20°	525.5	2.2
20°-30°	879.3	3.7
30°-40°	1351.1	5.6
40°-50°	2237.1	9.3
50°-60°	3977.2	16.6
60°-70°	6958.0	29.0
70°-80°	7079.2	29.5
80°-90°	824.3	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°	24014.0	100.0
0°-180°	24014.0	100.0



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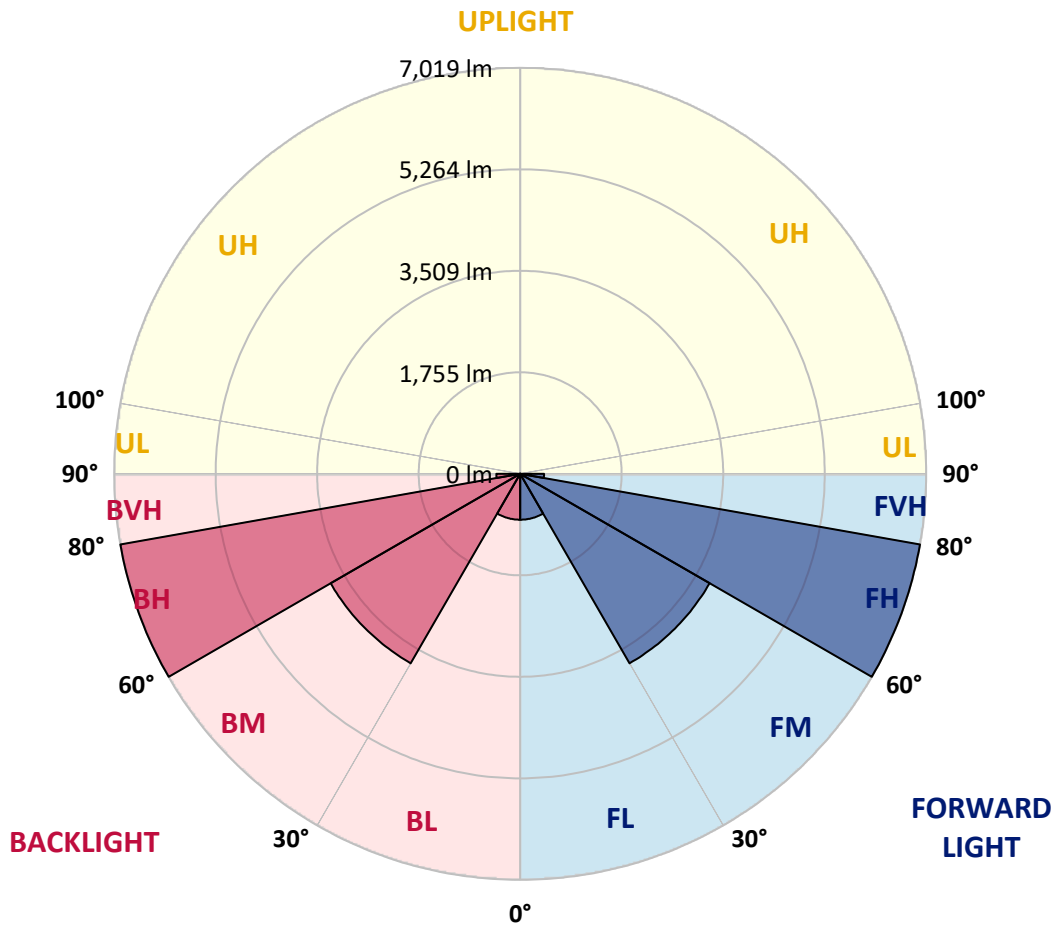
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	793.5	3.3			
FM (30°-60°)	3782.7	15.8			
FH (60°-80°)	7018.6	29.2			G3/7500
FVH (80°-90°)	412.2	1.7			G3/500
BL (0°-30°)	793.5	3.3	B2/1000		
BM (30°-60°)	3782.7	15.8	B3/5000		
BH (60°-80°)	7018.6	29.2	B5		G3/7500
BVH (80°-90°)	412.2	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°	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3	1979.3
2.5°	1961.0	1965.6	1956.5	1956.5	1956.5	1951.9	1956.5	1951.9	1956.5	1961.0	1961.0
5°	1942.7	1942.7	1933.6	1933.6	1933.6	1929.0	1933.6	1933.6	1938.2	1942.7	1942.7
7.5°	1901.6	1901.6	1897.0	1892.5	1887.9	1887.9	1892.5	1892.5	1897.0	1901.6	1901.6
10°	1878.7	1874.2	1865.0	1851.3	1846.7	1842.2	1851.3	1860.5	1874.2	1887.9	1883.3
12.5°	1869.6	1865.0	1846.7	1833.0	1823.9	1828.5	1837.6	1846.7	1869.6	1883.3	1878.7
15°	1878.7	1869.6	1846.7	1823.9	1828.5	1837.6	1846.7	1846.7	1874.2	1887.9	1887.9
17.5°	1878.7	1874.2	1846.7	1828.5	1833.0	1837.6	1851.3	1846.7	1869.6	1892.5	1892.5
20°	1883.3	1883.3	1846.7	1833.0	1837.6	1851.3	1855.9	1851.3	1869.6	1897.0	1897.0
22.5°	1892.5	1887.9	1851.3	1842.2	1851.3	1860.5	1865.0	1860.5	1878.7	1901.6	1906.2
25°	1910.7	1901.6	1869.6	1865.0	1883.3	1897.0	1897.0	1887.9	1897.0	1919.9	1919.9
27.5°	1933.6	1929.0	1892.5	1892.5	1915.3	1942.7	1929.0	1910.7	1919.9	1942.7	1942.7
30°	1974.7	1970.2	1933.6	1933.6	1965.6	1997.6	1965.6	1942.7	1956.5	1979.3	1983.9
32.5°	2034.2	2034.2	2002.2	1993.0	2047.9	2061.6	2047.9	2002.2	2011.3	2043.3	2043.3
35°	2134.7	2125.6	2093.6	2089.0	2143.9	2139.3	2134.7	2093.6	2102.7	2139.3	2139.3
37.5°	2267.3	2262.7	2235.3	2221.6	2249.0	2230.7	2239.9	2221.6	2244.4	2271.9	2276.4
40°	2436.4	2431.9	2409.0	2390.7	2399.9	2372.4	2381.6	2390.7	2413.6	2431.9	2436.4
42.5°	2646.7	2646.7	2623.8	2591.8	2578.1	2564.4	2564.4	2582.7	2605.6	2628.4	2628.4
45°	2907.3	2907.3	2879.8	2847.8	2806.7	2783.8	2793.0	2811.3	2838.7	2866.1	2875.3
47.5°	3213.5	3213.5	3177.0	3145.0	3103.8	3076.4	3076.4	3085.5	3126.7	3149.5	3163.2
50°	3556.4	3542.6	3506.1	3474.1	3451.2	3414.7	3419.2	3414.7	3451.2	3483.2	3492.4
52.5°	3912.9	3908.3	3871.8	3862.6	3876.3	3858.1	3858.1	3812.3	3826.1	3844.3	3839.8
55°	4356.3	4342.6	4310.6	4328.9	4383.7	4411.2	4402.0	4328.9	4287.7	4296.9	4292.3
57.5°	4840.9	4827.1	4818.0	4872.9	4996.3	5110.6	5087.7	4918.6	4840.9	4845.4	4850.0
60°	5334.5	5334.5	5362.0	5499.1	5764.2	5951.6	5883.1	5599.7	5462.5	5435.1	5426.0
62.5°	5841.9	5855.7	5915.1	6143.6	6550.5	6861.3	6687.6	6285.3	6079.6	6024.8	6006.5
65°	6431.6	6445.3	6532.2	6815.6	7355.0	7725.3	7428.1	7048.7	6760.7	6646.5	6628.2
67.5°	7286.4	7295.6	7364.1	7638.4	8145.8	8442.9	8136.7	7798.4	7487.6	7355.0	7345.9
70°	8054.4	8063.5	8122.9	8484.1	8950.3	9055.5	8717.2	8287.5	7963.0	7857.8	7839.5
72.5°	7880.7	7912.7	8109.2	8671.5	9389.2	9526.3	8813.2	8168.7	7647.5	7473.8	7419.0
75°	6609.9	6660.2	6971.0	7816.7	8959.5	9348.0	8246.4	7062.4	6285.3	5951.6	5864.8
77.5°	3858.1	4045.5	4580.3	5663.7	7295.6	8086.4	6792.7	5170.0	3862.6	3314.1	3131.2
80°	1055.9	1156.5	1545.1	2605.6	4575.7	5663.7	4333.5	2372.4	1279.9	959.9	891.4
82.5°	333.7	443.4	562.3	749.7	1796.5	2985.0	1609.0	699.4	548.5	452.5	402.3
85°	178.3	192.0	315.4	365.7	539.4	836.5	498.3	365.7	329.1	242.3	228.6
87.5°	91.4	96.0	178.3	178.3	237.7	196.6	214.8	196.6	187.4	118.9	105.1
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)