

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: P348735

Luminaire Tested: **ARCH-N-PA1-60-827-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348735  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-N-PA1-60-827-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 1160mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5752 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

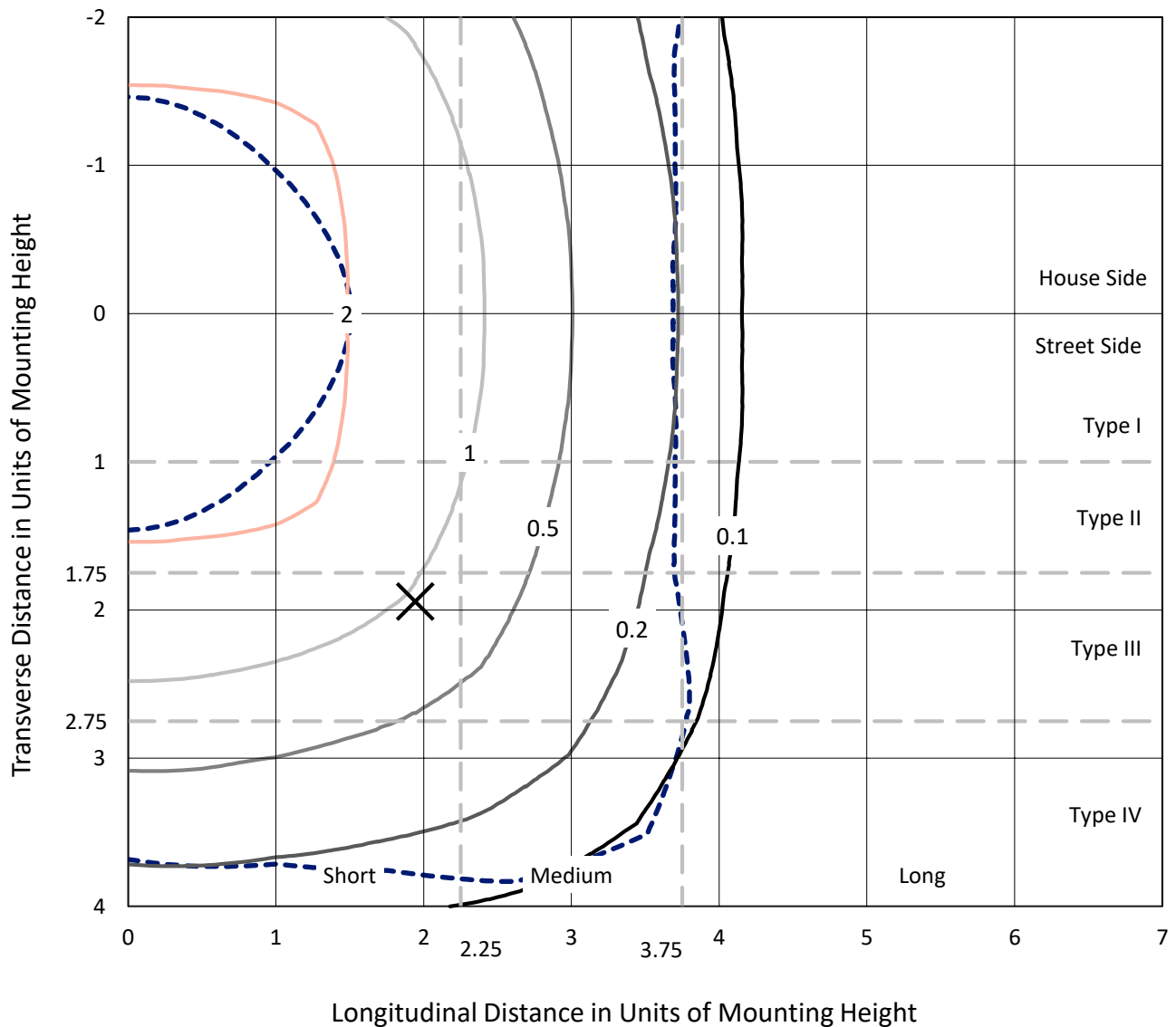
Input Watts (W): 62  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

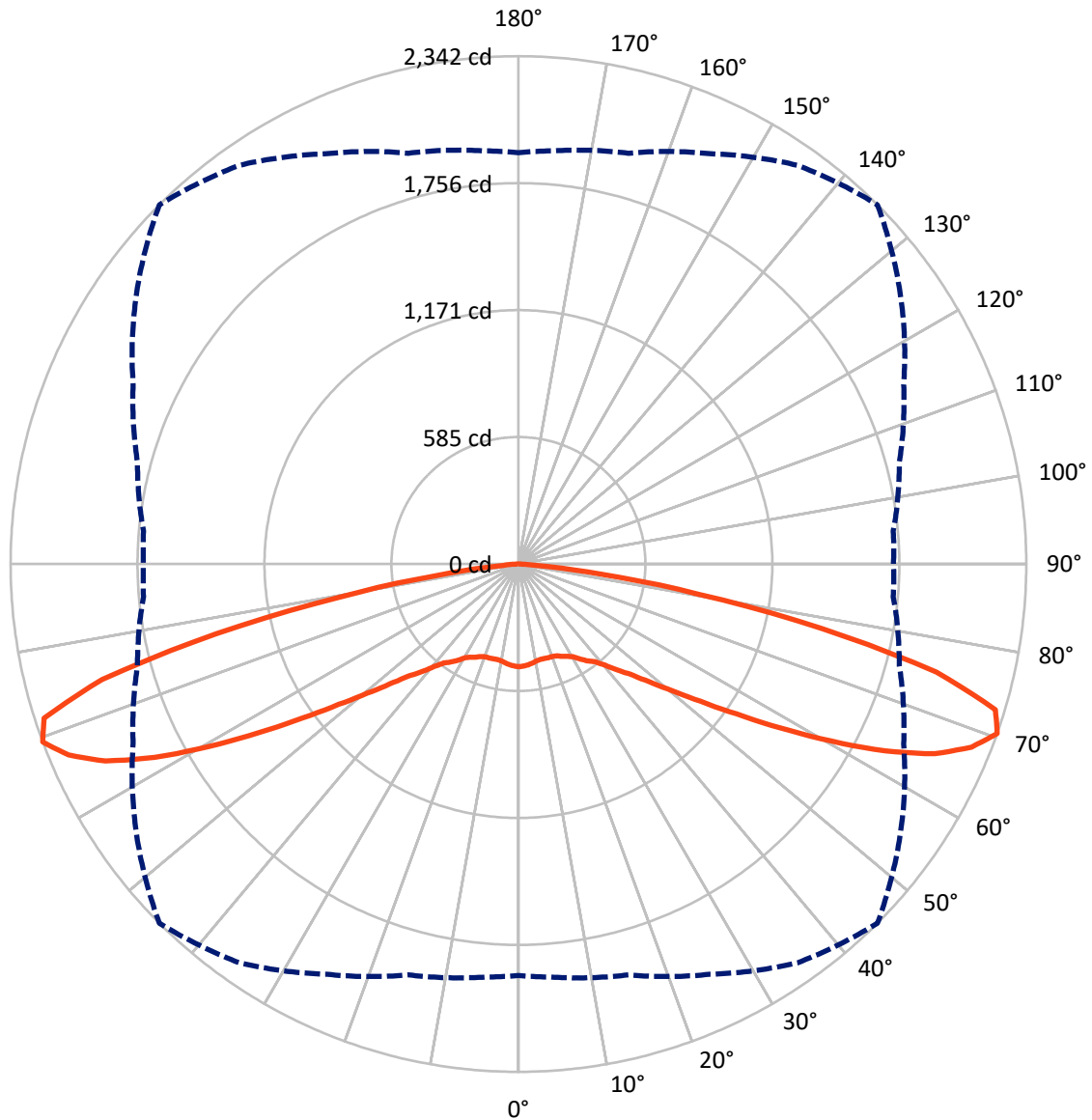


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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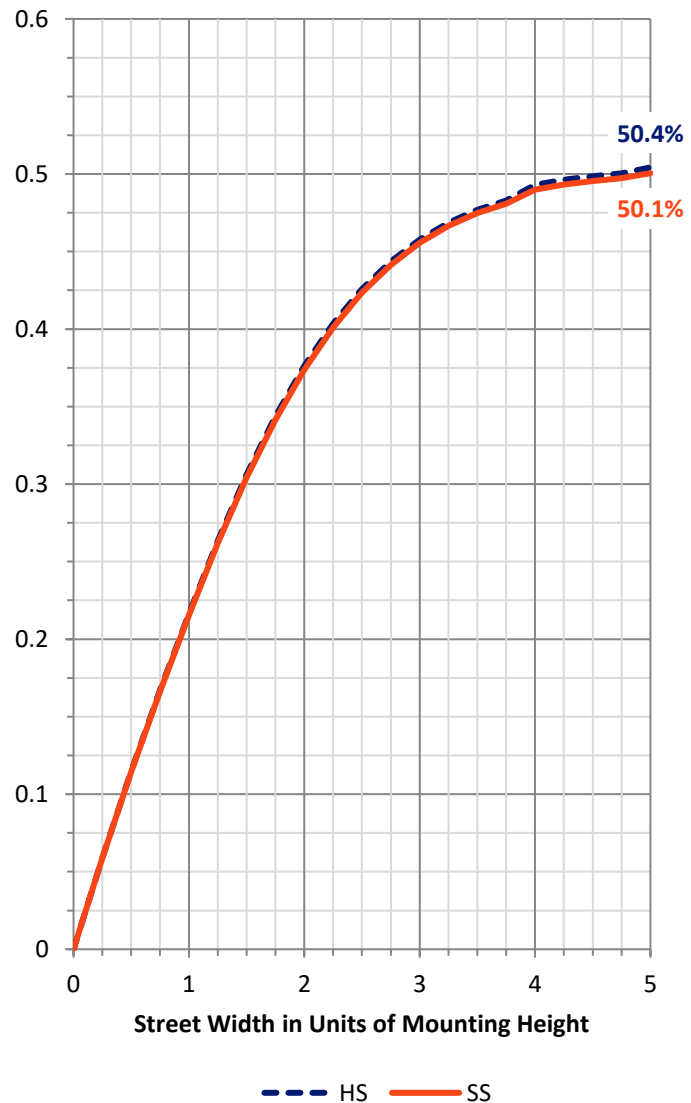
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2876.0	0.0	2876.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2876.0	0.0	2876.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5752.0	0.0	5752.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.2	0.8
10°-20°	129.1	2.2
20°-30°	220.0	3.8
30°-40°	343.8	6.0
40°-50°	582.7	10.1
50°-60°	1062.6	18.5
60°-70°	1829.3	31.8
70°-80°	1433.9	24.9
80°-90°	106.3	1.8
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°	5752.0	100.0
0°-180°	5752.0	100.0



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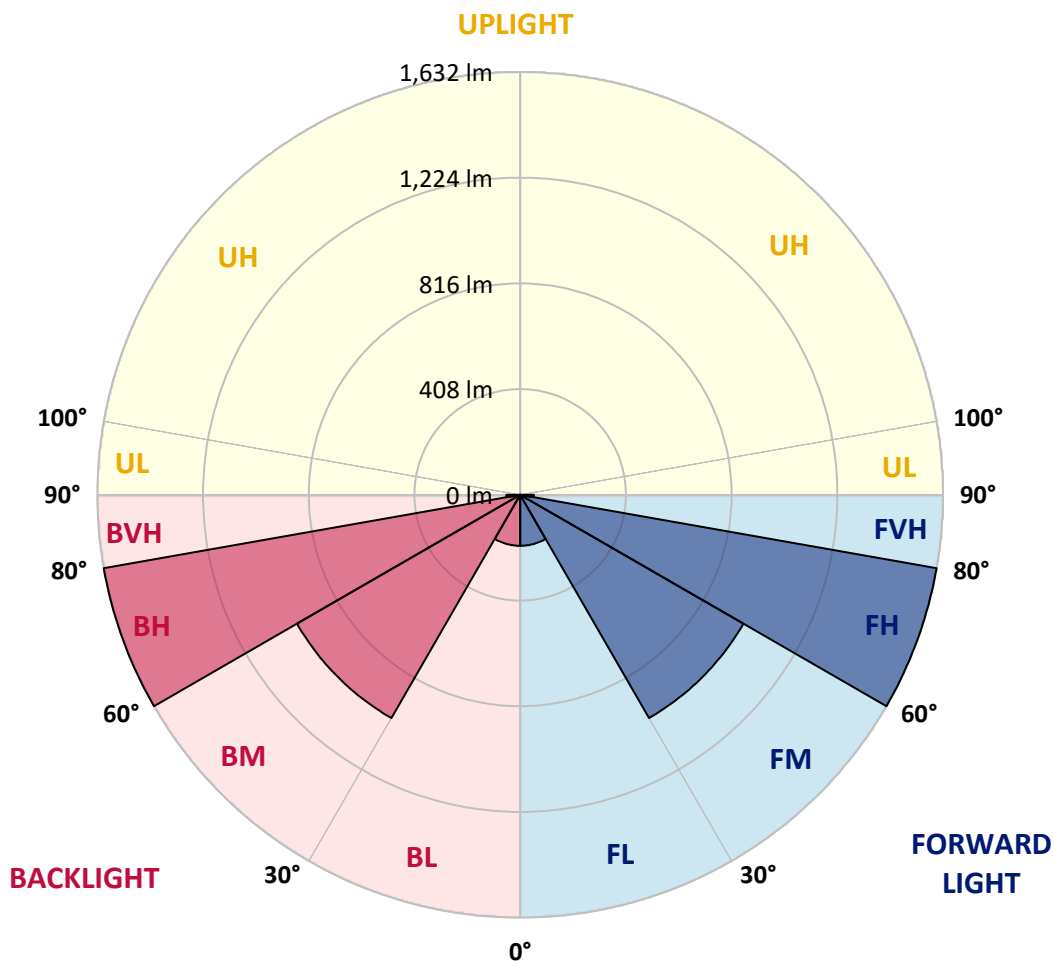
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.6	3.4			
FM	(30°-60°)	994.6	17.3			
FH	(60°-80°)	1631.6	28.4			G1/1800
FVH	(80°-90°)	53.2	0.9			G1/100
BL	(0°-30°)	196.6	3.4	B1/500		
BM	(30°-60°)	994.6	17.3	B1/1000		
BH	(60°-80°)	1631.6	28.4	B3/2500		G1/1800
BVH	(80°-90°)	53.2	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4	473.4
2.5°	471.3	471.9	471.3	471.7	470.7	471.1	471.1	471.1	470.9	471.1	470.7
5°	467.1	467.5	466.7	467.1	466.5	467.1	467.3	467.1	466.7	466.9	466.2
7.5°	460.8	461.2	460.6	461.2	460.5	461.4	461.2	460.6	460.1	460.1	459.3
10°	457.4	457.6	456.1	455.5	453.8	454.2	454.7	455.3	455.9	457.0	456.8
12.5°	457.6	457.6	455.3	452.8	450.4	450.9	451.9	454.0	456.3	458.4	458.5
15°	459.5	459.3	455.9	451.9	450.2	451.9	452.5	453.8	457.4	461.0	461.2
17.5°	460.8	460.8	455.5	450.9	450.7	453.4	453.2	453.8	457.8	463.1	463.3
20°	463.3	463.3	456.5	451.5	451.5	454.4	454.6	455.5	459.5	465.4	466.4
22.5°	468.8	469.0	461.8	457.8	458.2	459.9	460.5	462.0	465.6	472.1	473.2
25°	476.6	477.0	469.6	467.3	468.6	471.9	471.5	472.6	476.6	482.9	484.0
27.5°	487.5	486.5	479.7	478.7	480.0	482.3	482.1	482.3	485.6	491.3	492.6
30°	501.6	501.2	496.2	496.8	496.2	495.5	495.7	497.2	498.9	503.5	504.8
32.5°	515.2	515.6	512.6	515.4	519.6	522.5	518.1	513.9	512.0	514.5	515.6
35°	540.0	540.9	536.2	534.3	540.0	548.4	536.0	529.1	532.9	536.2	537.1
37.5°	582.0	582.6	574.6	567.0	562.8	570.8	558.4	559.0	572.3	578.4	578.2
40°	630.0	630.2	624.8	618.2	611.0	612.9	607.9	609.4	618.2	623.7	625.2
42.5°	687.1	686.5	678.1	668.6	666.5	668.4	660.0	658.9	669.0	678.9	679.1
45°	761.1	759.7	748.9	738.4	728.4	724.2	722.1	727.6	741.5	750.6	750.8
47.5°	840.8	837.2	831.5	823.1	814.4	810.2	806.7	809.4	819.5	823.1	823.5
50°	922.8	923.6	924.7	921.5	918.2	916.9	908.0	902.8	905.9	899.2	898.3
52.5°	1020.0	1021.6	1032.6	1041.9	1047.4	1050.3	1033.4	1015.7	1005.8	992.8	989.0
55°	1134.8	1137.2	1153.4	1179.3	1205.9	1220.0	1189.4	1156.3	1125.6	1101.5	1093.7
57.5°	1262.6	1267.0	1289.3	1338.9	1393.5	1426.8	1375.1	1315.0	1255.8	1221.0	1214.9
60°	1412.6	1416.7	1447.6	1518.7	1607.2	1657.2	1578.9	1480.5	1406.9	1373.6	1362.3
62.5°	1591.0	1591.4	1629.3	1712.4	1829.3	1898.9	1792.7	1661.2	1585.3	1545.2	1534.3
65°	1783.0	1784.0	1823.2	1913.0	2033.8	2109.5	1989.6	1852.7	1759.8	1700.6	1692.3
67.5°	1918.7	1922.7	1964.0	2072.0	2185.1	2253.4	2129.3	1974.4	1867.1	1796.5	1789.5
70°	1897.0	1912.6	1961.1	2087.3	2244.4	2341.8	2151.9	1960.0	1818.4	1735.1	1729.2
72.5°	1654.4	1684.3	1749.0	1914.5	2165.8	2300.0	2028.5	1755.4	1595.2	1524.2	1513.6
75°	1126.6	1175.1	1272.7	1511.5	1850.4	1991.4	1707.7	1399.6	1248.9	1150.7	1143.5
77.5°	502.3	513.3	637.0	912.0	1276.9	1430.1	1240.7	915.6	687.3	548.2	518.9
80°	140.0	141.8	189.1	339.6	639.1	840.2	686.1	356.8	200.5	141.4	133.2
82.5°	44.5	48.3	59.0	88.1	214.8	383.4	220.5	95.1	67.7	54.0	48.7
85°	21.7	21.5	29.9	35.8	54.8	84.9	58.4	44.1	38.6	25.7	23.2
87.5°	9.1	9.3	13.9	12.6	16.0	13.7	18.8	19.8	20.7	11.4	9.9
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)