

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: P399533

Luminaire Tested: **ARCH-L-PA3-150-830-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399533  
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-PA3-150-830-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19509 lumens  
Efficiency: N/A  
Efficacy: 127.5 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

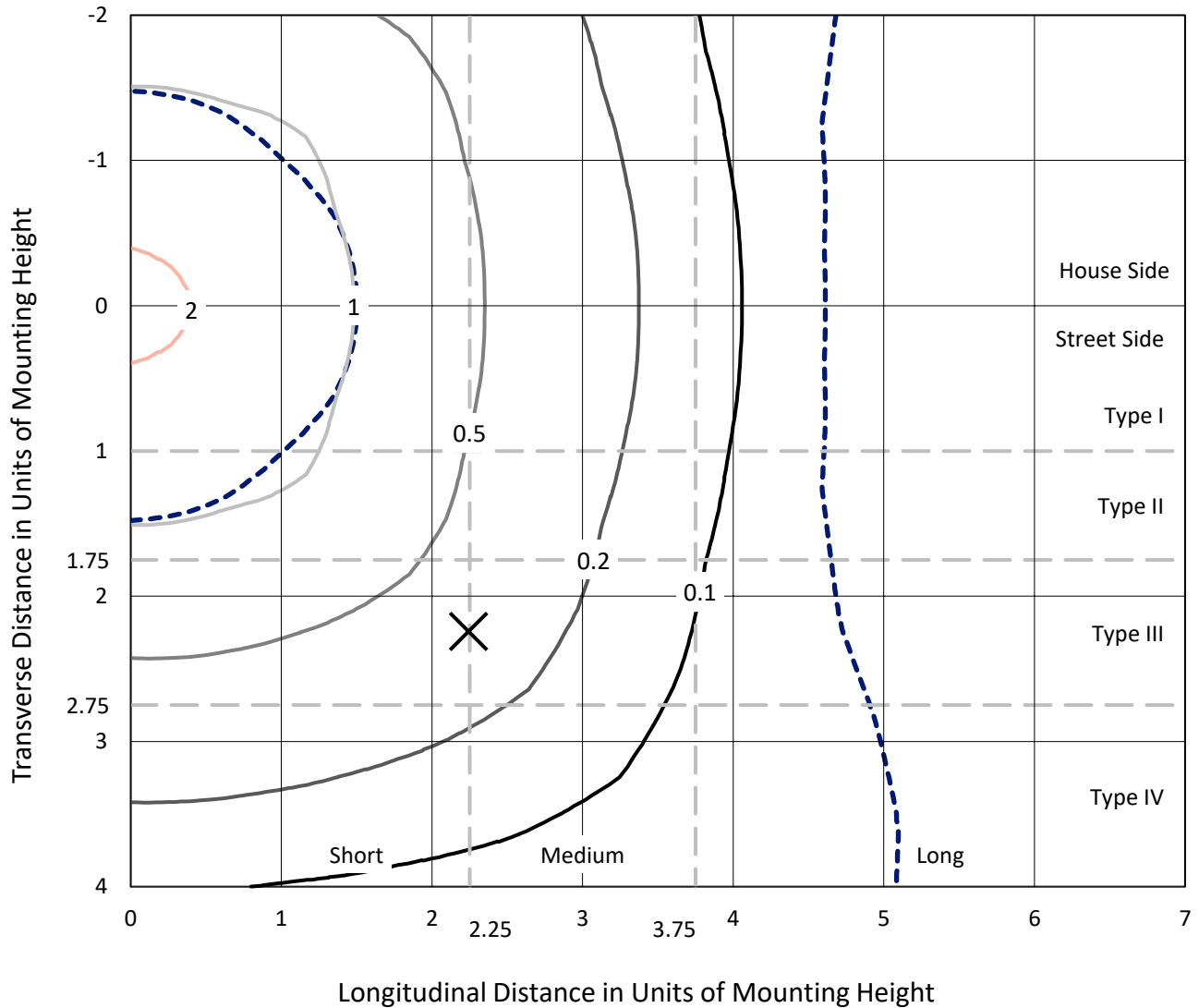
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

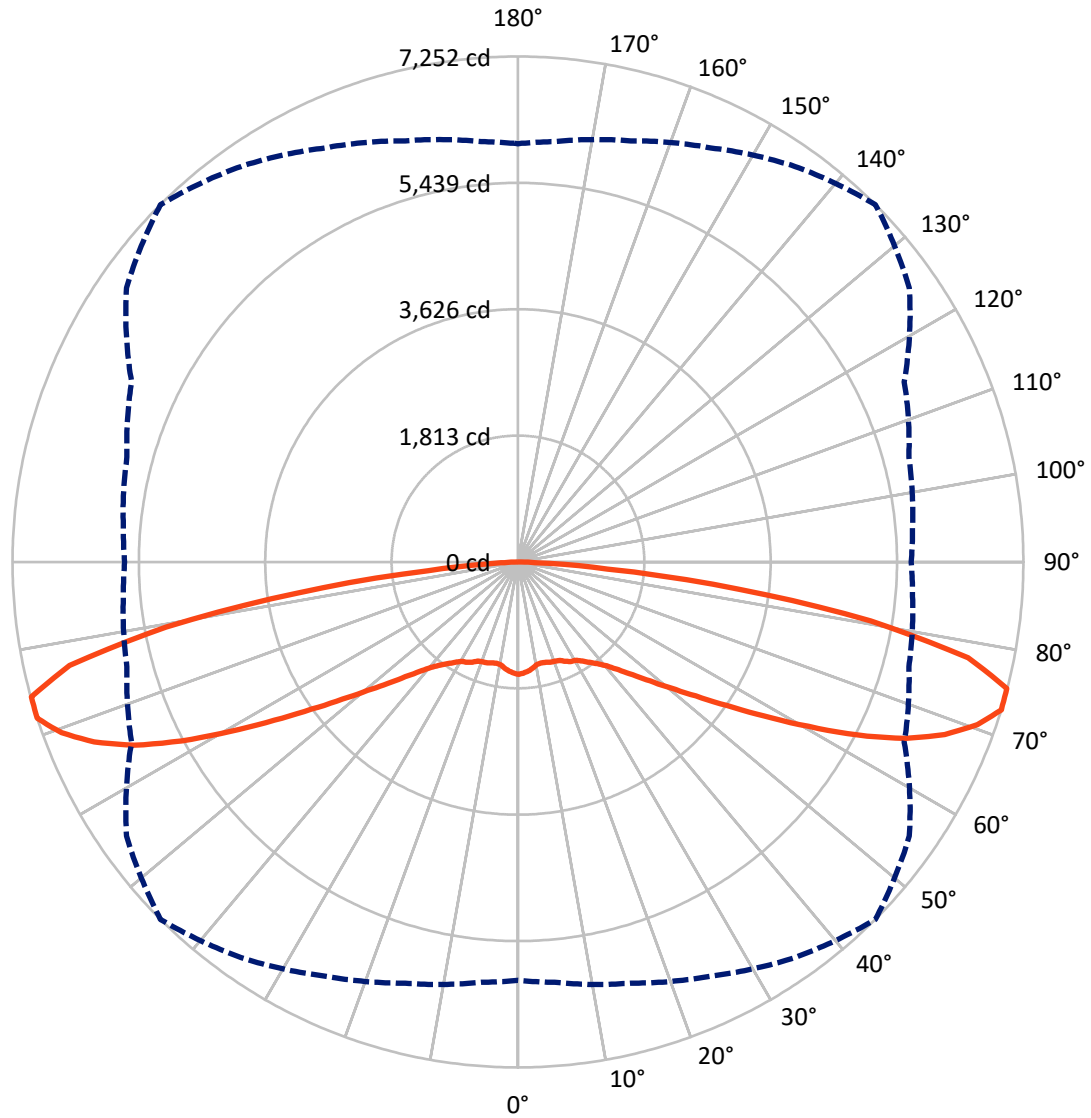
✕ Max cd  
 - - - 1/2 Max cd



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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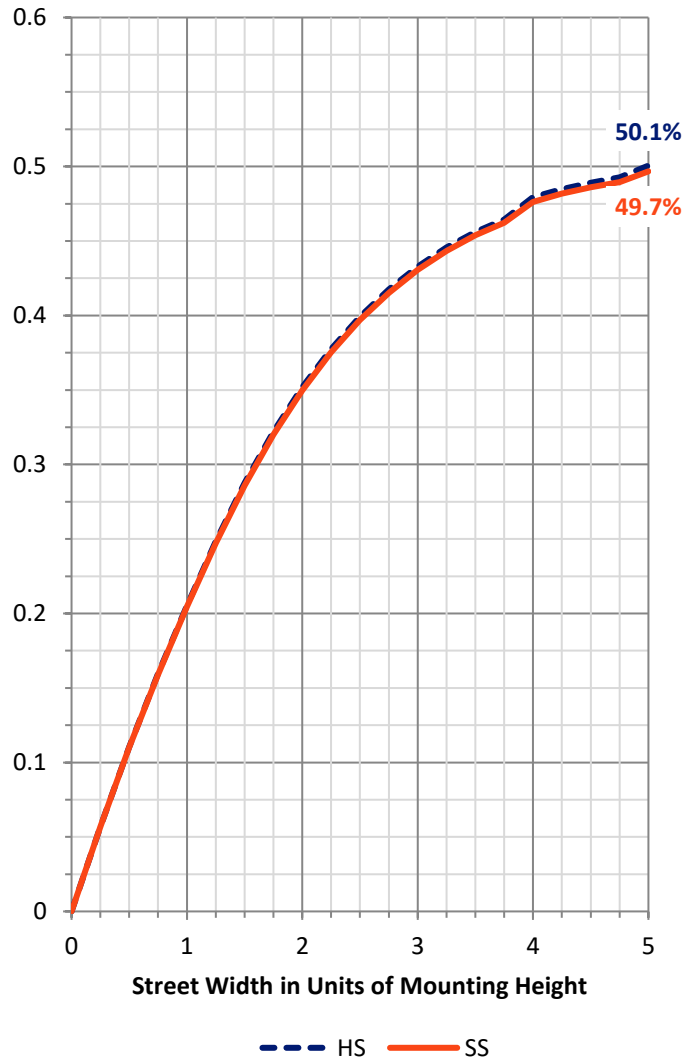
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9754.5	0.0	9754.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9754.5	0.0	9754.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19509.0	0.0	19509.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.0	0.8
10°-20°	429.7	2.2
20°-30°	730.1	3.7
30°-40°	1113.7	5.7
40°-50°	1833.8	9.4
50°-60°	3202.3	16.4
60°-70°	5368.7	27.5
70°-80°	5745.6	29.5
80°-90°	937.1	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°	19509.0	100.0
0°-180°	19509.0	100.0



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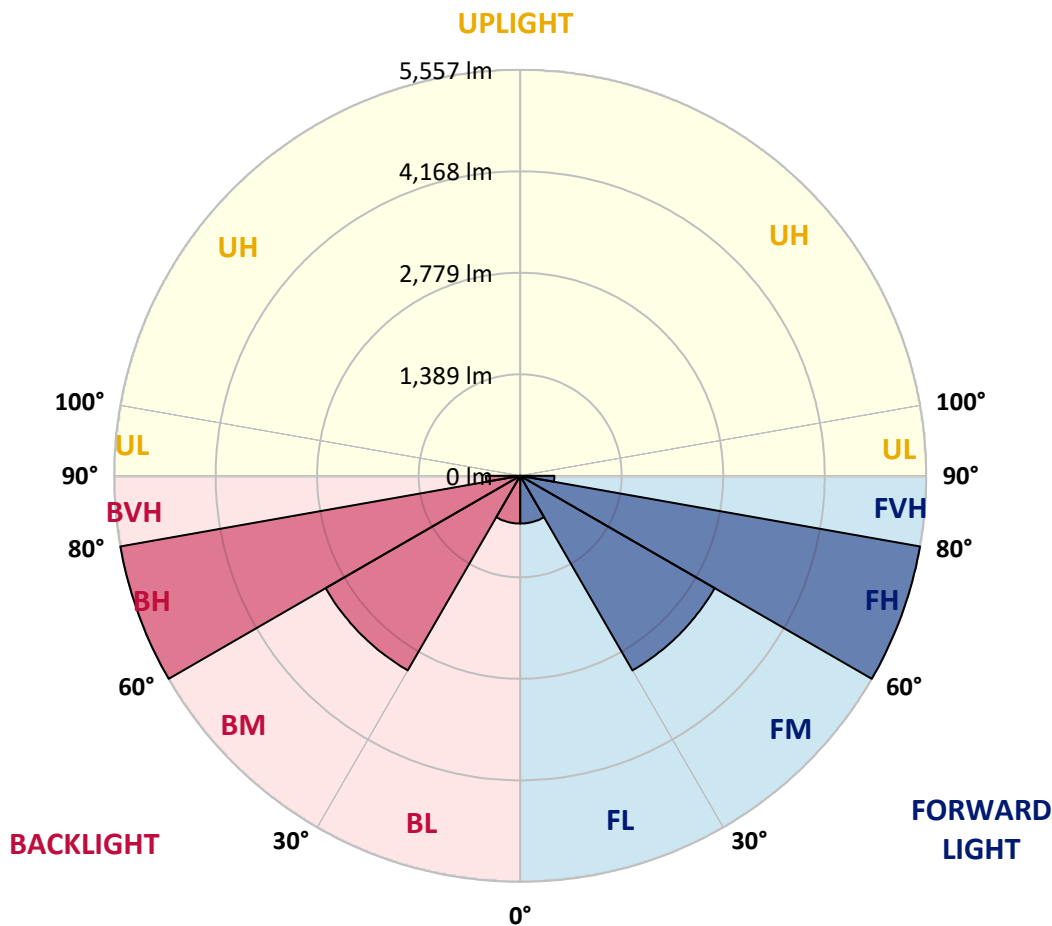
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	653.9	3.4			
FM (30°-60°)	3074.9	15.8			
FH (60°-80°)	5557.2	28.5			G3/7500
FVH (80°-90°)	468.6	2.4			G3/500
BL (0°-30°)	653.9	3.4	B2/1000		
BM (30°-60°)	3074.9	15.8	B3/5000		
BH (60°-80°)	5557.2	28.5	B5		G3/7500
BVH (80°-90°)	468.6	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°	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4	1614.4
2.5°	1604.4	1604.4	1604.4	1601.9	1597.0	1594.5	1589.5	1592.0	1592.0	1592.0	1592.0
5°	1584.5	1584.5	1582.0	1579.5	1574.5	1572.0	1567.1	1572.0	1572.0	1572.0	1572.0
7.5°	1547.1	1549.6	1549.6	1547.1	1539.7	1537.2	1529.7	1532.2	1532.2	1534.7	1532.2
10°	1527.2	1527.2	1524.7	1512.2	1499.8	1494.8	1492.3	1499.8	1507.3	1514.7	1514.7
12.5°	1527.2	1527.2	1522.2	1502.3	1484.8	1484.8	1484.8	1494.8	1509.8	1524.7	1527.2
15°	1534.7	1534.7	1524.7	1502.3	1492.3	1494.8	1494.8	1504.8	1522.2	1542.1	1544.6
17.5°	1539.7	1539.7	1527.2	1504.8	1504.8	1512.2	1507.3	1514.7	1532.2	1554.6	1557.1
20°	1547.1	1547.1	1529.7	1512.2	1512.2	1519.7	1519.7	1527.2	1542.1	1564.6	1567.1
22.5°	1562.1	1559.6	1542.1	1527.2	1527.2	1532.2	1537.2	1547.1	1559.6	1579.5	1584.5
25°	1579.5	1579.5	1564.6	1562.1	1567.1	1579.5	1577.0	1574.5	1579.5	1597.0	1604.4
27.5°	1589.5	1589.5	1579.5	1587.0	1606.9	1616.9	1604.4	1594.5	1594.5	1611.9	1614.4
30°	1621.9	1619.4	1609.4	1614.4	1631.8	1636.8	1629.3	1616.9	1624.4	1644.3	1646.8
32.5°	1676.7	1676.7	1661.7	1661.7	1674.2	1694.1	1669.2	1661.7	1671.7	1694.1	1696.6
35°	1761.4	1761.4	1741.5	1731.5	1741.5	1768.9	1731.5	1729.0	1746.4	1771.3	1773.8
37.5°	1868.5	1868.5	1856.1	1831.1	1833.6	1851.1	1818.7	1816.2	1848.6	1876.0	1876.0
40°	2003.0	2010.5	1998.1	1968.2	1958.2	1960.7	1935.8	1938.3	1975.6	2008.0	2008.0
42.5°	2170.0	2174.9	2155.0	2132.6	2120.1	2112.7	2087.7	2092.7	2137.6	2179.9	2179.9
45°	2371.8	2374.3	2354.3	2326.9	2312.0	2307.0	2282.1	2294.5	2344.4	2389.2	2386.7
47.5°	2598.5	2601.0	2581.0	2553.6	2543.7	2551.1	2526.2	2526.2	2571.1	2608.4	2603.5
50°	2855.1	2860.1	2837.6	2825.2	2817.7	2837.6	2807.7	2780.3	2810.2	2847.6	2842.6
52.5°	3139.1	3151.6	3136.6	3141.6	3169.0	3193.9	3144.1	3084.3	3099.2	3124.1	3116.7
55°	3482.9	3497.8	3502.8	3520.3	3592.5	3634.9	3552.7	3453.0	3445.5	3448.0	3435.6
57.5°	3869.1	3879.0	3911.4	3951.3	4100.8	4168.0	4038.5	3866.6	3811.8	3779.4	3771.9
60°	4257.7	4275.1	4354.9	4437.1	4666.3	4788.4	4589.1	4300.1	4183.0	4123.2	4110.7
62.5°	4648.8	4683.7	4813.3	4952.8	5286.6	5468.5	5162.1	4743.5	4574.1	4499.4	4479.4
65°	5102.3	5144.6	5301.6	5478.5	5849.7	6106.3	5735.1	5201.9	5020.1	4920.4	4895.5
67.5°	5632.9	5677.8	5804.8	6001.6	6352.9	6604.6	6275.7	5670.3	5433.6	5306.6	5286.6
70°	6068.9	6108.8	6245.8	6445.1	6706.7	6993.2	6679.3	6044.0	5829.7	5740.1	5727.6
72.5°	6001.6	6054.0	6255.8	6554.7	6928.4	7252.3	6856.2	6116.3	5807.3	5682.8	5642.9
75°	5241.8	5299.1	5538.3	6078.9	6761.5	7244.8	6599.6	5635.4	5271.7	5167.0	5147.1
77.5°	3470.4	3525.3	3928.9	4780.9	5904.5	6602.1	5824.8	4721.1	4135.6	3884.0	3869.1
80°	1402.6	1472.4	1858.5	2762.9	4185.5	5132.2	4320.0	3022.0	2037.9	1644.3	1564.6
82.5°	326.4	388.6	565.5	1019.0	2142.6	3196.4	2329.4	1128.6	655.2	465.9	418.5
85°	137.0	139.5	241.7	331.3	670.2	1290.5	762.4	411.1	333.8	244.2	239.2
87.5°	52.3	54.8	117.1	139.5	214.3	244.2	259.1	211.8	196.8	122.1	117.1
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)