

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: P399128

Luminaire Tested: **ARCH-L-PA3-100-730-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399128  
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-PA3-100-730-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15709 lumens  
Efficiency: N/A  
Efficacy: 154.0 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

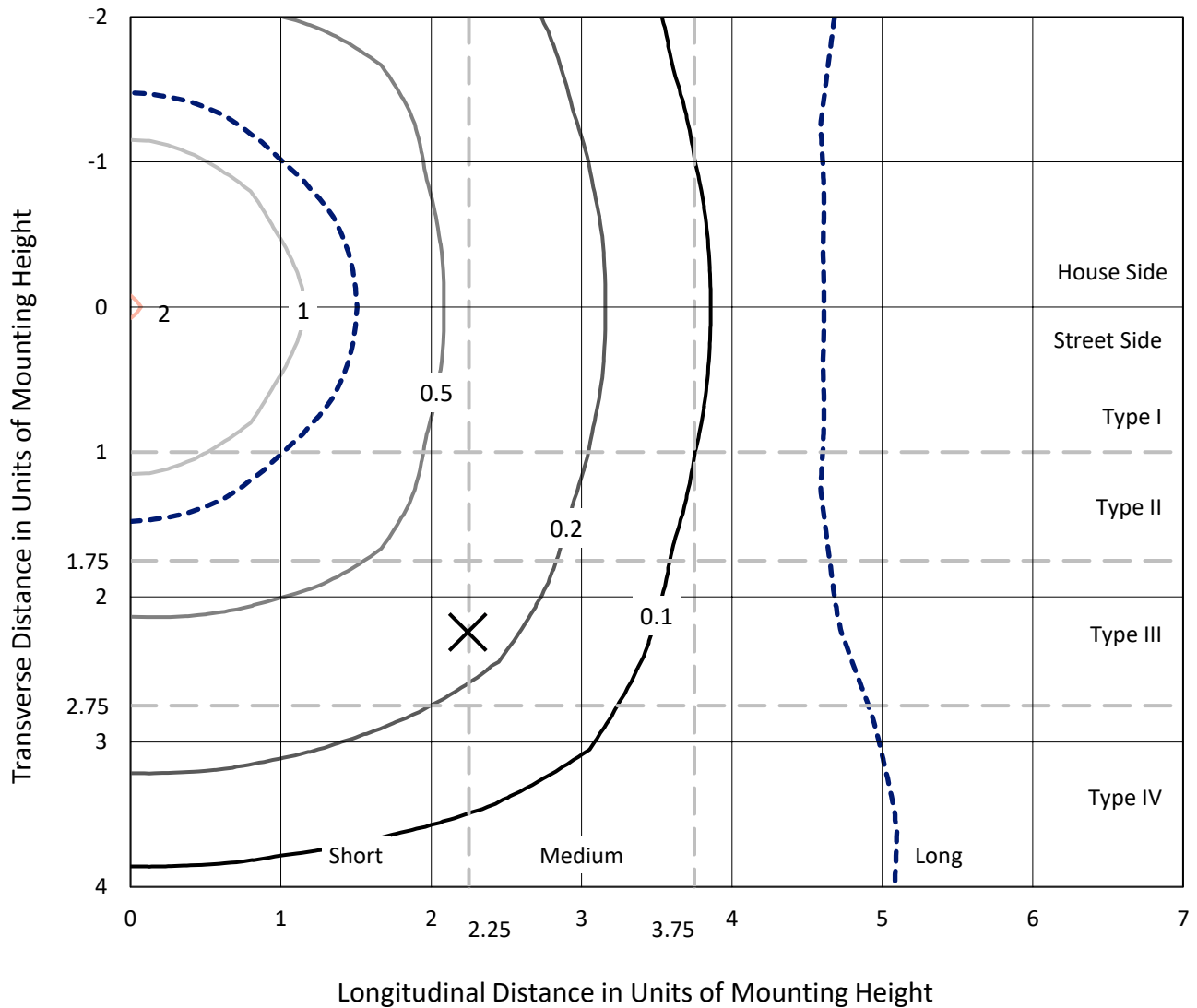
Input Watts (W): 102  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

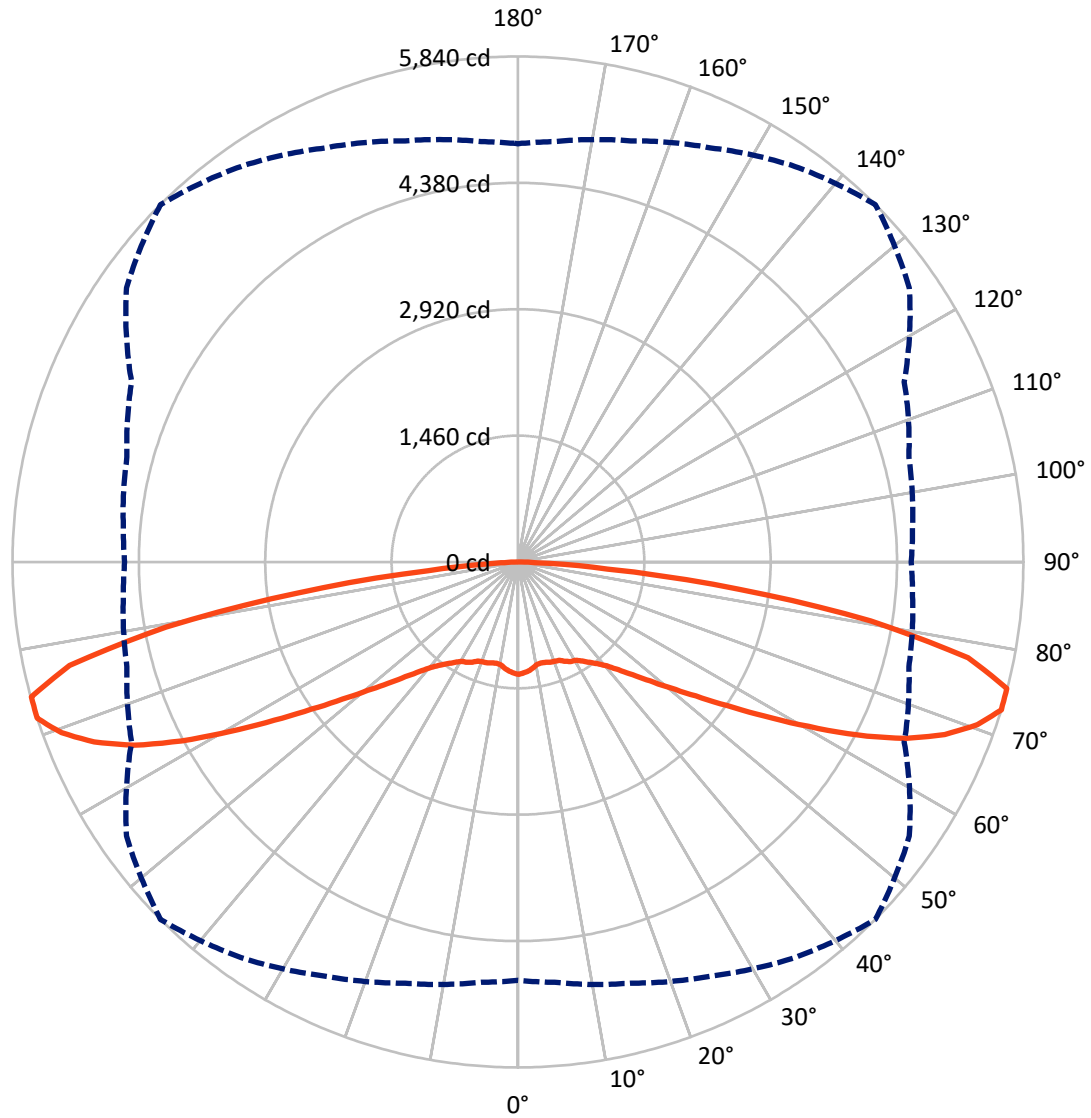
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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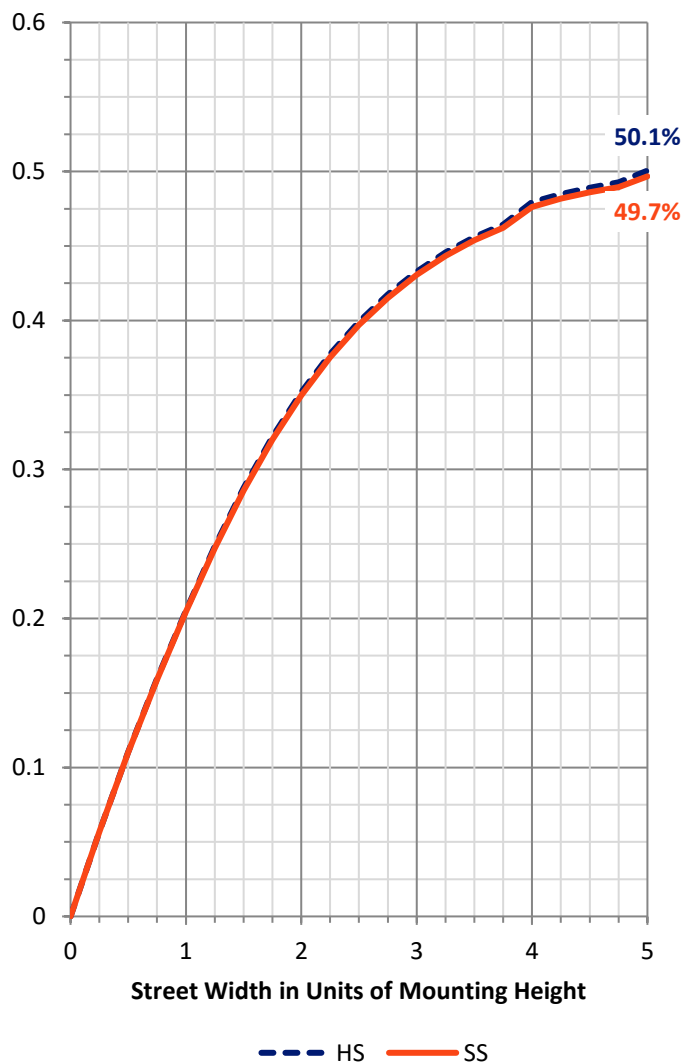
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7854.5	0.0	7854.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7854.5	0.0	7854.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15709.0	0.0	15709.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.2	0.8
10°-20°	346.0	2.2
20°-30°	587.9	3.7
30°-40°	896.7	5.7
40°-50°	1476.6	9.4
50°-60°	2578.5	16.4
60°-70°	4323.0	27.5
70°-80°	4626.5	29.5
80°-90°	754.6	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°	15709.0	100.0
0°-180°	15709.0	100.0

**Coefficient of Utilization**

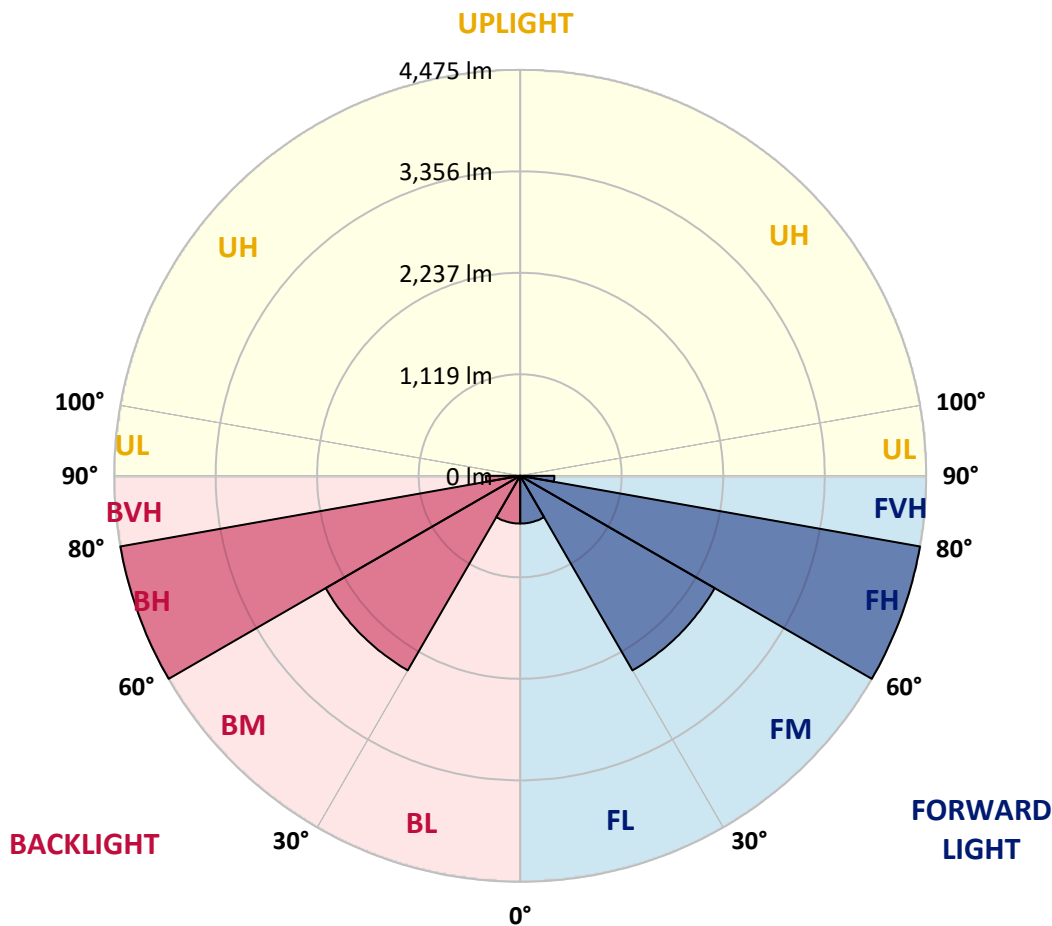


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.6	3.4			
FM (30°-60°)	2475.9	15.8			
FH (60°-80°)	4474.7	28.5			G2/5000
FVH (80°-90°)	377.3	2.4			G3/500
BL (0°-30°)	526.6	3.4	B2/1000		
BM (30°-60°)	2475.9	15.8	B2/2500		
BH (60°-80°)	4474.7	28.5	B4/5000		G2/5000
BVH (80°-90°)	377.3	2.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1299.9	1299.9	1299.9	1299.9	1299.9	1299.9	1299.9	1299.9	1299.9	1299.9	1299.9
2.5°	1291.9	1291.9	1291.9	1289.9	1285.9	1283.9	1279.9	1281.9	1281.9	1281.9	1281.9
5°	1275.9	1275.9	1273.9	1271.9	1267.8	1265.8	1261.8	1265.8	1265.8	1265.8	1265.8
7.5°	1245.8	1247.8	1247.8	1245.8	1239.8	1237.7	1231.7	1233.7	1233.7	1235.7	1233.7
10°	1229.7	1229.7	1227.7	1217.7	1207.7	1203.6	1201.6	1207.7	1213.7	1219.7	1219.7
12.5°	1229.7	1229.7	1225.7	1209.7	1195.6	1195.6	1195.6	1203.6	1215.7	1227.7	1229.7
15°	1235.7	1235.7	1227.7	1209.7	1201.6	1203.6	1203.6	1211.7	1225.7	1241.8	1243.8
17.5°	1239.8	1239.8	1229.7	1211.7	1211.7	1217.7	1213.7	1219.7	1233.7	1251.8	1253.8
20°	1245.8	1245.8	1231.7	1217.7	1217.7	1223.7	1223.7	1229.7	1241.8	1259.8	1261.8
22.5°	1257.8	1255.8	1241.8	1229.7	1229.7	1233.7	1237.7	1245.8	1255.8	1271.9	1275.9
25°	1271.9	1271.9	1259.8	1257.8	1261.8	1271.9	1269.8	1267.8	1271.9	1285.9	1291.9
27.5°	1279.9	1279.9	1271.9	1277.9	1293.9	1301.9	1291.9	1283.9	1283.9	1297.9	1299.9
30°	1306.0	1303.9	1295.9	1299.9	1314.0	1318.0	1312.0	1301.9	1308.0	1324.0	1326.0
32.5°	1350.1	1350.1	1338.1	1338.1	1348.1	1364.1	1344.1	1338.1	1346.1	1364.1	1366.1
35°	1418.3	1418.3	1402.2	1394.2	1402.2	1424.3	1394.2	1392.2	1406.3	1426.3	1428.3
37.5°	1504.6	1504.6	1494.5	1474.5	1476.5	1490.5	1464.4	1462.4	1488.5	1510.6	1510.6
40°	1612.9	1618.9	1608.9	1584.8	1576.8	1578.8	1558.7	1560.7	1590.8	1616.9	1616.9
42.5°	1747.3	1751.3	1735.3	1717.2	1707.2	1701.2	1681.1	1685.1	1721.2	1755.3	1755.3
45°	1909.8	1911.8	1895.7	1873.7	1861.6	1857.6	1837.6	1847.6	1887.7	1923.8	1921.8
47.5°	2092.3	2094.3	2078.3	2056.2	2048.2	2054.2	2034.2	2034.2	2070.3	2100.4	2096.3
50°	2299.0	2303.0	2284.9	2274.9	2268.9	2284.9	2260.8	2238.8	2262.9	2292.9	2288.9
52.5°	2527.7	2537.7	2525.6	2529.7	2551.7	2571.8	2531.7	2483.5	2495.6	2515.6	2509.6
55°	2804.5	2816.5	2820.5	2834.6	2892.8	2926.9	2860.7	2780.4	2774.4	2776.4	2766.4
57.5°	3115.4	3123.5	3149.5	3181.6	3302.0	3356.2	3251.8	3113.4	3069.3	3043.2	3037.2
60°	3428.4	3442.4	3506.6	3572.8	3757.4	3855.7	3695.2	3462.5	3368.2	3320.1	3310.0
62.5°	3743.3	3771.4	3875.7	3988.1	4256.9	4403.3	4156.6	3819.6	3683.2	3623.0	3606.9
65°	4108.4	4142.5	4268.9	4411.4	4710.3	4916.9	4618.0	4188.7	4042.2	3962.0	3941.9
67.5°	4535.7	4571.8	4674.2	4832.6	5115.5	5318.1	5053.3	4565.8	4375.3	4272.9	4256.9
70°	4886.8	4918.9	5029.2	5189.7	5400.4	5631.1	5378.3	4866.7	4694.2	4622.0	4612.0
72.5°	4832.6	4874.8	5037.3	5278.0	5578.9	5839.7	5520.7	4924.9	4676.2	4575.9	4543.8
75°	4220.8	4266.9	4459.5	4894.8	5444.5	5833.7	5314.1	4537.7	4244.9	4160.6	4144.6
77.5°	2794.5	2838.6	3163.6	3849.7	4754.4	5316.1	4690.2	3801.5	3330.1	3127.5	3115.4
80°	1129.4	1185.6	1496.5	2224.7	3370.2	4132.5	3478.5	2433.4	1641.0	1324.0	1259.8
82.5°	262.8	312.9	455.4	820.5	1725.2	2573.8	1875.7	908.8	527.6	375.1	337.0
85°	110.3	112.3	194.6	266.8	539.6	1039.1	613.9	331.0	268.8	196.6	192.6
87.5°	42.1	44.1	94.3	112.3	172.5	196.6	208.6	170.5	158.5	98.3	94.3
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)