

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: P397580

Luminaire Tested: **ARCH-S-PA1-100-827-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397580  
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-PA1-100-827-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8852 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U0 - G2

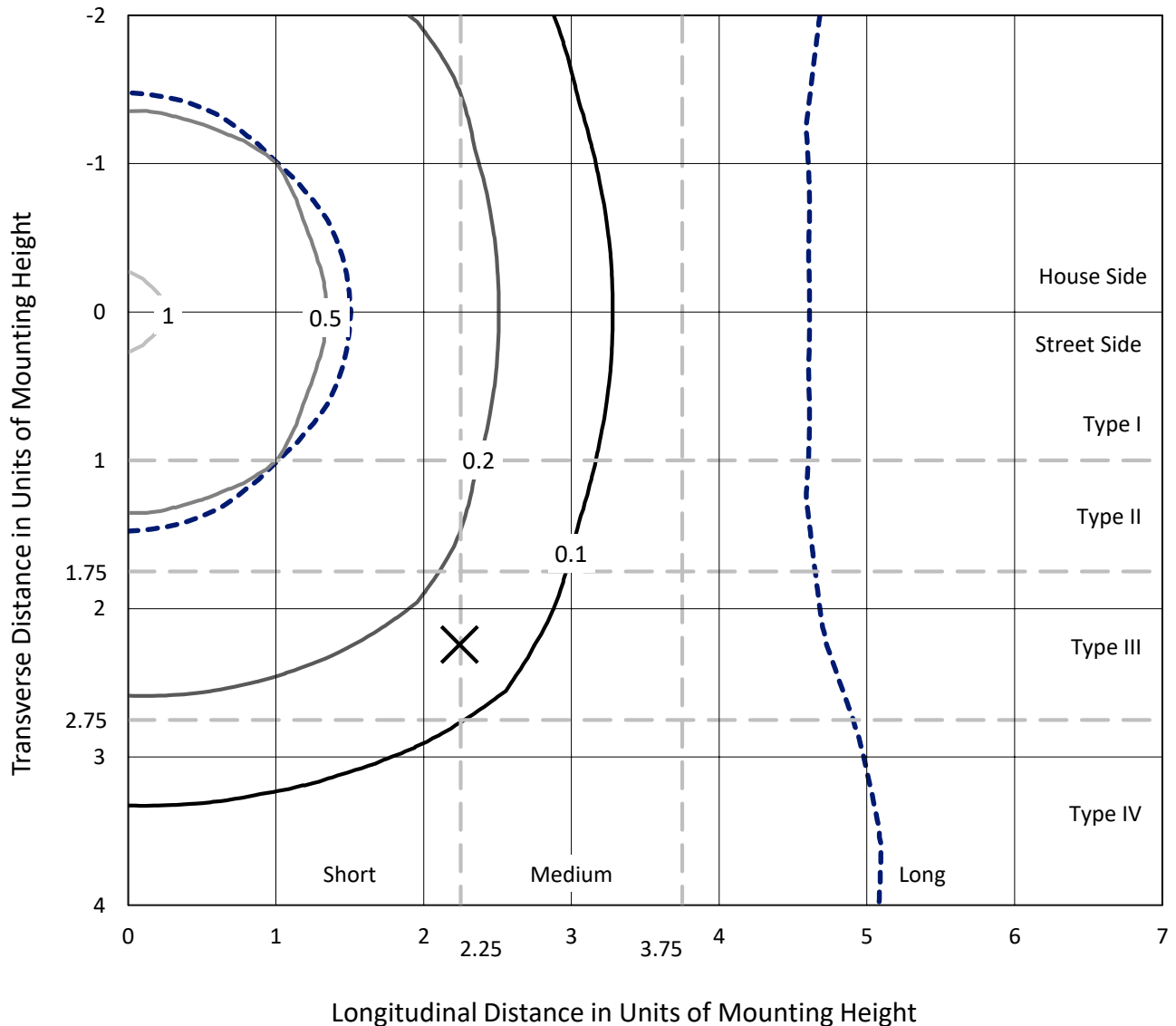
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

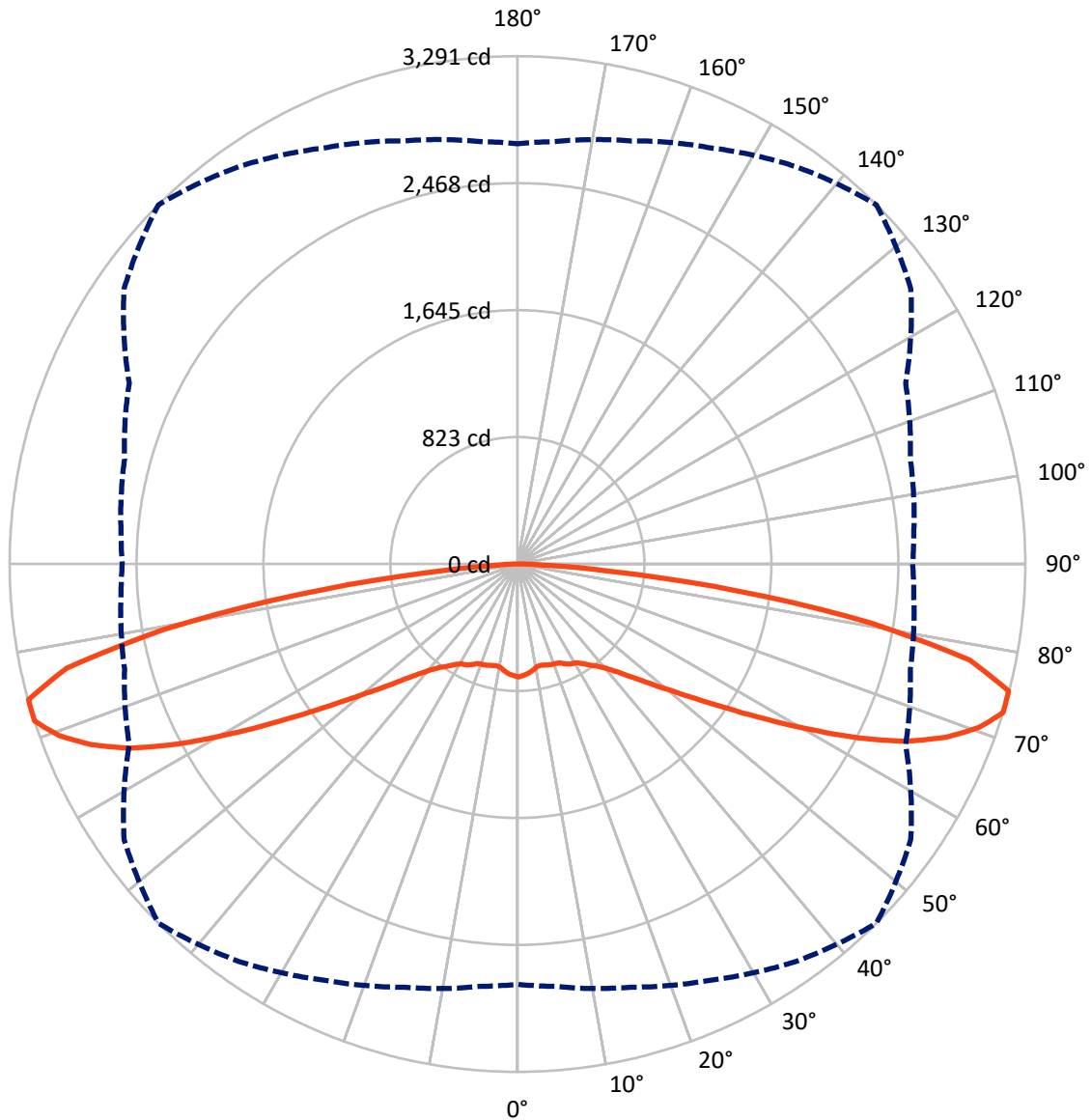


Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - Non-Cutoff

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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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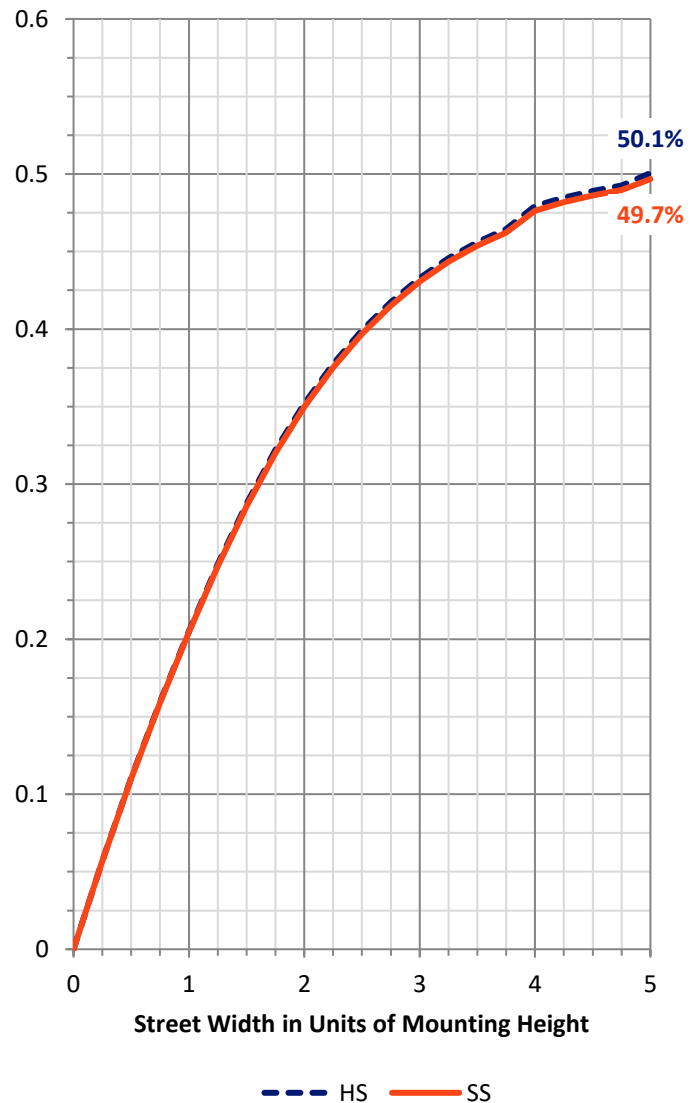
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4426.0	0.0	4426.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4426.0	0.0	4426.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8852.0	0.0	8852.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.2	0.8
10°-20°	195.0	2.2
20°-30°	331.3	3.7
30°-40°	505.3	5.7
40°-50°	832.0	9.4
50°-60°	1453.0	16.4
60°-70°	2436.0	27.5
70°-80°	2607.0	29.5
80°-90°	425.2	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°	8852.0	100.0
0°-180°	8852.0	100.0

**Coefficient of Utilization**



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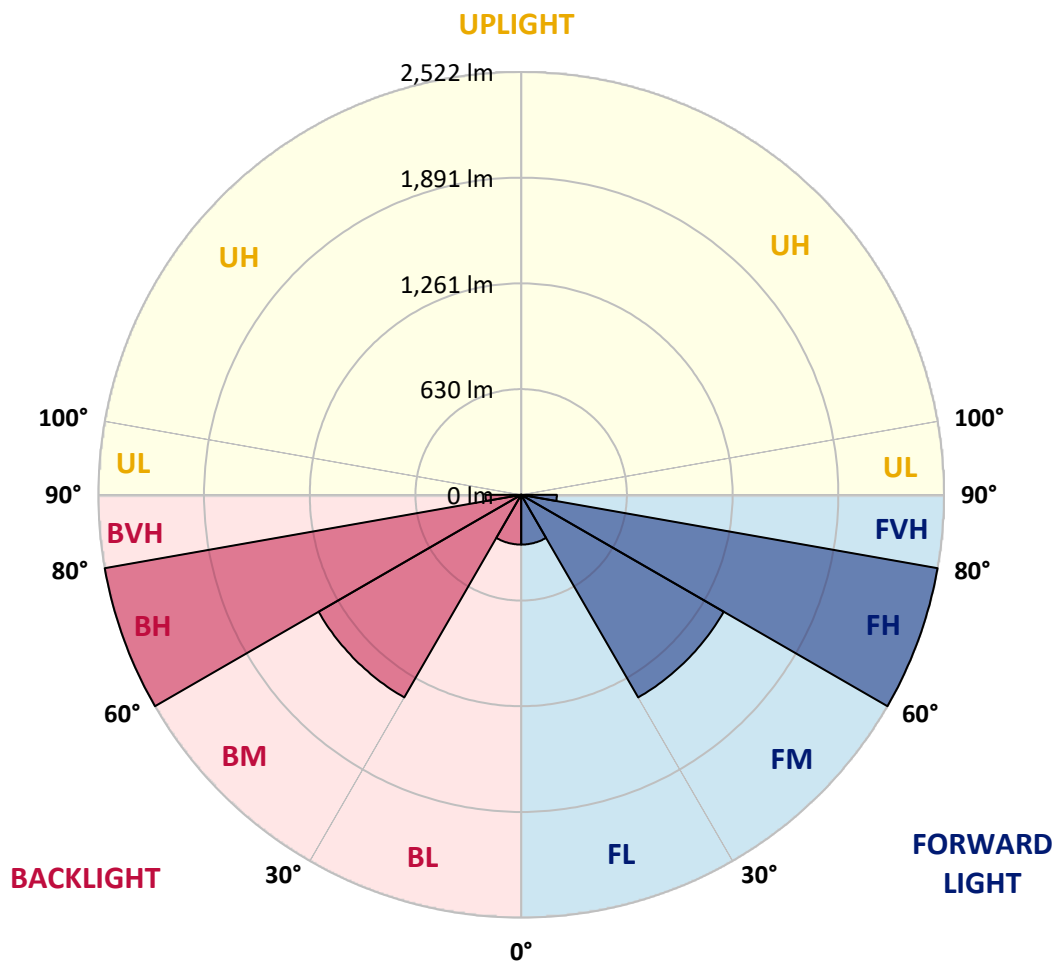
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	296.7	3.4			
FM (30°-60°)	1395.2	15.8			
FH (60°-80°)	2521.5	28.5			G2/5000
FVH (80°-90°)	212.6	2.4			G2/225
BL (0°-30°)	296.7	3.4	B1/500		
BM (30°-60°)	1395.2	15.8	B2/2500		
BH (60°-80°)	2521.5	28.5	B4/5000		G2/5000
BVH (80°-90°)	212.6	2.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5	732.5
2.5°	728.0	728.0	728.0	726.9	724.6	723.5	721.2	722.3	722.3	722.3	722.3
5°	718.9	718.9	717.8	716.7	714.4	713.3	711.0	713.3	713.3	713.3	713.3
7.5°	702.0	703.1	703.1	702.0	698.6	697.5	694.1	695.2	695.2	696.3	695.2
10°	692.9	692.9	691.8	686.2	680.5	678.3	677.1	680.5	683.9	687.3	687.3
12.5°	692.9	692.9	690.7	681.6	673.7	673.7	673.7	678.3	685.0	691.8	692.9
15°	696.3	696.3	691.8	681.6	677.1	678.3	678.3	682.8	690.7	699.7	700.9
17.5°	698.6	698.6	692.9	682.8	682.8	686.2	683.9	687.3	695.2	705.4	706.5
20°	702.0	702.0	694.1	686.2	686.2	689.6	689.6	692.9	699.7	709.9	711.0
22.5°	708.8	707.6	699.7	692.9	692.9	695.2	697.5	702.0	707.6	716.7	718.9
25°	716.7	716.7	709.9	708.8	711.0	716.7	715.6	714.4	716.7	724.6	728.0
27.5°	721.2	721.2	716.7	720.1	729.1	733.6	728.0	723.5	723.5	731.4	732.5
30°	735.9	734.8	730.3	732.5	740.4	742.7	739.3	733.6	737.0	746.1	747.2
32.5°	760.8	760.8	754.0	754.0	759.6	768.7	757.4	754.0	758.5	768.7	769.8
35°	799.2	799.2	790.2	785.6	790.2	802.6	785.6	784.5	792.4	803.7	804.9
37.5°	847.8	847.8	842.2	830.9	832.0	839.9	825.2	824.1	838.8	851.2	851.2
40°	908.9	912.2	906.6	893.0	888.5	889.6	878.3	879.5	896.4	911.1	911.1
42.5°	984.6	986.9	977.8	967.6	962.0	958.6	947.3	949.6	969.9	989.1	989.1
45°	1076.2	1077.3	1068.2	1055.8	1049.0	1046.8	1035.5	1041.1	1063.7	1084.1	1082.9
47.5°	1179.0	1180.2	1171.1	1158.7	1154.2	1157.6	1146.2	1146.2	1166.6	1183.6	1181.3
50°	1295.5	1297.7	1287.5	1281.9	1278.5	1287.5	1274.0	1261.5	1275.1	1292.1	1289.8
52.5°	1424.3	1430.0	1423.2	1425.5	1437.9	1449.2	1426.6	1399.5	1406.2	1417.5	1414.2
55°	1580.3	1587.1	1589.4	1597.3	1630.1	1649.3	1612.0	1566.8	1563.4	1564.5	1558.9
57.5°	1755.5	1760.1	1774.8	1792.8	1860.7	1891.2	1832.4	1754.4	1729.5	1714.8	1711.5
60°	1931.9	1939.8	1976.0	2013.3	2117.3	2172.7	2082.2	1951.1	1898.0	1870.8	1865.2
62.5°	2109.4	2125.2	2184.0	2247.3	2398.8	2481.3	2342.2	2152.3	2075.5	2041.5	2032.5
65°	2315.1	2334.3	2405.5	2485.8	2654.2	2770.7	2602.2	2360.3	2277.8	2232.6	2221.3
67.5°	2555.9	2576.2	2633.9	2723.2	2882.6	2996.7	2847.5	2572.8	2465.4	2407.8	2398.8
70°	2753.7	2771.8	2834.0	2924.4	3043.1	3173.1	3030.7	2742.4	2645.2	2604.5	2598.8
72.5°	2723.2	2746.9	2838.5	2974.1	3143.7	3290.7	3110.9	2775.2	2635.0	2578.5	2560.4
75°	2378.4	2404.4	2512.9	2758.2	3068.0	3287.3	2994.5	2557.0	2392.0	2344.5	2335.4
77.5°	1574.7	1599.5	1782.7	2169.3	2679.1	2995.6	2642.9	2142.1	1876.5	1762.3	1755.5
80°	636.4	668.1	843.3	1253.6	1899.1	2328.7	1960.2	1371.2	924.7	746.1	709.9
82.5°	148.1	176.3	256.6	462.3	972.2	1450.3	1056.9	512.1	297.3	211.4	189.9
85°	62.2	63.3	109.7	150.3	304.1	585.6	345.9	186.5	151.5	110.8	108.5
87.5°	23.7	24.9	53.1	63.3	97.2	110.8	117.6	96.1	89.3	55.4	53.1
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)