

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: P573498

Luminaire Tested: **ARCH-S-PA2-80-760-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573498  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-80-760-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12208 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

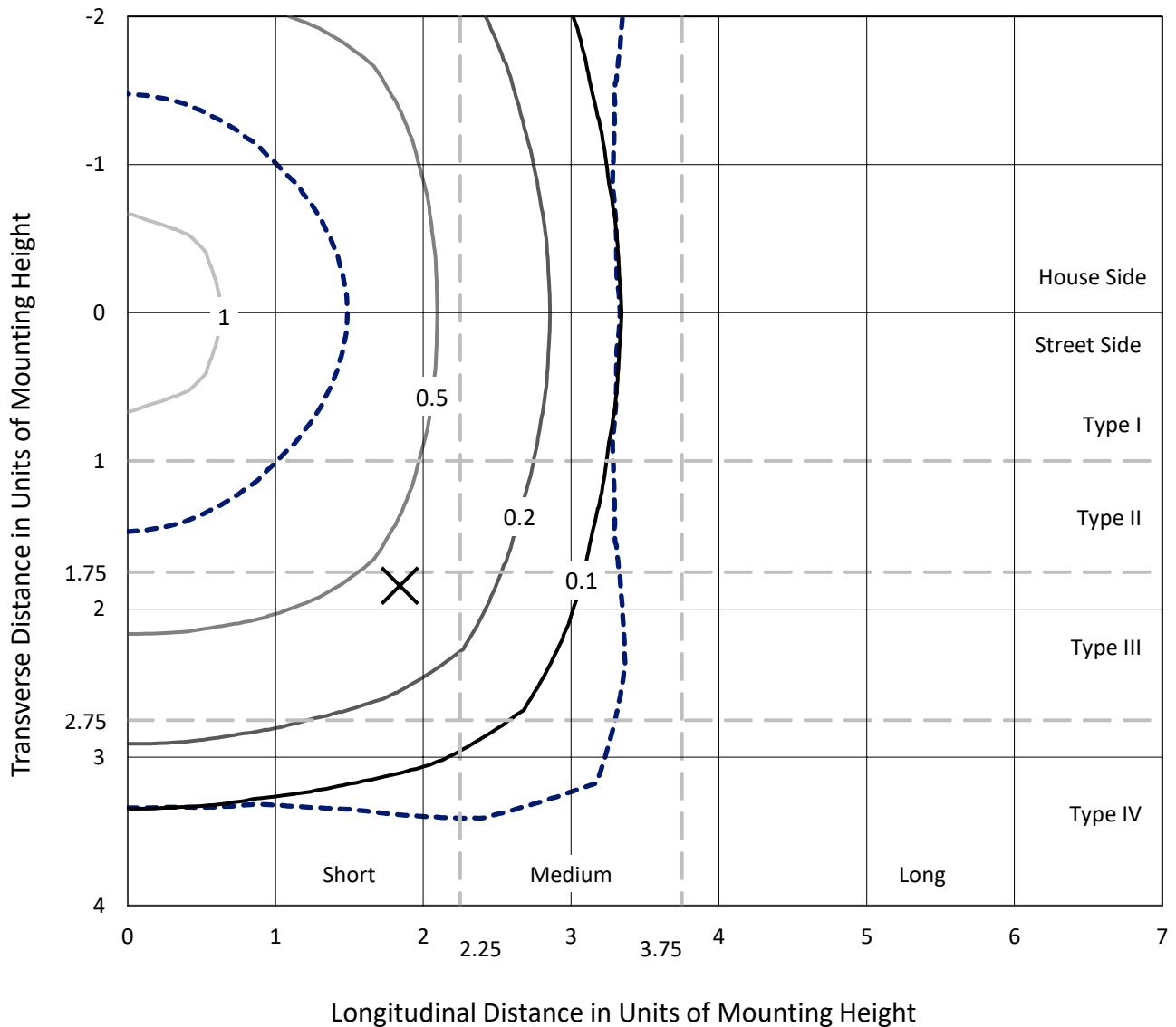
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

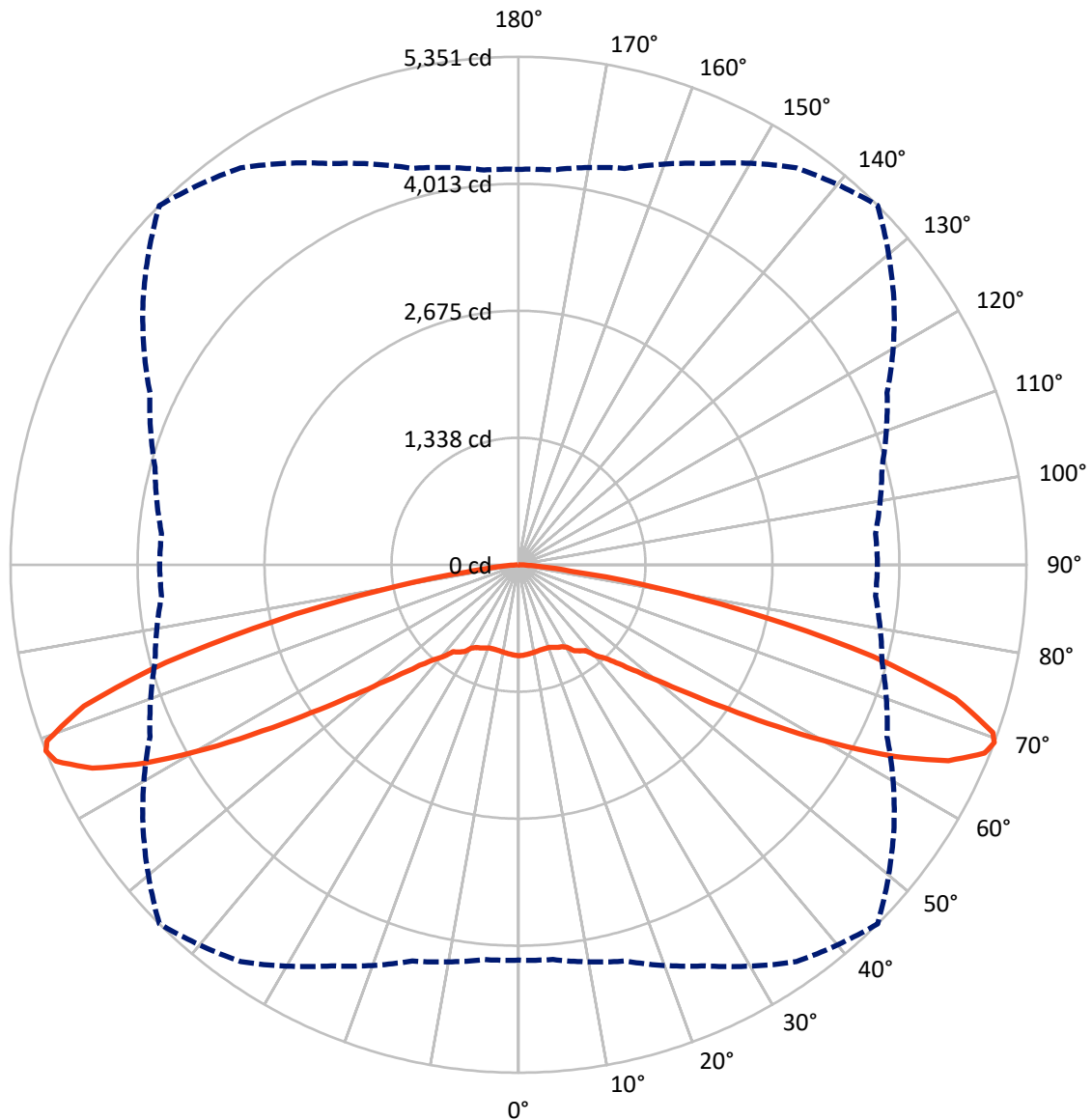
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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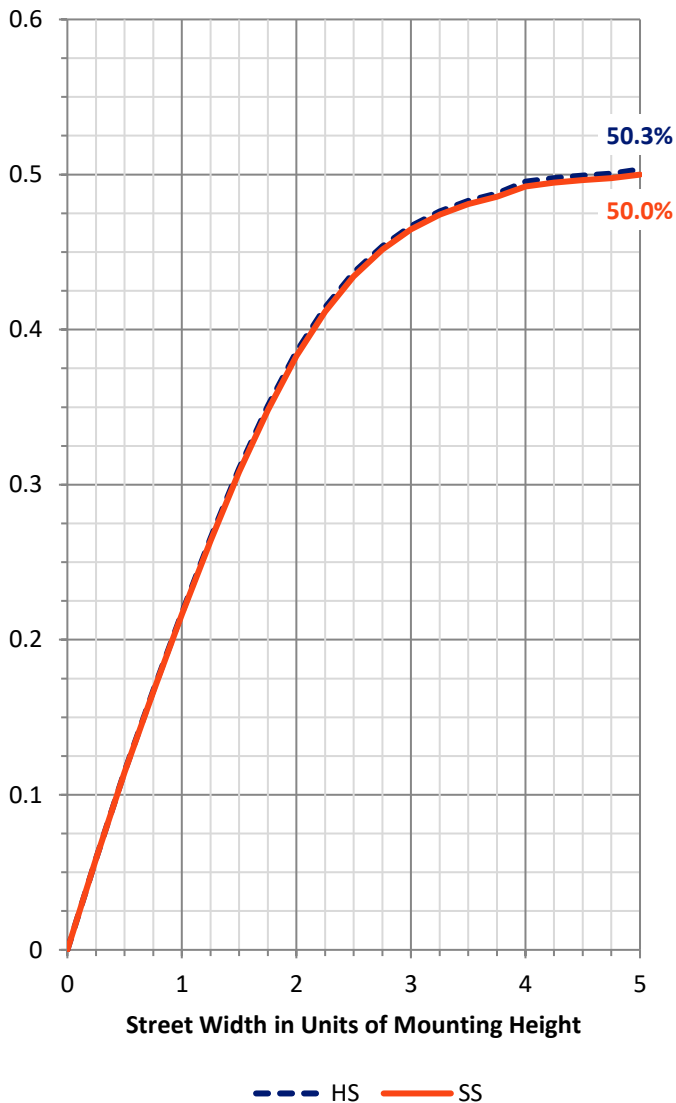
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6104.0	0.0	6104.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6104.0	0.0	6104.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12208.0	0.0	12208.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.3	0.7
10°-20°	265.4	2.2
20°-30°	450.0	3.7
30°-40°	699.6	5.7
40°-50°	1201.0	9.8
50°-60°	2389.5	19.6
60°-70°	4256.5	34.9
70°-80°	2680.7	22.0
80°-90°	175.1	1.4
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°	12208.0	100.0
0°-180°	12208.0	100.0

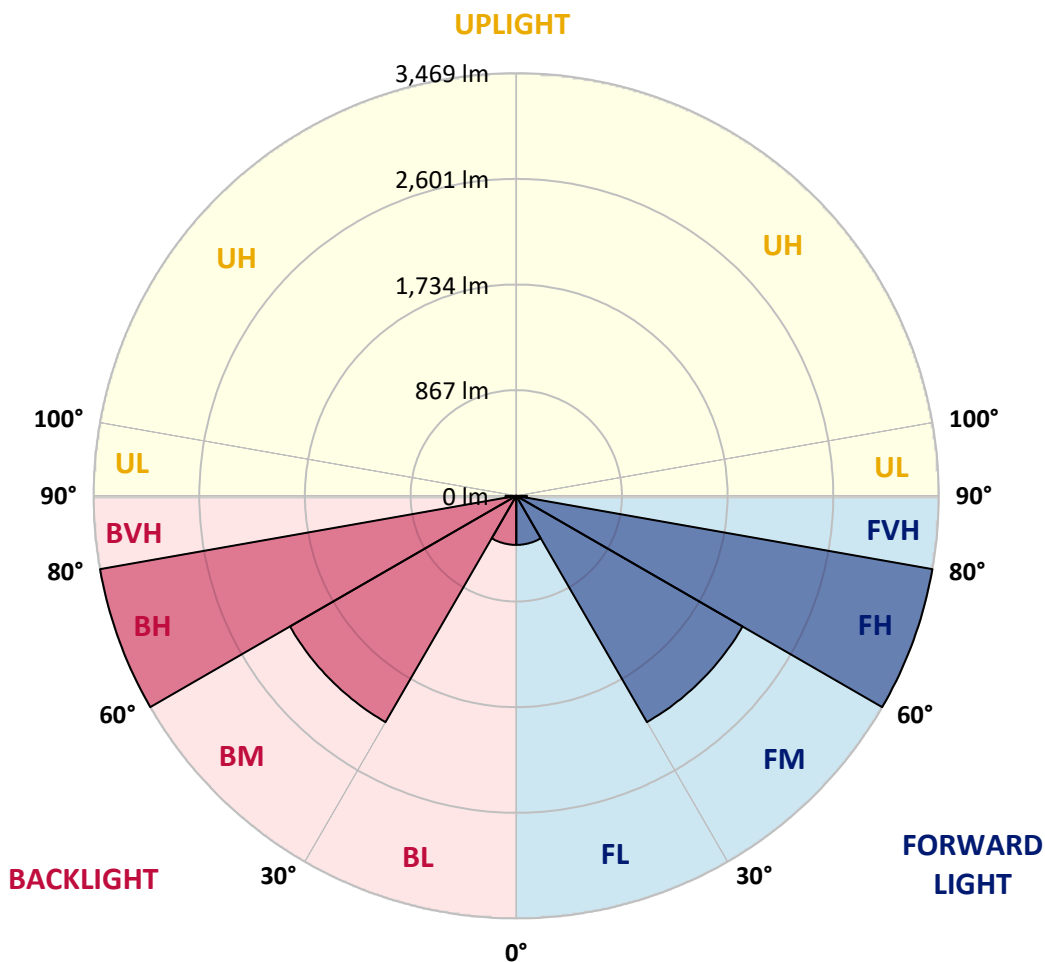


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	402.8	3.3			
FM (30°-60°)	2145.0	17.6			
FH (60°-80°)	3468.6	28.4			G2/5000
FVH (80°-90°)	87.5	0.7			G1/100
BL (0°-30°)	402.8	3.3	B1/500		
BM (30°-60°)	2145.0	17.6	B2/2500		
BH (60°-80°)	3468.6	28.4	B4/5000		G2/5000
BVH (80°-90°)	87.5	0.7			G1/100
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°	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0	958.0
2.5°	964.4	961.2	961.2	958.0	954.8	954.8	954.8	951.6	954.8	954.8	954.8
5°	961.2	958.0	954.8	951.6	951.6	948.4	951.6	948.4	948.4	948.4	948.4
7.5°	951.6	951.6	945.2	945.2	942.0	942.0	938.8	938.8	938.8	935.6	935.6
10°	951.6	948.4	945.2	938.8	935.6	935.6	935.6	932.3	935.6	935.6	935.6
12.5°	951.6	951.6	942.0	935.6	929.1	929.1	929.1	929.1	935.6	938.8	938.8
15°	958.0	954.8	945.2	932.3	925.9	925.9	925.9	929.1	935.6	942.0	942.0
17.5°	961.2	954.8	942.0	929.1	925.9	925.9	925.9	929.1	938.8	945.2	948.4
20°	964.4	961.2	945.2	932.3	929.1	929.1	929.1	929.1	938.8	948.4	951.6
22.5°	974.0	970.8	954.8	945.2	942.0	942.0	942.0	942.0	951.6	964.4	964.4
25°	986.8	980.4	964.4	958.0	958.0	964.4	964.4	958.0	967.6	977.2	980.4
27.5°	1009.2	1002.8	986.8	980.4	977.2	977.2	977.2	977.2	983.6	999.6	999.6
30°	1028.5	1025.3	1018.9	1018.9	1015.7	1009.2	1009.2	1015.7	1018.9	1025.3	1028.5
32.5°	1054.1	1047.7	1041.3	1041.3	1060.5	1079.7	1063.7	1038.1	1034.9	1038.1	1041.3
35°	1108.6	1102.2	1086.1	1076.5	1095.8	1115.0	1089.3	1073.3	1082.9	1092.5	1092.5
37.5°	1185.5	1182.3	1169.4	1150.2	1143.8	1147.0	1137.4	1150.2	1175.8	1195.1	1198.3
40°	1265.6	1262.4	1249.5	1239.9	1243.1	1259.2	1252.7	1239.9	1255.9	1268.8	1268.8
42.5°	1390.5	1377.7	1358.5	1332.8	1336.0	1348.9	1332.8	1345.7	1368.1	1390.5	1393.7
45°	1557.1	1544.3	1518.7	1496.2	1480.2	1486.6	1486.6	1509.1	1534.7	1560.3	1569.9
47.5°	1736.5	1733.3	1707.7	1688.5	1672.5	1682.1	1682.1	1682.1	1723.7	1749.4	1749.4
50°	1957.6	1948.0	1948.0	1932.0	1925.6	1928.8	1916.0	1928.8	1948.0	1954.4	1944.8
52.5°	2220.3	2210.7	2217.1	2223.5	2239.6	2262.0	2229.9	2226.7	2217.1	2207.5	2204.3
55°	2534.3	2543.9	2569.6	2611.2	2636.8	2681.7	2633.6	2576.0	2550.3	2524.7	2505.5
57.5°	2909.2	2925.2	2963.7	3063.0	3171.9	3213.6	3130.3	3024.5	2934.8	2861.1	2877.1
60°	3399.4	3389.8	3453.9	3588.4	3742.2	3825.5	3694.2	3521.1	3377.0	3341.7	3351.3
62.5°	3921.6	3940.9	3985.7	4165.1	4357.4	4447.1	4286.9	4030.6	3844.7	3748.6	3748.6
65°	4248.4	4261.3	4386.2	4639.3	4854.0	4975.7	4748.3	4376.6	4110.7	3950.5	3940.9
67.5°	4296.5	4309.3	4450.3	4773.9	5126.3	5296.1	4902.0	4418.2	4107.5	3912.0	3905.6
69°	4165.1	4174.7	4322.1	4661.7	5103.9	5350.6	4828.4	4283.7	3963.3	3774.3	3780.7
70°	3976.1	4014.5	4126.7	4472.7	4985.3	5302.5	4693.8	4133.1	3799.9	3649.3	3623.7
72.5°	3117.4	3143.1	3328.9	3758.2	4450.3	4812.3	4123.5	3498.7	3159.1	3002.1	3040.5
75°	1765.4	1759.0	1996.1	2611.2	3431.4	3854.4	3245.6	2518.3	2024.9	1835.9	1861.5
77.5°	672.8	701.7	861.9	1339.3	2156.3	2633.6	2153.1	1345.7	942.0	733.7	698.5
80°	217.9	230.7	304.4	487.0	919.5	1486.6	1006.0	519.0	326.8	246.7	230.7
82.5°	86.5	96.1	115.3	163.4	310.8	560.7	339.6	189.0	141.0	115.3	105.7
85°	48.1	44.9	60.9	73.7	105.7	160.2	115.3	89.7	76.9	54.5	51.3
87.5°	16.0	16.0	25.6	25.6	28.8	25.6	28.8	32.0	32.0	19.2	16.0
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)