

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: P236712

Luminaire Tested: **ARCH-L-AF72-190-D-U-5WQ-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P236712
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-AF72-190-D-U-5WQ-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 23225.3 lumens
Efficiency: N/A
Efficacy: 122.9 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

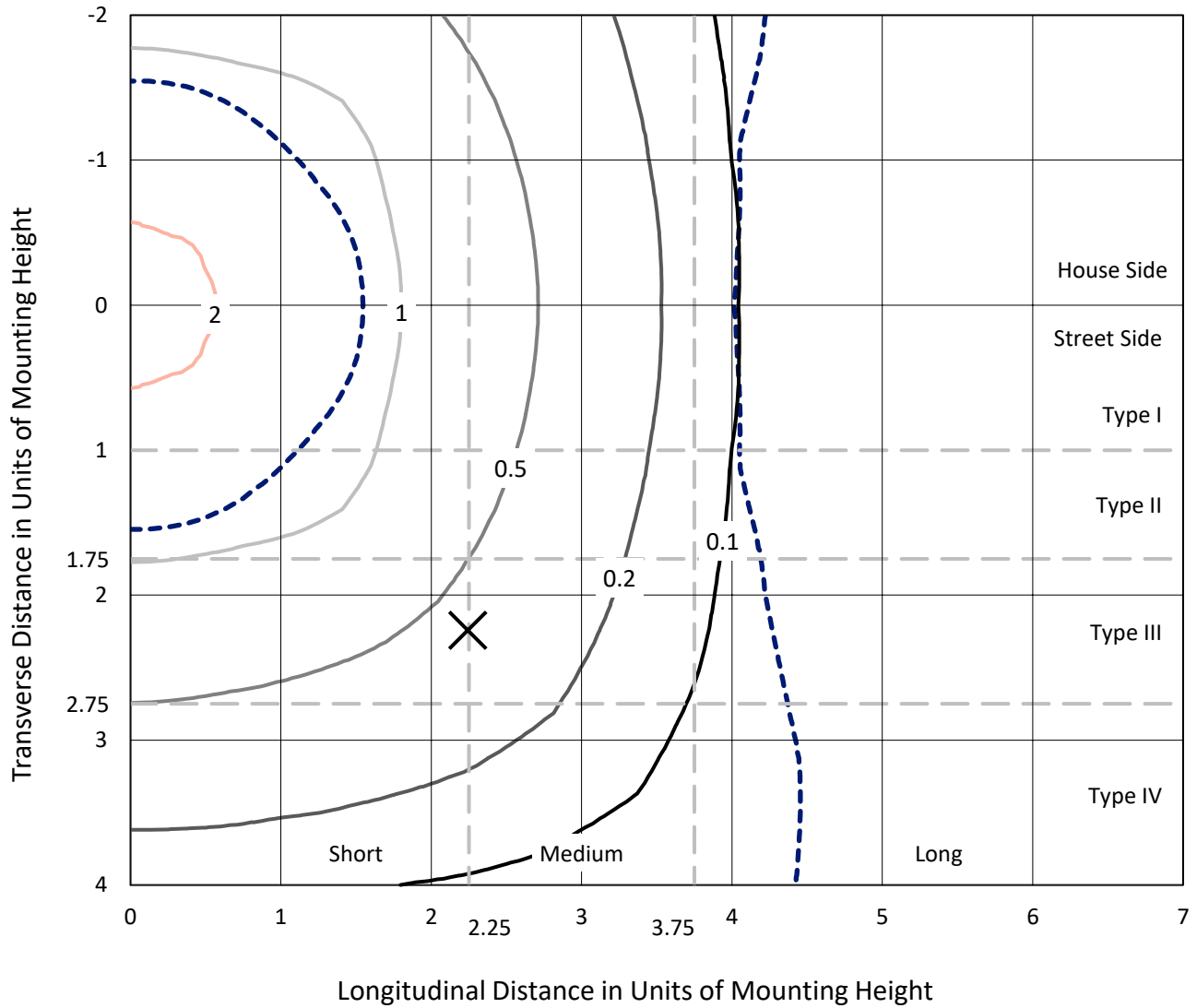
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

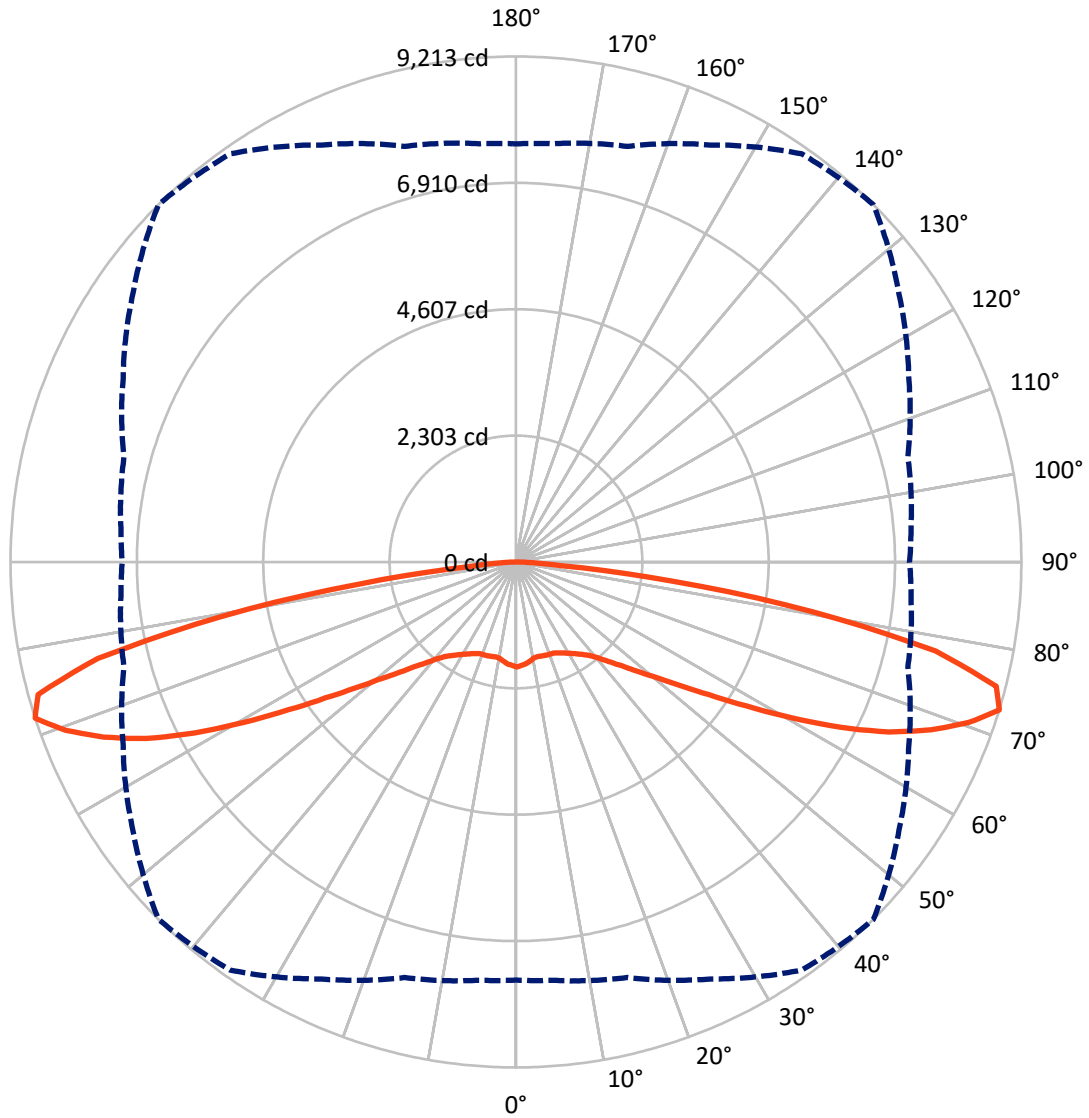
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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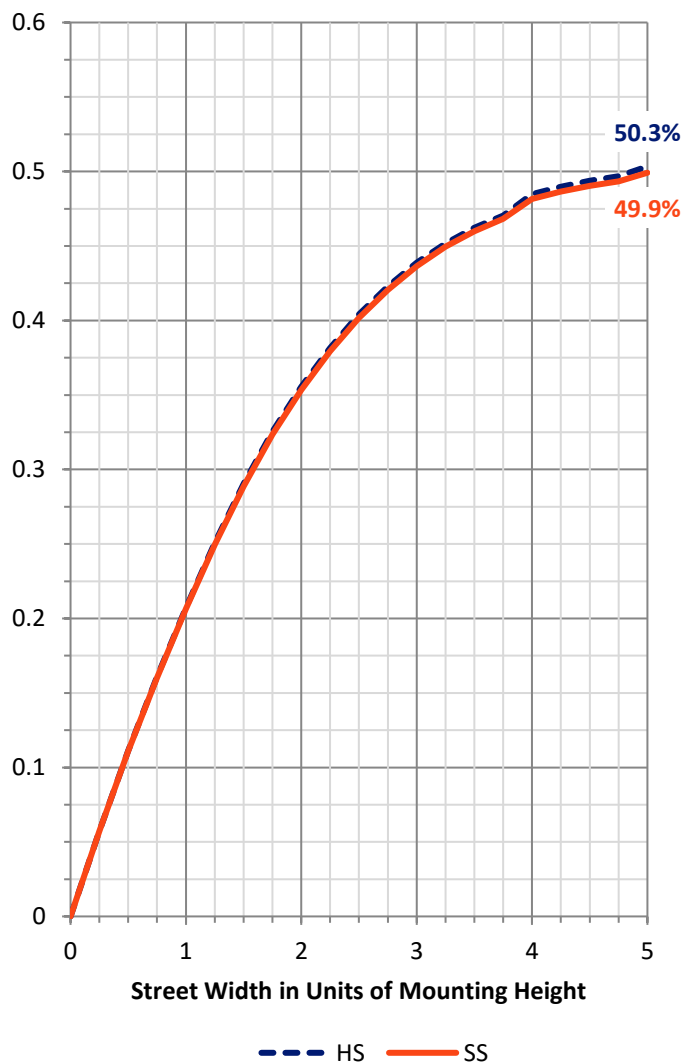
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11612.6	0.0	11612.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11612.6	0.0	11612.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	23225.3	0.0	23225.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	0.8
10°-20°	508.2	2.2
20°-30°	850.5	3.7
30°-40°	1306.8	5.6
40°-50°	2163.6	9.3
50°-60°	3846.6	16.6
60°-70°	6729.5	29.0
70°-80°	6846.7	29.5
80°-90°	797.3	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°	23225.3	100.0
0°-180°	23225.3	100.0

Coefficient of Utilization



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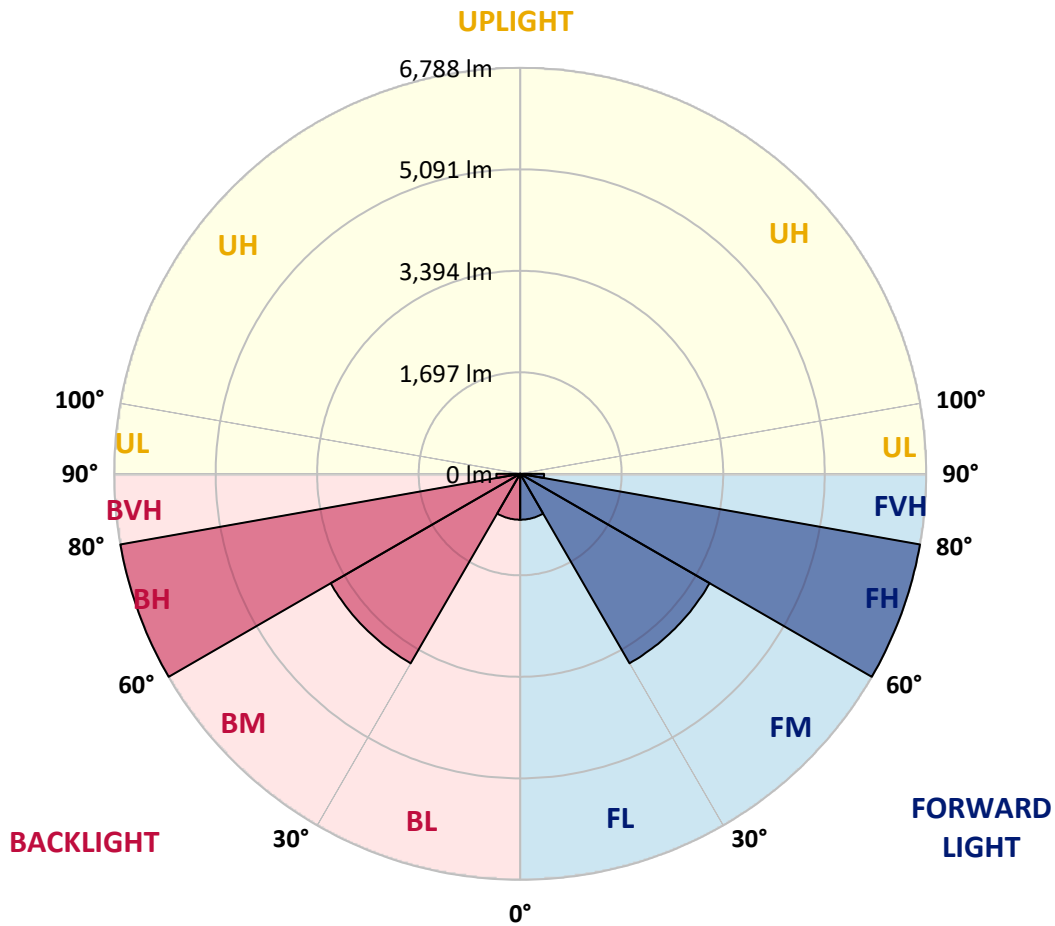
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	767.4	3.3			
FM (30°-60°)	3658.5	15.8			
FH (60°-80°)	6788.1	29.2			G3/7500
FVH (80°-90°)	398.6	1.7			G3/500
BL (0°-30°)	767.4	3.3	B2/1000		
BM (30°-60°)	3658.5	15.8	B3/5000		
BH (60°-80°)	6788.1	29.2	B5		G3/7500
BVH (80°-90°)	398.6	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°	1914.3	1914.3	1914.3	1914.3	1914.3	1914.3	1914.3	1914.3	1914.3	1914.3	1914.3
2.5°	1896.6	1901.0	1892.2	1892.2	1892.2	1887.8	1892.2	1887.8	1892.2	1896.6	1896.6
5°	1878.9	1878.9	1870.1	1870.1	1870.1	1865.7	1870.1	1870.1	1874.6	1878.9	1878.9
7.5°	1839.2	1839.2	1834.7	1830.3	1825.8	1825.8	1830.3	1830.3	1834.7	1839.2	1839.2
10°	1817.1	1812.6	1803.8	1790.5	1786.1	1781.7	1790.5	1799.4	1812.6	1825.8	1821.5
12.5°	1808.2	1803.8	1786.1	1772.8	1764.0	1768.4	1777.2	1786.1	1808.2	1821.5	1817.1
15°	1817.1	1808.2	1786.1	1764.0	1768.4	1777.2	1786.1	1786.1	1812.6	1825.8	1825.8
17.5°	1817.1	1812.6	1786.1	1768.4	1772.8	1786.1	1790.5	1786.1	1808.2	1830.3	1830.3
20°	1821.5	1821.5	1786.1	1772.8	1777.2	1790.5	1794.9	1790.5	1808.2	1834.7	1834.7
22.5°	1830.3	1825.8	1790.5	1781.7	1790.5	1799.4	1803.8	1799.4	1817.1	1839.2	1843.5
25°	1848.0	1839.2	1808.2	1803.8	1821.5	1834.7	1834.7	1825.8	1834.7	1856.9	1856.9
27.5°	1870.1	1865.7	1830.3	1830.3	1852.4	1878.9	1865.7	1848.0	1856.9	1878.9	1878.9
30°	1909.9	1905.5	1870.1	1870.1	1901.0	1932.0	1901.0	1878.9	1892.2	1914.3	1918.7
32.5°	1967.3	1967.3	1936.4	1927.6	1980.7	1993.9	1980.7	1936.4	1945.3	1976.2	1976.2
35°	2064.6	2055.8	2024.8	2020.4	2073.4	2069.1	2064.6	2024.8	2033.7	2069.1	2069.1
37.5°	2192.9	2188.4	2161.9	2148.6	2175.2	2157.5	2166.3	2148.6	2170.8	2197.2	2201.7
40°	2356.4	2352.1	2329.9	2312.2	2321.0	2294.6	2303.3	2312.2	2334.4	2352.1	2356.4
42.5°	2559.7	2559.7	2537.6	2506.7	2493.4	2480.1	2480.1	2497.8	2519.9	2542.1	2542.1
45°	2811.8	2811.8	2785.2	2754.3	2714.5	2692.3	2701.2	2718.9	2745.4	2772.0	2780.8
47.5°	3108.0	3108.0	3072.6	3041.7	3001.9	2975.3	2975.3	2984.2	3024.0	3046.0	3059.4
50°	3439.6	3426.3	3391.0	3359.9	3337.9	3302.5	3307.0	3302.5	3337.9	3368.8	3377.6
52.5°	3784.4	3780.0	3744.7	3735.8	3749.0	3731.3	3731.3	3687.2	3700.4	3718.1	3713.6
55°	4213.2	4199.9	4169.0	4186.7	4239.8	4266.2	4257.4	4186.7	4146.9	4155.7	4151.3
57.5°	4681.9	4668.5	4659.8	4712.8	4832.2	4942.7	4920.6	4757.0	4681.9	4686.2	4690.7
60°	5159.3	5159.3	5185.9	5318.5	5575.0	5756.3	5689.9	5415.8	5283.1	5256.6	5247.7
62.5°	5650.1	5663.4	5720.9	5941.8	6335.3	6636.0	6467.9	6078.8	5879.9	5826.9	5809.2
65°	6220.3	6233.7	6317.6	6591.7	7113.5	7471.4	7184.2	6817.2	6538.7	6428.2	6410.5
67.5°	7047.1	7056.0	7122.3	7387.6	7878.2	8165.6	7869.4	7542.2	7241.6	7113.5	7104.6
70°	7789.8	7798.7	7856.2	8205.4	8656.4	8758.0	8430.9	8015.3	7701.3	7599.7	7582.0
72.5°	7621.8	7652.7	7842.8	8386.6	9080.7	9213.4	8523.8	7900.3	7396.3	7228.4	7175.3
75°	6392.8	6441.4	6742.1	7559.9	8665.3	9040.9	7975.5	6830.5	6078.8	5756.3	5672.2
77.5°	3731.3	3912.6	4429.8	5477.6	7056.0	7820.8	6569.6	5000.1	3735.8	3205.2	3028.4
80°	1021.2	1118.5	1494.3	2519.9	4425.4	5477.6	4191.0	2294.6	1237.9	928.3	862.0
82.5°	322.8	428.9	543.8	725.1	1737.4	2886.9	1556.2	676.5	530.6	437.7	389.1
85°	172.4	185.6	305.1	353.7	521.7	809.1	482.0	353.7	318.3	234.4	221.0
87.5°	88.4	92.9	172.4	172.4	229.9	190.1	207.8	190.1	181.3	114.9	101.7
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)