

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: P399407

Luminaire Tested: **ARCH-L-PA3-140-727-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399407  
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-PA3-140-727-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19379 lumens  
Efficiency: N/A  
Efficacy: 135.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

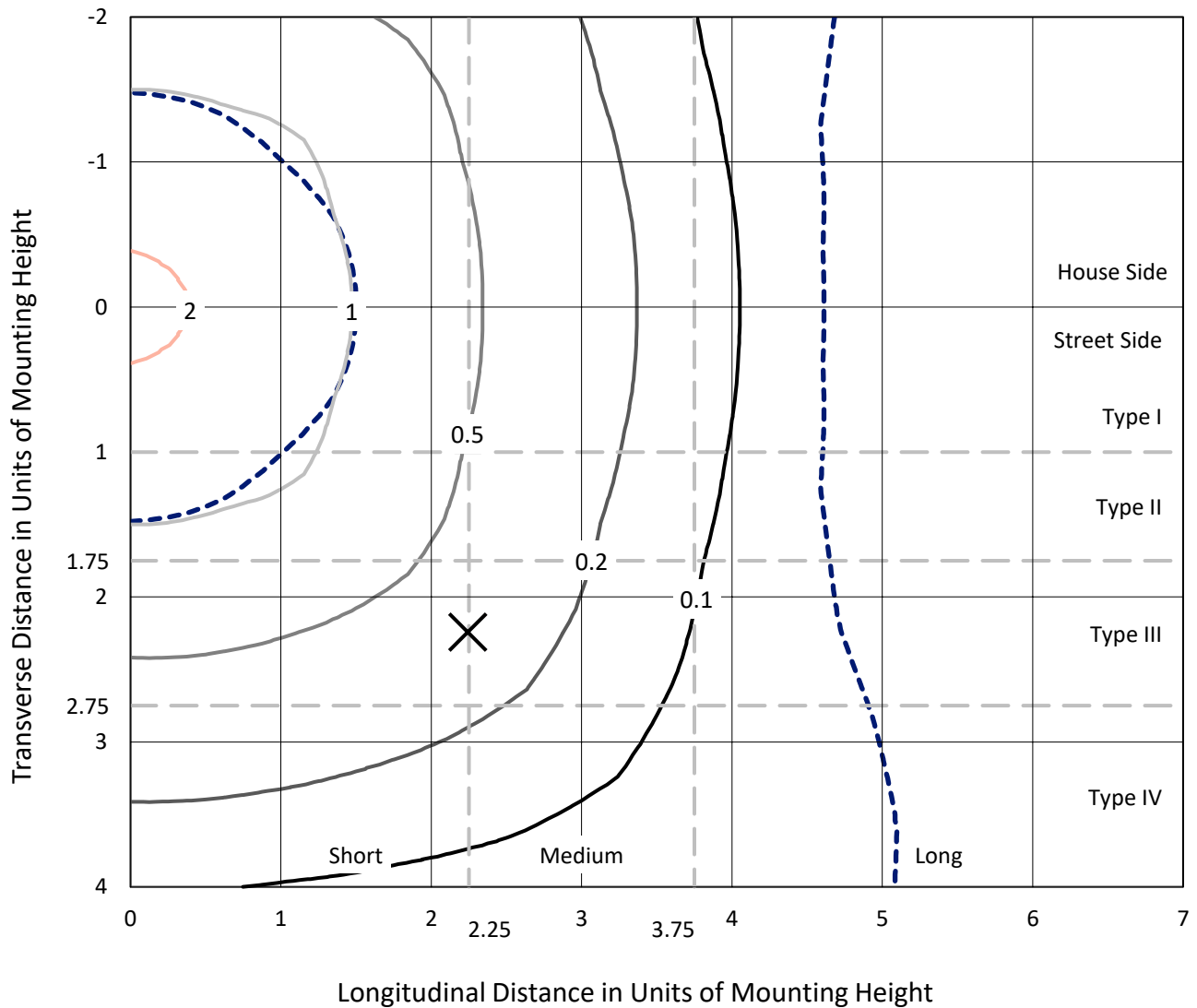
Input Watts (W): 143  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

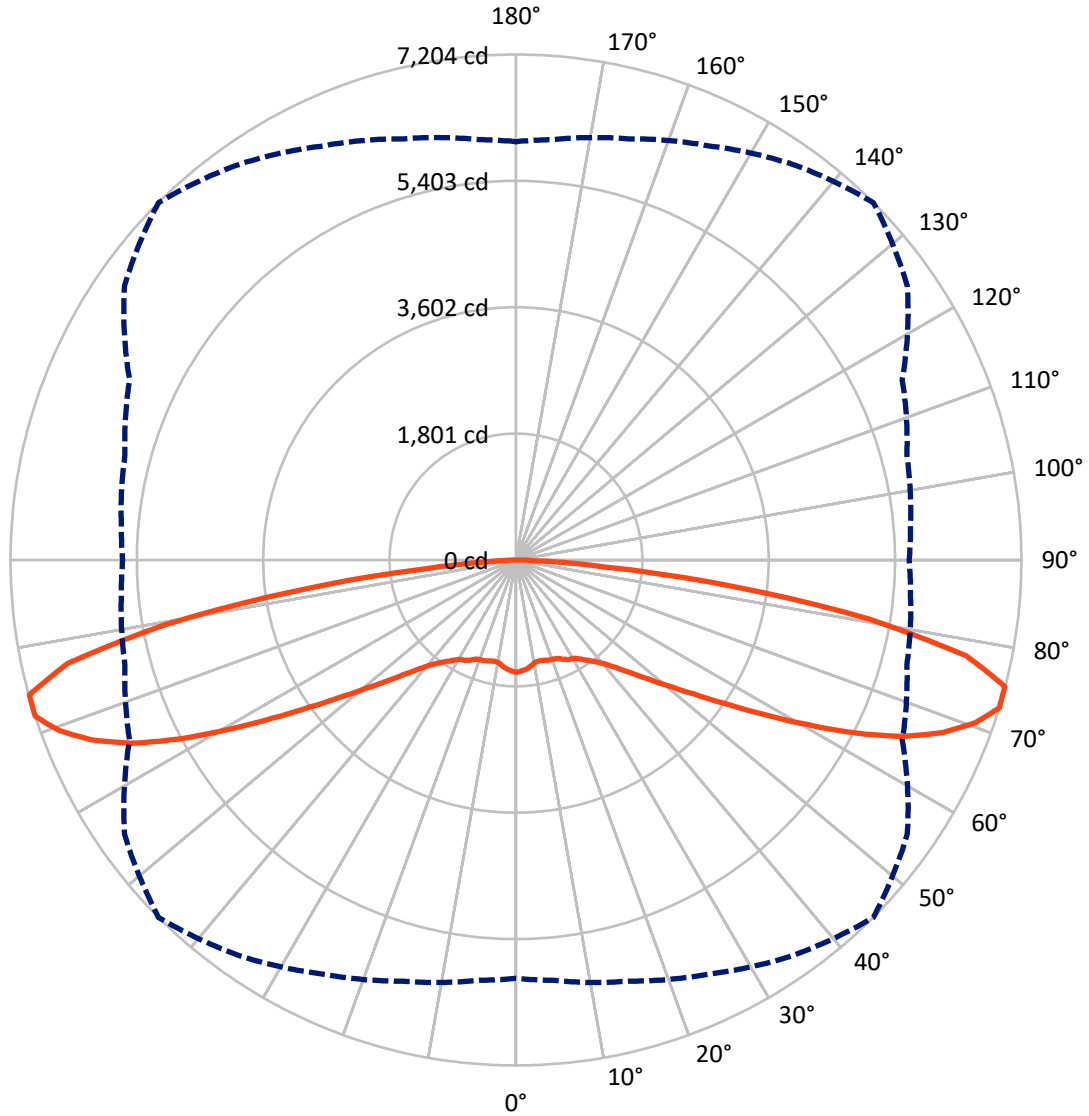
✕ Max cd  
 - - - 1/2 Max cd



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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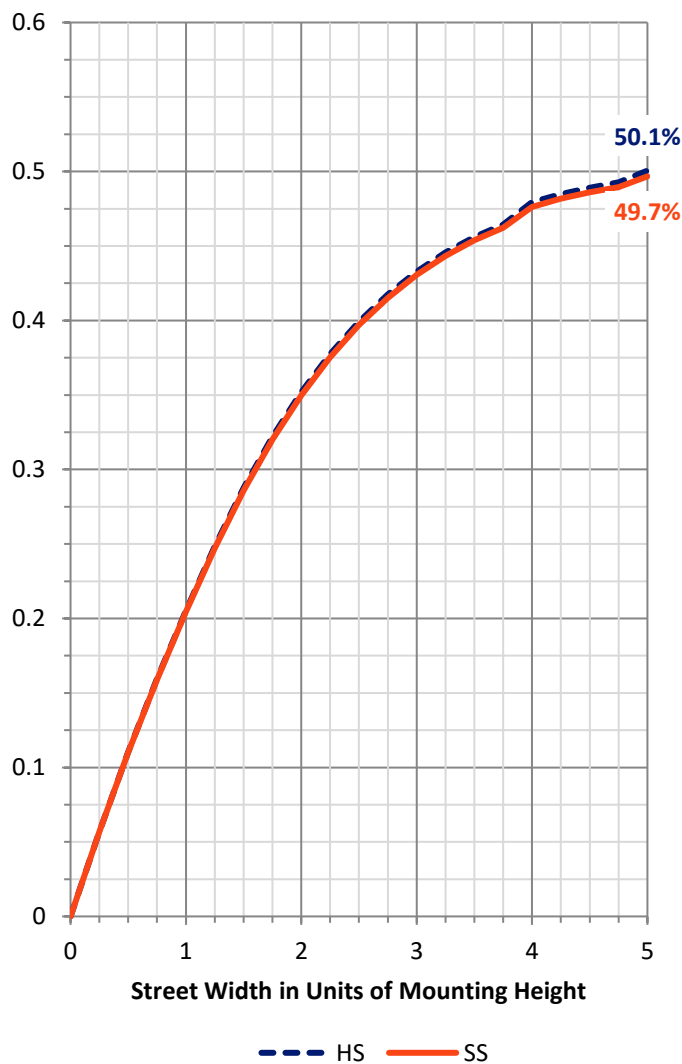
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9689.5	0.0	9689.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9689.5	0.0	9689.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19379.0	0.0	19379.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.0	0.8
10°-20°	426.8	2.2
20°-30°	725.3	3.7
30°-40°	1106.2	5.7
40°-50°	1821.5	9.4
50°-60°	3180.9	16.4
60°-70°	5332.9	27.5
70°-80°	5707.3	29.5
80°-90°	930.9	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°	19379.0	100.0
0°-180°	19379.0	100.0

**Coefficient of Utilization**



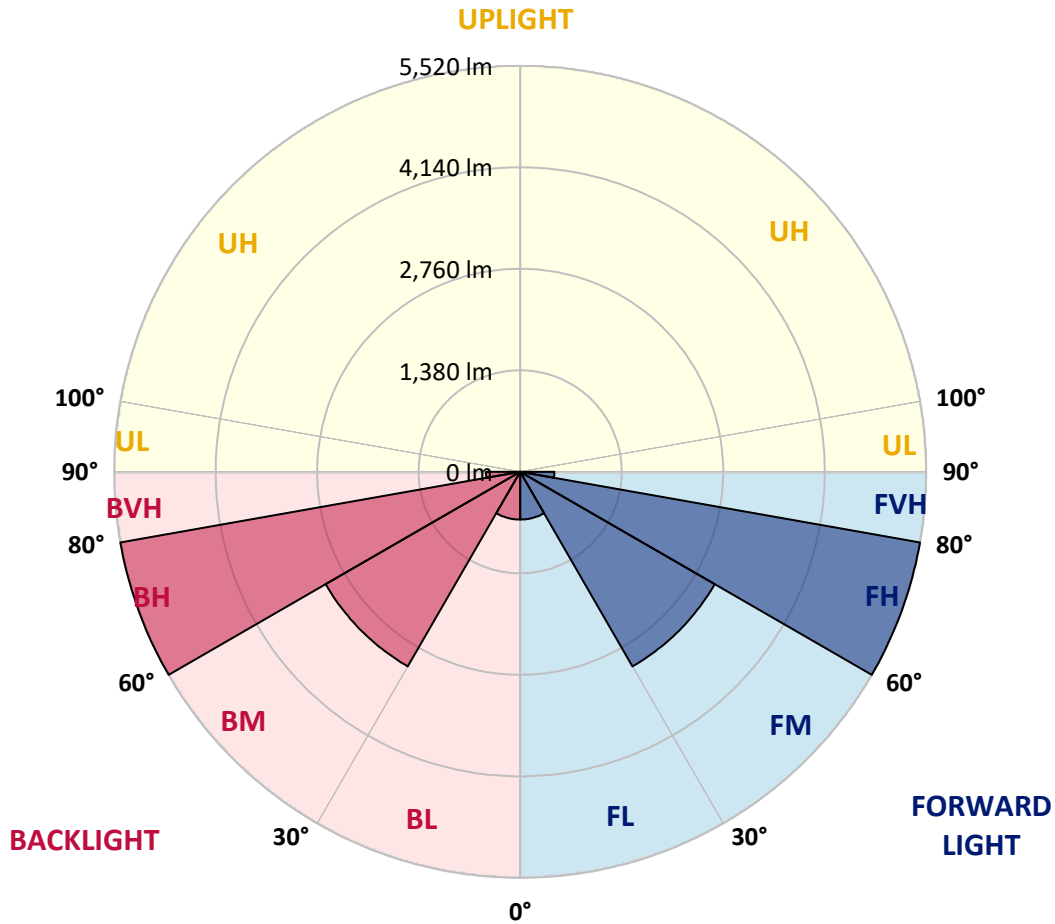
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.6	3.4			
FM (30°-60°)	3054.4	15.8			
FH (60°-80°)	5520.1	28.5			G3/7500
FVH (80°-90°)	465.4	2.4			G3/500
BL (0°-30°)	649.6	3.4	B2/1000		
BM (30°-60°)	3054.4	15.8	B3/5000		
BH (60°-80°)	5520.1	28.5	B5		G3/7500
BVH (80°-90°)	465.4	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°	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6	1603.6
2.5°	1593.7	1593.7	1593.7	1591.3	1586.3	1583.8	1578.9	1581.4	1581.4	1581.4	1581.4
5°	1573.9	1573.9	1571.5	1569.0	1564.0	1561.6	1556.6	1561.6	1561.6	1561.6	1561.6
7.5°	1536.8	1539.3	1539.3	1536.8	1529.4	1526.9	1519.5	1522.0	1522.0	1524.4	1522.0
10°	1517.0	1517.0	1514.5	1502.2	1489.8	1484.8	1482.4	1489.8	1497.2	1504.6	1504.6
12.5°	1517.0	1517.0	1512.1	1492.3	1474.9	1474.9	1474.9	1484.8	1499.7	1514.5	1517.0
15°	1524.4	1524.4	1514.5	1492.3	1482.4	1484.8	1484.8	1494.7	1512.1	1531.9	1534.3
17.5°	1529.4	1529.4	1517.0	1494.7	1494.7	1502.2	1497.2	1504.6	1522.0	1544.2	1546.7
20°	1536.8	1536.8	1519.5	1502.2	1502.2	1509.6	1509.6	1517.0	1531.9	1554.1	1556.6
22.5°	1551.7	1549.2	1531.9	1517.0	1517.0	1522.0	1526.9	1536.8	1549.2	1569.0	1573.9
25°	1569.0	1569.0	1554.1	1551.7	1556.6	1569.0	1566.5	1564.0	1569.0	1586.3	1593.7
27.5°	1578.9	1578.9	1569.0	1576.4	1596.2	1606.1	1593.7	1583.8	1583.8	1601.2	1603.6
30°	1611.1	1608.6	1598.7	1603.6	1621.0	1625.9	1618.5	1606.1	1613.5	1633.3	1635.8
32.5°	1665.5	1665.5	1650.7	1650.7	1663.0	1682.8	1658.1	1650.7	1660.6	1682.8	1685.3
35°	1749.6	1749.6	1729.8	1719.9	1729.8	1757.1	1719.9	1717.5	1734.8	1759.5	1762.0
37.5°	1856.1	1856.1	1843.7	1818.9	1821.4	1838.7	1806.6	1804.1	1836.3	1863.5	1863.5
40°	1989.7	1997.1	1984.7	1955.0	1945.1	1947.6	1922.9	1925.4	1962.5	1994.6	1994.6
42.5°	2155.5	2160.5	2140.7	2118.4	2106.0	2098.6	2073.8	2078.8	2123.3	2165.4	2165.4
45°	2356.0	2358.4	2338.6	2311.4	2296.6	2291.6	2266.9	2279.2	2328.7	2373.3	2370.8
47.5°	2581.2	2583.6	2563.8	2536.6	2526.7	2534.1	2509.4	2509.4	2553.9	2591.1	2586.1
50°	2836.1	2841.0	2818.7	2806.4	2798.9	2818.7	2789.0	2761.8	2791.5	2828.6	2823.7
52.5°	3118.2	3130.6	3115.7	3120.7	3147.9	3172.6	3123.1	3063.7	3078.6	3103.3	3095.9
55°	3459.7	3474.5	3479.5	3496.8	3568.6	3610.7	3529.0	3430.0	3422.6	3425.0	3412.7
57.5°	3843.3	3853.2	3885.3	3924.9	4073.4	4140.2	4011.6	3840.8	3786.4	3754.2	3746.8
60°	4229.3	4246.7	4325.9	4407.5	4635.2	4756.5	4558.5	4271.4	4155.1	4095.7	4083.3
62.5°	4617.9	4652.5	4781.2	4919.8	5251.4	5432.1	5127.7	4711.9	4543.6	4469.4	4449.6
65°	5068.3	5110.3	5266.3	5442.0	5810.7	6065.6	5696.9	5167.3	4986.6	4887.6	4862.9
67.5°	5595.4	5639.9	5766.2	5961.7	6310.6	6560.5	6233.9	5632.5	5397.4	5271.2	5251.4
70°	6028.5	6068.1	6204.2	6402.2	6662.0	6946.6	6634.8	6003.7	5790.9	5701.8	5689.4
72.5°	5961.7	6013.6	6214.1	6511.1	6882.3	7204.0	6810.5	6075.5	5768.6	5644.9	5605.3
75°	5206.9	5263.8	5501.4	6038.4	6716.5	7196.6	6555.6	5597.9	5236.6	5132.6	5112.8
77.5°	3447.3	3501.8	3902.7	4749.0	5865.1	6558.1	5786.0	4689.6	4108.1	3858.1	3843.3
80°	1393.3	1462.6	1846.2	2744.5	4157.6	5098.0	4291.2	3001.9	2024.3	1633.3	1554.1
82.5°	324.2	386.1	561.8	1012.2	2128.3	3175.1	2313.9	1121.1	650.9	462.8	415.8
85°	136.1	138.6	240.1	329.1	665.7	1281.9	757.3	408.3	331.6	242.5	237.6
87.5°	52.0	54.4	116.3	138.6	212.8	242.5	257.4	210.4	195.5	121.3	116.3
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)