

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: P236730

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-170-D-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 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: 23183.1 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B5 - U0 - G3

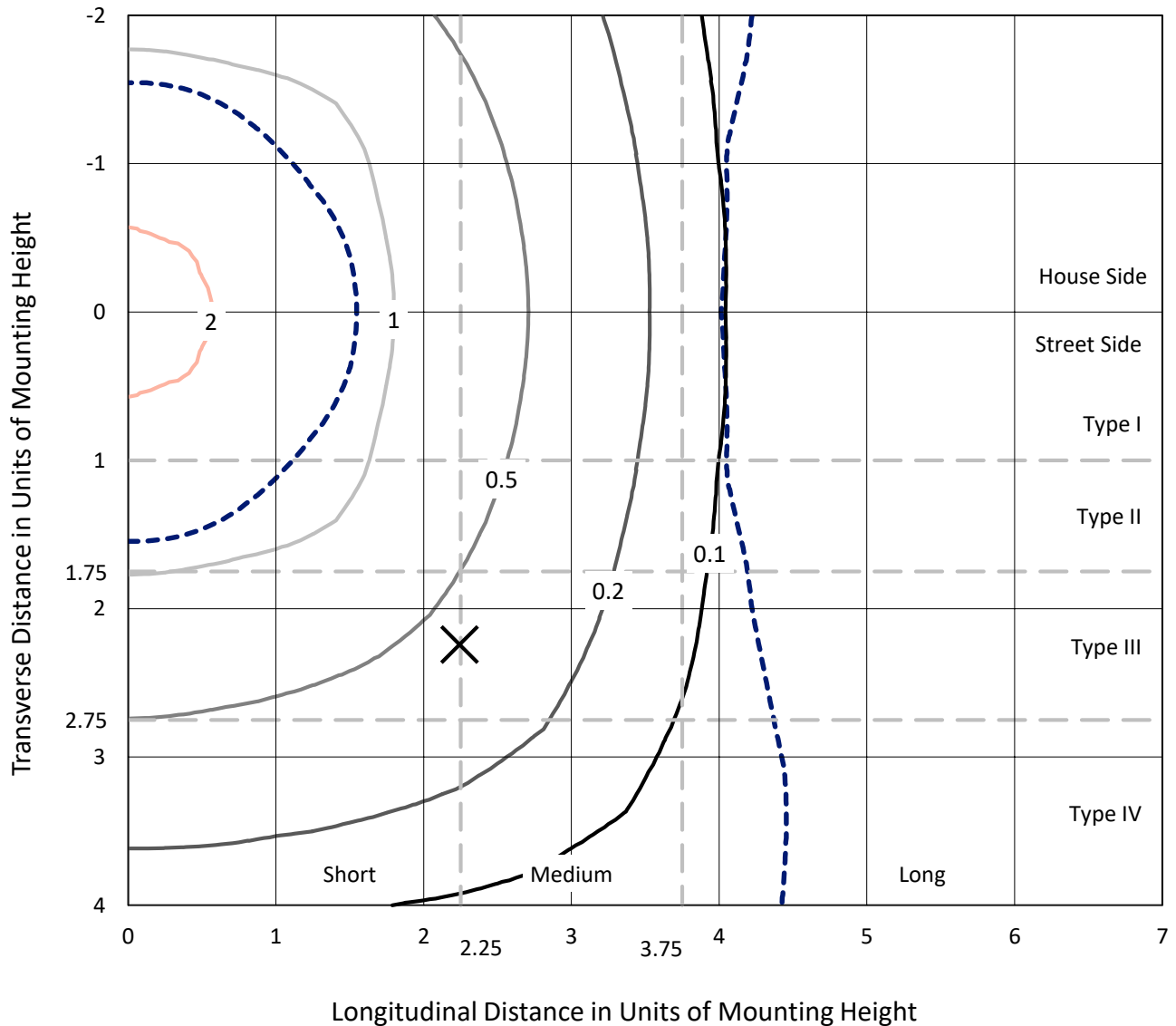
Input Watts (W): 173  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

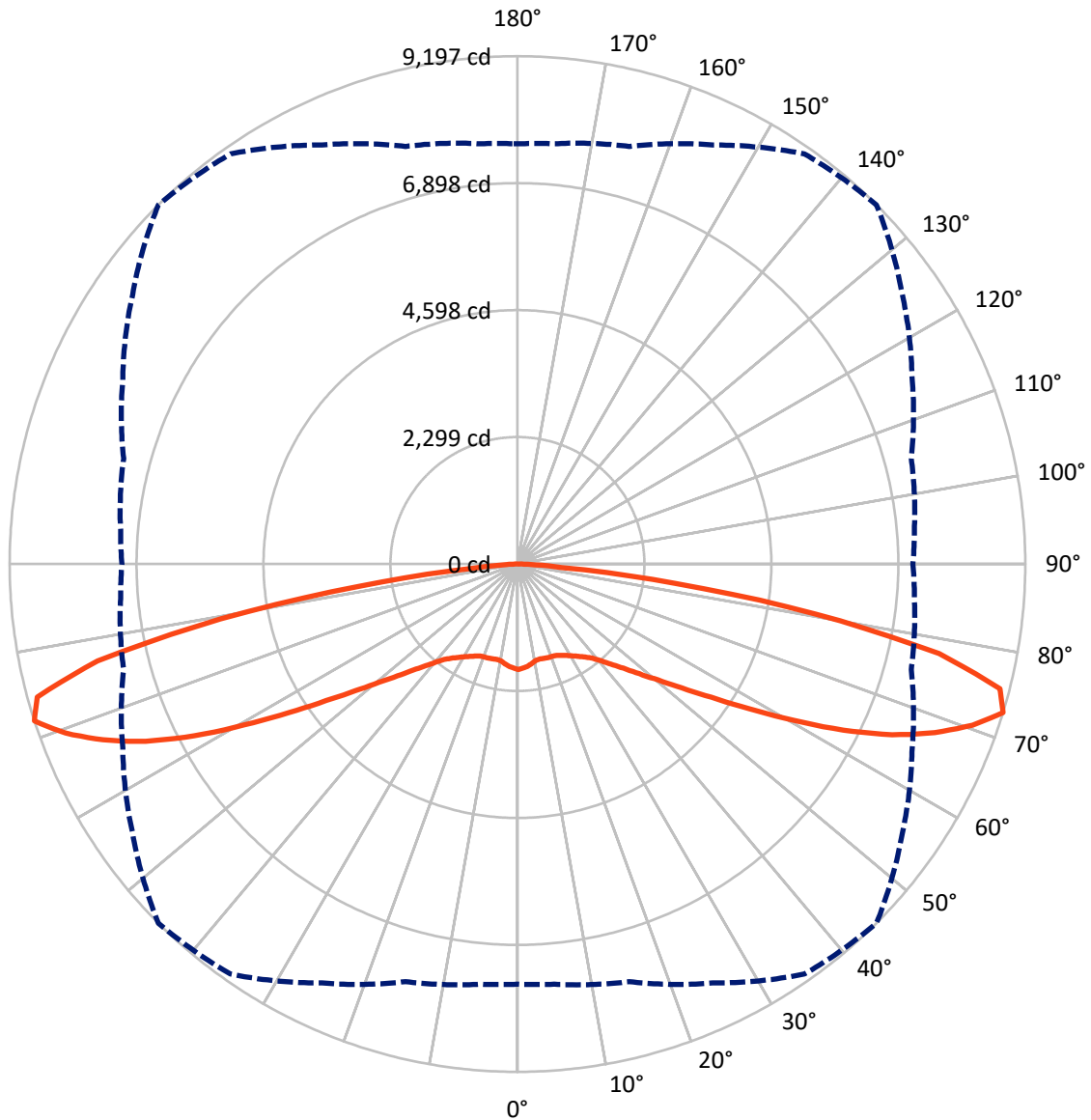


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - Non-Cutoff

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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	11591.6	0.0	11591.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11591.6	0.0	11591.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23183.1	0.0	23183.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.8	0.8
10°-20°	507.3	2.2
20°-30°	848.9	3.7
30°-40°	1304.4	5.6
40°-50°	2159.7	9.3
50°-60°	3839.6	16.6
60°-70°	6717.3	29.0
70°-80°	6834.3	29.5
80°-90°	795.8	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°	23183.1	100.0
0°-180°	23183.1	100.0



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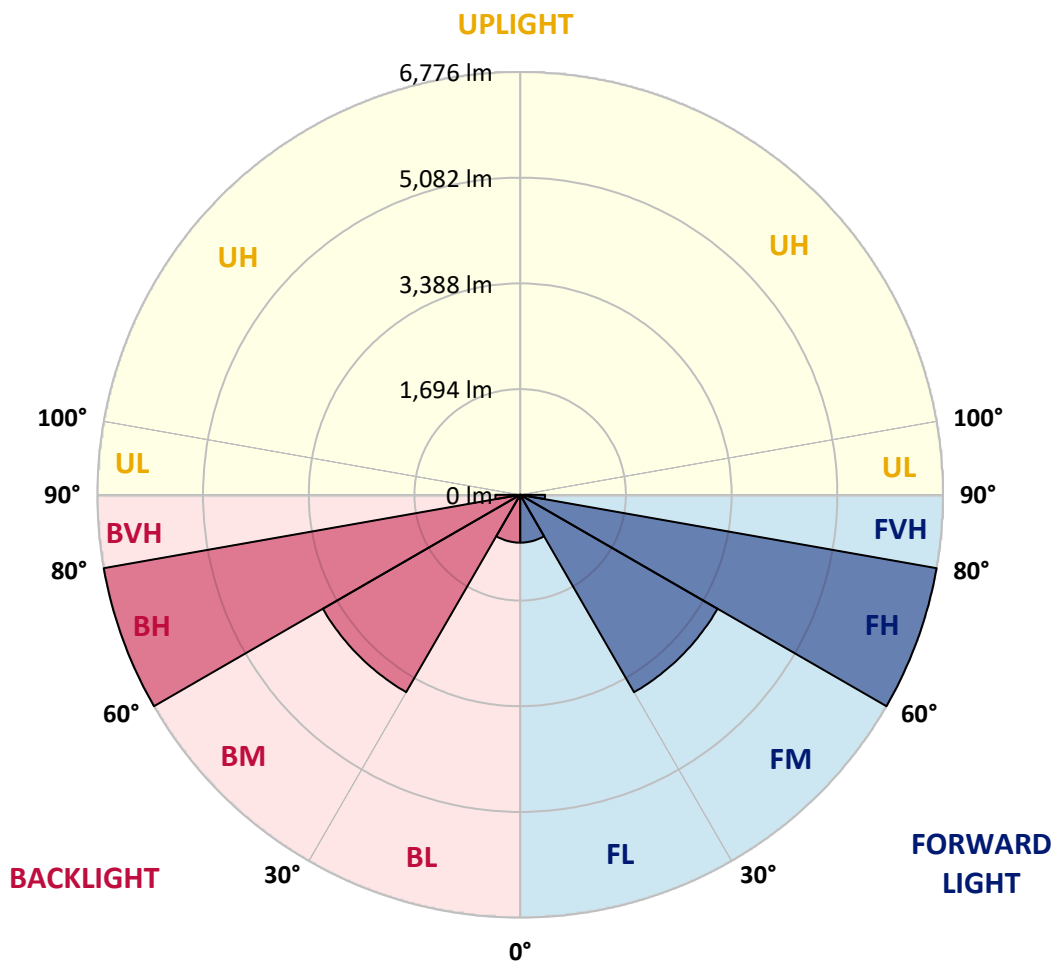
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	766.0	3.3			
FM	(30°-60°)	3651.8	15.8			
FH	(60°-80°)	6775.8	29.2			G3/7500
FVH	(80°-90°)	397.9	1.7			G3/500
BL	(0°-30°)	766.0	3.3	B2/1000		
BM	(30°-60°)	3651.8	15.8	B3/5000		
BH	(60°-80°)	6775.8	29.2	B5		G3/7500
BVH	(80°-90°)	397.9	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°	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9
2.5°	1893.2	1897.6	1888.8	1888.8	1888.8	1884.4	1888.8	1884.4	1888.8	1893.2	1893.2
5°	1875.5	1875.5	1866.7	1866.7	1866.7	1862.3	1866.7	1866.7	1871.1	1875.5	1875.5
7.5°	1835.8	1835.8	1831.4	1827.0	1822.6	1822.6	1827.0	1827.0	1831.4	1835.8	1835.8
10°	1813.7	1809.3	1800.5	1787.3	1782.9	1778.4	1787.3	1796.1	1809.3	1822.6	1818.2
12.5°	1804.9	1800.5	1782.9	1769.6	1760.8	1765.2	1774.0	1782.9	1804.9	1818.2	1813.7
15°	1813.7	1804.9	1782.9	1760.8	1765.2	1774.0	1782.9	1782.9	1809.3	1822.6	1822.6
17.5°	1813.7	1809.3	1782.9	1765.2	1769.6	1782.9	1787.3	1782.9	1804.9	1827.0	1827.0
20°	1818.2	1818.2	1782.9	1769.6	1774.0	1787.3	1791.7	1787.3	1804.9	1831.4	1831.4
22.5°	1827.0	1822.6	1787.3	1778.4	1787.3	1796.1	1800.5	1796.1	1813.7	1835.8	1840.2
25°	1844.6	1835.8	1804.9	1800.5	1818.2	1831.4	1831.4	1822.6	1831.4	1853.5	1853.5
27.5°	1866.7	1862.3	1827.0	1827.0	1849.1	1875.5	1862.3	1844.6	1853.5	1875.5	1875.5
30°	1906.4	1902.0	1866.7	1866.7	1897.6	1928.5	1897.6	1875.5	1888.8	1910.9	1915.3
32.5°	1963.8	1963.8	1932.9	1924.1	1977.1	1990.3	1977.1	1932.9	1941.8	1972.7	1972.7
35°	2060.8	2052.0	2021.1	2016.7	2069.7	2065.2	2060.8	2021.1	2029.9	2065.2	2065.2
37.5°	2188.8	2184.4	2157.9	2144.7	2171.2	2153.5	2162.4	2144.7	2166.8	2193.3	2197.7
40°	2352.2	2347.7	2325.7	2308.0	2316.8	2290.4	2299.2	2308.0	2330.1	2347.7	2352.2
42.5°	2555.1	2555.1	2533.0	2502.1	2488.9	2475.6	2475.6	2493.3	2515.4	2537.4	2537.4
45°	2806.7	2806.7	2780.2	2749.3	2709.6	2687.5	2696.3	2714.0	2740.5	2767.0	2775.8
47.5°	3102.3	3102.3	3067.0	3036.1	2996.4	2969.9	2969.9	2978.7	3018.5	3040.5	3053.8
50°	3433.3	3420.0	3384.7	3353.8	3331.9	3296.6	3301.0	3296.6	3331.9	3362.7	3371.5
52.5°	3777.6	3773.2	3737.8	3729.0	3742.3	3724.6	3724.6	3680.5	3693.7	3711.4	3707.0
55°	4205.6	4192.4	4161.5	4179.1	4232.0	4258.5	4249.7	4179.1	4139.4	4148.3	4143.8
57.5°	4673.4	4660.2	4651.3	4704.2	4823.4	4933.7	4911.7	4748.4	4673.4	4677.7	4682.1
60°	5149.9	5149.9	5176.4	5308.8	5564.8	5745.7	5679.5	5405.9	5273.5	5247.0	5238.2
62.5°	5639.8	5653.0	5710.4	5931.1	6323.8	6623.9	6456.3	6067.8	5869.3	5816.3	5798.7
65°	6209.1	6222.3	6306.2	6579.8	7100.5	7457.9	7171.1	6804.9	6526.8	6416.5	6398.9
67.5°	7034.3	7043.1	7109.3	7374.1	7863.9	8150.8	7855.1	7528.6	7228.5	7100.5	7091.7
70°	7775.8	7784.6	7841.9	8190.6	8640.7	8742.1	8415.6	8000.8	7687.5	7585.9	7568.3
72.5°	7608.0	7638.9	7828.6	8371.4	9064.3	9196.7	8508.3	7886.0	7382.9	7215.3	7162.3
75°	6381.2	6429.8	6729.8	7546.2	8649.5	9024.6	7961.0	6818.1	6067.8	5745.7	5661.8
77.5°	3724.6	3905.5	4421.8	5467.7	7043.1	7806.5	6557.7	4991.1	3729.0	3199.4	3022.9
80°	1019.4	1116.4	1491.6	2515.4	4417.4	5467.7	4183.6	2290.4	1235.6	926.7	860.5
82.5°	322.1	428.1	542.8	723.7	1734.3	2881.7	1553.4	675.1	529.6	436.9	388.3
85°	172.1	185.4	304.5	353.0	520.8	807.6	481.0	353.0	317.7	233.8	220.7
87.5°	88.3	92.7	172.1	172.1	229.4	189.8	207.5	189.8	181.0	114.8	101.5
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)