

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: P399677

Luminaire Tested: **ARCH-L-PA3-170-830-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399677  
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-PA3-170-830-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 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: 21400 lumens  
Efficiency: N/A  
Efficacy: 123.7 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

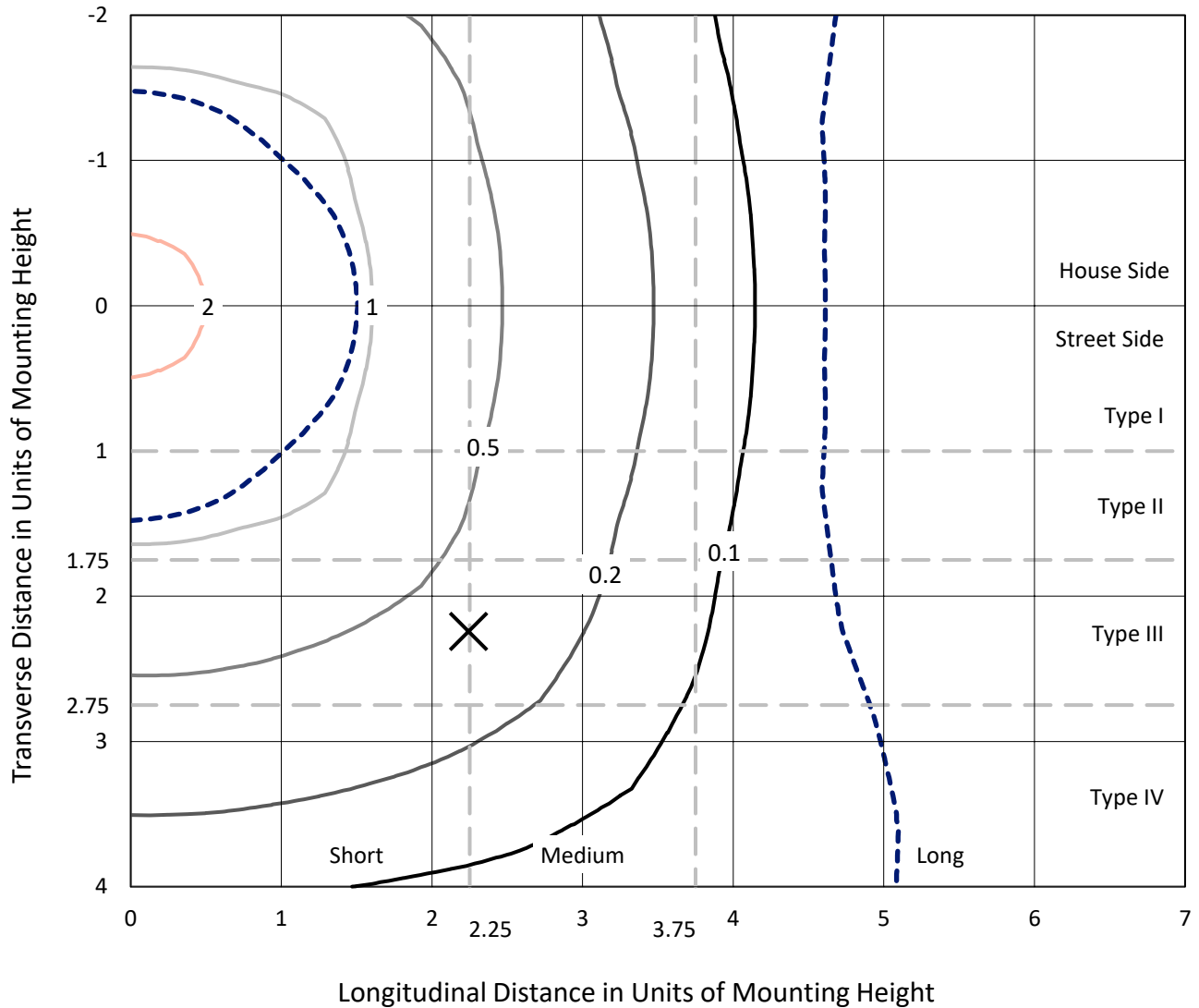
Input Watts (W): 173  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

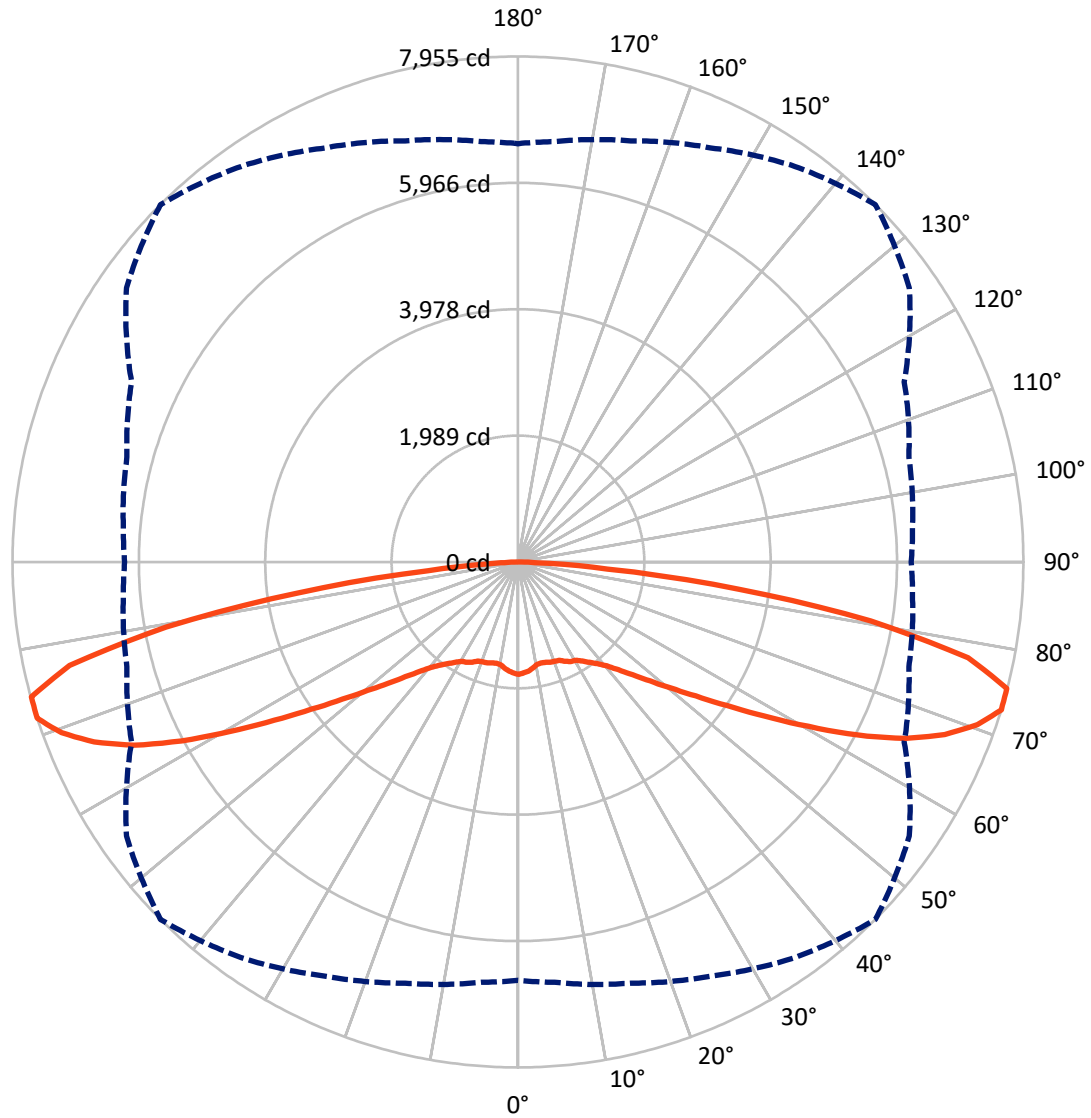
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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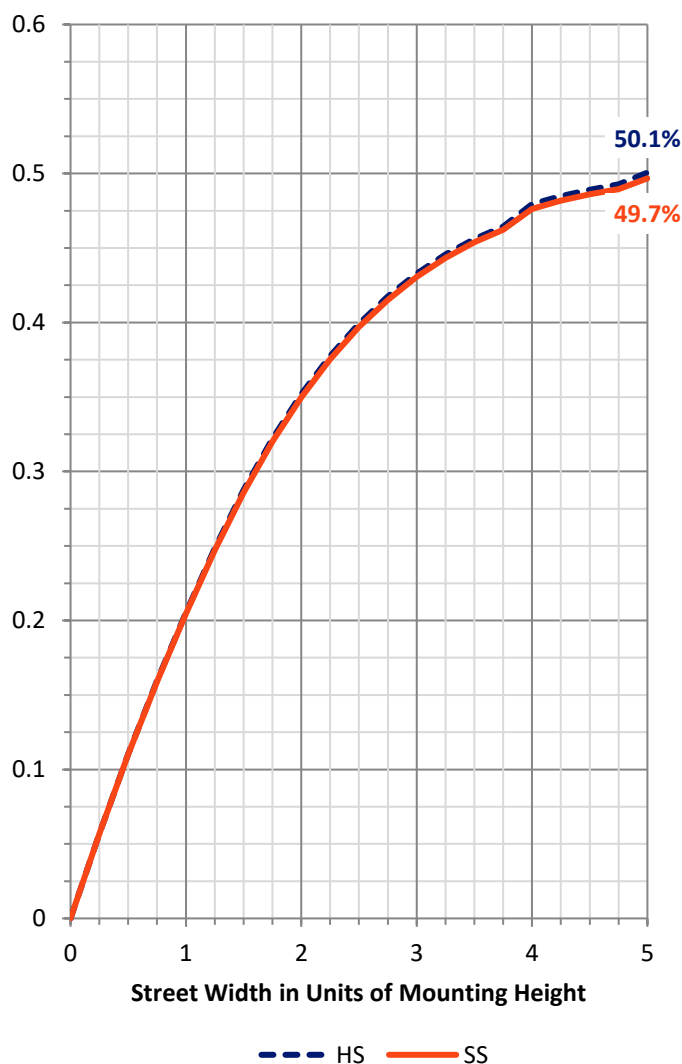
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10700.0	0.0	10700.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10700.0	0.0	10700.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21400.0	0.0	21400.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.4	0.8
10°-20°	471.4	2.2
20°-30°	800.9	3.7
30°-40°	1221.6	5.7
40°-50°	2011.5	9.4
50°-60°	3512.7	16.4
60°-70°	5889.1	27.5
70°-80°	6302.5	29.5
80°-90°	1027.9	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°	21400.0	100.0
0°-180°	21400.0	100.0

**Coefficient of Utilization**

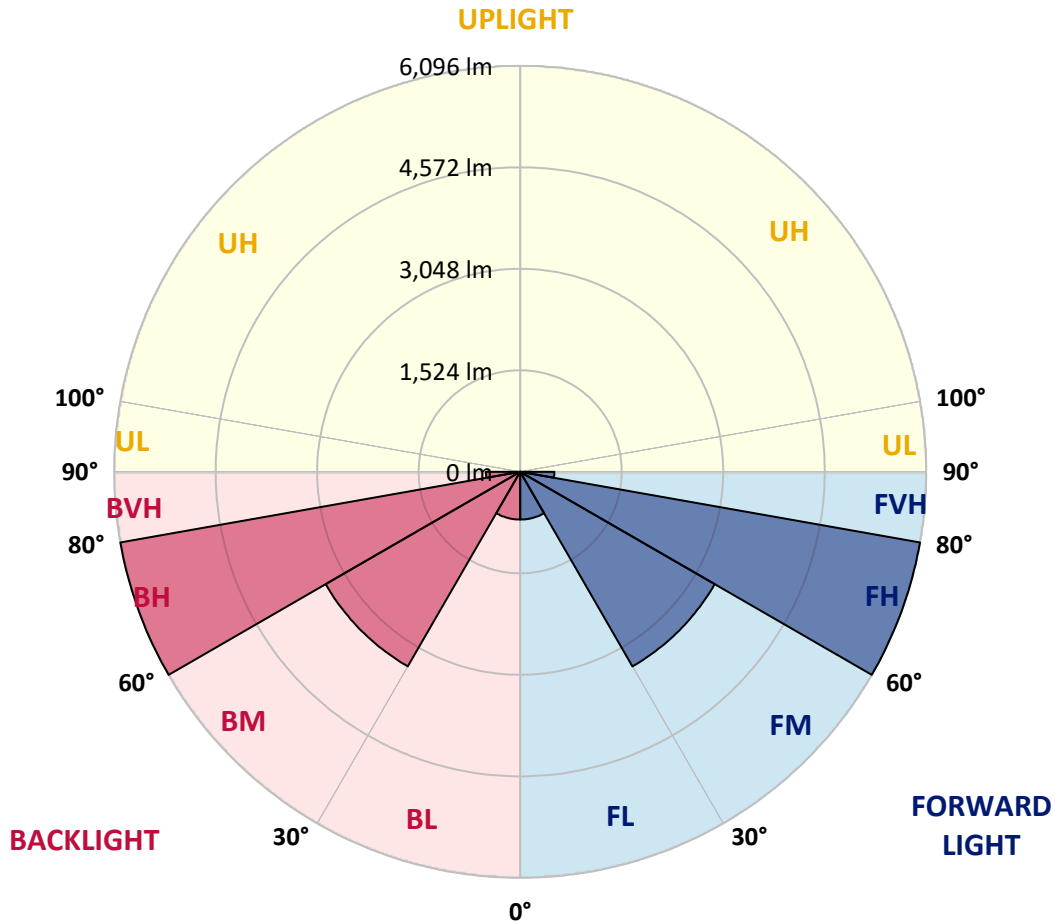


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.3	3.4			
FM (30°-60°)	3372.9	15.8			
FH (60°-80°)	6095.8	28.5			G3/7500
FVH (80°-90°)	514.0	2.4			G4/750
BL (0°-30°)	717.3	3.4	B2/1000		
BM (30°-60°)	3372.9	15.8	B3/5000		
BH (60°-80°)	6095.8	28.5	B5		G3/7500
BVH (80°-90°)	514.0	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°	1770.9	1770.9	1770.9	1770.9	1770.9	1770.9	1770.9	1770.9	1770.9	1770.9	1770.9
2.5°	1759.9	1759.9	1759.9	1757.2	1751.7	1749.0	1743.5	1746.3	1746.3	1746.3	1746.3
5°	1738.1	1738.1	1735.3	1732.6	1727.1	1724.4	1719.0	1724.4	1724.4	1724.4	1724.4
7.5°	1697.1	1699.8	1699.8	1697.1	1688.9	1686.2	1678.0	1680.7	1680.7	1683.4	1680.7
10°	1675.2	1675.2	1672.5	1658.8	1645.2	1639.7	1637.0	1645.2	1653.4	1661.6	1661.6
12.5°	1675.2	1675.2	1669.8	1647.9	1628.8	1628.8	1628.8	1639.7	1656.1	1672.5	1675.2
15°	1683.4	1683.4	1672.5	1647.9	1637.0	1639.7	1639.7	1650.6	1669.8	1691.6	1694.4
17.5°	1688.9	1688.9	1675.2	1650.6	1650.6	1658.8	1653.4	1661.6	1680.7	1705.3	1708.0
20°	1697.1	1697.1	1678.0	1658.8	1658.8	1667.0	1667.0	1675.2	1691.6	1716.2	1719.0
22.5°	1713.5	1710.8	1691.6	1675.2	1675.2	1680.7	1686.2	1697.1	1710.8	1732.6	1738.1
25°	1732.6	1732.6	1716.2	1713.5	1719.0	1732.6	1729.9	1727.1	1732.6	1751.7	1759.9
27.5°	1743.5	1743.5	1732.6	1740.8	1762.7	1773.6	1759.9	1749.0	1749.0	1768.1	1770.9
30°	1779.1	1776.3	1765.4	1770.9	1790.0	1795.5	1787.3	1773.6	1781.8	1803.7	1806.4
32.5°	1839.2	1839.2	1822.8	1822.8	1836.5	1858.3	1831.0	1822.8	1833.7	1858.3	1861.1
35°	1932.1	1932.1	1910.2	1899.3	1910.2	1940.3	1899.3	1896.6	1915.7	1943.0	1945.8
37.5°	2049.6	2049.6	2036.0	2008.6	2011.4	2030.5	1995.0	1992.2	2027.8	2057.8	2057.8
40°	2197.2	2205.4	2191.7	2158.9	2148.0	2150.7	2123.4	2126.1	2167.1	2202.7	2202.7
42.5°	2380.3	2385.8	2363.9	2339.3	2325.6	2317.4	2290.1	2295.6	2344.8	2391.2	2391.2
45°	2601.7	2604.4	2582.5	2552.5	2536.1	2530.6	2503.3	2516.9	2571.6	2620.8	2618.1
47.5°	2850.3	2853.1	2831.2	2801.2	2790.2	2798.4	2771.1	2771.1	2820.3	2861.3	2855.8
50°	3131.8	3137.3	3112.7	3099.0	3090.8	3112.7	3079.9	3049.8	3082.6	3123.6	3118.2
52.5°	3443.4	3457.0	3440.6	3446.1	3476.2	3503.5	3448.8	3383.2	3399.6	3427.0	3418.8
55°	3820.5	3836.9	3842.4	3861.5	3940.7	3987.2	3897.0	3787.7	3779.5	3782.2	3768.6
57.5°	4244.1	4255.0	4290.5	4334.3	4498.2	4572.0	4429.9	4241.4	4181.2	4145.7	4137.5
60°	4670.4	4689.5	4777.0	4867.2	5118.6	5252.5	5033.9	4716.9	4588.4	4522.8	4509.2
62.5°	5099.5	5137.7	5279.8	5432.9	5799.1	5998.6	5662.4	5203.3	5017.5	4935.5	4913.6
65°	5596.8	5643.3	5815.5	6009.5	6416.7	6698.2	6291.0	5706.1	5506.7	5397.3	5370.0
67.5°	6178.9	6228.1	6367.5	6583.4	6968.7	7244.7	6884.0	6219.9	5960.3	5820.9	5799.1
70°	6657.2	6700.9	6851.2	7069.8	7356.8	7671.1	7326.7	6629.8	6394.8	6296.4	6282.8
72.5°	6583.4	6640.8	6862.1	7190.1	7600.0	7955.3	7520.7	6709.1	6370.2	6233.6	6189.9
75°	5749.9	5812.7	6075.1	6668.1	7416.9	7947.1	7239.3	6181.7	5782.7	5667.9	5646.0
77.5°	3806.8	3867.0	4309.7	5244.3	6476.8	7242.0	6389.4	5178.7	4536.5	4260.5	4244.1
80°	1538.6	1615.1	2038.7	3030.7	4591.2	5629.6	4738.7	3314.9	2235.5	1803.7	1716.2
82.5°	358.0	426.3	620.4	1117.7	2350.2	3506.2	2555.2	1238.0	718.7	511.0	459.1
85°	150.3	153.0	265.1	363.5	735.1	1415.6	836.2	450.9	366.2	267.8	262.4
87.5°	57.4	60.1	128.4	153.0	235.0	267.8	284.2	232.3	215.9	133.9	128.4
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)