

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: P399560

Luminaire Tested: **ARCH-L-PA3-160-730-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-160-730-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23403 lumens  
Efficiency: N/A  
Efficacy: 144.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

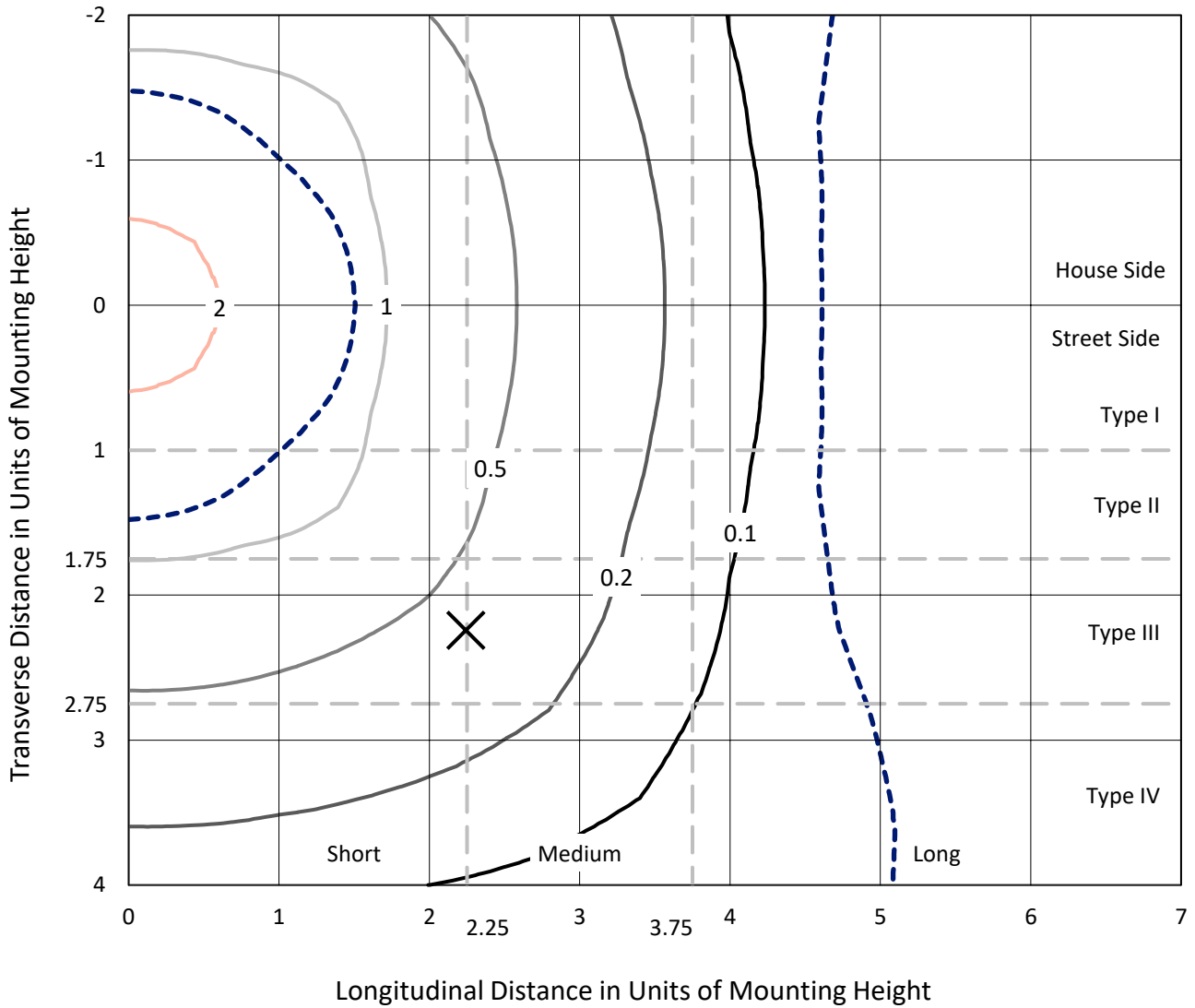
Input Watts (W): 162  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

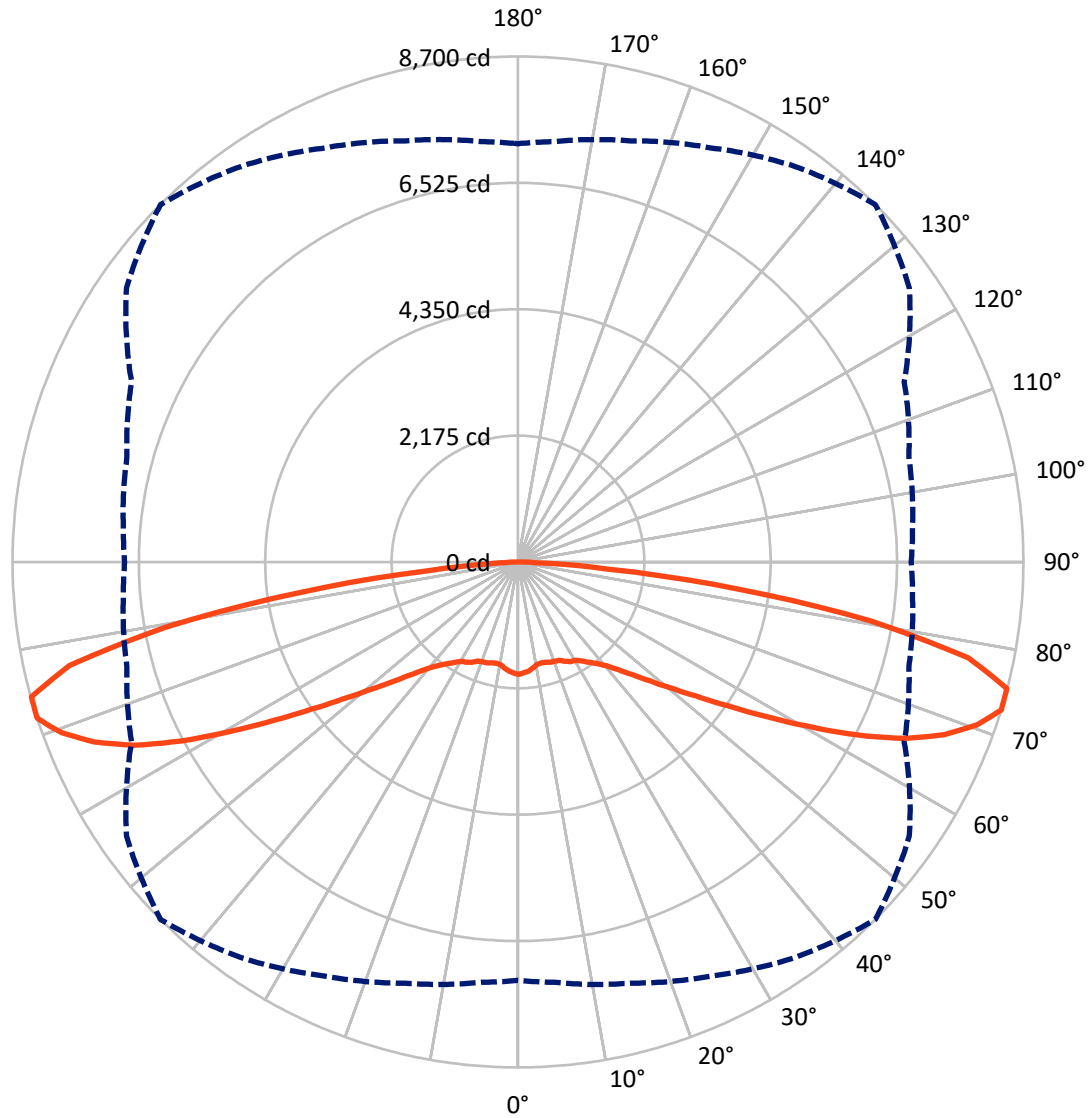
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - 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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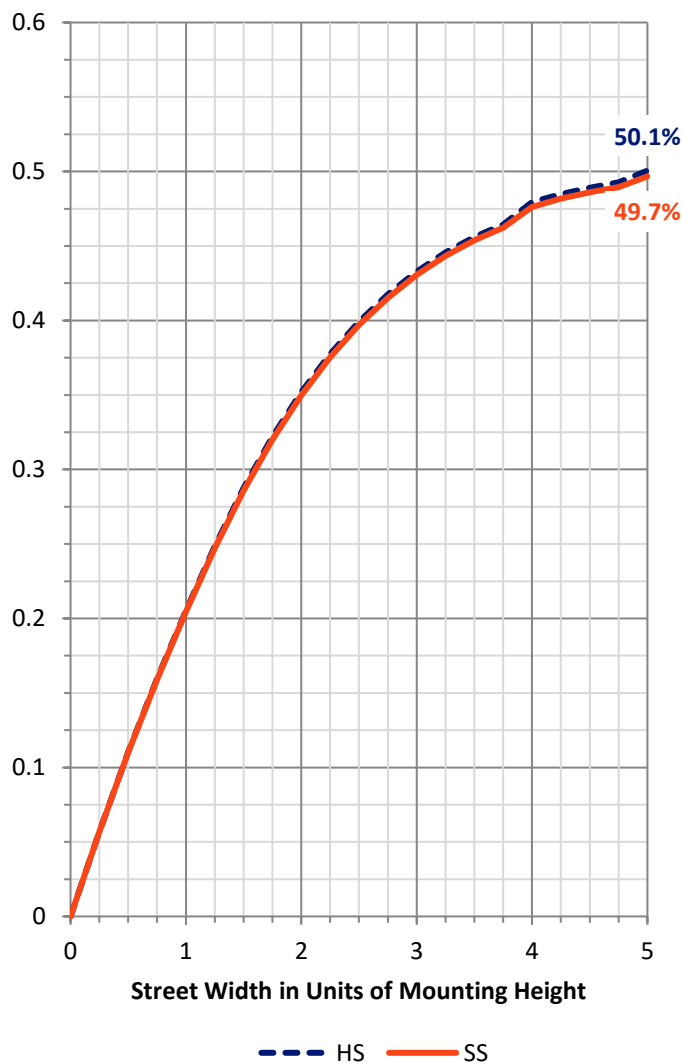
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11701.5	0.0	11701.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11701.5	0.0	11701.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23403.0	0.0	23403.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.6	0.8
10°-20°	515.5	2.2
20°-30°	875.9	3.7
30°-40°	1335.9	5.7
40°-50°	2199.8	9.4
50°-60°	3841.5	16.4
60°-70°	6440.3	27.5
70°-80°	6892.4	29.5
80°-90°	1124.2	4.8
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°	23403.0	100.0
0°-180°	23403.0	100.0

**Coefficient of Utilization**

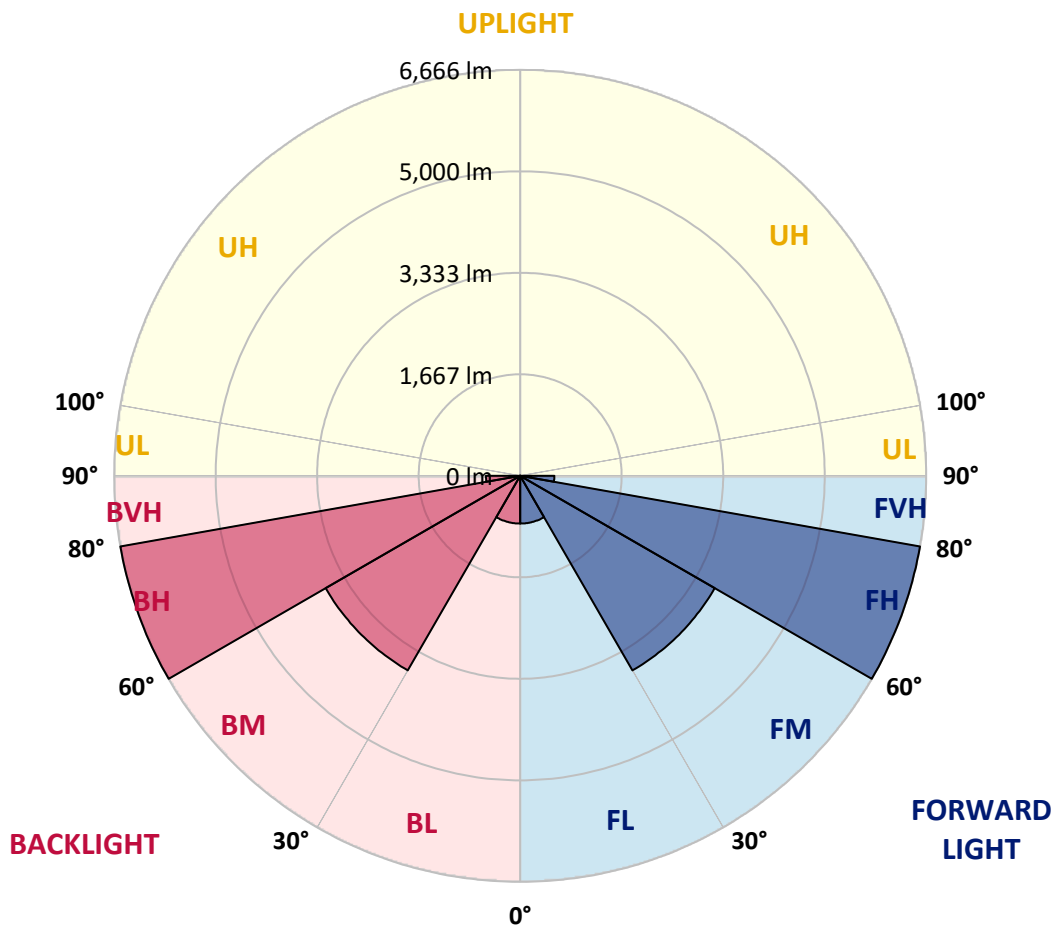


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	784.5	3.4			
FM (30°-60°)	3688.6	15.8			
FH (60°-80°)	6666.4	28.5			G3/7500
FVH (80°-90°)	562.1	2.4			G4/750
BL (0°-30°)	784.5	3.4	B2/1000		
BM (30°-60°)	3688.6	15.8	B3/5000		
BH (60°-80°)	6666.4	28.5	B5		G3/7500
BVH (80°-90°)	562.1	2.4			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6	1936.6
2.5°	1924.7	1924.7	1924.7	1921.7	1915.7	1912.7	1906.7	1909.7	1909.7	1909.7	1909.7
5°	1900.8	1900.8	1897.8	1894.8	1888.8	1885.8	1879.8	1885.8	1885.8	1885.8	1885.8
7.5°	1855.9	1858.9	1858.9	1855.9	1847.0	1844.0	1835.0	1838.0	1838.0	1841.0	1838.0
10°	1832.0	1832.0	1829.0	1814.1	1799.1	1793.2	1790.2	1799.1	1808.1	1817.1	1817.1
12.5°	1832.0	1832.0	1826.0	1802.1	1781.2	1781.2	1781.2	1793.2	1811.1	1829.0	1832.0
15°	1841.0	1841.0	1829.0	1802.1	1790.2	1793.2	1793.2	1805.1	1826.0	1850.0	1852.9
17.5°	1847.0	1847.0	1832.0	1805.1	1805.1	1814.1	1808.1	1817.1	1838.0	1864.9	1867.9
20°	1855.9	1855.9	1835.0	1814.1	1814.1	1823.1	1823.1	1832.0	1850.0	1876.9	1879.8
22.5°	1873.9	1870.9	1850.0	1832.0	1832.0	1838.0	1844.0	1855.9	1870.9	1894.8	1900.8
25°	1894.8	1894.8	1876.9	1873.9	1879.8	1894.8	1891.8	1888.8	1894.8	1915.7	1924.7
27.5°	1906.7	1906.7	1894.8	1903.7	1927.7	1939.6	1924.7	1912.7	1912.7	1933.6	1936.6
30°	1945.6	1942.6	1930.6	1936.6	1957.5	1963.5	1954.6	1939.6	1948.6	1972.5	1975.5
32.5°	2011.3	2011.3	1993.4	1993.4	2008.4	2032.3	2002.4	1993.4	2005.4	2032.3	2035.2
35°	2113.0	2113.0	2089.0	2077.1	2089.0	2121.9	2077.1	2074.1	2095.0	2124.9	2127.9
37.5°	2241.5	2241.5	2226.5	2196.6	2199.6	2220.5	2181.7	2178.7	2217.6	2250.4	2250.4
40°	2402.8	2411.8	2396.9	2361.0	2349.1	2352.0	2322.2	2325.1	2370.0	2408.8	2408.8
42.5°	2603.1	2609.1	2585.2	2558.3	2543.3	2534.3	2504.5	2510.4	2564.2	2615.0	2615.0
45°	2845.2	2848.2	2824.2	2791.4	2773.4	2767.5	2737.6	2752.5	2812.3	2866.1	2863.1
47.5°	3117.1	3120.1	3096.2	3063.3	3051.4	3060.3	3030.5	3030.5	3084.3	3129.1	3123.1
50°	3425.0	3430.9	3404.0	3389.1	3380.1	3404.0	3368.2	3335.3	3371.2	3416.0	3410.0
52.5°	3765.7	3780.6	3762.7	3768.6	3801.5	3831.4	3771.6	3699.9	3717.8	3747.7	3738.8
55°	4178.1	4196.0	4202.0	4222.9	4309.6	4360.4	4261.8	4142.2	4133.3	4136.2	4121.3
57.5°	4641.3	4653.3	4692.1	4739.9	4919.3	5000.0	4844.5	4638.3	4572.6	4533.7	4524.8
60°	5107.5	5128.5	5224.1	5322.7	5597.7	5744.1	5505.0	5158.4	5017.9	4946.2	4931.2
62.5°	5576.8	5618.6	5774.0	5941.4	6341.8	6560.0	6192.4	5690.3	5487.1	5397.4	5373.5
65°	6120.7	6171.5	6359.8	6572.0	7017.3	7325.1	6879.8	6240.2	6022.1	5902.5	5872.6
67.5°	6757.3	6811.1	6963.5	7199.6	7621.0	7922.8	7528.3	6802.1	6518.2	6365.8	6341.8
70°	7280.3	7328.1	7492.5	7731.6	8045.4	8389.0	8012.5	7250.4	6993.4	6885.8	6870.8
72.5°	7199.6	7262.3	7504.4	7863.1	8311.3	8699.9	8224.7	7337.1	6966.5	6817.0	6769.2
75°	6288.1	6356.8	6643.7	7292.2	8111.1	8690.9	7916.8	6760.3	6323.9	6198.4	6174.5
77.5°	4163.1	4228.9	4713.1	5735.2	7083.0	7919.8	6987.4	5663.4	4961.1	4659.3	4641.3
80°	1682.6	1766.3	2229.5	3314.4	5020.9	6156.6	5182.3	3625.2	2444.7	1972.5	1876.9
82.5°	391.5	466.2	678.4	1222.3	2570.2	3834.4	2794.4	1353.8	786.0	558.9	502.1
85°	164.4	167.4	289.9	397.5	803.9	1548.1	914.5	493.1	400.5	292.9	286.9
87.5°	62.8	65.7	140.5	167.4	257.0	292.9	310.8	254.0	236.1	146.4	140.5
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)