

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: P399668

Luminaire Tested: **ARCH-L-PA3-170-827-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399668  
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-PA3-170-827-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 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: 19797 lumens  
Efficiency: N/A  
Efficacy: 114.4 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

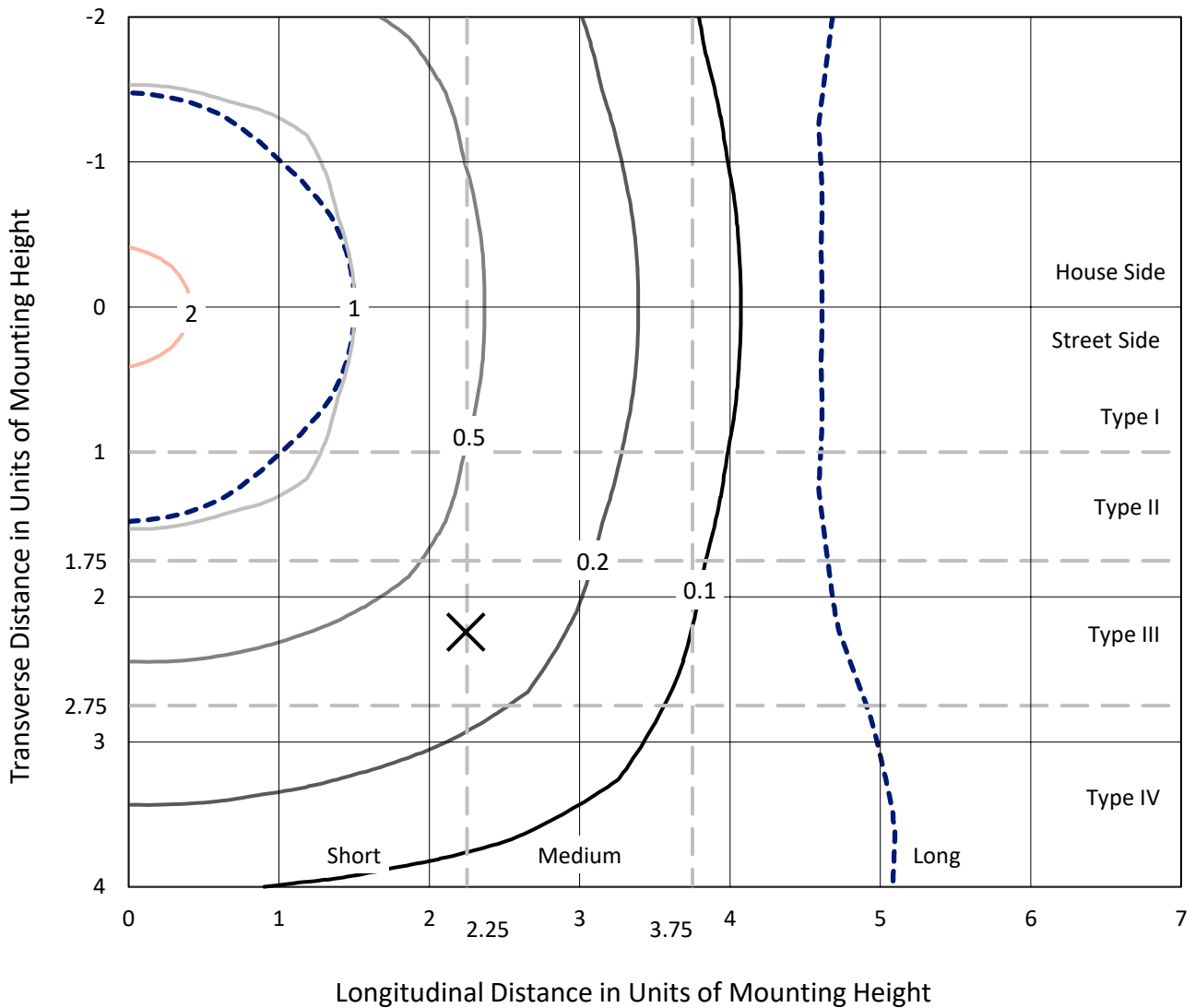
Input Watts (W): 173  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

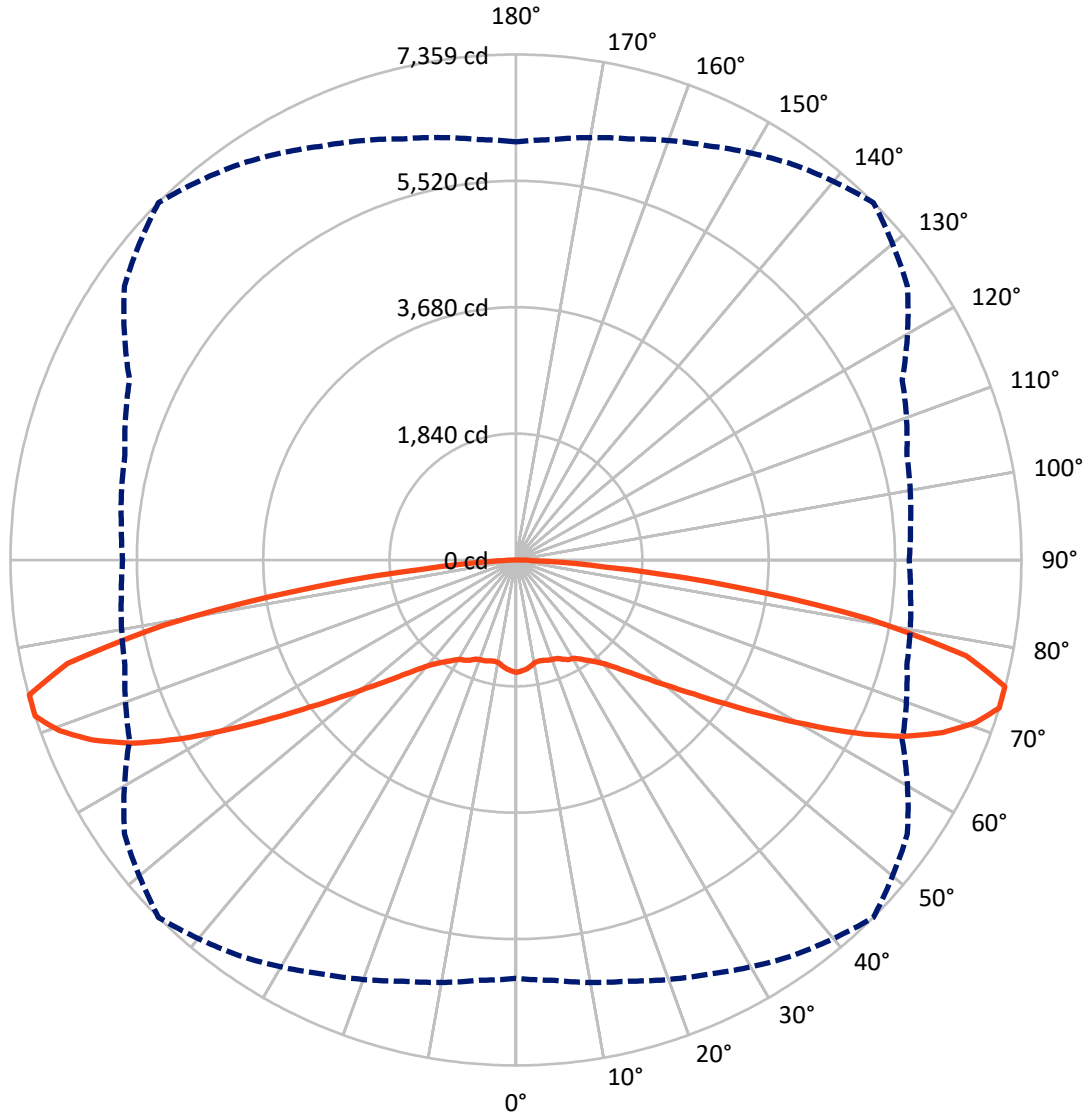
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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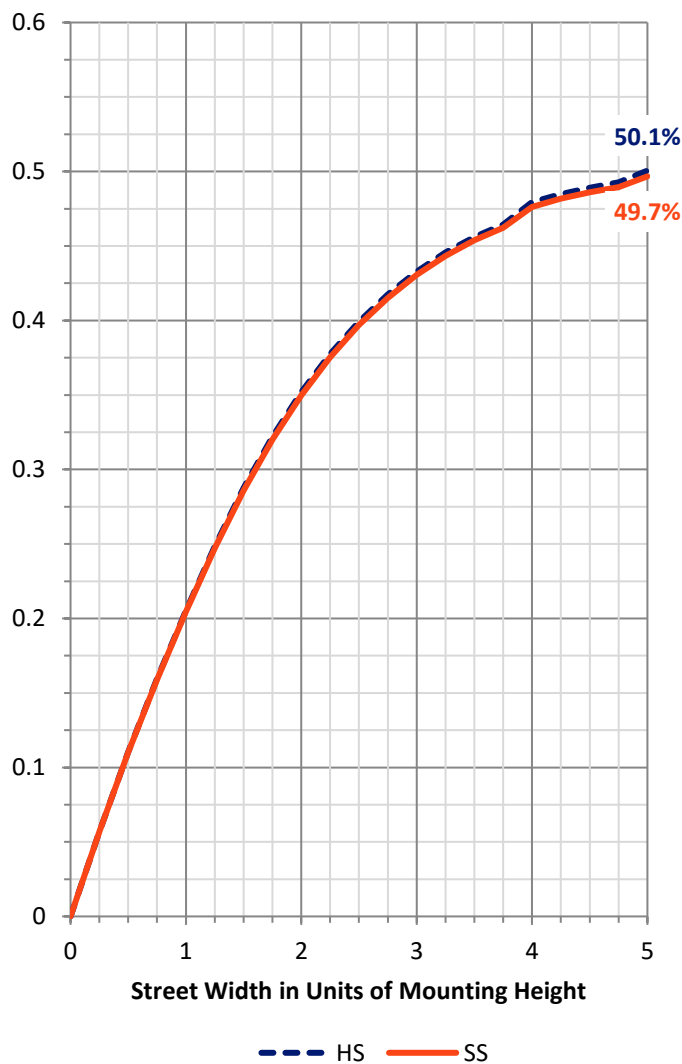
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9898.5	0.0	9898.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9898.5	0.0	9898.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19797.0	0.0	19797.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.2	0.8
10°-20°	436.1	2.2
20°-30°	740.9	3.7
30°-40°	1130.1	5.7
40°-50°	1860.8	9.4
50°-60°	3249.6	16.4
60°-70°	5448.0	27.5
70°-80°	5830.4	29.5
80°-90°	950.9	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°	19797.0	100.0
0°-180°	19797.0	100.0

**Coefficient of Utilization**



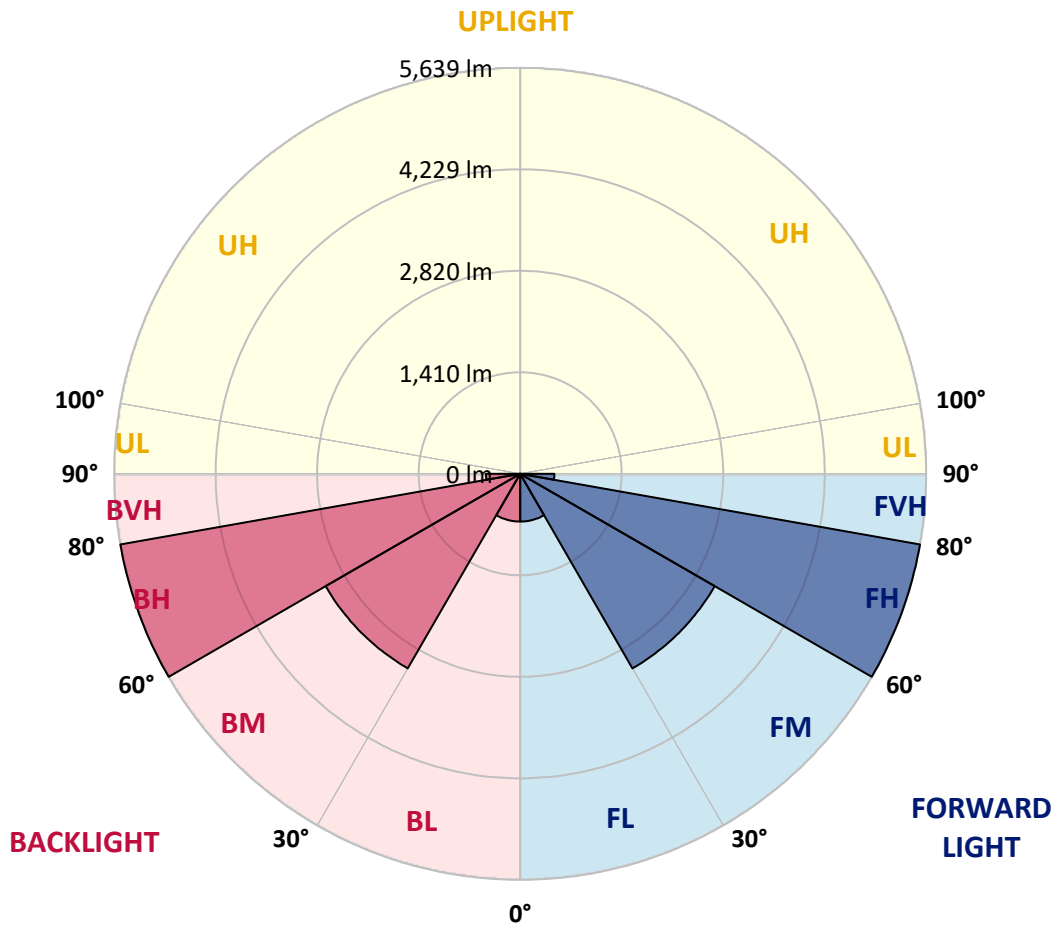
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	663.6	3.4			
FM (30°-60°)	3120.2	15.8			
FH (60°-80°)	5639.2	28.5			G3/7500
FVH (80°-90°)	475.5	2.4			G3/500
BL (0°-30°)	663.6	3.4	B2/1000		
BM (30°-60°)	3120.2	15.8	B3/5000		
BH (60°-80°)	5639.2	28.5	B5		G3/7500
BVH (80°-90°)	475.5	2.4			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°	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2	1638.2
2.5°	1628.1	1628.1	1628.1	1625.6	1620.5	1618.0	1612.9	1615.5	1615.5	1615.5	1615.5
5°	1607.9	1607.9	1605.4	1602.8	1597.8	1595.2	1590.2	1595.2	1595.2	1595.2	1595.2
7.5°	1570.0	1572.5	1572.5	1570.0	1562.4	1559.9	1552.3	1554.8	1554.8	1557.3	1554.8
10°	1549.7	1549.7	1547.2	1534.6	1521.9	1516.9	1514.3	1521.9	1529.5	1537.1	1537.1
12.5°	1549.7	1549.7	1544.7	1524.5	1506.8	1506.8	1506.8	1516.9	1532.0	1547.2	1549.7
15°	1557.3	1557.3	1547.2	1524.5	1514.3	1516.9	1516.9	1527.0	1544.7	1564.9	1567.4
17.5°	1562.4	1562.4	1549.7	1527.0	1527.0	1534.6	1529.5	1537.1	1554.8	1577.5	1580.1
20°	1570.0	1570.0	1552.3	1534.6	1534.6	1542.2	1542.2	1549.7	1564.9	1587.7	1590.2
22.5°	1585.1	1582.6	1564.9	1549.7	1549.7	1554.8	1559.9	1570.0	1582.6	1602.8	1607.9
25°	1602.8	1602.8	1587.7	1585.1	1590.2	1602.8	1600.3	1597.8	1602.8	1620.5	1628.1
27.5°	1612.9	1612.9	1602.8	1610.4	1630.6	1640.8	1628.1	1618.0	1618.0	1635.7	1638.2
30°	1645.8	1643.3	1633.2	1638.2	1655.9	1661.0	1653.4	1640.8	1648.3	1668.6	1671.1
32.5°	1701.4	1701.4	1686.3	1686.3	1698.9	1719.1	1693.8	1686.3	1696.4	1719.1	1721.7
35°	1787.4	1787.4	1767.2	1757.0	1767.2	1795.0	1757.0	1754.5	1772.2	1797.5	1800.0
37.5°	1896.1	1896.1	1883.5	1858.2	1860.7	1878.4	1845.5	1843.0	1875.9	1903.7	1903.7
40°	2032.6	2040.2	2027.6	1997.2	1987.1	1989.6	1964.4	1966.9	2004.8	2037.7	2037.7
42.5°	2202.0	2207.1	2186.8	2164.1	2151.4	2143.8	2118.6	2123.6	2169.1	2212.1	2212.1
45°	2406.8	2409.3	2389.1	2361.3	2346.1	2341.0	2315.8	2328.4	2379.0	2424.5	2421.9
47.5°	2636.8	2639.4	2619.1	2591.3	2581.2	2588.8	2563.5	2563.5	2609.0	2646.9	2641.9
50°	2897.2	2902.3	2879.5	2866.9	2859.3	2879.5	2849.2	2821.4	2851.7	2889.6	2884.6
52.5°	3185.4	3198.1	3182.9	3188.0	3215.8	3241.1	3190.5	3129.8	3145.0	3170.3	3162.7
55°	3534.3	3549.5	3554.5	3572.2	3645.6	3688.5	3605.1	3504.0	3496.4	3498.9	3486.3
57.5°	3926.2	3936.3	3969.2	4009.6	4161.3	4229.5	4098.1	3923.6	3868.0	3835.2	3827.6
60°	4320.6	4338.3	4419.2	4502.6	4735.2	4859.1	4656.8	4363.5	4244.7	4184.0	4171.4
62.5°	4717.5	4752.9	4884.3	5025.9	5364.7	5549.2	5238.3	4813.5	4641.6	4565.8	4545.6
65°	5177.6	5220.6	5379.8	5559.3	5936.0	6196.4	5819.7	5278.7	5094.2	4993.0	4967.8
67.5°	5716.1	5761.6	5890.5	6090.2	6446.7	6702.1	6368.3	5754.0	5513.8	5384.9	5364.7
70°	6158.5	6199.0	6338.0	6540.3	6805.7	7096.4	6777.9	6133.2	5915.8	5824.8	5812.2
72.5°	6090.2	6143.3	6348.1	6651.5	7030.7	7359.4	6957.4	6206.5	5893.1	5766.6	5726.2
75°	5319.2	5377.3	5620.0	6168.6	6861.3	7351.8	6697.0	5718.6	5349.5	5243.3	5223.1
77.5°	3521.7	3577.3	3986.9	4851.5	5991.7	6699.5	5910.8	4790.8	4196.7	3941.3	3926.2
80°	1423.3	1494.1	1886.0	2803.7	4247.2	5207.9	4383.8	3066.6	2068.0	1668.6	1587.7
82.5°	331.2	394.4	573.9	1034.0	2174.2	3243.6	2363.8	1145.2	664.9	472.8	424.7
85°	139.0	141.6	245.2	336.2	680.1	1309.6	773.6	417.1	338.8	247.8	242.7
87.5°	53.1	55.6	118.8	141.6	217.4	247.8	262.9	214.9	199.7	123.9	118.8
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)