

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: P399452

Luminaire Tested: **ARCH-L-PA3-140-827-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399452  
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-PA3-140-827-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 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: 17036 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G3

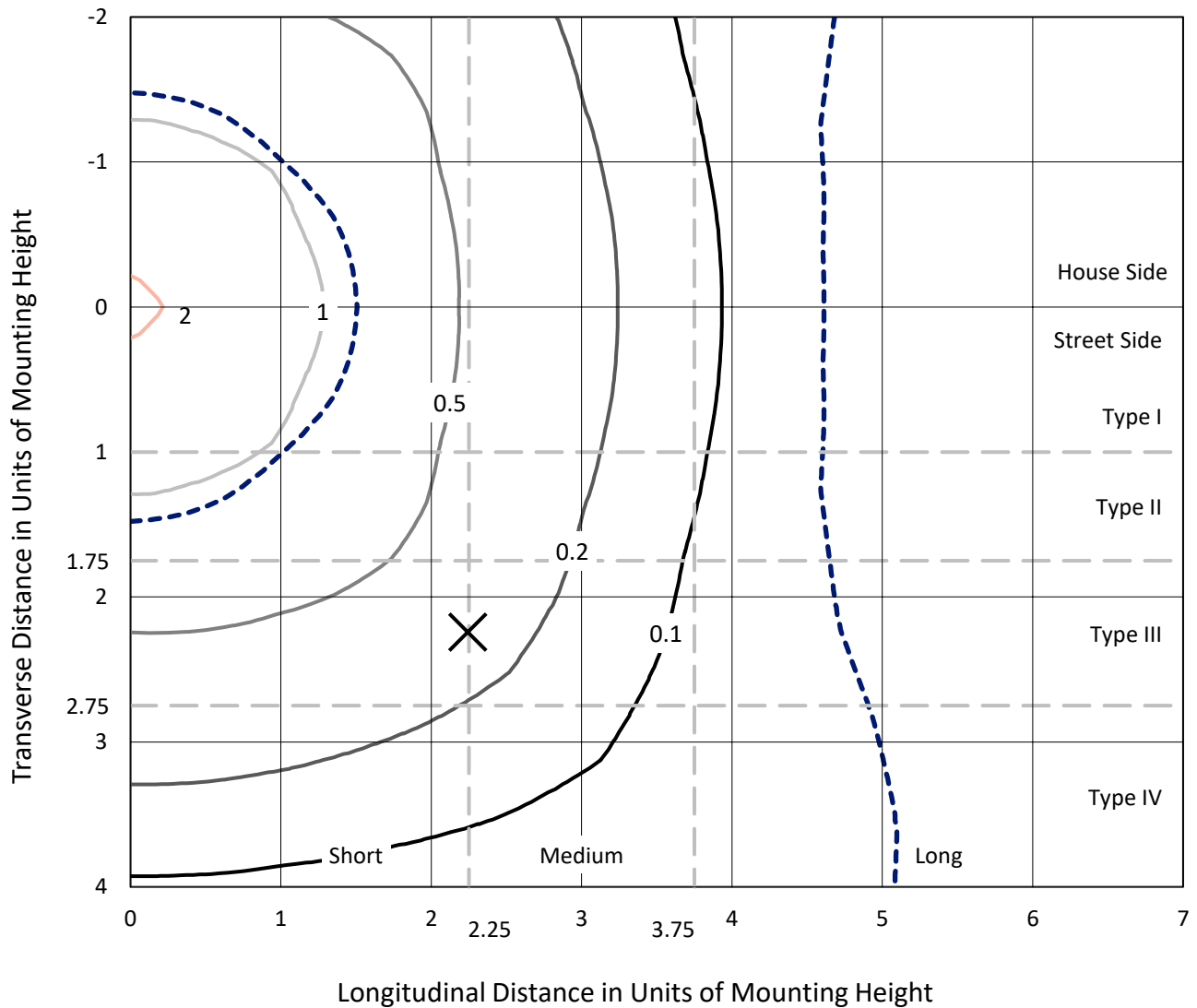
Input Watts (W): 143  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

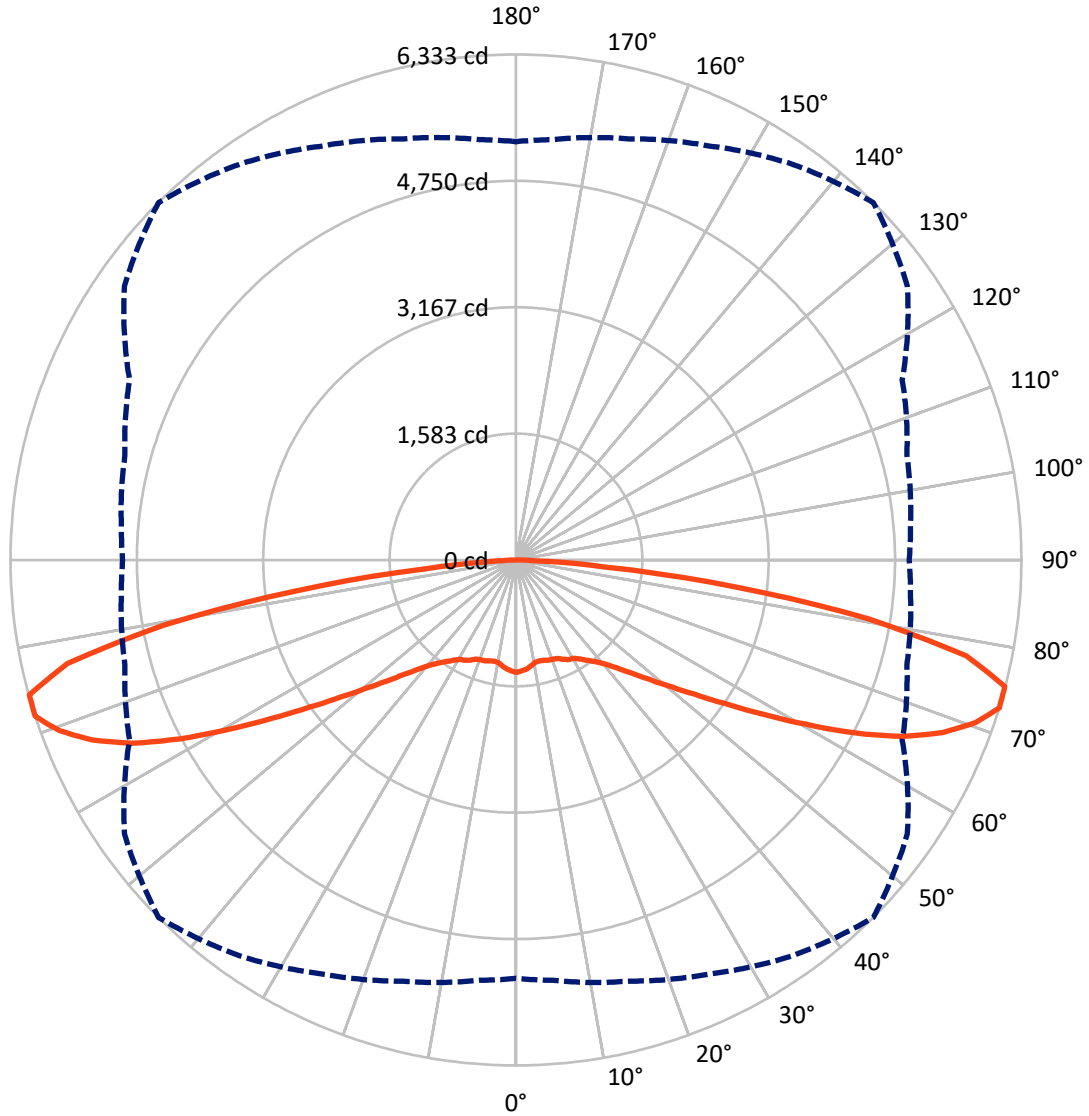
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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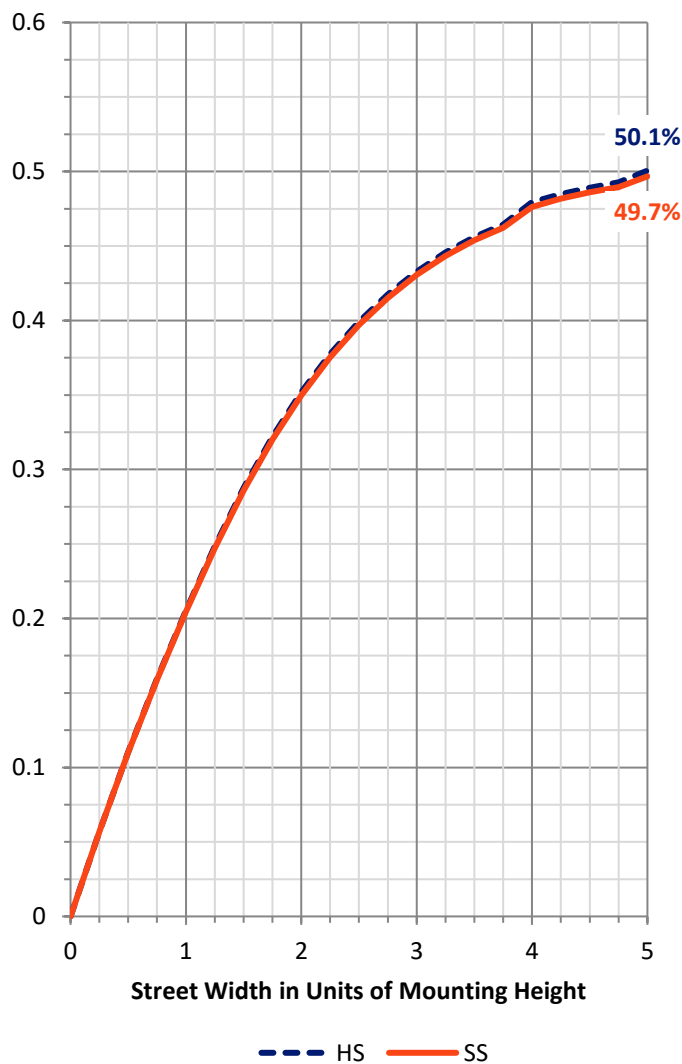
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8518.0	0.0	8518.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8518.0	0.0	8518.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17036.0	0.0	17036.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.3	0.8
10°-20°	375.2	2.2
20°-30°	637.6	3.7
30°-40°	972.5	5.7
40°-50°	1601.3	9.4
50°-60°	2796.4	16.4
60°-70°	4688.2	27.5
70°-80°	5017.3	29.5
80°-90°	818.3	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°	17036.0	100.0
0°-180°	17036.0	100.0

**Coefficient of Utilization**



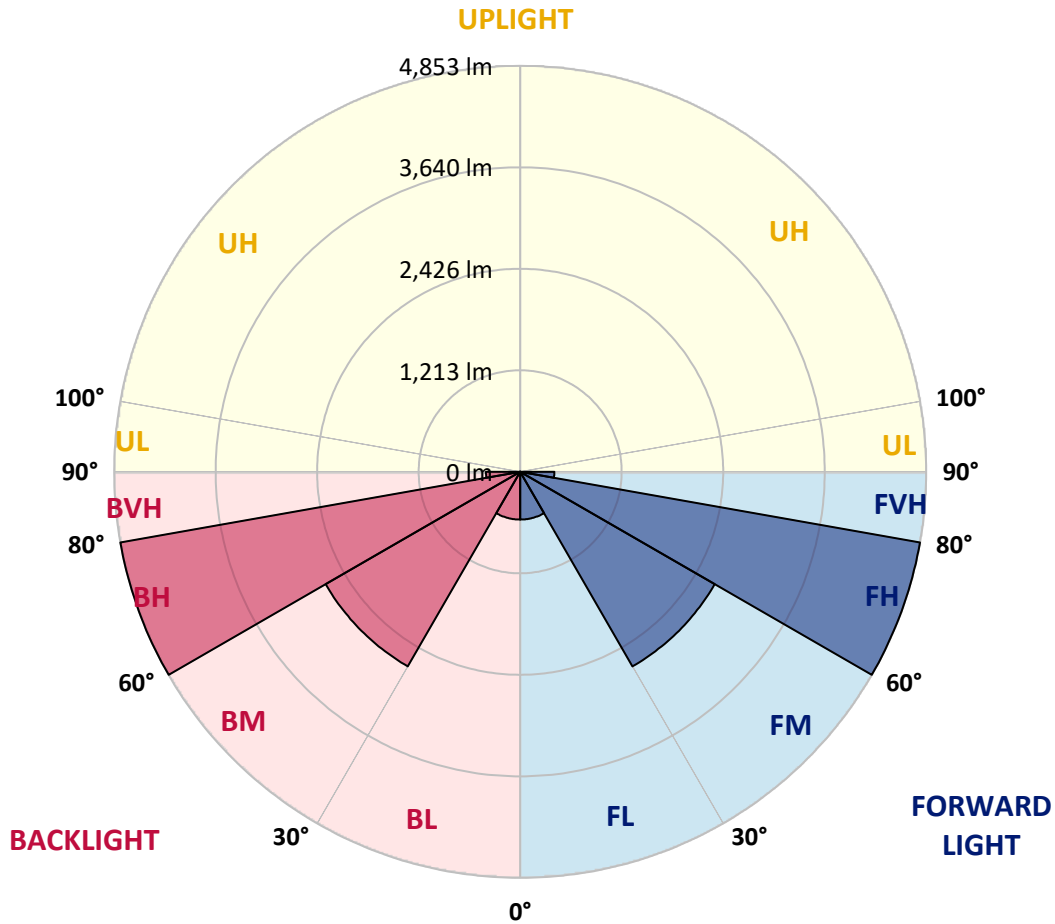
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	571.0	3.4			
FM (30°-60°)	2685.1	15.8			
FH (60°-80°)	4852.7	28.5			G2/5000
FVH (80°-90°)	409.2	2.4			G3/500
BL (0°-30°)	571.0	3.4	B2/1000		
BM (30°-60°)	2685.1	15.8	B3/5000		
BH (60°-80°)	4852.7	28.5	B4/5000		G2/5000
BVH (80°-90°)	409.2	2.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7	1409.7
2.5°	1401.0	1401.0	1401.0	1398.9	1394.5	1392.3	1388.0	1390.2	1390.2	1390.2	1390.2
5°	1383.6	1383.6	1381.5	1379.3	1374.9	1372.8	1368.4	1372.8	1372.8	1372.8	1372.8
7.5°	1351.0	1353.2	1353.2	1351.0	1344.5	1342.3	1335.8	1338.0	1338.0	1340.1	1338.0
10°	1333.6	1333.6	1331.4	1320.6	1309.7	1305.3	1303.1	1309.7	1316.2	1322.7	1322.7
12.5°	1333.6	1333.6	1329.3	1311.8	1296.6	1296.6	1296.6	1305.3	1318.4	1331.4	1333.6
15°	1340.1	1340.1	1331.4	1311.8	1303.1	1305.3	1305.3	1314.0	1329.3	1346.7	1348.8
17.5°	1344.5	1344.5	1333.6	1314.0	1314.0	1320.6	1316.2	1322.7	1338.0	1357.5	1359.7
20°	1351.0	1351.0	1335.8	1320.6	1320.6	1327.1	1327.1	1333.6	1346.7	1366.2	1368.4
22.5°	1364.1	1361.9	1346.7	1333.6	1333.6	1338.0	1342.3	1351.0	1361.9	1379.3	1383.6
25°	1379.3	1379.3	1366.2	1364.1	1368.4	1379.3	1377.1	1374.9	1379.3	1394.5	1401.0
27.5°	1388.0	1388.0	1379.3	1385.8	1403.2	1411.9	1401.0	1392.3	1392.3	1407.6	1409.7
30°	1416.3	1414.1	1405.4	1409.7	1425.0	1429.3	1422.8	1411.9	1418.5	1435.9	1438.0
32.5°	1464.1	1464.1	1451.1	1451.1	1462.0	1479.4	1457.6	1451.1	1459.8	1479.4	1481.5
35°	1538.1	1538.1	1520.7	1512.0	1520.7	1544.6	1512.0	1509.8	1525.1	1546.8	1549.0
37.5°	1631.7	1631.7	1620.8	1599.0	1601.2	1616.4	1588.1	1586.0	1614.2	1638.2	1638.2
40°	1749.1	1755.7	1744.8	1718.7	1710.0	1712.1	1690.4	1692.6	1725.2	1753.5	1753.5
42.5°	1894.9	1899.2	1881.8	1862.3	1851.4	1844.9	1823.1	1827.5	1866.6	1903.6	1903.6
45°	2071.1	2073.3	2055.9	2032.0	2018.9	2014.5	1992.8	2003.7	2047.2	2086.3	2084.2
47.5°	2269.1	2271.3	2253.9	2229.9	2221.2	2227.7	2206.0	2206.0	2245.2	2277.8	2273.4
50°	2493.2	2497.5	2477.9	2467.1	2460.5	2477.9	2451.8	2427.9	2454.0	2486.6	2482.3
52.5°	2741.2	2752.1	2739.0	2743.4	2767.3	2789.0	2745.5	2693.3	2706.4	2728.1	2721.6
55°	3041.4	3054.5	3058.8	3074.0	3137.1	3174.1	3102.3	3015.3	3008.8	3010.9	3000.1
57.5°	3378.6	3387.3	3415.6	3450.4	3580.9	3639.7	3526.5	3376.4	3328.6	3300.3	3293.8
60°	3718.0	3733.2	3802.8	3874.6	4074.8	4181.4	4007.3	3755.0	3652.7	3600.5	3589.6
62.5°	4059.6	4090.0	4203.1	4325.0	4616.5	4775.3	4507.7	4142.2	3994.3	3929.0	3911.6
65°	4455.5	4492.5	4629.5	4784.0	5108.2	5332.2	5008.1	4542.5	4383.7	4296.7	4274.9
67.5°	4918.9	4958.0	5069.0	5240.9	5547.6	5767.3	5480.2	4951.5	4744.8	4633.9	4616.5
70°	5299.6	5334.4	5454.1	5628.1	5856.5	6106.7	5832.6	5277.9	5090.8	5012.4	5001.6
72.5°	5240.9	5286.6	5462.8	5723.8	6050.2	6333.0	5987.1	5340.9	5071.2	4962.4	4927.6
75°	4577.3	4627.4	4836.2	5308.3	5904.4	6326.5	5763.0	4921.1	4603.4	4512.1	4494.7
77.5°	3030.5	3078.4	3430.8	4174.9	5156.0	5765.2	5086.4	4122.6	3611.4	3391.7	3378.6
80°	1224.8	1285.7	1623.0	2412.7	3654.9	4481.6	3772.4	2638.9	1779.6	1435.9	1366.2
82.5°	285.0	339.4	493.8	889.8	1871.0	2791.2	2034.1	985.5	572.2	406.8	365.5
85°	119.7	121.8	211.0	289.3	585.2	1126.9	665.7	359.0	291.5	213.2	208.9
87.5°	45.7	47.9	102.3	121.8	187.1	213.2	226.3	184.9	171.9	106.6	102.3
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)