

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: P399335

Luminaire Tested: **ARCH-L-PA3-130-727-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399335  
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-PA3-130-727-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18215 lumens  
Efficiency: N/A  
Efficacy: 137.0 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

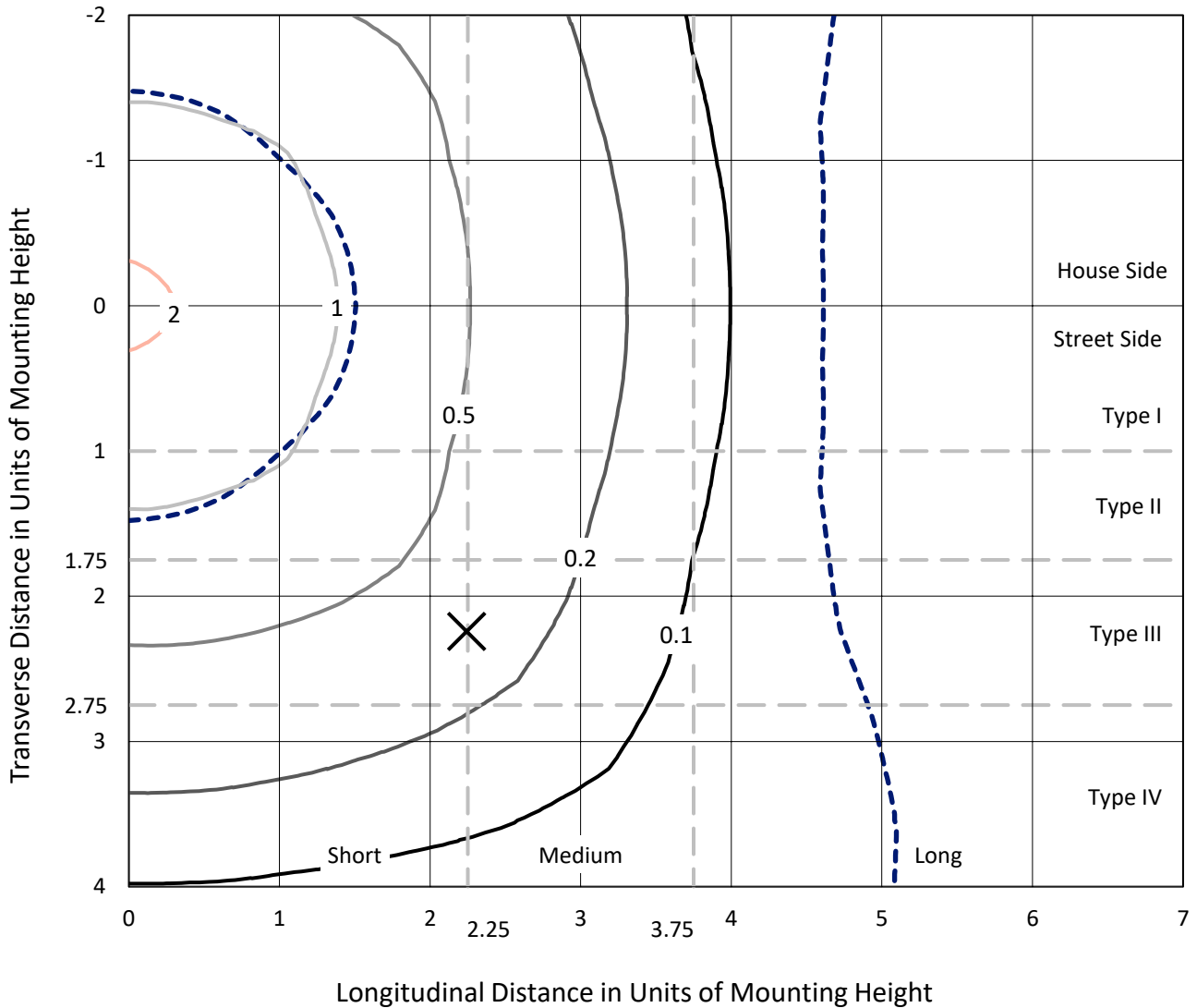
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

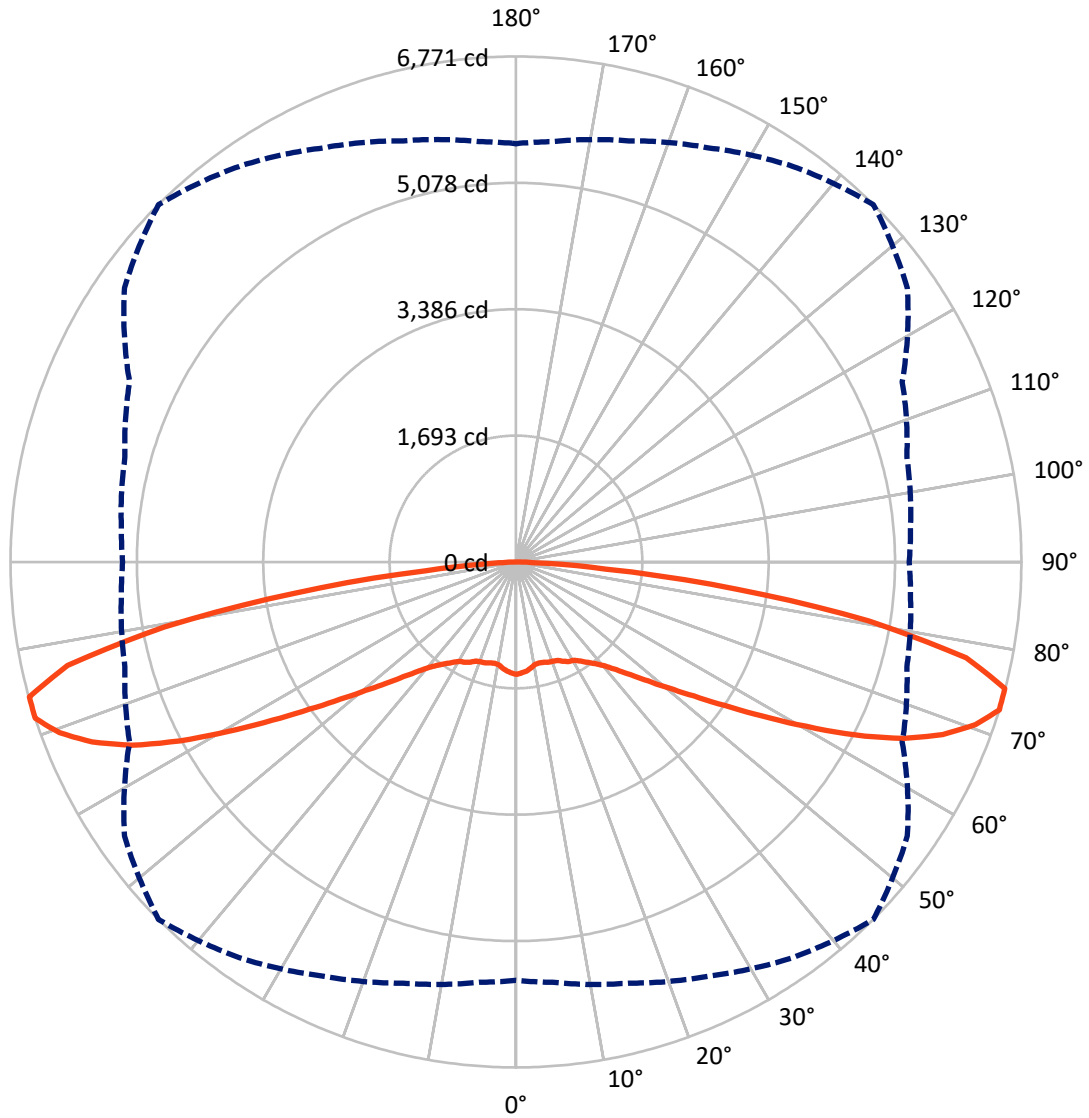
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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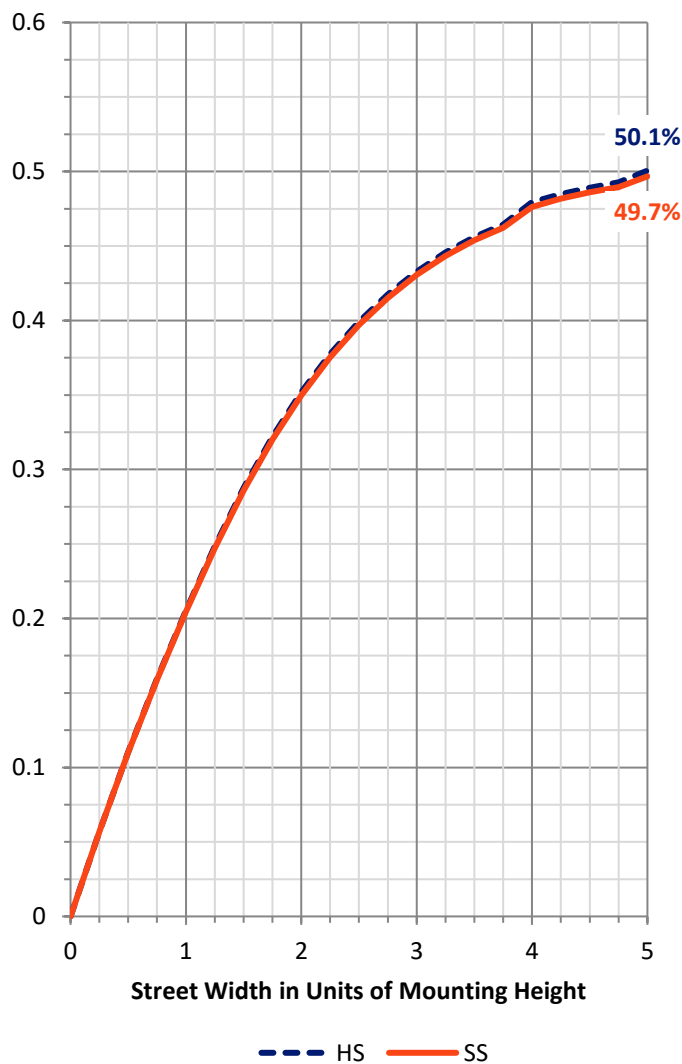
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9107.5	0.0	9107.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9107.5	0.0	9107.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18215.0	0.0	18215.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.2	0.8
10°-20°	401.2	2.2
20°-30°	681.7	3.7
30°-40°	1039.8	5.7
40°-50°	1712.1	9.4
50°-60°	2989.9	16.4
60°-70°	5012.6	27.5
70°-80°	5364.5	29.5
80°-90°	874.9	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°	18215.0	100.0
0°-180°	18215.0	100.0

**Coefficient of Utilization**

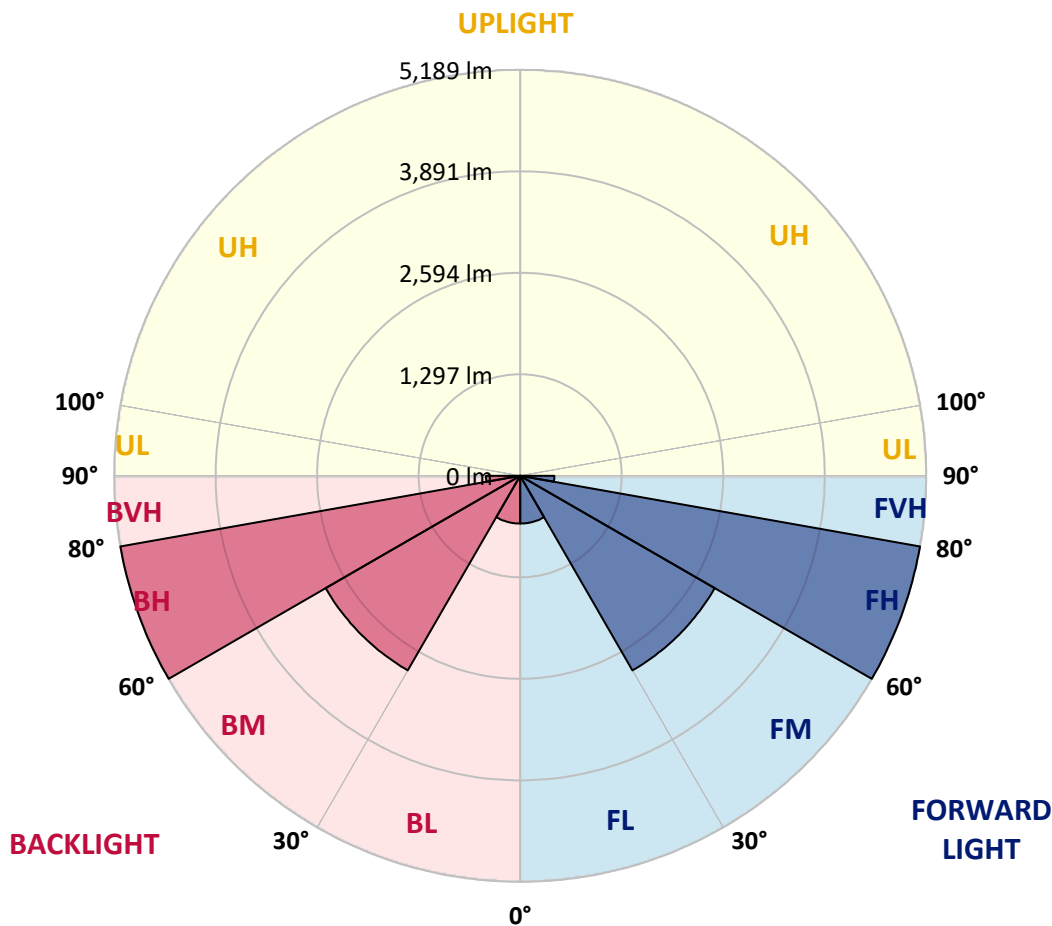


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.6	3.4			
FM (30°-60°)	2870.9	15.8			
FH (60°-80°)	5188.6	28.5			G3/7500
FVH (80°-90°)	437.5	2.4			G3/500
BL (0°-30°)	610.6	3.4	B2/1000		
BM (30°-60°)	2870.9	15.8	B3/5000		
BH (60°-80°)	5188.6	28.5	B5		G3/7500
BVH (80°-90°)	437.5	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°	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3
2.5°	1498.0	1498.0	1498.0	1495.7	1491.0	1488.7	1484.1	1486.4	1486.4	1486.4	1486.4
5°	1479.4	1479.4	1477.1	1474.7	1470.1	1467.8	1463.1	1467.8	1467.8	1467.8	1467.8
7.5°	1444.5	1446.8	1446.8	1444.5	1437.5	1435.2	1428.2	1430.6	1430.6	1432.9	1430.6
10°	1425.9	1425.9	1423.6	1411.9	1400.3	1395.7	1393.3	1400.3	1407.3	1414.3	1414.3
12.5°	1425.9	1425.9	1421.2	1402.6	1386.4	1386.4	1386.4	1395.7	1409.6	1423.6	1425.9
15°	1432.9	1432.9	1423.6	1402.6	1393.3	1395.7	1395.7	1405.0	1421.2	1439.9	1442.2
17.5°	1437.5	1437.5	1425.9	1405.0	1405.0	1411.9	1407.3	1414.3	1430.6	1451.5	1453.8
20°	1444.5	1444.5	1428.2	1411.9	1411.9	1418.9	1418.9	1425.9	1439.9	1460.8	1463.1
22.5°	1458.5	1456.1	1439.9	1425.9	1425.9	1430.6	1435.2	1444.5	1456.1	1474.7	1479.4
25°	1474.7	1474.7	1460.8	1458.5	1463.1	1474.7	1472.4	1470.1	1474.7	1491.0	1498.0
27.5°	1484.1	1484.1	1474.7	1481.7	1500.3	1509.6	1498.0	1488.7	1488.7	1505.0	1507.3
30°	1514.3	1512.0	1502.7	1507.3	1523.6	1528.2	1521.3	1509.6	1516.6	1535.2	1537.6
32.5°	1565.5	1565.5	1551.5	1551.5	1563.1	1581.7	1558.5	1551.5	1560.8	1581.7	1584.1
35°	1644.6	1644.6	1625.9	1616.6	1625.9	1651.5	1616.6	1614.3	1630.6	1653.9	1656.2
37.5°	1744.6	1744.6	1732.9	1709.7	1712.0	1728.3	1698.1	1695.7	1726.0	1751.6	1751.6
40°	1870.2	1877.2	1865.5	1837.6	1828.3	1830.6	1807.4	1809.7	1844.6	1874.8	1874.8
42.5°	2026.0	2030.7	2012.1	1991.1	1979.5	1972.5	1949.3	1953.9	1995.8	2035.3	2035.3
45°	2214.4	2216.8	2198.2	2172.6	2158.6	2154.0	2130.7	2142.3	2188.9	2230.7	2228.4
47.5°	2426.1	2428.4	2409.8	2384.3	2374.9	2381.9	2358.7	2358.7	2400.5	2435.4	2430.8
50°	2665.7	2670.4	2649.4	2637.8	2630.8	2649.4	2621.5	2595.9	2623.8	2658.7	2654.1
52.5°	2930.9	2942.5	2928.6	2933.2	2958.8	2982.1	2935.5	2879.7	2893.7	2916.9	2909.9
55°	3251.9	3265.8	3270.5	3286.8	3354.2	3393.8	3317.0	3224.0	3217.0	3219.3	3207.7
57.5°	3612.4	3621.7	3652.0	3689.2	3828.8	3891.6	3770.6	3610.1	3558.9	3528.7	3521.7
60°	3975.3	3991.6	4066.0	4142.8	4356.8	4470.8	4284.7	4014.8	3905.5	3849.7	3838.1
62.5°	4340.5	4373.1	4494.0	4624.3	4936.0	5105.8	4819.7	4428.9	4270.7	4200.9	4182.3
65°	4763.8	4803.4	4949.9	5115.1	5461.7	5701.3	5354.7	4856.9	4687.1	4594.0	4570.8
67.5°	5259.3	5301.2	5419.8	5603.6	5931.5	6166.5	5859.4	5294.2	5073.2	4954.6	4936.0
70°	5666.4	5703.6	5831.5	6017.6	6261.9	6529.4	6236.3	5643.1	5443.1	5359.3	5347.7
72.5°	5603.6	5652.4	5840.8	6120.0	6468.9	6771.3	6401.4	5710.6	5422.1	5305.8	5268.6
75°	4894.1	4947.6	5170.9	5675.7	6313.0	6764.3	6161.8	5261.6	4922.0	4824.3	4805.7
77.5°	3240.3	3291.4	3668.3	4463.8	5512.9	6164.2	5438.4	4408.0	3861.3	3626.4	3612.4
80°	1309.6	1374.7	1735.3	2579.6	3907.8	4791.8	4033.5	2821.6	1902.7	1535.2	1460.8
82.5°	304.7	362.9	528.0	951.4	2000.4	2984.4	2174.9	1053.7	611.8	435.0	390.8
85°	127.9	130.3	225.6	309.4	625.7	1204.9	711.8	383.8	311.7	228.0	223.3
87.5°	48.8	51.2	109.3	130.3	200.0	228.0	241.9	197.7	183.8	114.0	109.3
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)