

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: P399254

Luminaire Tested: **ARCH-L-PA3-120-722-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399254  
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-PA3-120-722-U-5WQ  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14939 lumens  
Efficiency: N/A  
Efficacy: 121.5 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

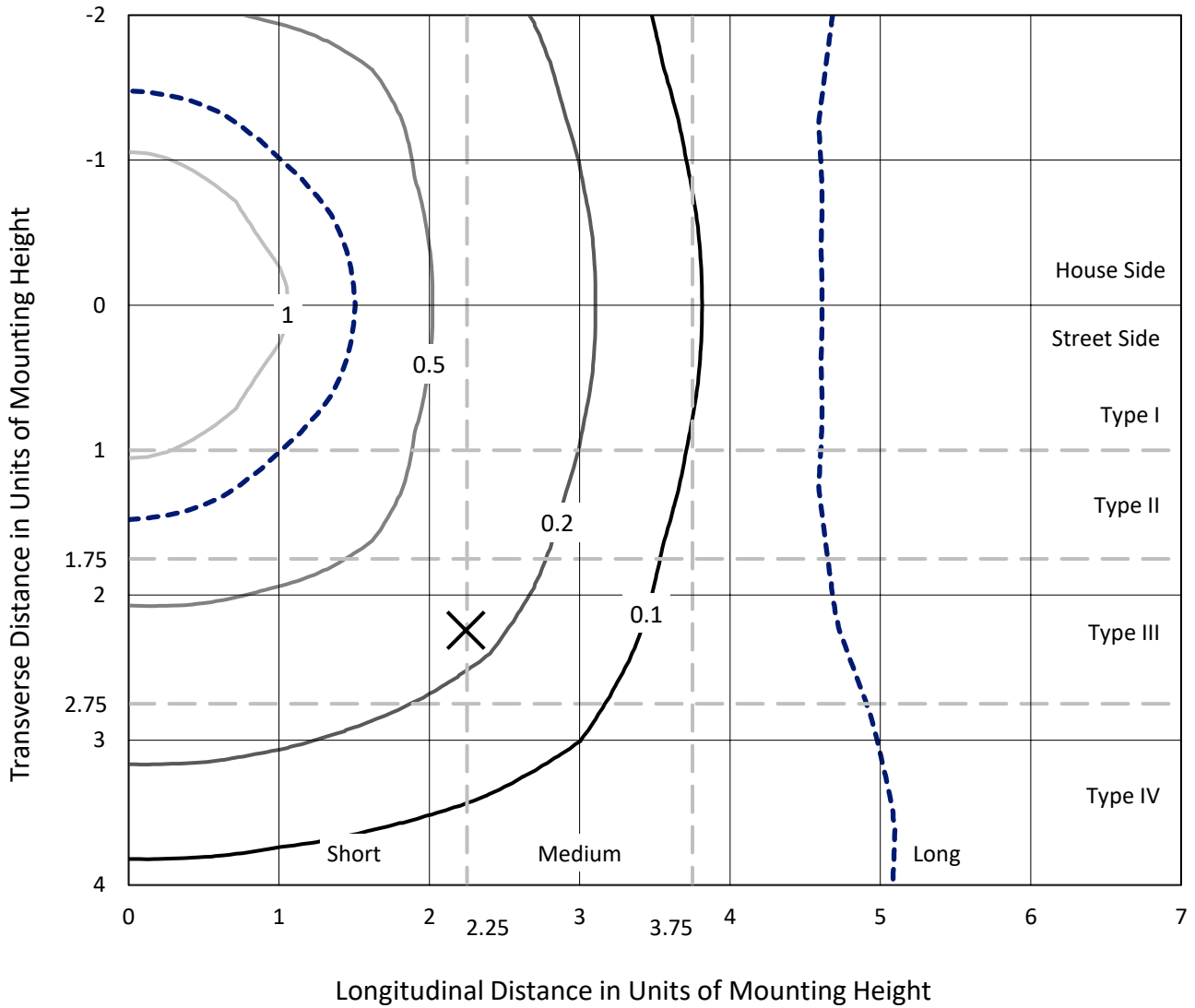
Input Watts (W): 123  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

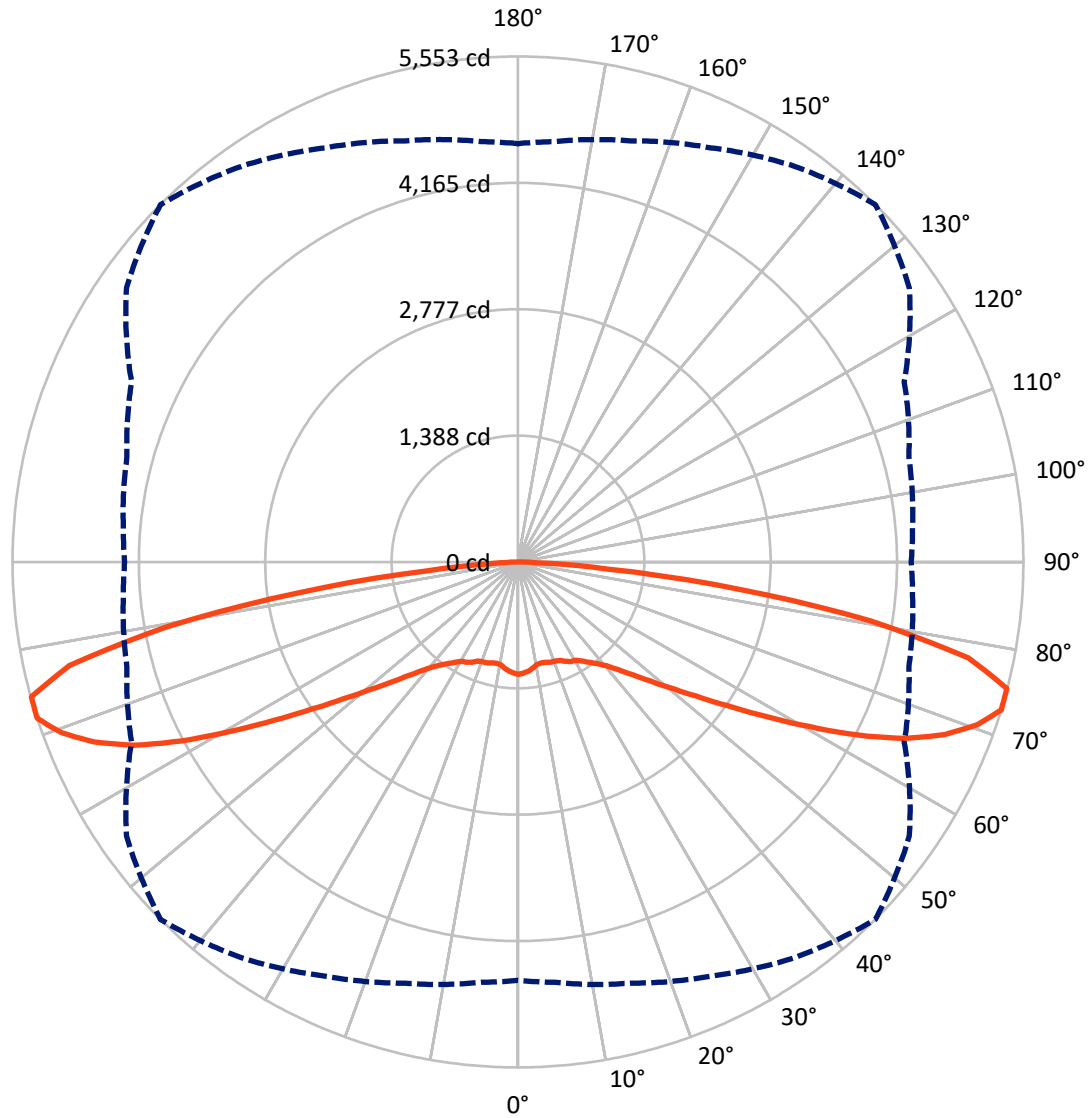
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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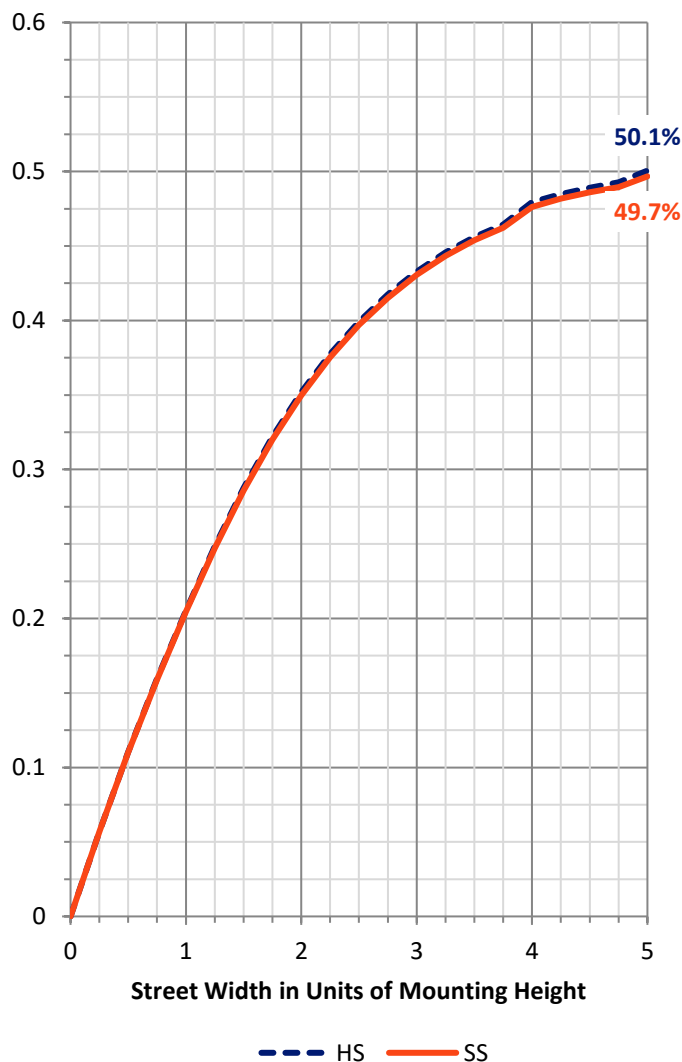
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7469.5	0.0	7469.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7469.5	0.0	7469.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14939.0	0.0	14939.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.4	0.8
10°-20°	329.0	2.2
20°-30°	559.1	3.7
30°-40°	852.8	5.7
40°-50°	1404.2	9.4
50°-60°	2452.1	16.4
60°-70°	4111.1	27.5
70°-80°	4399.7	29.5
80°-90°	717.6	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°	14939.0	100.0
0°-180°	14939.0	100.0

**Coefficient of Utilization**



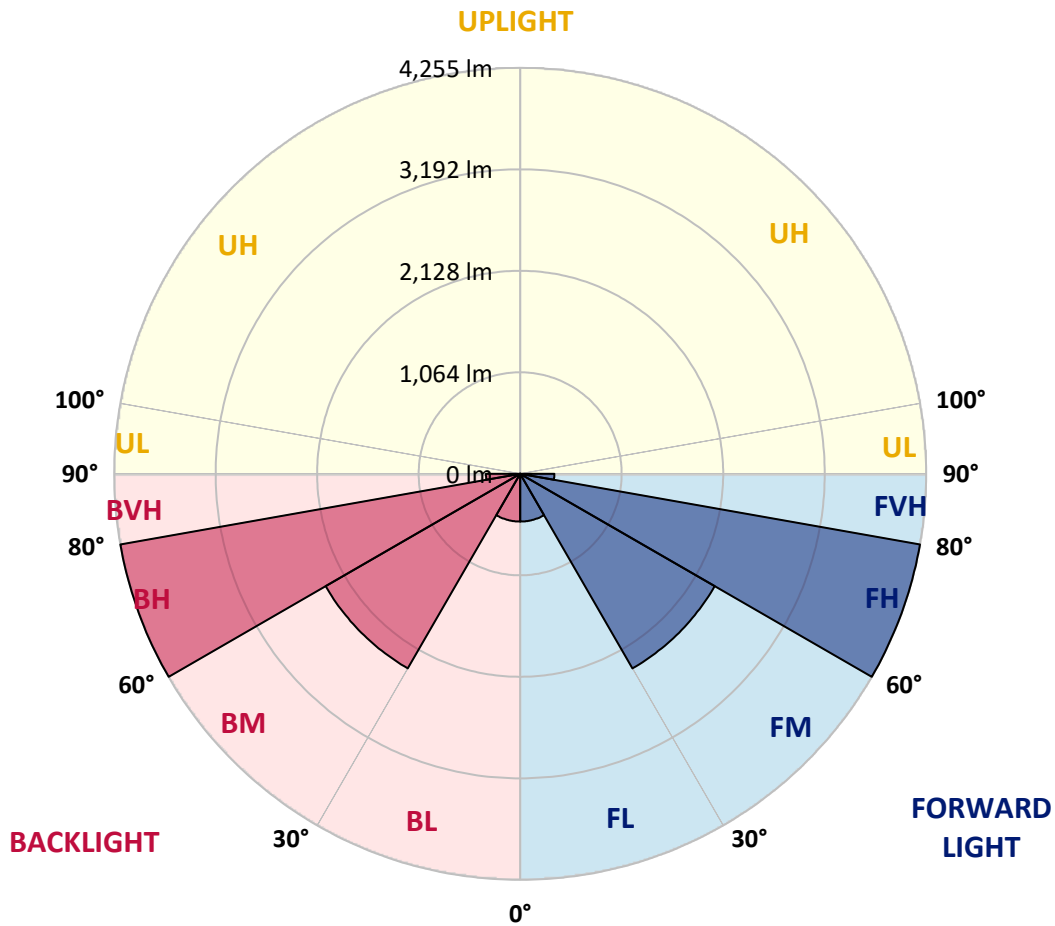
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	500.8	3.4			
FM (30°-60°)	2354.6	15.8			
FH (60°-80°)	4255.4	28.5			G2/5000
FVH (80°-90°)	358.8	2.4			G3/500
BL (0°-30°)	500.8	3.4	B2/1000		
BM (30°-60°)	2354.6	15.8	B2/2500		
BH (60°-80°)	4255.4	28.5	B4/5000		G2/5000
BVH (80°-90°)	358.8	2.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2	1236.2
2.5°	1228.6	1228.6	1228.6	1226.7	1222.9	1221.0	1217.1	1219.0	1219.0	1219.0	1219.0
5°	1213.3	1213.3	1211.4	1209.5	1205.7	1203.8	1200.0	1203.8	1203.8	1203.8	1203.8
7.5°	1184.7	1186.6	1186.6	1184.7	1179.0	1177.1	1171.4	1173.3	1173.3	1175.2	1173.3
10°	1169.4	1169.4	1167.5	1158.0	1148.5	1144.6	1142.7	1148.5	1154.2	1159.9	1159.9
12.5°	1169.4	1169.4	1165.6	1150.4	1137.0	1137.0	1137.0	1144.6	1156.1	1167.5	1169.4
15°	1175.2	1175.2	1167.5	1150.4	1142.7	1144.6	1144.6	1152.3	1165.6	1180.9	1182.8
17.5°	1179.0	1179.0	1169.4	1152.3	1152.3	1158.0	1154.2	1159.9	1173.3	1190.4	1192.3
20°	1184.7	1184.7	1171.4	1158.0	1158.0	1163.7	1163.7	1169.4	1180.9	1198.1	1200.0
22.5°	1196.2	1194.2	1180.9	1169.4	1169.4	1173.3	1177.1	1184.7	1194.2	1209.5	1213.3
25°	1209.5	1209.5	1198.1	1196.2	1200.0	1209.5	1207.6	1205.7	1209.5	1222.9	1228.6
27.5°	1217.1	1217.1	1209.5	1215.2	1230.5	1238.1	1228.6	1221.0	1221.0	1234.3	1236.2
30°	1241.9	1240.0	1232.4	1236.2	1249.6	1253.4	1247.7	1238.1	1243.8	1259.1	1261.0
32.5°	1283.9	1283.9	1272.5	1272.5	1282.0	1297.3	1278.2	1272.5	1280.1	1297.3	1299.2
35°	1348.8	1348.8	1333.5	1325.9	1333.5	1354.5	1325.9	1324.0	1337.3	1356.4	1358.3
37.5°	1430.8	1430.8	1421.3	1402.2	1404.1	1417.5	1392.7	1390.7	1415.5	1436.5	1436.5
40°	1533.8	1539.6	1530.0	1507.1	1499.5	1501.4	1482.3	1484.2	1512.8	1537.6	1537.6
42.5°	1661.6	1665.5	1650.2	1633.0	1623.5	1617.8	1598.7	1602.5	1636.8	1669.3	1669.3
45°	1816.2	1818.1	1802.8	1781.8	1770.4	1766.6	1747.5	1757.0	1795.2	1829.5	1827.6
47.5°	1989.8	1991.7	1976.4	1955.4	1947.8	1953.5	1934.5	1934.5	1968.8	1997.4	1993.6
50°	2186.3	2190.1	2172.9	2163.4	2157.7	2172.9	2150.0	2129.0	2151.9	2180.6	2176.7
52.5°	2403.8	2413.3	2401.9	2405.7	2426.7	2445.7	2407.6	2361.8	2373.2	2392.3	2386.6
55°	2667.0	2678.5	2682.3	2695.6	2751.0	2783.4	2720.4	2644.1	2638.4	2640.3	2630.8
57.5°	2962.7	2970.4	2995.2	3025.7	3140.1	3191.7	3092.5	2960.8	2918.9	2894.0	2888.3
60°	3260.3	3273.7	3334.7	3397.7	3573.2	3666.7	3514.1	3292.8	3203.1	3157.3	3147.8
62.5°	3559.9	3586.6	3685.8	3792.6	4048.2	4187.5	3952.8	3632.3	3502.6	3445.4	3430.1
65°	3907.1	3939.5	4059.7	4195.1	4479.4	4675.9	4391.6	3983.4	3844.1	3767.8	3748.7
67.5°	4313.4	4347.8	4445.0	4595.8	4864.8	5057.4	4805.6	4342.0	4160.8	4063.5	4048.2
70°	4647.3	4677.8	4782.7	4935.3	5135.6	5355.0	5114.7	4628.2	4464.1	4395.4	4385.9
72.5°	4595.8	4635.8	4790.3	5019.3	5305.4	5553.4	5250.1	4683.5	4447.0	4351.6	4321.0
75°	4013.9	4057.8	4240.9	4654.9	5177.6	5547.7	5053.6	4315.3	4036.8	3956.7	3941.4
77.5°	2657.5	2699.5	3008.5	3661.0	4521.4	5055.5	4460.3	3615.2	3166.9	2974.2	2962.7
80°	1074.1	1127.5	1423.2	2115.7	3205.0	3930.0	3308.0	2314.1	1560.5	1259.1	1198.1
82.5°	249.9	297.6	433.1	780.3	1640.7	2447.6	1783.7	864.2	501.7	356.7	320.5
85°	104.9	106.8	185.1	253.7	513.2	988.2	583.8	314.8	255.6	187.0	183.1
87.5°	40.1	42.0	89.7	106.8	164.1	187.0	198.4	162.2	150.7	93.5	89.7
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)