

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: P236711

Luminaire Tested: **ARCH-L-AF72-180-D-U-5WQ-7030**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P236711  
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-AF72-180-D-U-5WQ-7030  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 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: 22443 lumens  
Efficiency: N/A  
Efficacy: 124.0 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

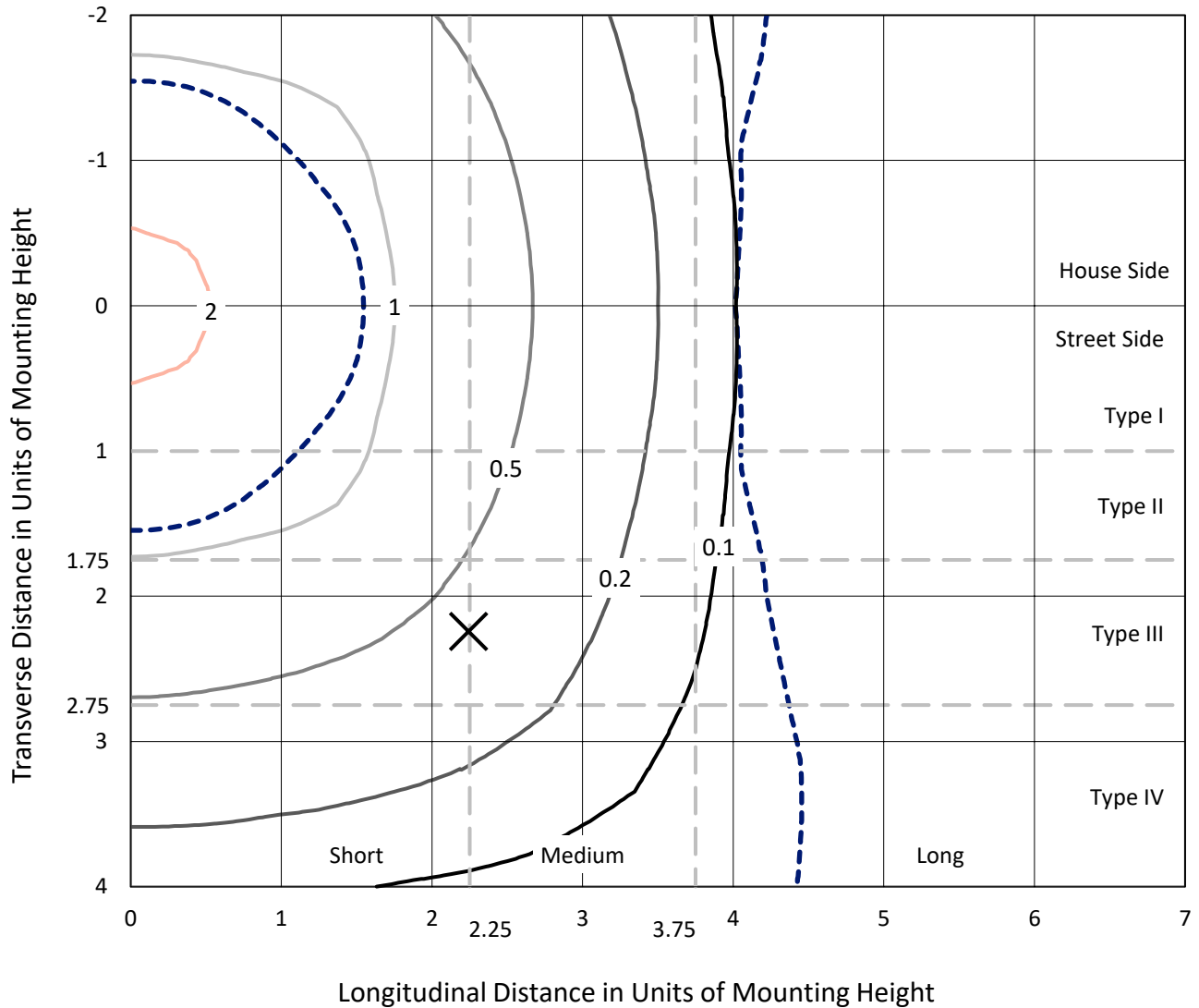
Input Watts (W): 181  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P236711  
 CATALOG NUMBER: ARCH-L-AF72-180-D-U-5WQ-7030

### Iso-Footcandle Lines of Horizontal Illumination

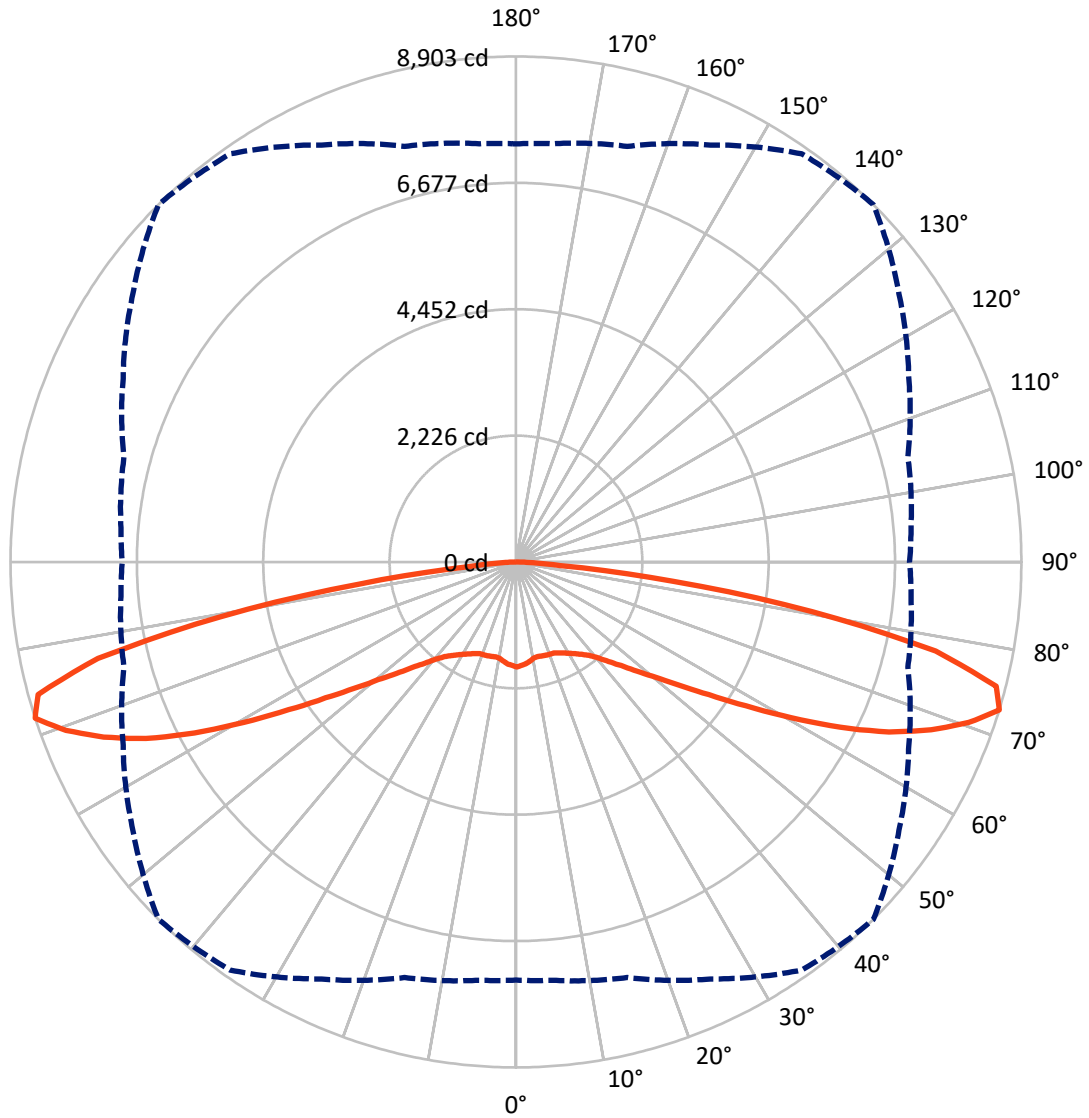
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - N/A

REPORT NUMBER: P236711  
CATALOG NUMBER: ARCH-L-AF72-180-D-U-5WQ-7030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P236711  
 CATALOG NUMBER: ARCH-L-AF72-180-D-U-5WQ-7030

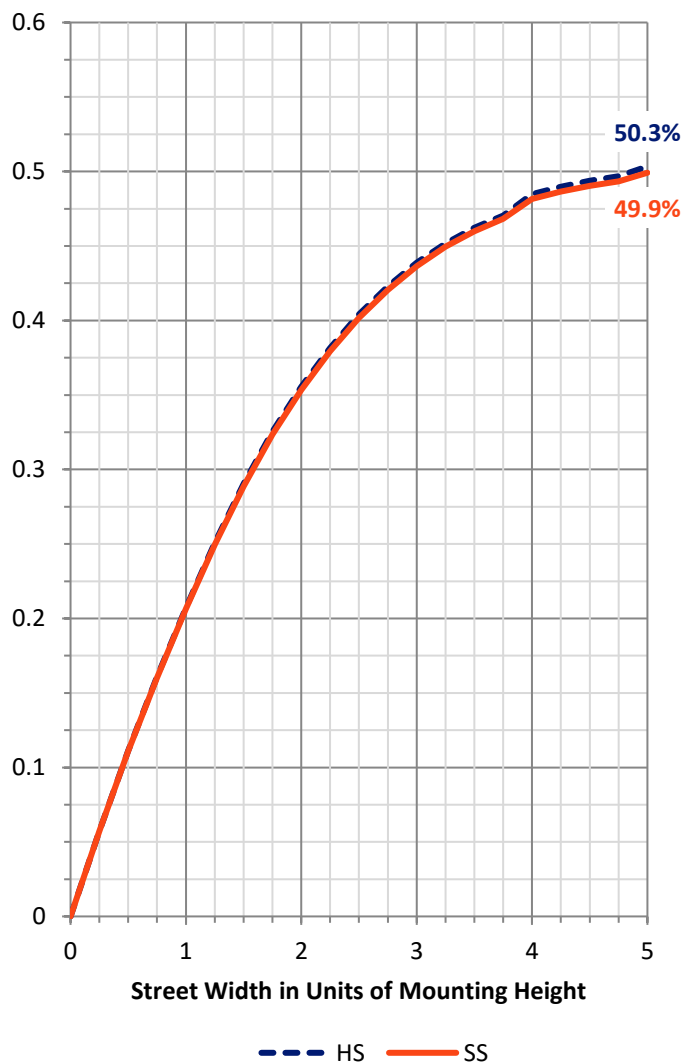
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11221.5	0.0	11221.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11221.5	0.0	11221.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22443.0	0.0	22443.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.2	0.8
10°-20°	491.1	2.2
20°-30°	821.8	3.7
30°-40°	1262.7	5.6
40°-50°	2090.8	9.3
50°-60°	3717.0	16.6
60°-70°	6502.8	29.0
70°-80°	6616.1	29.5
80°-90°	770.4	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°	22443.0	100.0
0°-180°	22443.0	100.0

**Coefficient of Utilization**



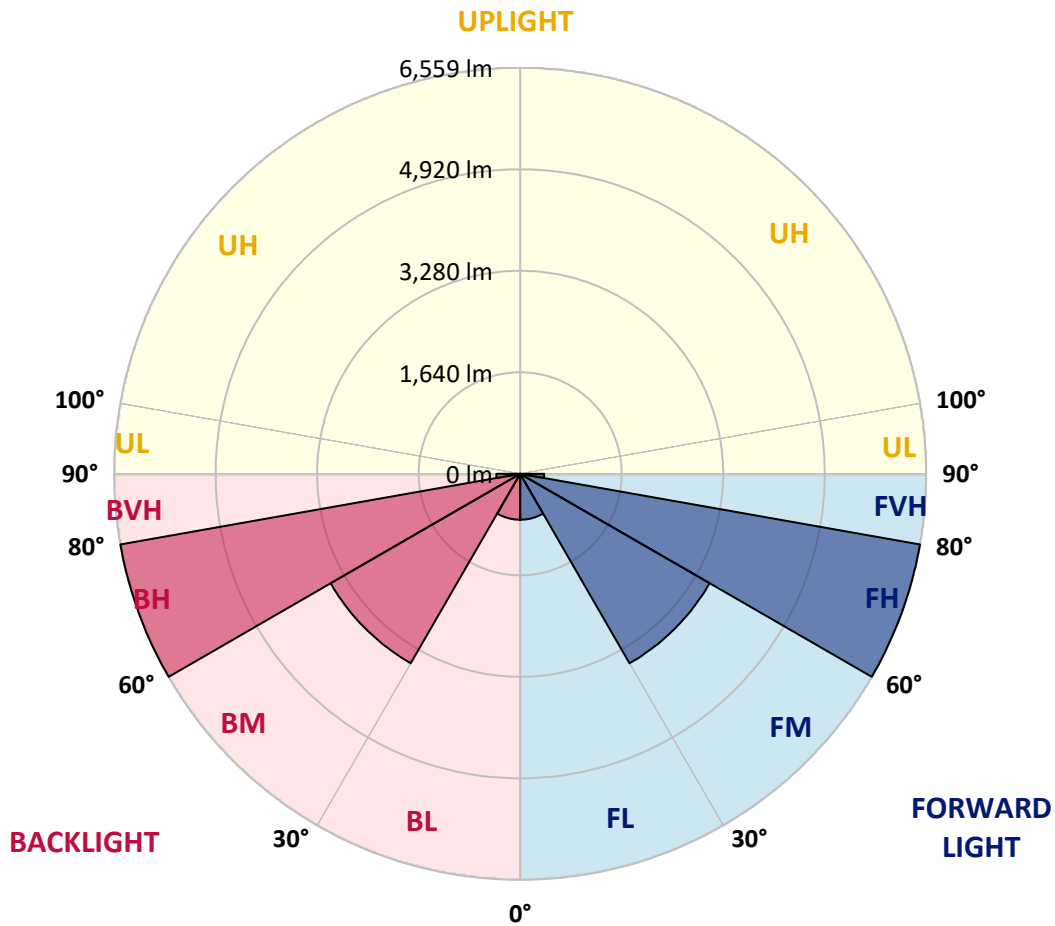
REPORT NUMBER: P236711  
 CATALOG NUMBER: ARCH-L-AF72-180-D-U-5WQ-7030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	741.6	3.3			
FM (30°-60°)	3535.3	15.8			
FH (60°-80°)	6559.5	29.2			G3/7500
FVH (80°-90°)	385.2	1.7			G3/500
BL (0°-30°)	741.6	3.3	B2/1000		
BM (30°-60°)	3535.3	15.8	B3/5000		
BH (60°-80°)	6559.5	29.2	B5		G3/7500
BVH (80°-90°)	385.2	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





REPORT NUMBER: P236711

CATALOG NUMBER: ARCH-L-AF72-180-D-U-5WQ-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1849.9	1849.9	1849.9	1849.9	1849.9	1849.9	1849.9	1849.9	1849.9	1849.9	1849.9
2.5°	1832.8	1836.9	1828.5	1828.5	1828.5	1824.2	1828.5	1824.2	1828.5	1832.8	1832.8
5°	1815.7	1815.7	1807.1	1807.1	1807.1	1802.8	1807.1	1807.1	1811.4	1815.7	1815.7
7.5°	1777.2	1777.2	1773.0	1768.7	1764.4	1764.4	1768.7	1768.7	1773.0	1777.2	1777.2
10°	1755.8	1751.5	1743.0	1730.2	1726.0	1721.7	1730.2	1738.8	1751.5	1764.4	1760.0
12.5°	1747.3	1743.0	1726.0	1713.0	1704.6	1708.9	1717.3	1726.0	1747.3	1760.0	1755.8
15°	1755.8	1747.3	1726.0	1704.6	1708.9	1717.3	1726.0	1726.0	1751.5	1764.4	1764.4
17.5°	1755.8	1751.5	1726.0	1708.9	1713.0	1726.0	1730.2	1726.0	1747.3	1768.7	1768.7
20°	1760.0	1760.0	1726.0	1713.0	1717.3	1730.2	1734.5	1730.2	1747.3	1773.0	1773.0
22.5°	1768.7	1764.4	1730.2	1721.7	1730.2	1738.8	1743.0	1738.8	1755.8	1777.2	1781.5
25°	1785.8	1777.2	1747.3	1743.0	1760.0	1773.0	1773.0	1764.4	1773.0	1794.2	1794.2
27.5°	1807.1	1802.8	1768.7	1768.7	1790.0	1815.7	1802.8	1785.8	1794.2	1815.7	1815.7
30°	1845.5	1841.2	1807.1	1807.1	1836.9	1866.9	1836.9	1815.7	1828.5	1849.9	1854.1
32.5°	1901.1	1901.1	1871.2	1862.7	1913.9	1926.7	1913.9	1871.2	1879.7	1909.7	1909.7
35°	1995.1	1986.6	1956.7	1952.4	2003.6	1999.3	1995.1	1956.7	1965.1	1999.3	1999.3
37.5°	2119.0	2114.7	2089.0	2076.3	2101.8	2084.7	2093.3	2076.3	2097.6	2123.2	2127.5
40°	2277.1	2272.8	2251.4	2234.4	2242.9	2217.2	2225.7	2234.4	2255.6	2272.8	2277.1
42.5°	2473.5	2473.5	2452.3	2422.3	2409.5	2396.6	2396.6	2413.7	2435.1	2456.4	2456.4
45°	2717.1	2717.1	2691.4	2661.5	2623.1	2601.7	2610.2	2627.3	2653.0	2678.6	2687.1
47.5°	3003.3	3003.3	2969.1	2939.2	2900.8	2875.1	2875.1	2883.7	2922.1	2943.5	2956.3
50°	3323.6	3310.9	3276.6	3246.7	3225.5	3191.3	3195.5	3191.3	3225.5	3255.4	3263.9
52.5°	3656.9	3652.6	3618.4	3609.9	3622.7	3605.7	3605.7	3563.0	3575.7	3592.9	3588.5
55°	4071.3	4058.6	4028.6	4045.7	4096.9	4122.6	4114.0	4045.7	4007.2	4015.9	4011.5
57.5°	4524.2	4511.4	4502.8	4554.0	4669.4	4776.2	4754.9	4596.7	4524.2	4528.5	4532.7
60°	4985.5	4985.5	5011.1	5139.3	5387.1	5562.3	5498.2	5233.3	5105.1	5079.6	5070.9
62.5°	5459.8	5472.6	5528.1	5741.7	6121.9	6412.4	6250.0	5874.1	5681.9	5630.6	5613.5
65°	6010.9	6023.7	6104.9	6369.7	6873.8	7219.9	6942.2	6587.6	6318.5	6211.6	6194.6
67.5°	6809.7	6818.4	6882.4	7138.7	7612.8	7890.6	7604.3	7288.2	6997.7	6873.8	6865.3
70°	7527.4	7535.9	7591.6	7929.1	8364.8	8463.0	8146.9	7745.3	7441.9	7343.8	7326.7
72.5°	7365.0	7395.0	7578.7	8104.2	8774.9	8903.1	8236.6	7634.3	7147.2	6984.8	6933.6
75°	6177.4	6224.5	6514.9	7305.3	8373.3	8736.5	7706.8	6600.4	5874.1	5562.3	5481.1
77.5°	3605.7	3780.8	4280.7	5293.2	6818.4	7557.4	6348.3	4831.8	3609.9	3097.3	2926.4
80°	986.8	1080.8	1444.0	2435.1	4276.4	5293.2	4049.9	2217.2	1196.2	897.1	833.1
82.5°	311.8	414.4	525.4	700.6	1679.0	2789.7	1503.7	653.6	512.7	423.0	376.0
85°	166.6	179.4	294.8	341.8	504.1	781.7	465.7	341.8	307.6	226.3	213.6
87.5°	85.4	89.7	166.6	166.6	222.2	183.7	200.8	183.7	175.2	111.1	98.3
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)