

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: P236751

Luminaire Tested: **ARCH-L-AF72-180-D-U-5WQ-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P236751
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-AF72-180-D-U-5WQ-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23205 lumens
Efficiency: N/A
Efficacy: 128.2 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

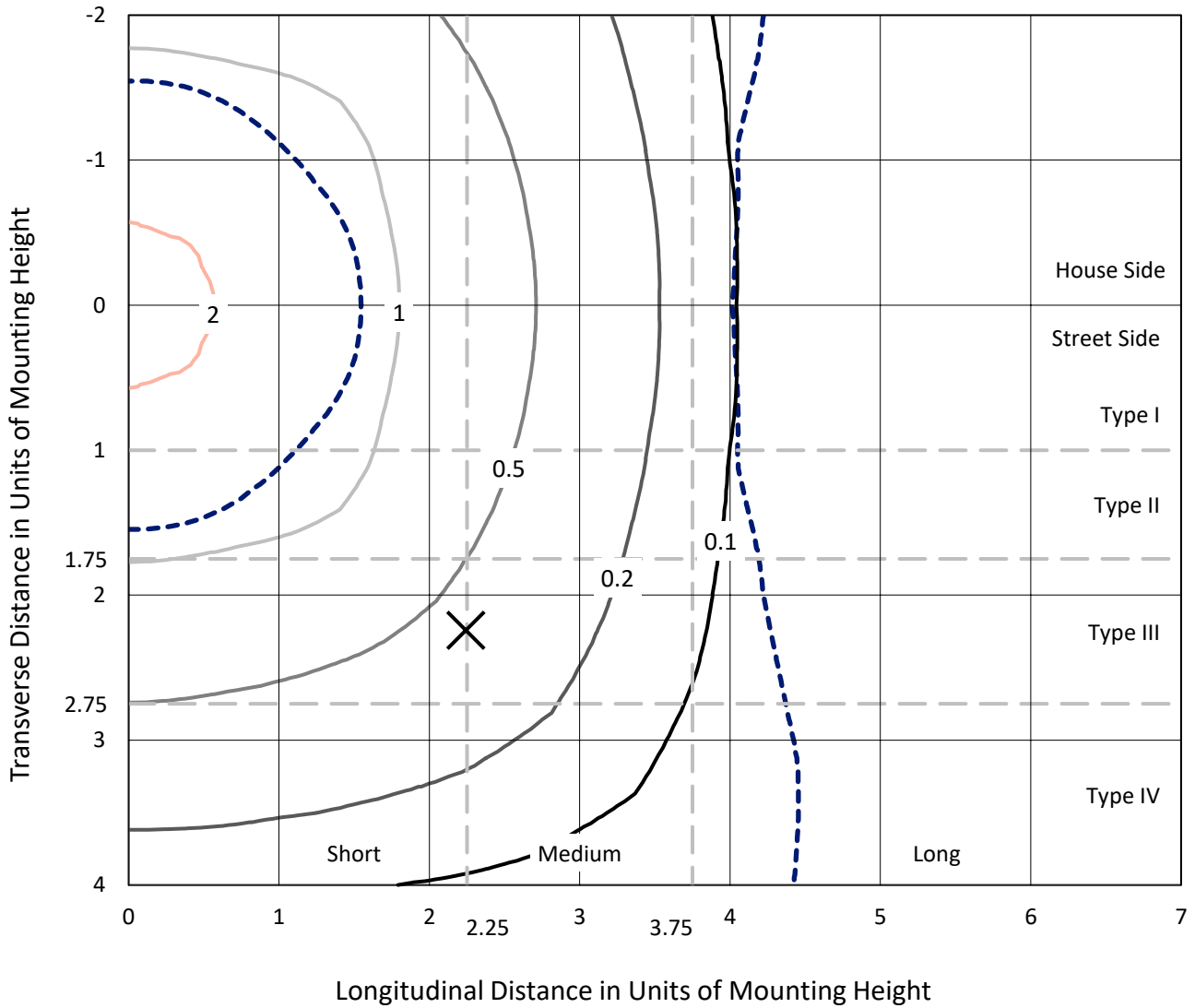
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

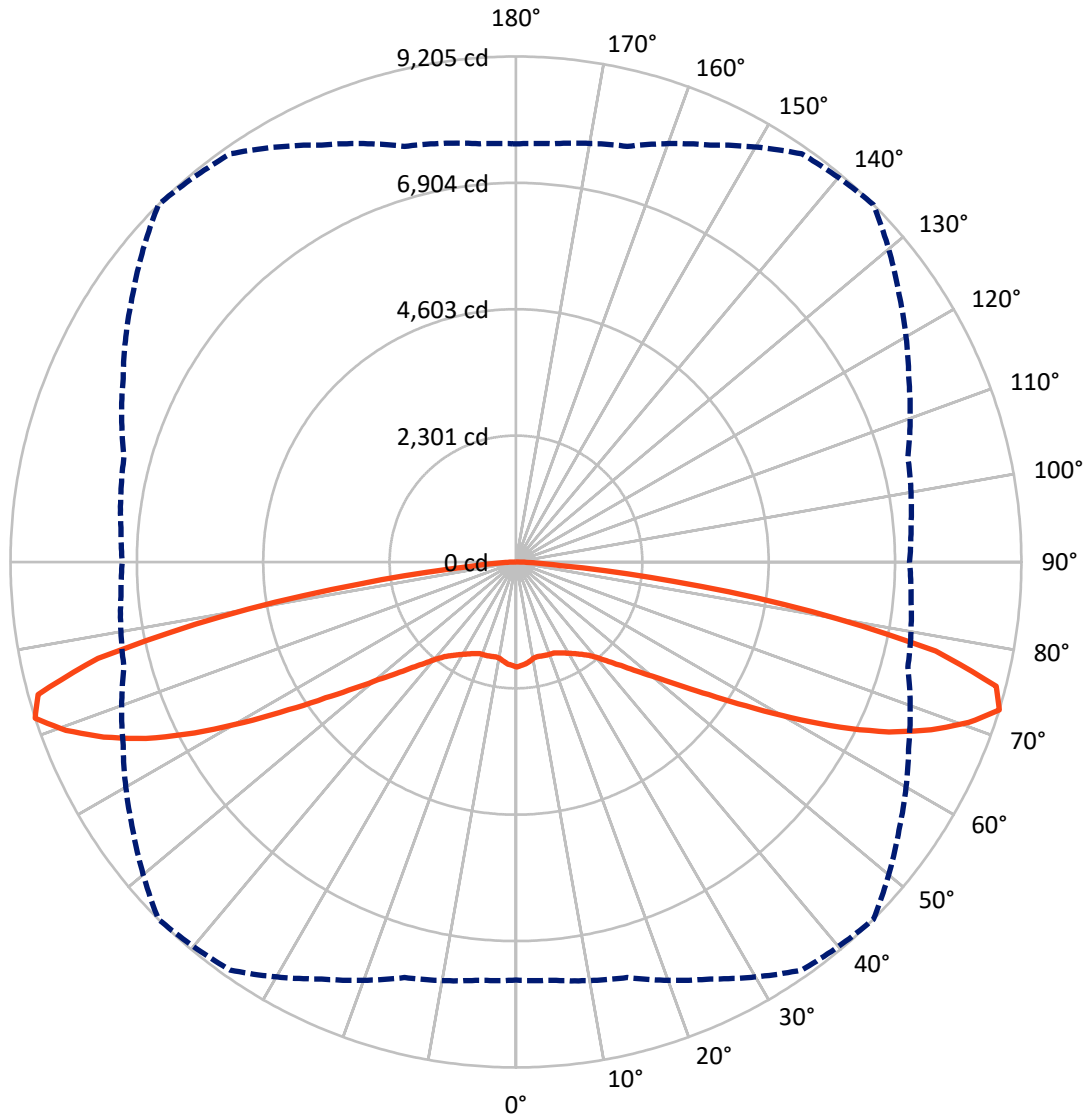
✕ Max cd
 - - - 1/2 Max cd



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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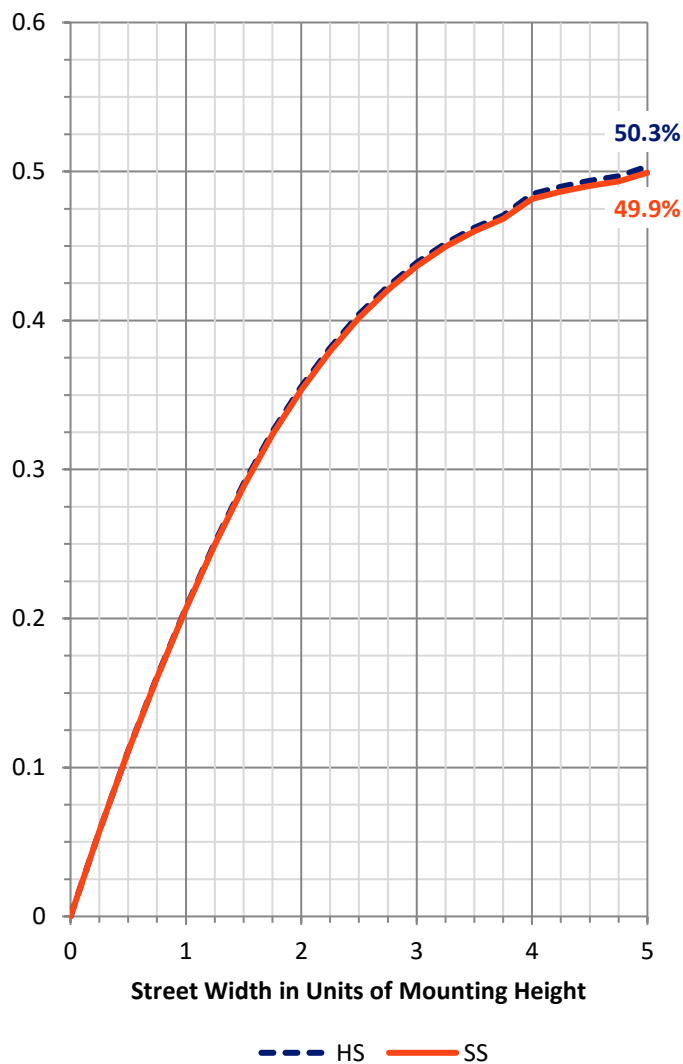
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11602.5	0.0	11602.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11602.5	0.0	11602.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23205.0	0.0	23205.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.0	0.8
10°-20°	507.8	2.2
20°-30°	849.7	3.7
30°-40°	1305.6	5.6
40°-50°	2161.8	9.3
50°-60°	3843.2	16.6
60°-70°	6723.6	29.0
70°-80°	6840.7	29.5
80°-90°	796.6	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°	23205.0	100.0
0°-180°	23205.0	100.0

Coefficient of Utilization



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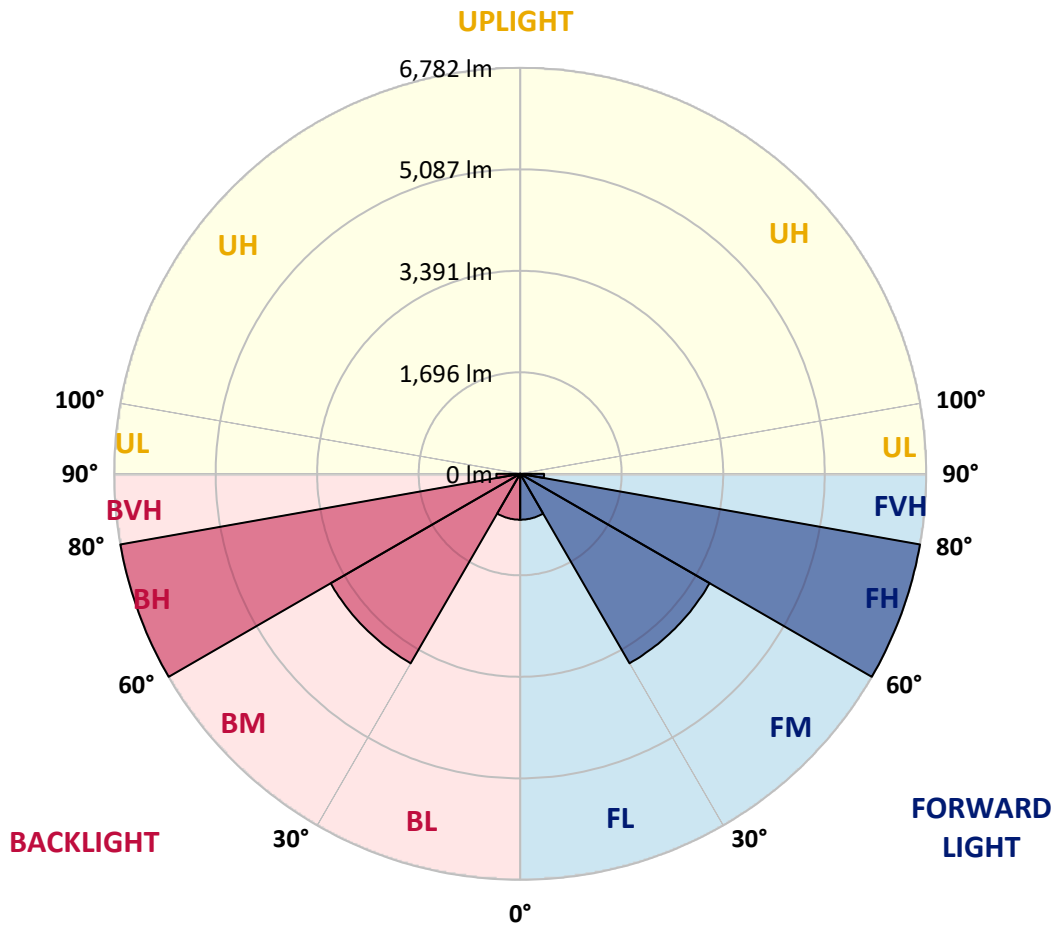
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.7	3.3			
FM (30°-60°)	3655.3	15.8			
FH (60°-80°)	6782.2	29.2			G3/7500
FVH (80°-90°)	398.3	1.7			G3/500
BL (0°-30°)	766.7	3.3	B2/1000		
BM (30°-60°)	3655.3	15.8	B3/5000		
BH (60°-80°)	6782.2	29.2	B5		G3/7500
BVH (80°-90°)	398.3	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°	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6	1912.6
2.5°	1895.0	1899.4	1890.5	1890.5	1890.5	1886.1	1890.5	1886.1	1890.5	1895.0	1895.0
5°	1877.3	1877.3	1868.5	1868.5	1868.5	1864.0	1868.5	1868.5	1872.9	1877.3	1877.3
7.5°	1837.5	1837.5	1833.1	1828.7	1824.3	1824.3	1828.7	1828.7	1833.1	1837.5	1837.5
10°	1815.5	1811.0	1802.2	1789.0	1784.5	1780.1	1789.0	1797.8	1811.0	1824.3	1819.9
12.5°	1806.6	1802.2	1784.5	1771.3	1762.4	1766.9	1775.7	1784.5	1806.6	1819.9	1815.5
15°	1815.5	1806.6	1784.5	1762.4	1766.9	1775.7	1784.5	1784.5	1811.0	1824.3	1824.3
17.5°	1815.5	1811.0	1784.5	1766.9	1771.3	1784.5	1789.0	1784.5	1806.6	1828.7	1828.7
20°	1819.9	1819.9	1784.5	1771.3	1775.7	1789.0	1793.4	1789.0	1806.6	1833.1	1833.1
22.5°	1828.7	1824.3	1789.0	1780.1	1789.0	1797.8	1802.2	1797.8	1815.5	1837.5	1842.0
25°	1846.4	1837.5	1806.6	1802.2	1819.9	1833.1	1833.1	1824.3	1833.1	1855.2	1855.2
27.5°	1868.5	1864.0	1828.7	1828.7	1850.8	1877.3	1864.0	1846.4	1855.2	1877.3	1877.3
30°	1908.2	1903.8	1868.5	1868.5	1899.4	1930.3	1899.4	1877.3	1890.5	1912.6	1917.0
32.5°	1965.6	1965.6	1934.7	1925.9	1978.9	1992.1	1978.9	1934.7	1943.6	1974.5	1974.5
35°	2062.8	2054.0	2023.1	2018.6	2071.6	2067.2	2062.8	2023.1	2031.9	2067.2	2067.2
37.5°	2190.9	2186.5	2160.0	2146.7	2173.2	2155.6	2164.4	2146.7	2168.8	2195.3	2199.7
40°	2354.3	2349.9	2327.8	2310.2	2319.0	2292.5	2301.3	2310.2	2332.3	2349.9	2354.3
42.5°	2557.5	2557.5	2535.5	2504.5	2491.3	2478.0	2478.0	2495.7	2517.8	2539.9	2539.9
45°	2809.3	2809.3	2782.8	2751.9	2712.1	2690.1	2698.9	2716.6	2743.1	2769.6	2778.4
47.5°	3105.3	3105.3	3069.9	3039.0	2999.3	2972.8	2972.8	2981.6	3021.3	3043.4	3056.7
50°	3436.6	3423.3	3388.0	3357.0	3335.0	3299.6	3304.0	3299.6	3335.0	3365.9	3374.7
52.5°	3781.1	3776.7	3741.3	3732.5	3745.8	3728.1	3728.1	3683.9	3697.2	3714.8	3710.4
55°	4209.6	4196.3	4165.4	4183.1	4236.1	4262.6	4253.7	4183.1	4143.3	4152.1	4147.7
57.5°	4677.8	4664.5	4655.7	4708.7	4828.0	4938.4	4916.3	4752.9	4677.8	4682.2	4686.6
60°	5154.8	5154.8	5181.3	5313.8	5570.0	5751.1	5684.9	5411.0	5278.5	5252.0	5243.2
62.5°	5645.1	5658.4	5715.8	5936.7	6329.8	6630.2	6462.3	6073.6	5874.8	5821.8	5804.2
65°	6214.9	6228.2	6312.1	6586.0	7107.2	7465.0	7177.9	6811.3	6533.0	6422.6	6404.9
67.5°	7041.0	7049.8	7116.0	7381.1	7871.4	8158.5	7862.5	7535.7	7235.3	7107.2	7098.4
70°	7783.0	7791.9	7849.3	8198.3	8648.8	8750.4	8423.5	8008.3	7694.7	7593.1	7575.4
72.5°	7615.2	7646.1	7836.0	8379.4	9072.9	9205.4	8516.3	7893.5	7389.9	7222.1	7169.1
75°	6387.2	6435.8	6736.2	7553.3	8657.6	9033.1	7968.6	6824.5	6073.6	5751.1	5667.2
77.5°	3728.1	3909.2	4426.0	5472.9	7049.8	7814.0	6563.9	4995.8	3732.5	3202.4	3025.8
80°	1020.4	1117.5	1493.0	2517.8	4421.6	5472.9	4187.5	2292.5	1236.8	927.6	861.3
82.5°	322.5	428.5	543.3	724.4	1735.9	2884.4	1554.8	675.8	530.1	437.3	388.7
85°	172.3	185.5	304.8	353.4	521.2	808.3	481.5	353.4	318.0	234.1	220.9
87.5°	88.3	92.8	172.3	172.3	229.7	189.9	207.6	189.9	181.1	114.8	101.6
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)