

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: P398030

Luminaire Tested: **ARCH-S-PA1-80-722-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P398030  
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-S-PA1-80-722-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2200K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8175 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

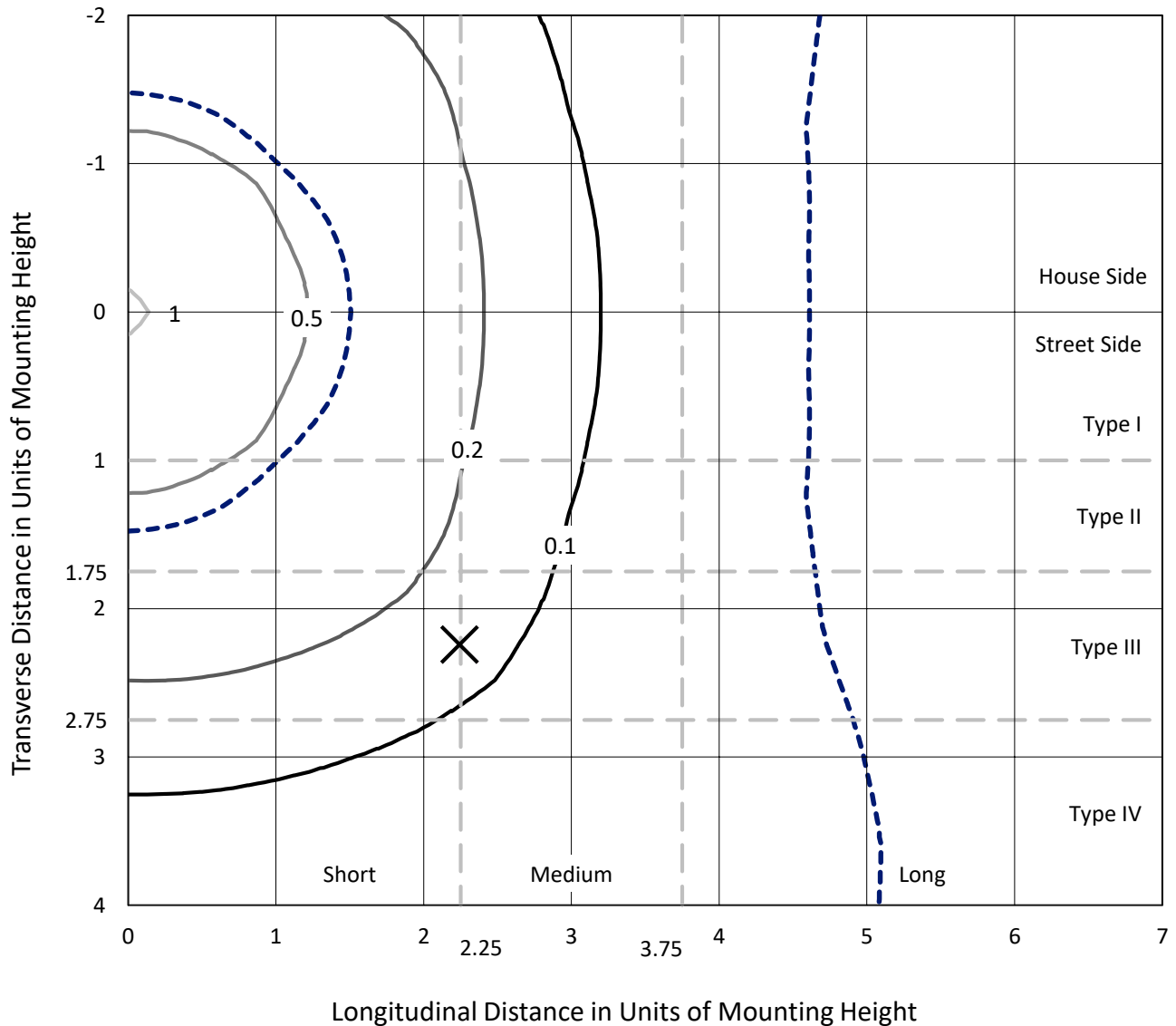
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

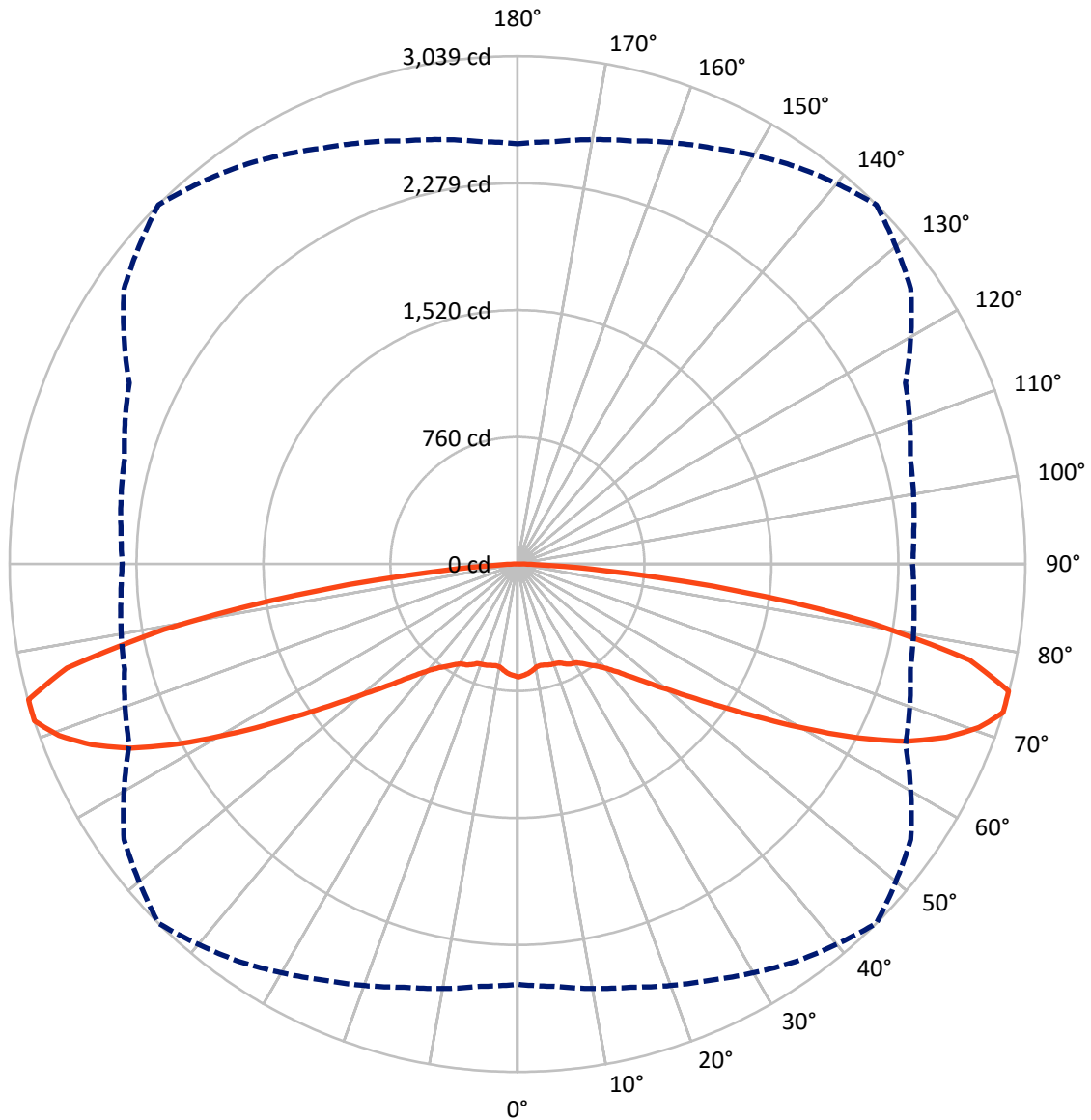


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - Non-Cutoff

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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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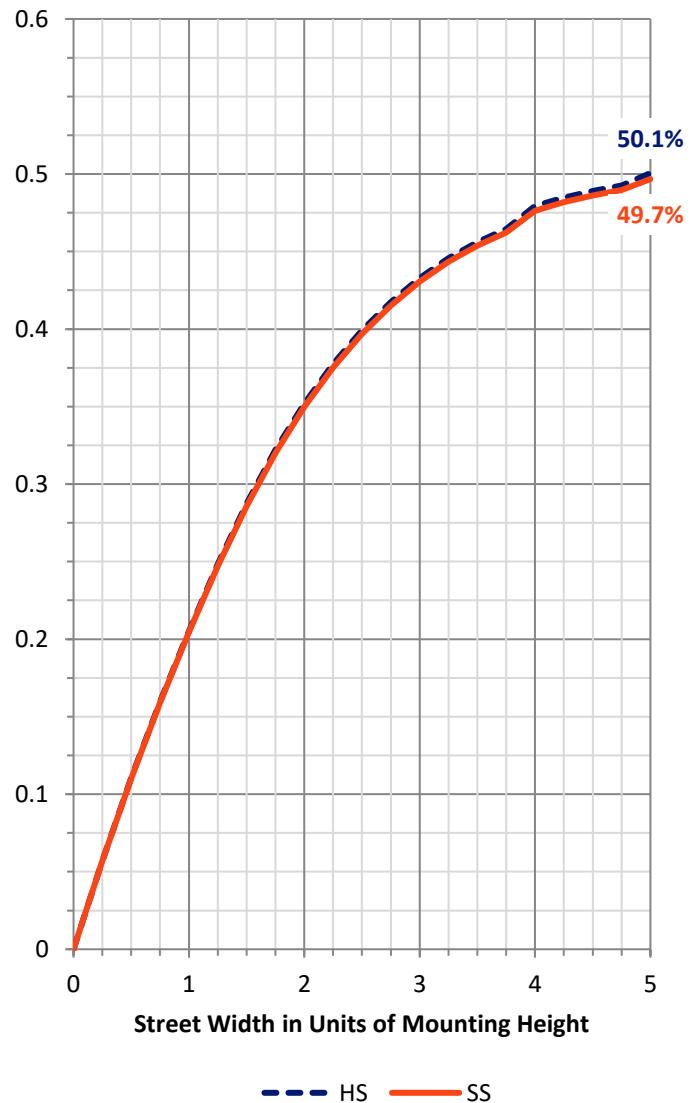
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4087.5	0.0	4087.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4087.5	0.0	4087.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8175.0	0.0	8175.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	0.8
10°-20°	180.1	2.2
20°-30°	306.0	3.7
30°-40°	466.7	5.7
40°-50°	768.4	9.4
50°-60°	1341.9	16.4
60°-70°	2249.7	27.5
70°-80°	2407.6	29.5
80°-90°	392.7	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°	8175.0	100.0
0°-180°	8175.0	100.0



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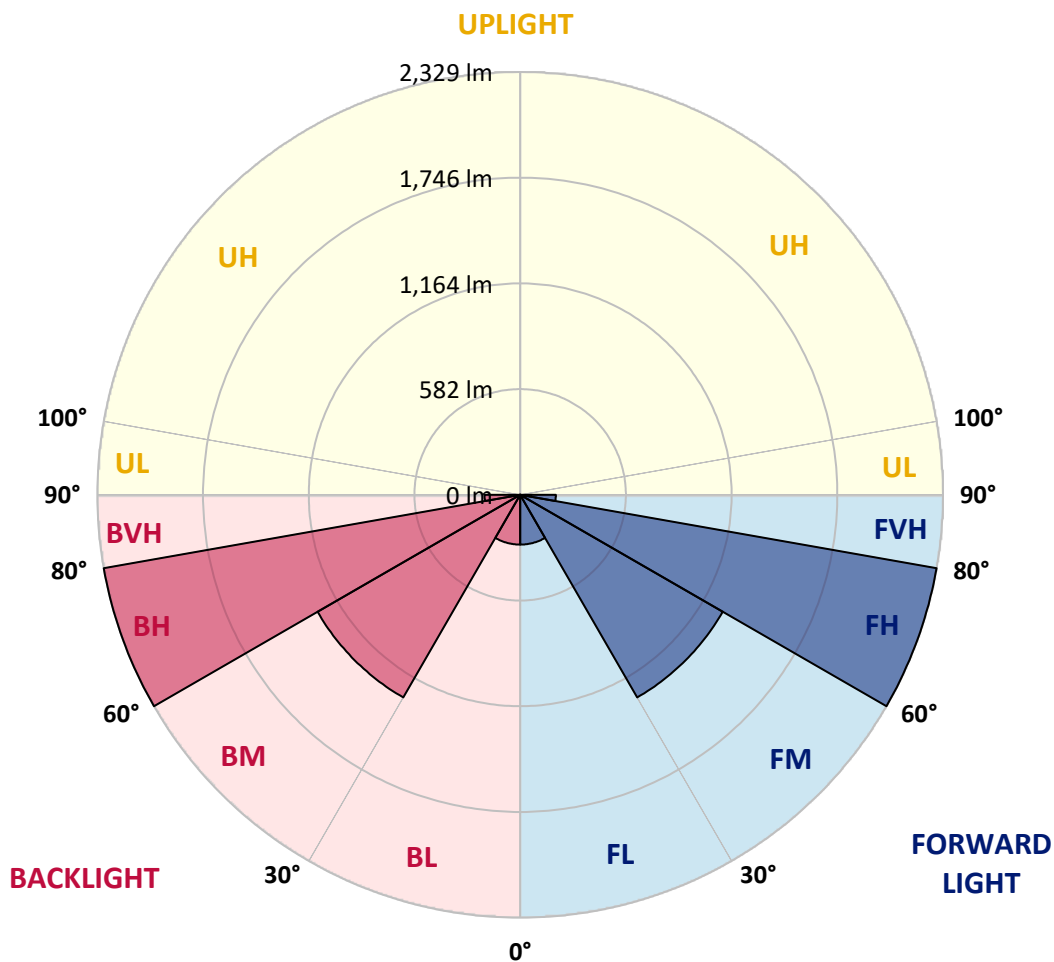
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	274.0	3.4			
FM (30°-60°)	1288.5	15.8			
FH (60°-80°)	2328.7	28.5			G2/5000
FVH (80°-90°)	196.3	2.4			G2/225
BL (0°-30°)	274.0	3.4	B1/500		
BM (30°-60°)	1288.5	15.8	B2/2500		
BH (60°-80°)	2328.7	28.5	B3/2500		G2/5000
BVH (80°-90°)	196.3	2.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5
2.5°	672.3	672.3	672.3	671.3	669.2	668.1	666.1	667.1	667.1	667.1	667.1
5°	664.0	664.0	662.9	661.9	659.8	658.7	656.7	658.7	658.7	658.7	658.7
7.5°	648.3	649.3	649.3	648.3	645.2	644.1	641.0	642.0	642.0	643.1	642.0
10°	640.0	640.0	638.9	633.7	628.5	626.4	625.3	628.5	631.6	634.7	634.7
12.5°	640.0	640.0	637.9	629.5	622.2	622.2	622.2	626.4	632.6	638.9	640.0
15°	643.1	643.1	638.9	629.5	625.3	626.4	626.4	630.6	637.9	646.2	647.3
17.5°	645.2	645.2	640.0	630.6	630.6	633.7	631.6	634.7	642.0	651.4	652.5
20°	648.3	648.3	641.0	633.7	633.7	636.8	636.8	640.0	646.2	655.6	656.7
22.5°	654.6	653.5	646.2	640.0	640.0	642.0	644.1	648.3	653.5	661.9	664.0
25°	661.9	661.9	655.6	654.6	656.7	661.9	660.8	659.8	661.9	669.2	672.3
27.5°	666.1	666.1	661.9	665.0	673.4	677.5	672.3	668.1	668.1	675.4	676.5
30°	679.6	678.6	674.4	676.5	683.8	685.9	682.8	677.5	680.7	689.0	690.1
32.5°	702.6	702.6	696.3	696.3	701.5	709.9	699.5	696.3	700.5	709.9	710.9
35°	738.1	738.1	729.7	725.6	729.7	741.2	725.6	724.5	731.8	742.3	743.3
37.5°	783.0	783.0	777.8	767.3	768.4	775.7	762.1	761.1	774.6	786.1	786.1
40°	839.3	842.5	837.3	824.7	820.6	821.6	811.2	812.2	827.9	841.4	841.4
42.5°	909.3	911.4	903.0	893.6	888.4	885.3	874.8	876.9	895.7	913.5	913.5
45°	993.9	994.9	986.5	975.1	968.8	966.7	956.3	961.5	982.4	1001.2	1000.1
47.5°	1088.9	1089.9	1081.5	1070.1	1065.9	1069.0	1058.6	1058.6	1077.4	1093.0	1090.9
50°	1196.4	1198.5	1189.1	1183.9	1180.7	1189.1	1176.6	1165.1	1177.6	1193.3	1191.2
52.5°	1315.4	1320.6	1314.4	1316.4	1327.9	1338.4	1317.5	1292.4	1298.7	1309.1	1306.0
55°	1459.5	1465.7	1467.8	1475.1	1505.4	1523.1	1488.7	1446.9	1443.8	1444.8	1439.6
57.5°	1621.3	1625.5	1639.0	1655.7	1718.4	1746.6	1692.3	1620.2	1597.3	1583.7	1580.6
60°	1784.1	1791.4	1824.9	1859.3	1955.3	2006.5	1923.0	1801.9	1752.8	1727.8	1722.5
62.5°	1948.0	1962.7	2016.9	2075.4	2215.3	2291.5	2163.1	1987.7	1916.7	1885.4	1877.1
65°	2138.0	2155.8	2221.6	2295.7	2451.2	2558.8	2403.2	2179.8	2103.6	2061.8	2051.4
67.5°	2360.4	2379.2	2432.4	2514.9	2662.1	2767.6	2629.8	2376.1	2276.9	2223.6	2215.3
70°	2543.1	2559.8	2617.2	2700.7	2810.4	2930.4	2798.9	2532.7	2442.9	2405.3	2400.1
72.5°	2514.9	2536.8	2621.4	2746.7	2903.3	3039.0	2873.0	2562.9	2433.5	2381.3	2364.6
75°	2196.5	2220.5	2320.7	2547.3	2833.3	3035.9	2765.5	2361.5	2209.0	2165.2	2156.8
77.5°	1454.2	1477.2	1646.3	2003.4	2474.2	2766.5	2440.8	1978.3	1733.0	1627.5	1621.3
80°	587.8	617.0	778.8	1157.8	1753.9	2150.6	1810.2	1266.3	854.0	689.0	655.6
82.5°	136.8	162.9	237.0	427.0	897.8	1339.4	976.1	472.9	274.6	195.2	175.4
85°	57.4	58.5	101.3	138.8	280.8	540.8	319.5	172.3	139.9	102.3	100.2
87.5°	21.9	23.0	49.1	58.5	89.8	102.3	108.6	88.7	82.5	51.2	49.1
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)