

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: P236750

Luminaire Tested: **ARCH-L-AF72-170-D-U-5WQ-7050**

Issue Date: 2/14/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P236750  
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-AF72-170-D-U-5WQ-7050  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22663 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

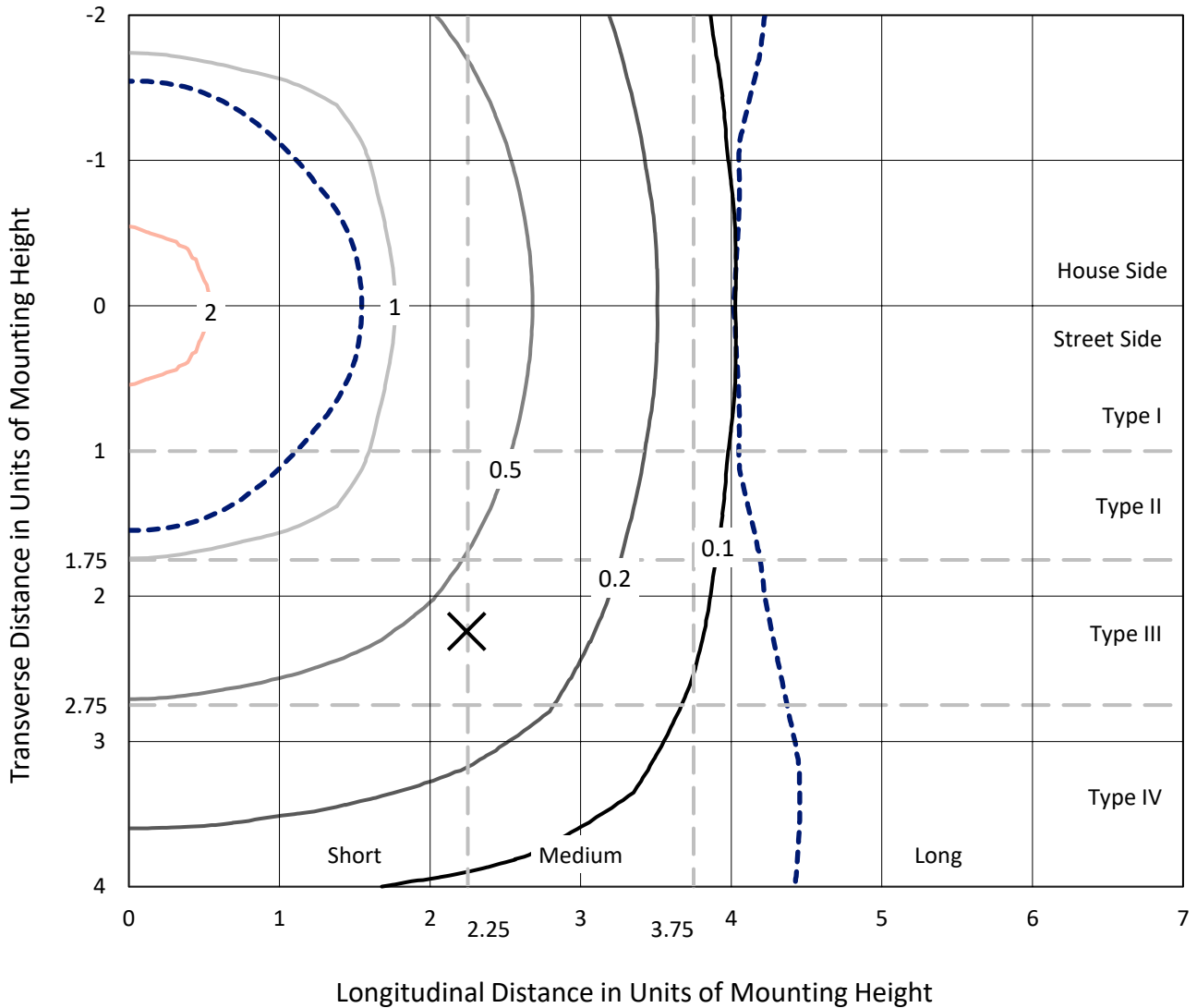
Input Watts (W): 173  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

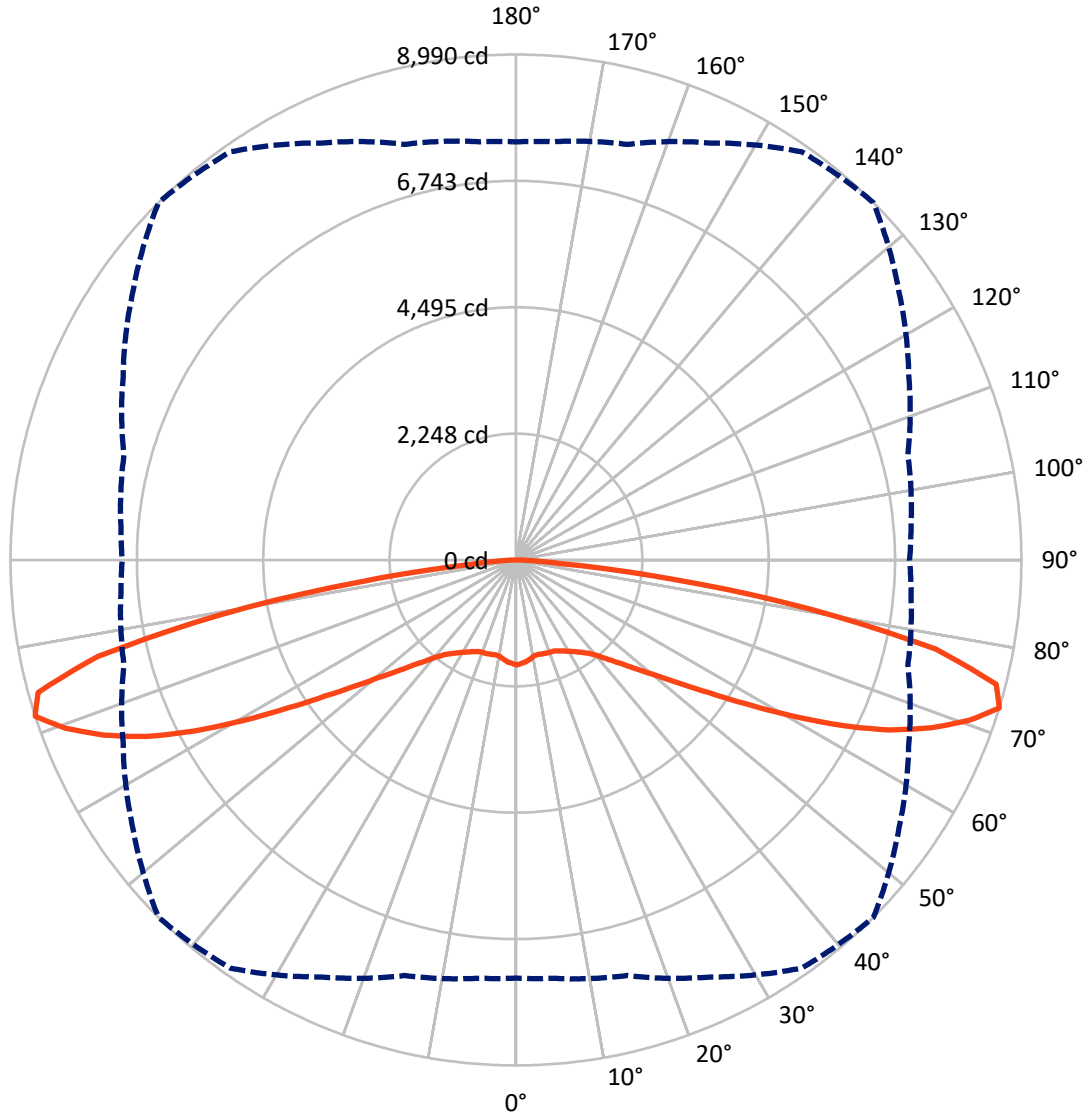
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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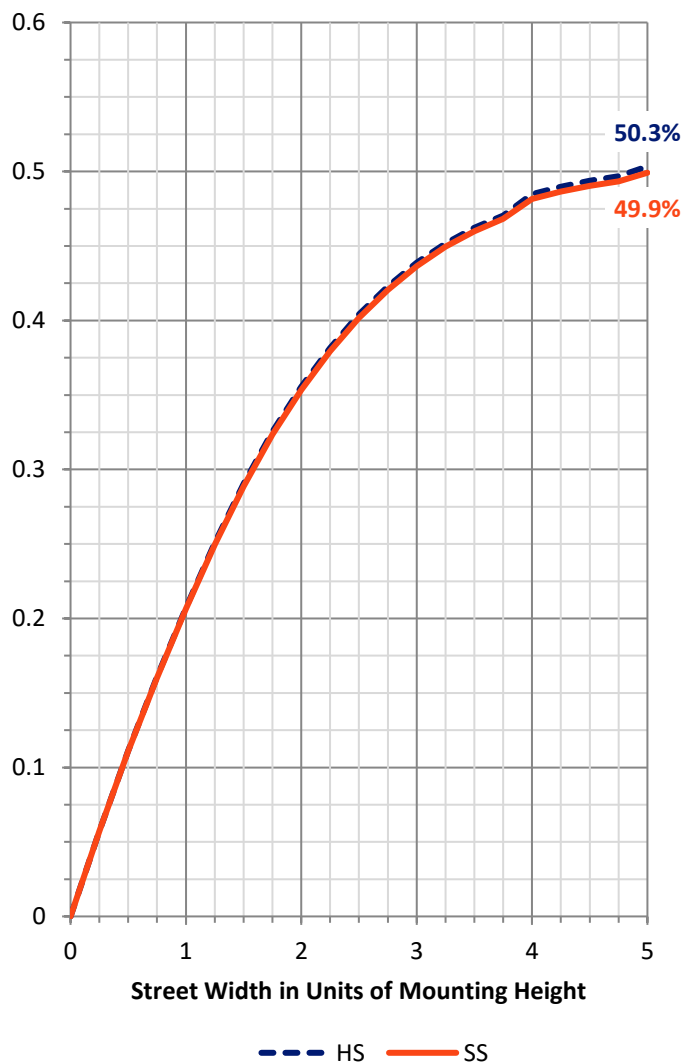
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11331.5	0.0	11331.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11331.5	0.0	11331.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22663.0	0.0	22663.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.9	0.8
10°-20°	495.9	2.2
20°-30°	829.9	3.7
30°-40°	1275.1	5.6
40°-50°	2111.3	9.3
50°-60°	3753.4	16.6
60°-70°	6566.6	29.0
70°-80°	6680.9	29.5
80°-90°	778.0	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°	22663.0	100.0
0°-180°	22663.0	100.0

**Coefficient of Utilization**



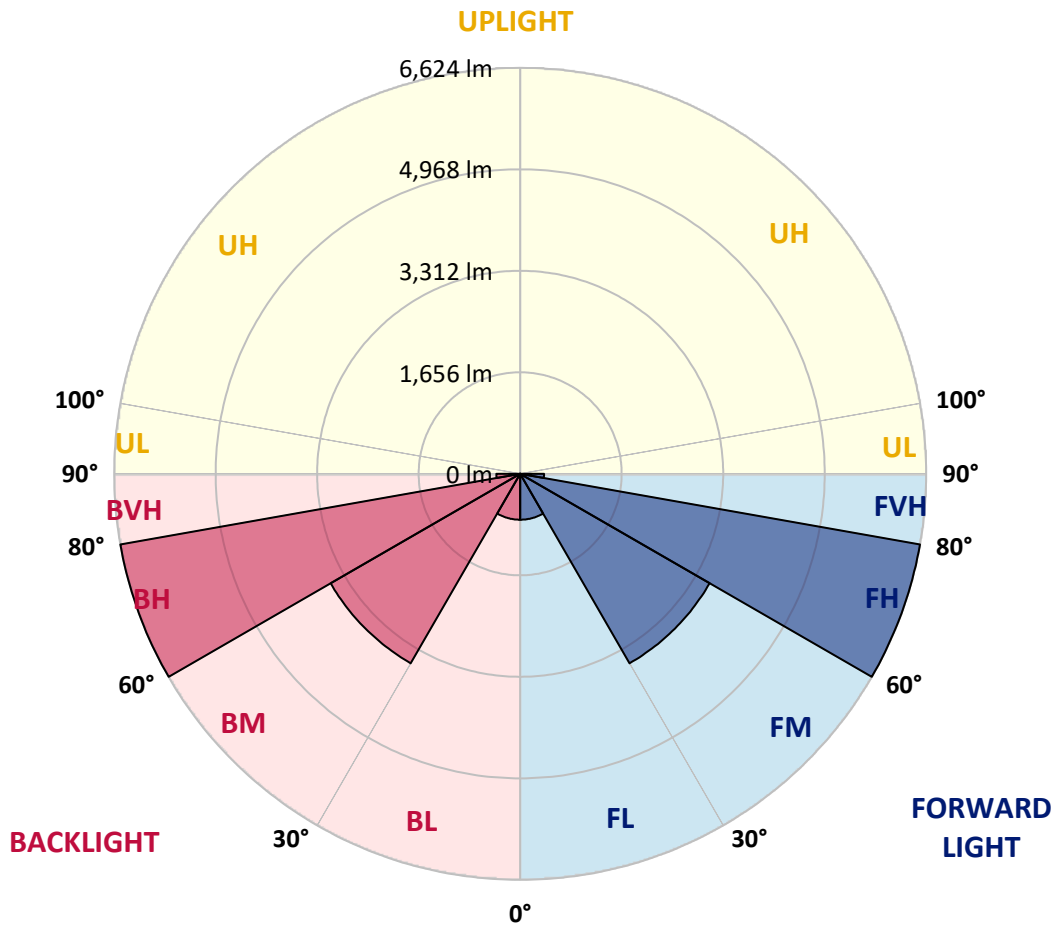
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	748.8	3.3			
FM (30°-60°)	3569.9	15.8			
FH (60°-80°)	6623.8	29.2			G3/7500
FVH (80°-90°)	389.0	1.7			G3/500
BL (0°-30°)	748.8	3.3	B2/1000		
BM (30°-60°)	3569.9	15.8	B3/5000		
BH (60°-80°)	6623.8	29.2	B5		G3/7500
BVH (80°-90°)	389.0	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°	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0	1868.0
2.5°	1850.7	1855.0	1846.4	1846.4	1846.4	1842.1	1846.4	1842.1	1846.4	1850.7	1850.7
5°	1833.4	1833.4	1824.8	1824.8	1824.8	1820.5	1824.8	1824.8	1829.1	1833.4	1833.4
7.5°	1794.6	1794.6	1790.3	1786.0	1781.7	1781.7	1786.0	1786.0	1790.3	1794.6	1794.6
10°	1773.0	1768.7	1760.1	1747.2	1742.9	1738.5	1747.2	1755.8	1768.7	1781.7	1777.4
12.5°	1764.4	1760.1	1742.9	1729.9	1721.3	1725.6	1734.2	1742.9	1764.4	1777.4	1773.0
15°	1773.0	1764.4	1742.9	1721.3	1725.6	1734.2	1742.9	1742.9	1768.7	1781.7	1781.7
17.5°	1773.0	1768.7	1742.9	1725.6	1729.9	1742.9	1747.2	1742.9	1764.4	1786.0	1786.0
20°	1777.4	1777.4	1742.9	1729.9	1734.2	1747.2	1751.5	1747.2	1764.4	1790.3	1790.3
22.5°	1786.0	1781.7	1747.2	1738.5	1747.2	1755.8	1760.1	1755.8	1773.0	1794.6	1798.9
25°	1803.2	1794.6	1764.4	1760.1	1777.4	1790.3	1790.3	1781.7	1790.3	1811.9	1811.9
27.5°	1824.8	1820.5	1786.0	1786.0	1807.6	1833.4	1820.5	1803.2	1811.9	1833.4	1833.4
30°	1863.6	1859.3	1824.8	1824.8	1855.0	1885.2	1855.0	1833.4	1846.4	1868.0	1872.3
32.5°	1919.7	1919.7	1889.5	1880.9	1932.7	1945.6	1932.7	1889.5	1898.2	1928.4	1928.4
35°	2014.6	2006.0	1975.8	1971.5	2023.3	2018.9	2014.6	1975.8	1984.4	2018.9	2018.9
37.5°	2139.7	2135.4	2109.5	2096.6	2122.5	2105.2	2113.9	2096.6	2118.2	2144.1	2148.4
40°	2299.4	2295.0	2273.5	2256.2	2264.8	2239.0	2247.6	2256.2	2277.8	2295.0	2299.4
42.5°	2497.8	2497.8	2476.2	2446.0	2433.1	2420.1	2420.1	2437.4	2459.0	2480.5	2480.5
45°	2743.7	2743.7	2717.8	2687.6	2648.8	2627.2	2635.8	2653.1	2679.0	2704.9	2713.5
47.5°	3032.7	3032.7	2998.2	2968.0	2929.2	2903.3	2903.3	2911.9	2950.8	2972.3	2985.3
50°	3356.3	3343.3	3308.8	3278.6	3257.1	3222.6	3226.9	3222.6	3257.1	3287.3	3295.9
52.5°	3692.8	3688.5	3653.9	3645.3	3658.3	3641.0	3641.0	3597.9	3610.8	3628.1	3623.8
55°	4111.2	4098.3	4068.1	4085.3	4137.1	4163.0	4154.4	4085.3	4046.5	4055.2	4050.8
57.5°	4568.5	4555.6	4546.9	4598.7	4715.2	4823.0	4801.5	4641.9	4568.5	4572.8	4577.1
60°	5034.4	5034.4	5060.3	5189.7	5439.9	5616.8	5552.1	5284.6	5155.2	5129.3	5120.7
62.5°	5513.3	5526.2	5582.3	5798.0	6181.9	6475.3	6311.4	5931.7	5737.6	5685.8	5668.6
65°	6069.8	6082.7	6164.7	6432.2	6941.2	7290.6	7010.2	6652.2	6380.4	6272.5	6255.3
67.5°	6876.5	6885.1	6949.8	7208.7	7687.5	7967.9	7678.9	7359.7	7066.3	6941.2	6932.6
70°	7601.3	7609.9	7666.0	8006.8	8446.8	8546.0	8226.8	7821.3	7515.0	7415.7	7398.5
72.5°	7437.3	7467.5	7653.0	8183.6	8860.9	8990.4	8317.4	7709.1	7217.3	7053.4	7001.6
75°	6238.0	6285.5	6578.8	7376.9	8455.4	8822.1	7782.4	6665.1	5931.7	5616.8	5534.8
77.5°	3641.0	3817.9	4322.6	5345.0	6885.1	7631.4	6410.6	4879.1	3645.3	3127.6	2955.1
80°	996.5	1091.4	1458.1	2459.0	4318.3	5345.0	4089.7	2239.0	1207.9	905.9	841.2
82.5°	314.9	418.5	530.6	707.5	1695.4	2817.0	1518.5	660.0	517.7	427.1	379.6
85°	168.2	181.2	297.7	345.1	509.1	789.5	470.2	345.1	310.6	228.6	215.7
87.5°	86.3	90.6	168.2	168.2	224.3	185.5	202.8	185.5	176.9	112.2	99.2
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)