

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: P399461

Luminaire Tested: **ARCH-L-PA3-140-830-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399461  
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-PA3-140-830-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 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: 18415 lumens  
Efficiency: N/A  
Efficacy: 128.8 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

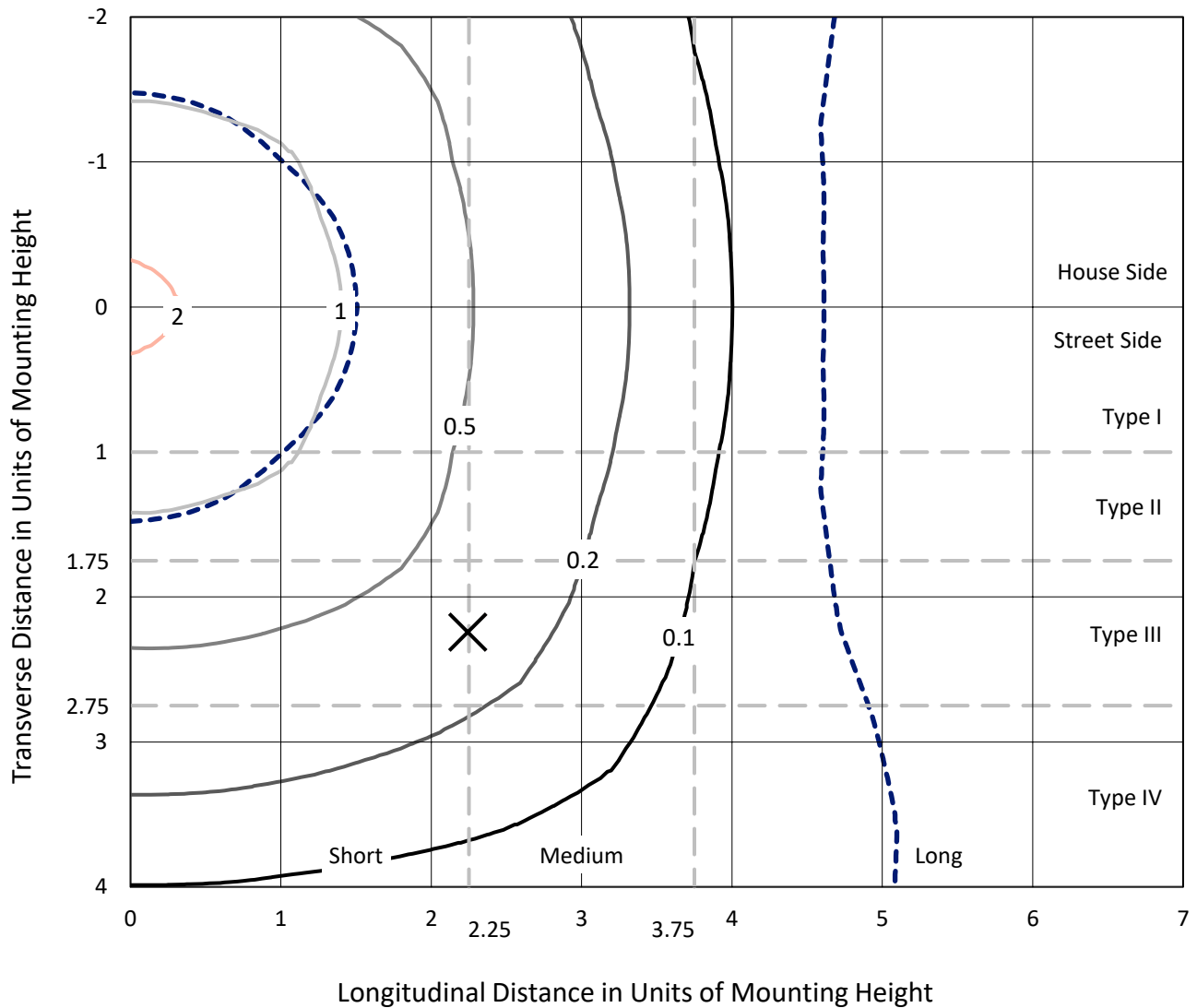
Input Watts (W): 143  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

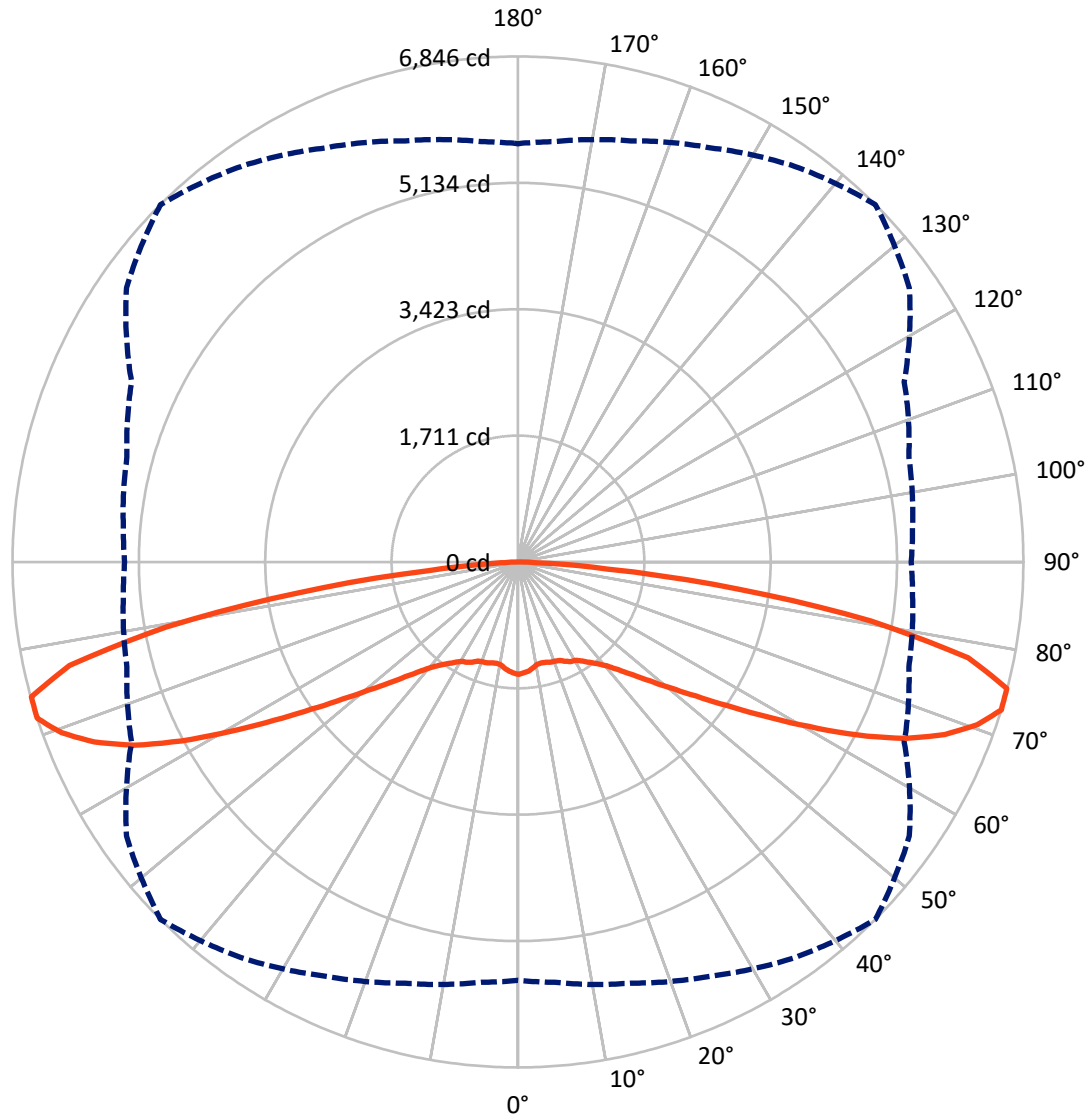
✕ Max cd  
 - - - 1/2 Max cd



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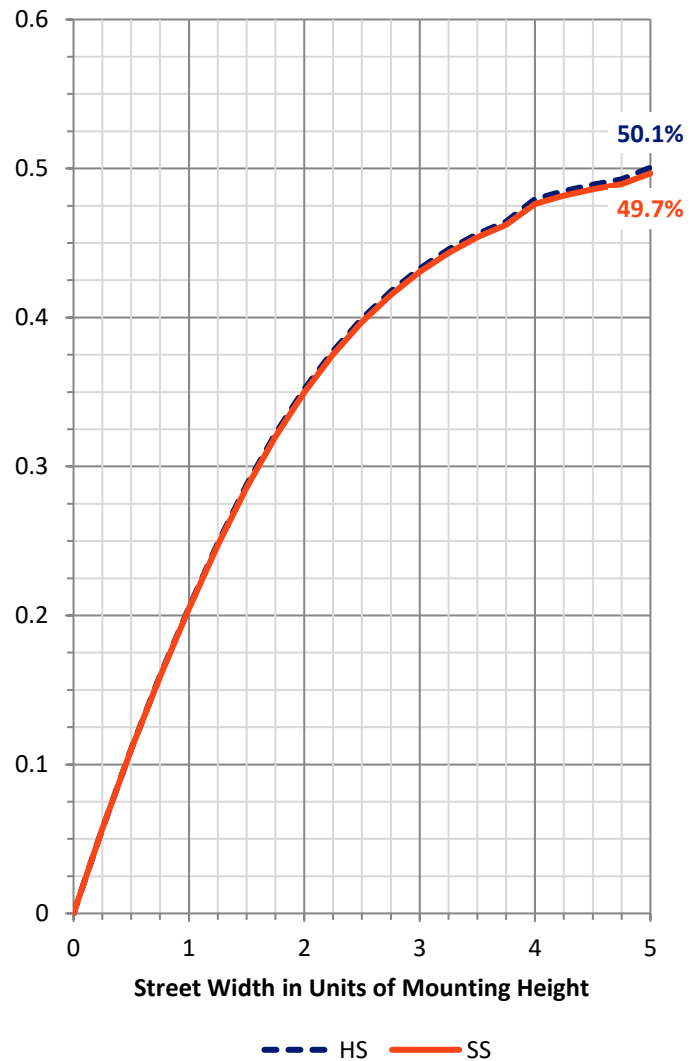
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9207.5	0.0	9207.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9207.5	0.0	9207.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18415.0	0.0	18415.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	0.8
10°-20°	405.6	2.2
20°-30°	689.2	3.7
30°-40°	1051.2	5.7
40°-50°	1730.9	9.4
50°-60°	3022.7	16.4
60°-70°	5067.7	27.5
70°-80°	5423.4	29.5
80°-90°	884.6	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°	18415.0	100.0
0°-180°	18415.0	100.0



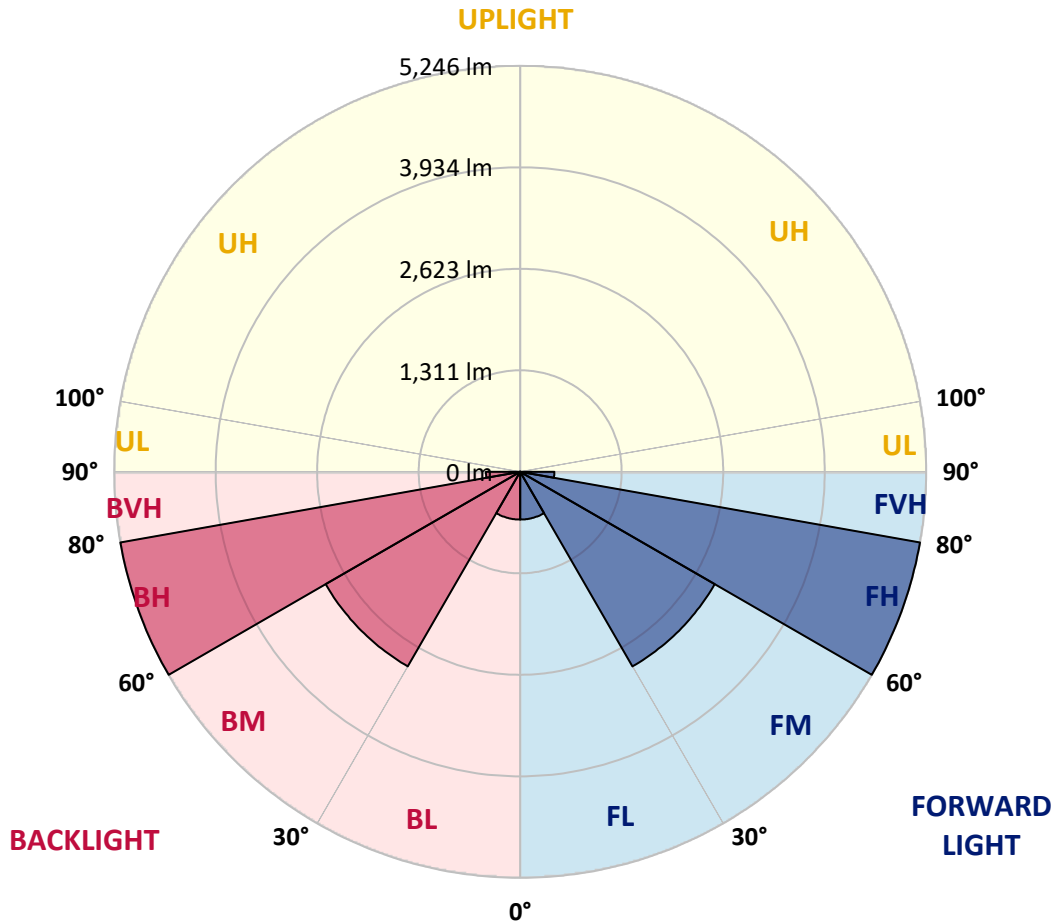
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	617.3	3.4			
FM (30°-60°)	2902.4	15.8			
FH (60°-80°)	5245.5	28.5			G3/7500
FVH (80°-90°)	442.3	2.4			G3/500
BL (0°-30°)	617.3	3.4	B2/1000		
BM (30°-60°)	2902.4	15.8	B3/5000		
BH (60°-80°)	5245.5	28.5	B5		G3/7500
BVH (80°-90°)	442.3	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°	1523.9	1523.9	1523.9	1523.9	1523.9	1523.9	1523.9	1523.9	1523.9	1523.9	1523.9
2.5°	1514.5	1514.5	1514.5	1512.1	1507.4	1505.0	1500.3	1502.7	1502.7	1502.7	1502.7
5°	1495.6	1495.6	1493.3	1490.9	1486.2	1483.9	1479.2	1483.9	1483.9	1483.9	1483.9
7.5°	1460.4	1462.7	1462.7	1460.4	1453.3	1451.0	1443.9	1446.3	1446.3	1448.6	1446.3
10°	1441.6	1441.6	1439.2	1427.4	1415.7	1411.0	1408.6	1415.7	1422.7	1429.8	1429.8
12.5°	1441.6	1441.6	1436.9	1418.0	1401.6	1401.6	1401.6	1411.0	1425.1	1439.2	1441.6
15°	1448.6	1448.6	1439.2	1418.0	1408.6	1411.0	1411.0	1420.4	1436.9	1455.7	1458.0
17.5°	1453.3	1453.3	1441.6	1420.4	1420.4	1427.4	1422.7	1429.8	1446.3	1467.4	1469.8
20°	1460.4	1460.4	1443.9	1427.4	1427.4	1434.5	1434.5	1441.6	1455.7	1476.8	1479.2
22.5°	1474.5	1472.1	1455.7	1441.6	1441.6	1446.3	1451.0	1460.4	1472.1	1490.9	1495.6
25°	1490.9	1490.9	1476.8	1474.5	1479.2	1490.9	1488.6	1486.2	1490.9	1507.4	1514.5
27.5°	1500.3	1500.3	1490.9	1498.0	1516.8	1526.2	1514.5	1505.0	1505.0	1521.5	1523.9
30°	1530.9	1528.6	1519.2	1523.9	1540.3	1545.0	1538.0	1526.2	1533.3	1552.1	1554.4
32.5°	1582.7	1582.7	1568.5	1568.5	1580.3	1599.1	1575.6	1568.5	1577.9	1599.1	1601.5
35°	1662.6	1662.6	1643.8	1634.4	1643.8	1669.7	1634.4	1632.0	1648.5	1672.0	1674.4
37.5°	1763.7	1763.7	1752.0	1728.5	1730.8	1747.3	1716.7	1714.3	1744.9	1770.8	1770.8
40°	1890.7	1897.8	1886.0	1857.8	1848.4	1850.7	1827.2	1829.6	1864.8	1895.4	1895.4
42.5°	2048.3	2053.0	2034.2	2013.0	2001.2	1994.2	1970.7	1975.4	2017.7	2057.7	2057.7
45°	2238.8	2241.1	2222.3	2196.4	2182.3	2177.6	2154.1	2165.9	2212.9	2255.2	2252.9
47.5°	2452.8	2455.1	2436.3	2410.4	2401.0	2408.1	2384.6	2384.6	2426.9	2462.2	2457.5
50°	2695.0	2699.7	2678.5	2666.8	2659.7	2678.5	2650.3	2624.4	2652.6	2687.9	2683.2
52.5°	2963.1	2974.8	2960.7	2965.4	2991.3	3014.8	2967.8	2911.3	2925.4	2949.0	2941.9
55°	3287.6	3301.7	3306.4	3322.9	3391.1	3431.0	3353.4	3259.4	3252.3	3254.7	3242.9
57.5°	3652.1	3661.5	3692.1	3729.7	3870.8	3934.3	3812.0	3649.7	3598.0	3567.4	3560.4
60°	4019.0	4035.4	4110.7	4188.3	4404.6	4519.8	4331.7	4058.9	3948.4	3892.0	3880.2
62.5°	4388.2	4421.1	4543.4	4675.1	4990.2	5161.8	4872.6	4477.5	4317.6	4247.1	4228.2
65°	4816.2	4856.1	5004.3	5171.3	5521.6	5763.9	5413.5	4910.2	4738.6	4644.5	4621.0
67.5°	5317.1	5359.4	5479.3	5665.1	5996.7	6234.2	5923.8	5352.3	5128.9	5009.0	4990.2
70°	5728.6	5766.2	5895.6	6083.7	6330.6	6601.0	6304.7	5705.1	5502.8	5418.2	5406.4
72.5°	5665.1	5714.5	5905.0	6187.2	6539.9	6845.6	6471.7	5773.3	5481.7	5364.1	5326.5
75°	4947.8	5001.9	5227.7	5738.0	6382.3	6838.6	6229.5	5319.4	4976.1	4877.3	4858.5
77.5°	3275.8	3327.6	3708.5	4512.8	5573.4	6231.8	5498.1	4456.4	3903.7	3666.2	3652.1
80°	1324.0	1389.8	1754.3	2608.0	3950.8	4844.4	4077.7	2852.5	1923.6	1552.1	1476.8
82.5°	308.1	366.9	533.8	961.8	2022.4	3017.2	2198.8	1065.3	618.5	439.8	395.1
85°	129.3	131.7	228.1	312.8	632.6	1218.1	719.6	388.0	315.1	230.5	225.8
87.5°	49.4	51.7	110.5	131.7	202.2	230.5	244.6	199.9	185.8	115.2	110.5
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)