

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: P399218

Luminaire Tested: **ARCH-L-PA3-110-750-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399218  
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-PA3-110-750-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18854 lumens  
Efficiency: N/A  
Efficacy: 166.8 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

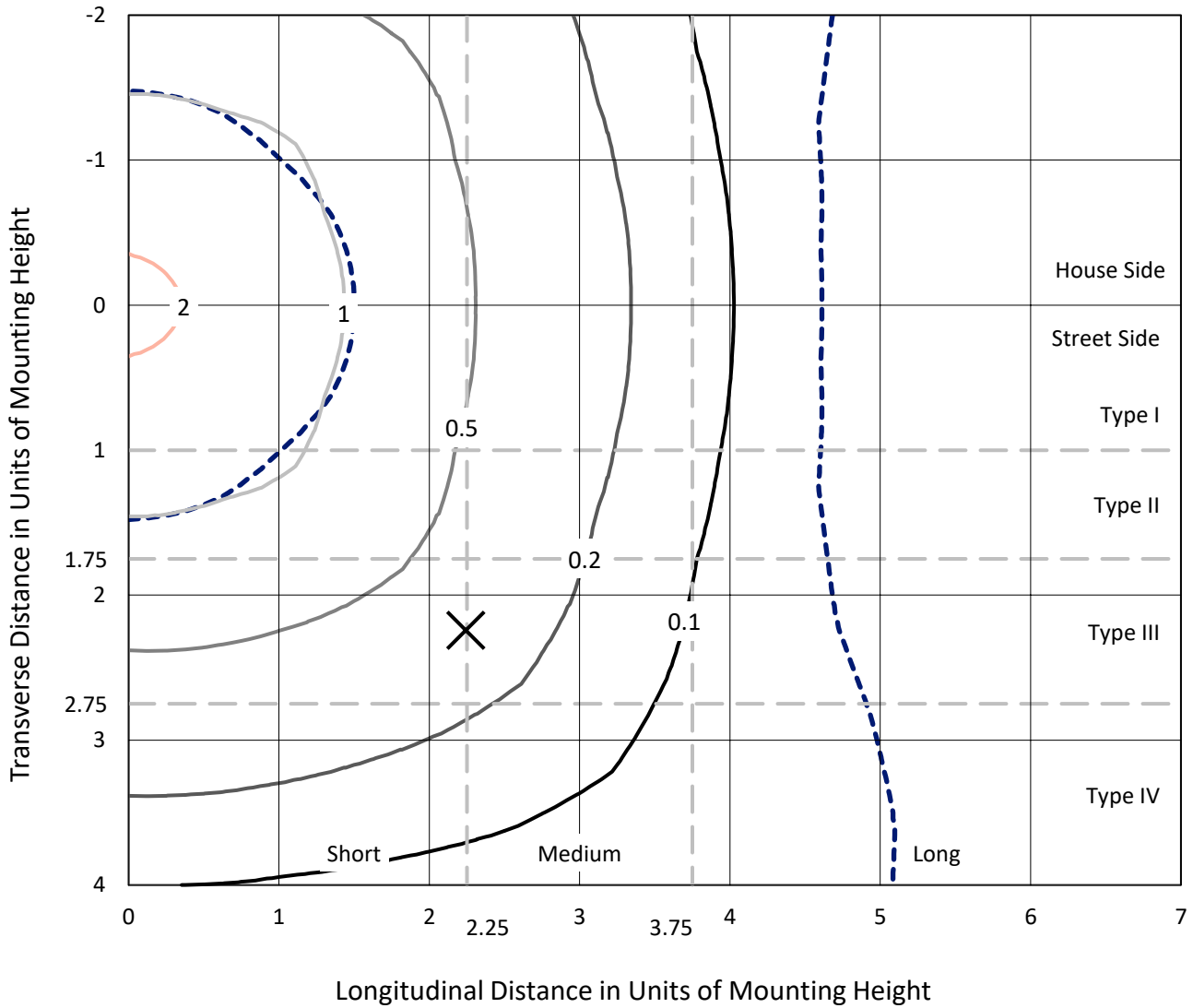
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

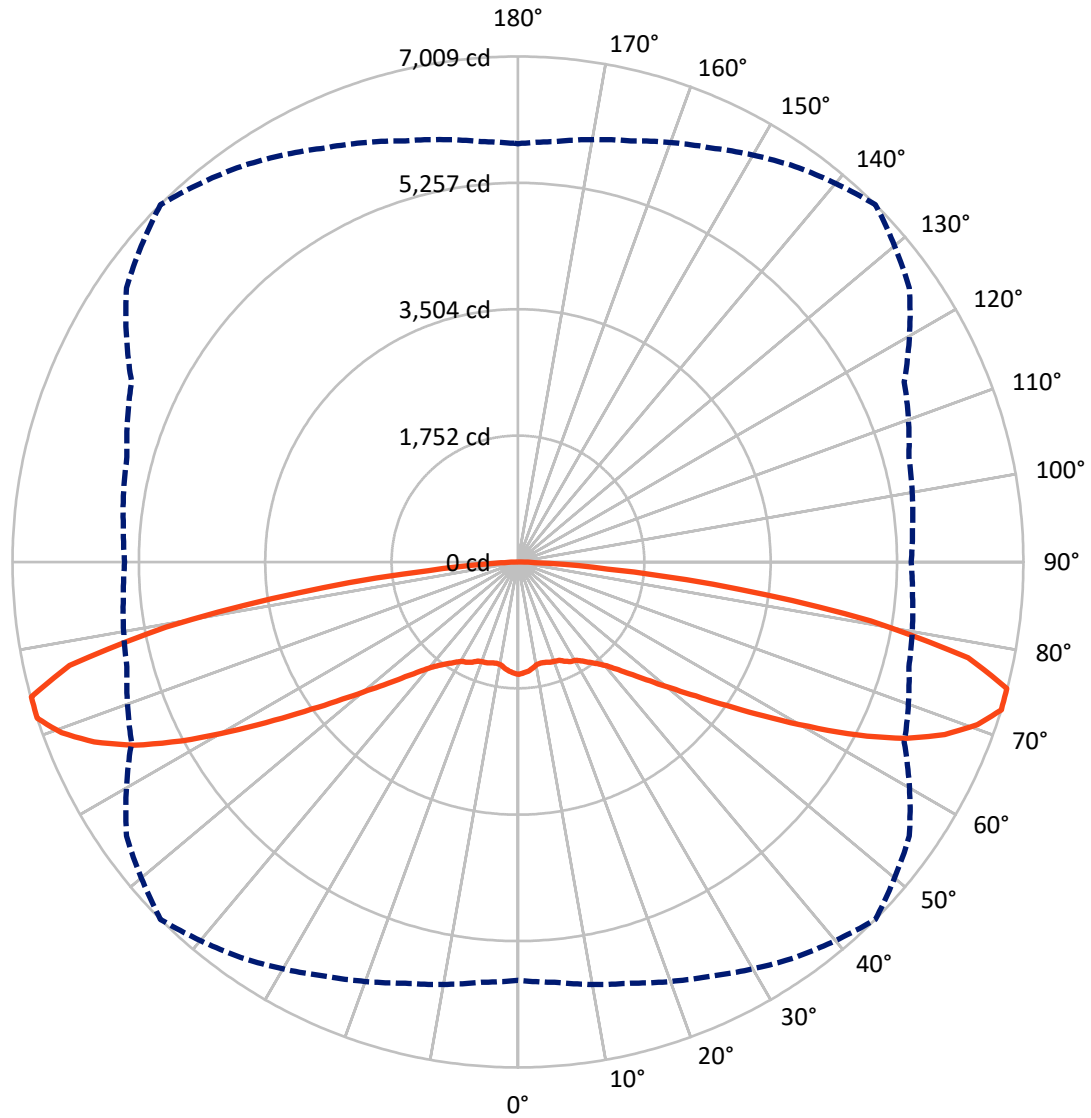
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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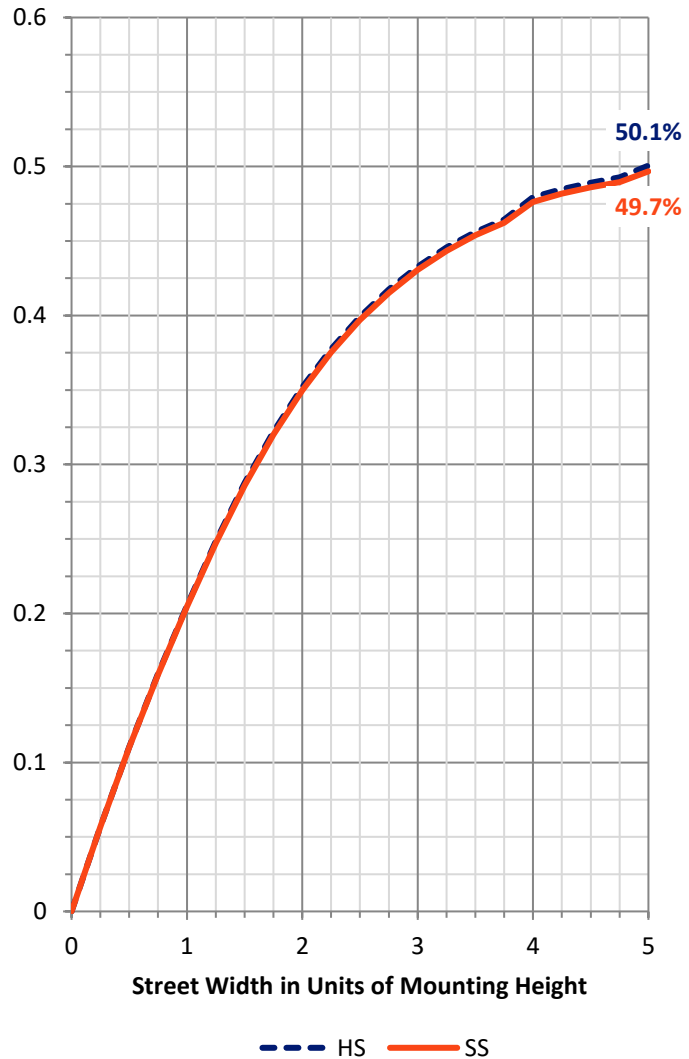
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9427.0	0.0	9427.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9427.0	0.0	9427.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18854.0	0.0	18854.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.1	0.8
10°-20°	415.3	2.2
20°-30°	705.6	3.7
30°-40°	1076.3	5.7
40°-50°	1772.2	9.4
50°-60°	3094.8	16.4
60°-70°	5188.4	27.5
70°-80°	5552.7	29.5
80°-90°	905.6	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°	18854.0	100.0
0°-180°	18854.0	100.0



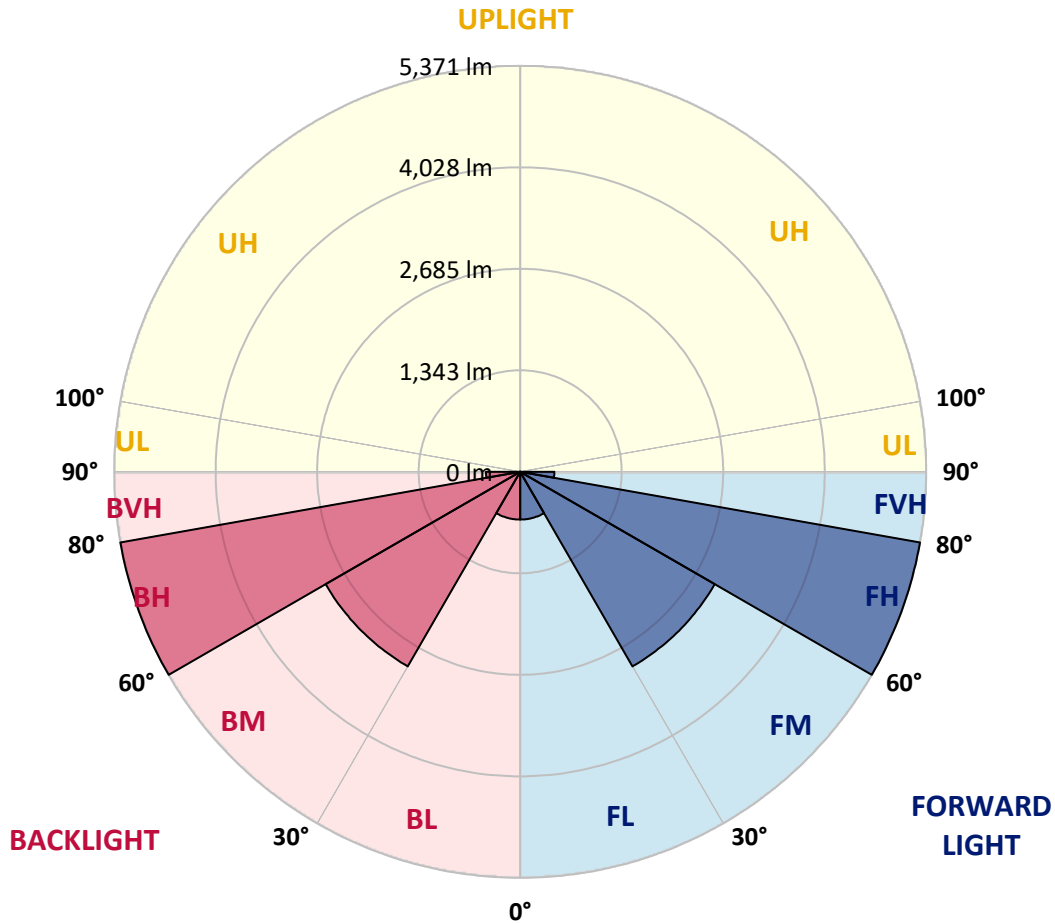
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	632.0	3.4			
FM (30°-60°)	2971.6	15.8			
FH (60°-80°)	5370.6	28.5			G3/7500
FVH (80°-90°)	452.8	2.4			G3/500
BL (0°-30°)	632.0	3.4	B2/1000		
BM (30°-60°)	2971.6	15.8	B3/5000		
BH (60°-80°)	5370.6	28.5	B5		G3/7500
BVH (80°-90°)	452.8	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°	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2	1560.2
2.5°	1550.6	1550.6	1550.6	1548.2	1543.3	1540.9	1536.1	1538.5	1538.5	1538.5	1538.5
5°	1531.3	1531.3	1528.9	1526.5	1521.7	1519.3	1514.4	1519.3	1519.3	1519.3	1519.3
7.5°	1495.2	1497.6	1497.6	1495.2	1488.0	1485.6	1478.3	1480.7	1480.7	1483.1	1480.7
10°	1475.9	1475.9	1473.5	1461.5	1449.4	1444.6	1442.2	1449.4	1456.7	1463.9	1463.9
12.5°	1475.9	1475.9	1471.1	1451.8	1435.0	1435.0	1435.0	1444.6	1459.1	1473.5	1475.9
15°	1483.1	1483.1	1473.5	1451.8	1442.2	1444.6	1444.6	1454.3	1471.1	1490.4	1492.8
17.5°	1488.0	1488.0	1475.9	1454.3	1454.3	1461.5	1456.7	1463.9	1480.7	1502.4	1504.8
20°	1495.2	1495.2	1478.3	1461.5	1461.5	1468.7	1468.7	1475.9	1490.4	1512.0	1514.4
22.5°	1509.6	1507.2	1490.4	1475.9	1475.9	1480.7	1485.6	1495.2	1507.2	1526.5	1531.3
25°	1526.5	1526.5	1512.0	1509.6	1514.4	1526.5	1524.1	1521.7	1526.5	1543.3	1550.6
27.5°	1536.1	1536.1	1526.5	1533.7	1553.0	1562.6	1550.6	1540.9	1540.9	1557.8	1560.2
30°	1567.4	1565.0	1555.4	1560.2	1577.0	1581.9	1574.6	1562.6	1569.8	1589.1	1591.5
32.5°	1620.4	1620.4	1605.9	1605.9	1618.0	1637.2	1613.2	1605.9	1615.6	1637.2	1639.6
35°	1702.2	1702.2	1683.0	1673.4	1683.0	1709.5	1673.4	1670.9	1687.8	1711.9	1714.3
37.5°	1805.8	1805.8	1793.7	1769.7	1772.1	1788.9	1757.6	1755.2	1786.5	1813.0	1813.0
40°	1935.8	1943.0	1931.0	1902.1	1892.5	1894.9	1870.8	1873.2	1909.3	1940.6	1940.6
42.5°	2097.1	2101.9	2082.7	2061.0	2049.0	2041.7	2017.7	2022.5	2065.8	2106.7	2106.7
45°	2292.1	2294.5	2275.3	2248.8	2234.3	2229.5	2205.5	2217.5	2265.6	2309.0	2306.6
47.5°	2511.2	2513.6	2494.4	2467.9	2458.3	2465.5	2441.4	2441.4	2484.7	2520.9	2516.0
50°	2759.2	2764.0	2742.4	2730.3	2723.1	2742.4	2713.5	2687.0	2715.9	2752.0	2747.2
52.5°	3033.7	3045.7	3031.3	3036.1	3062.6	3086.7	3038.5	2980.7	2995.2	3019.3	3012.0
55°	3366.0	3380.4	3385.2	3402.1	3471.9	3512.8	3433.4	3337.1	3329.8	3332.3	3320.2
57.5°	3739.2	3748.8	3780.1	3818.6	3963.1	4028.1	3902.9	3736.8	3683.8	3652.5	3645.3
60°	4114.8	4131.6	4208.7	4288.1	4509.6	4627.6	4435.0	4155.7	4042.5	3984.7	3972.7
62.5°	4492.8	4526.5	4651.7	4786.5	5109.1	5284.9	4988.8	4584.3	4420.5	4348.3	4329.0
65°	4931.0	4971.9	5123.6	5294.5	5653.3	5901.3	5542.5	5027.3	4851.5	4755.2	4731.1
67.5°	5443.8	5487.1	5609.9	5800.1	6139.6	6382.8	6065.0	5479.9	5251.2	5128.4	5109.1
70°	5865.2	5903.7	6036.1	6228.7	6481.5	6758.4	6455.0	5841.1	5634.0	5547.3	5535.3
72.5°	5800.1	5850.7	6045.7	6334.7	6695.8	7008.8	6626.0	5910.9	5612.3	5492.0	5453.4
75°	5065.8	5121.2	5352.3	5874.8	6534.5	7001.6	6378.0	5446.2	5094.7	4993.6	4974.3
77.5°	3353.9	3406.9	3796.9	4620.4	5706.2	6380.4	5629.2	4562.6	3996.8	3753.6	3739.2
80°	1355.5	1423.0	1796.1	2670.1	4044.9	4959.9	4175.0	2920.5	1969.5	1589.1	1512.0
82.5°	315.4	375.6	546.5	984.7	2070.6	3089.1	2251.2	1090.7	633.2	450.2	404.5
85°	132.4	134.8	233.5	320.2	647.7	1247.2	736.8	397.3	322.6	236.0	231.1
87.5°	50.6	53.0	113.2	134.8	207.1	236.0	250.4	204.7	190.2	118.0	113.2
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)