

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: P397850

Luminaire Tested: **ARCH-S-PA1-50-750-U-5WQ**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P397850  
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-PA1-50-750-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8040 lumens  
Efficiency: N/A  
Efficacy: 148.9 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

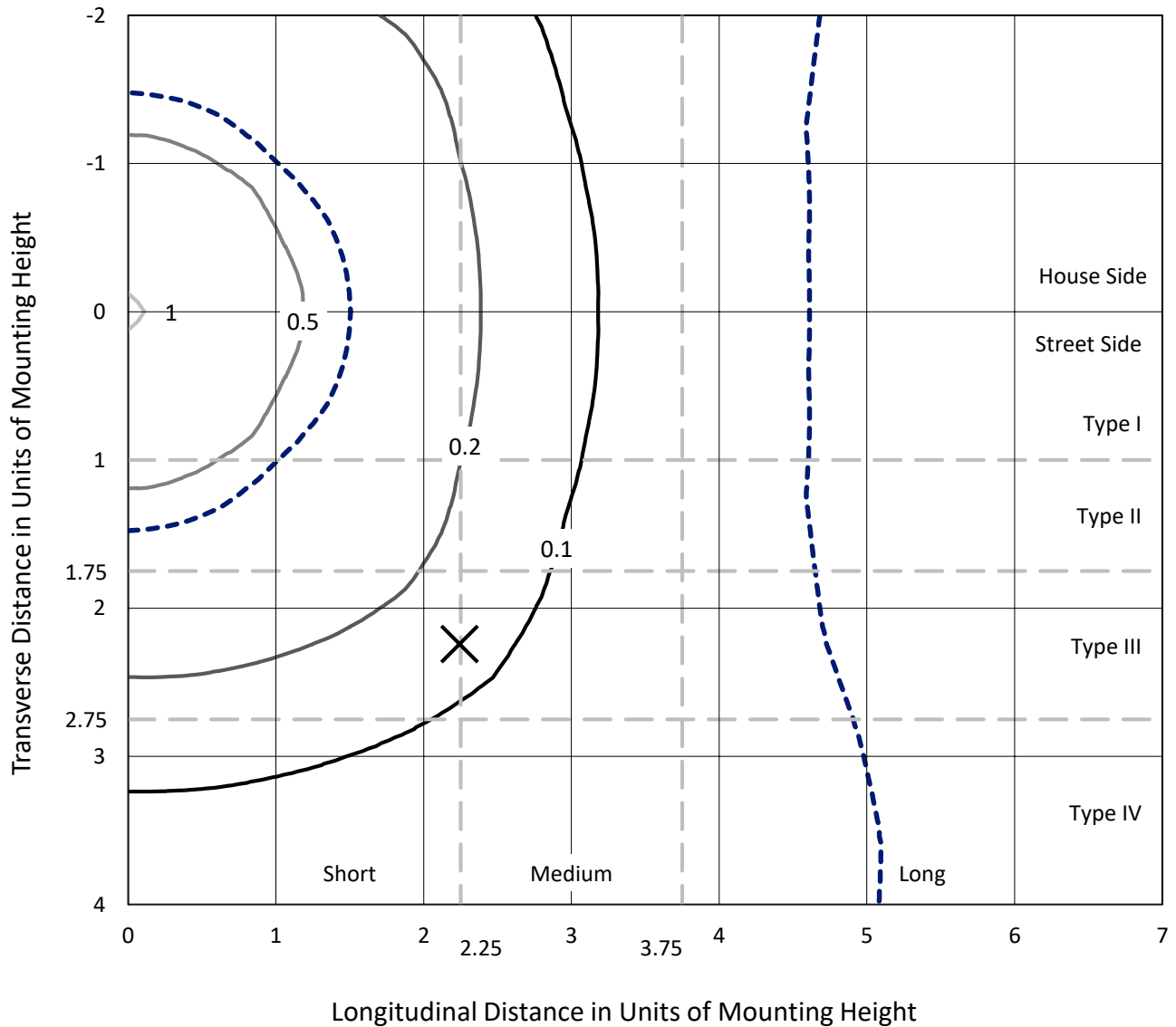
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

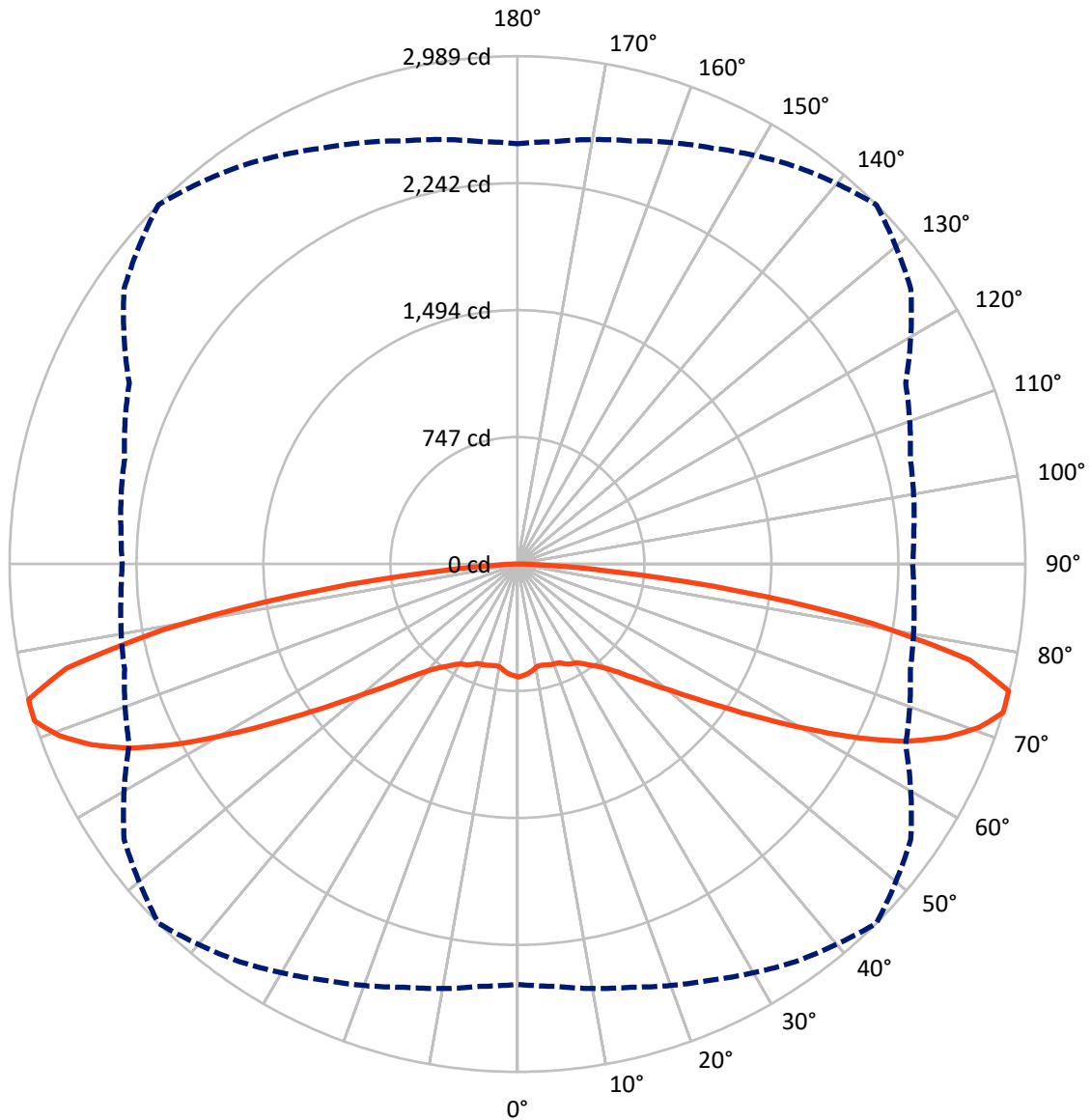


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - Non-Cutoff

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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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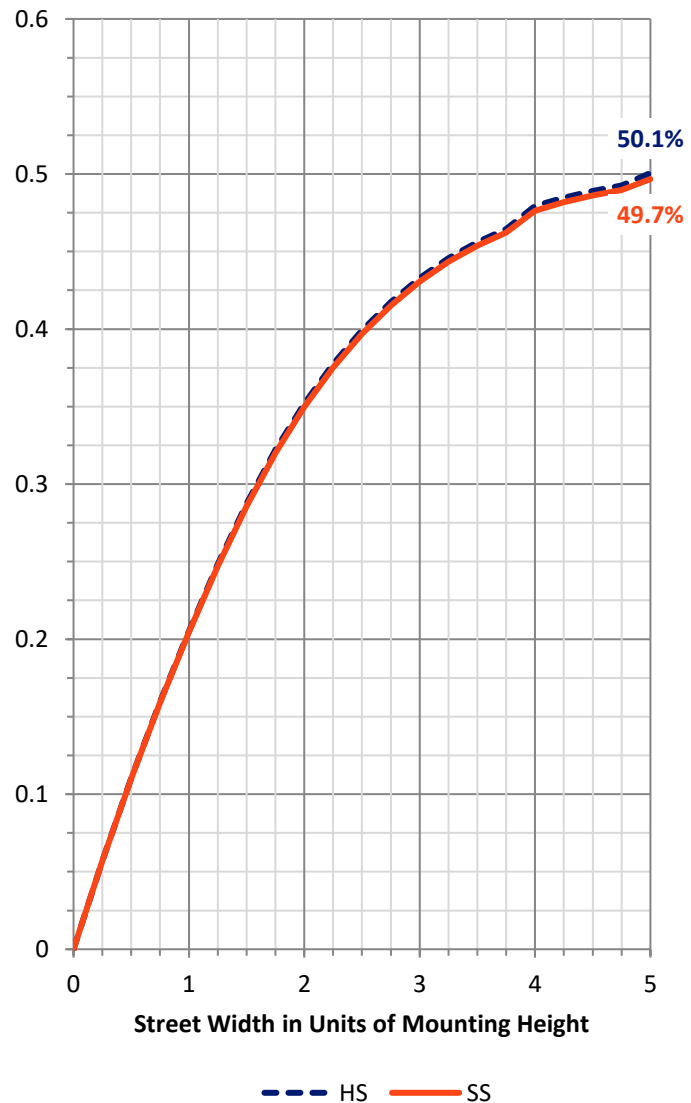
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4020.0	0.0	4020.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4020.0	0.0	4020.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8040.0	0.0	8040.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.0	0.8
10°-20°	177.1	2.2
20°-30°	300.9	3.7
30°-40°	459.0	5.7
40°-50°	755.7	9.4
50°-60°	1319.7	16.4
60°-70°	2212.5	27.5
70°-80°	2367.9	29.5
80°-90°	386.2	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°	8040.0	100.0
0°-180°	8040.0	100.0



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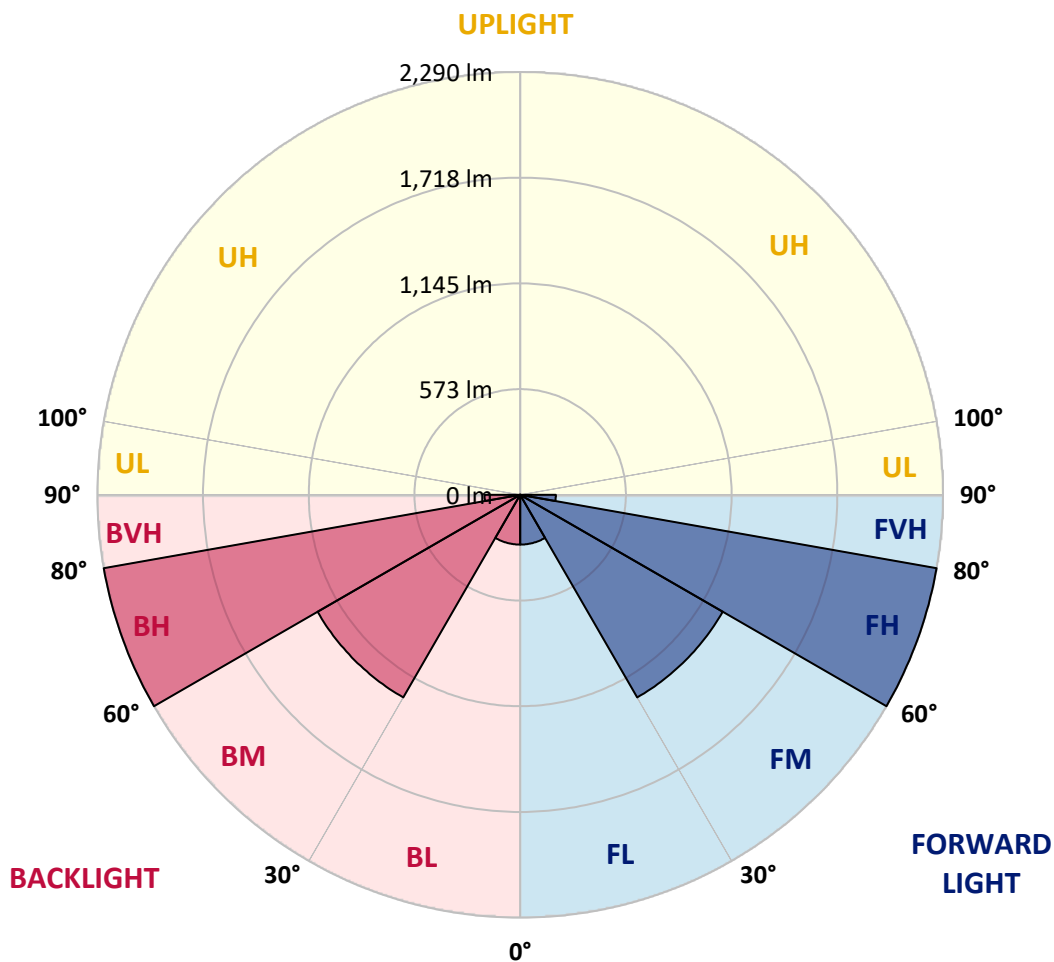
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	269.5	3.4			
FM	(30°-60°)	1267.2	15.8			
FH	(60°-80°)	2290.2	28.5			G2/5000
FVH	(80°-90°)	193.1	2.4			G2/225
BL	(0°-30°)	269.5	3.4	B1/500		
BM	(30°-60°)	1267.2	15.8	B2/2500		
BH	(60°-80°)	2290.2	28.5	B3/2500		G2/5000
BVH	(80°-90°)	193.1	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°	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3	665.3
2.5°	661.2	661.2	661.2	660.2	658.1	657.1	655.1	656.1	656.1	656.1	656.1
5°	653.0	653.0	652.0	650.9	648.9	647.9	645.8	647.9	647.9	647.9	647.9
7.5°	637.6	638.6	638.6	637.6	634.5	633.5	630.4	631.4	631.4	632.5	631.4
10°	629.4	629.4	628.4	623.2	618.1	616.0	615.0	618.1	621.2	624.2	624.2
12.5°	629.4	629.4	627.3	619.1	611.9	611.9	611.9	616.0	622.2	628.4	629.4
15°	632.5	632.5	628.4	619.1	615.0	616.0	616.0	620.1	627.3	635.5	636.6
17.5°	634.5	634.5	629.4	620.1	620.1	623.2	621.2	624.2	631.4	640.7	641.7
20°	637.6	637.6	630.4	623.2	623.2	626.3	626.3	629.4	635.5	644.8	645.8
22.5°	643.8	642.7	635.5	629.4	629.4	631.4	633.5	637.6	642.7	650.9	653.0
25°	650.9	650.9	644.8	643.8	645.8	650.9	649.9	648.9	650.9	658.1	661.2
27.5°	655.1	655.1	650.9	654.0	662.2	666.3	661.2	657.1	657.1	664.3	665.3
30°	668.4	667.4	663.3	665.3	672.5	674.6	671.5	666.3	669.4	677.6	678.7
32.5°	691.0	691.0	684.8	684.8	690.0	698.2	687.9	684.8	688.9	698.2	699.2
35°	725.9	725.9	717.7	713.6	717.7	729.0	713.6	712.5	719.7	730.0	731.0
37.5°	770.0	770.0	764.9	754.6	755.7	762.9	749.5	748.5	761.8	773.1	773.1
40°	825.5	828.6	823.4	811.1	807.0	808.0	797.8	798.8	814.2	827.5	827.5
42.5°	894.3	896.3	888.1	878.9	873.7	870.7	860.4	862.5	880.9	898.4	898.4
45°	977.4	978.5	970.3	959.0	952.8	950.7	940.5	945.6	966.1	984.6	983.6
47.5°	1070.9	1071.9	1063.7	1052.4	1048.3	1051.4	1041.1	1041.1	1059.6	1075.0	1072.9
50°	1176.6	1178.7	1169.4	1164.3	1161.2	1169.4	1157.1	1145.8	1158.1	1173.5	1171.5
52.5°	1293.7	1298.8	1292.6	1294.7	1306.0	1316.3	1295.7	1271.1	1277.2	1287.5	1284.4
55°	1435.4	1441.5	1443.6	1450.8	1480.5	1498.0	1464.1	1423.0	1420.0	1421.0	1415.9
57.5°	1594.5	1598.6	1612.0	1628.4	1690.0	1717.7	1664.3	1593.5	1570.9	1557.5	1554.5
60°	1754.7	1761.9	1794.7	1828.6	1923.1	1973.4	1891.2	1772.1	1723.9	1699.2	1694.1
62.5°	1915.9	1930.2	1983.6	2041.1	2178.7	2253.7	2127.4	1954.9	1885.1	1854.3	1846.1
65°	2102.7	2120.2	2184.9	2257.8	2410.8	2516.5	2363.5	2143.8	2068.9	2027.8	2017.5
67.5°	2321.4	2339.9	2392.3	2473.4	2618.2	2721.9	2586.3	2336.8	2239.3	2186.9	2178.7
70°	2501.1	2517.5	2574.0	2656.1	2763.9	2882.0	2752.7	2490.8	2402.5	2365.6	2360.4
72.5°	2473.4	2494.9	2578.1	2701.3	2855.3	2988.8	2825.6	2520.6	2393.3	2342.0	2325.5
75°	2160.2	2183.8	2282.4	2505.2	2786.5	2985.7	2719.8	2322.5	2172.6	2129.4	2121.2
77.5°	1430.2	1452.8	1619.1	1970.3	2433.3	2720.8	2400.5	1945.6	1704.4	1600.7	1594.5
80°	578.0	606.8	765.9	1138.6	1724.9	2115.1	1780.3	1245.4	839.9	677.6	644.8
82.5°	134.5	160.2	233.1	419.9	883.0	1317.3	960.0	465.1	270.0	192.0	172.5
85°	56.5	57.5	99.6	136.6	276.2	531.8	314.2	169.4	137.6	100.6	98.6
87.5°	21.6	22.6	48.3	57.5	88.3	100.6	106.8	87.3	81.1	50.3	48.3
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)