

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: P573120

Luminaire Tested: **ARCH-S-PA2-40-722-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573120  
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-PA2-40-722-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5081 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

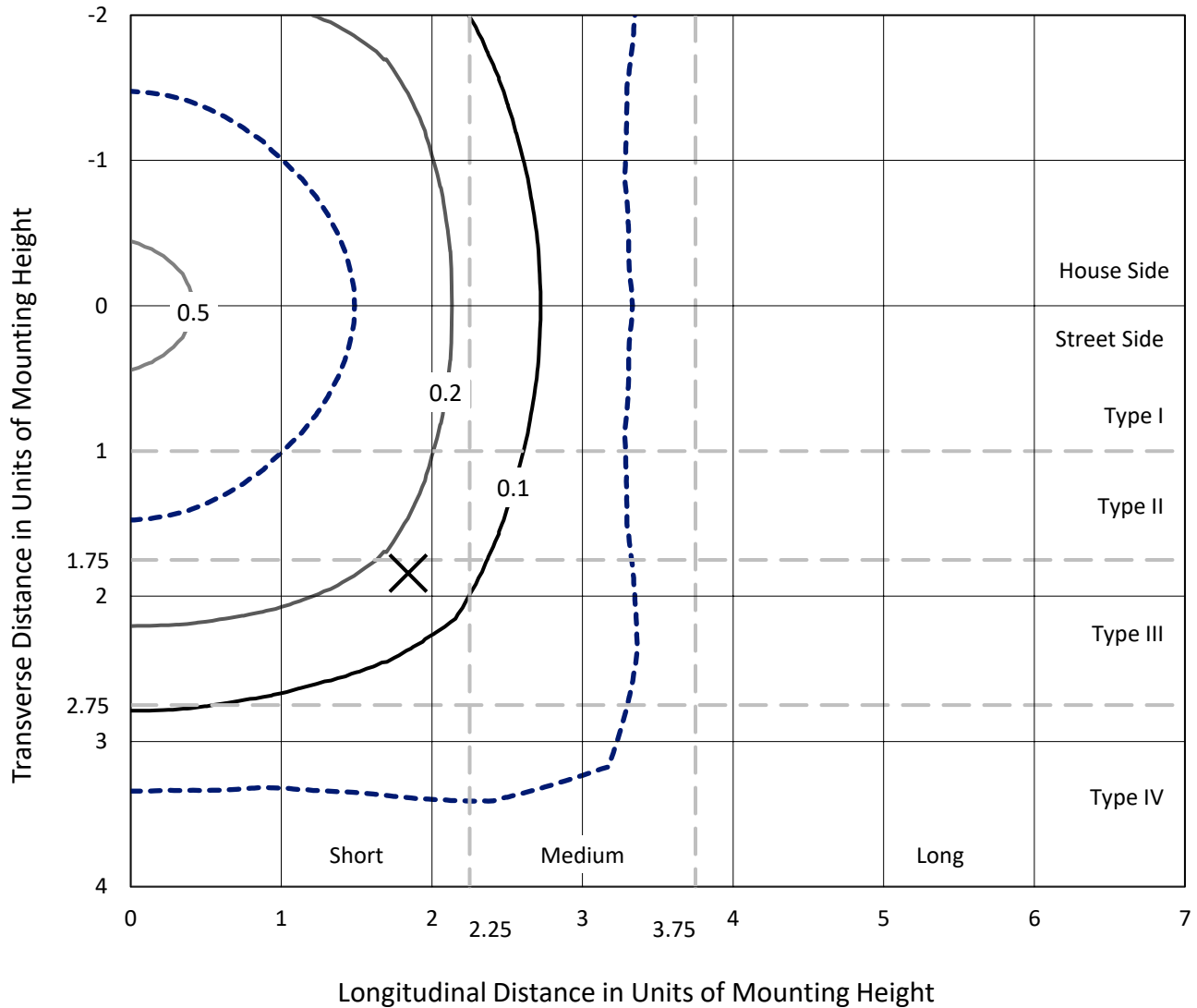
Input Watts (W): 43.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

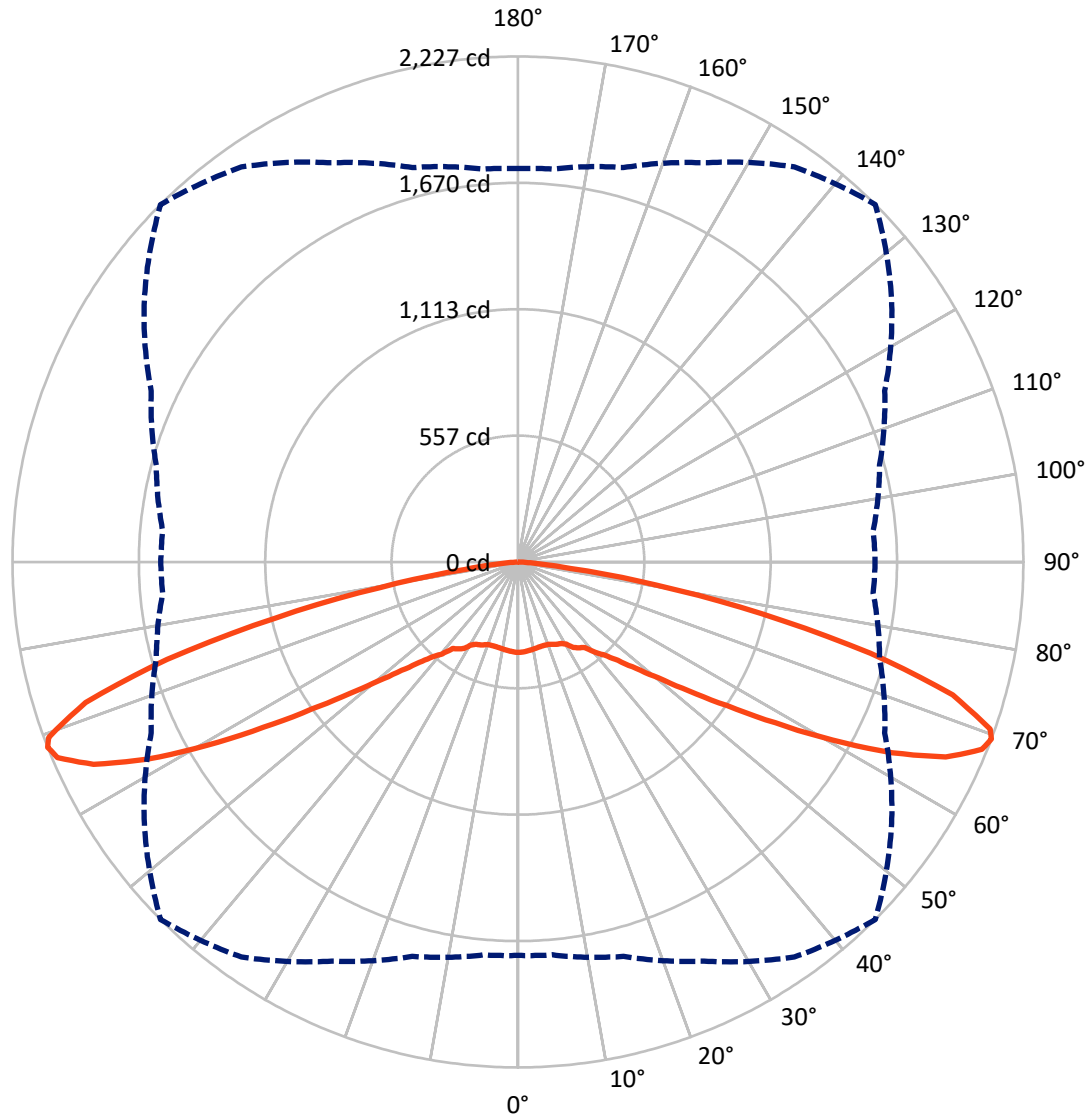
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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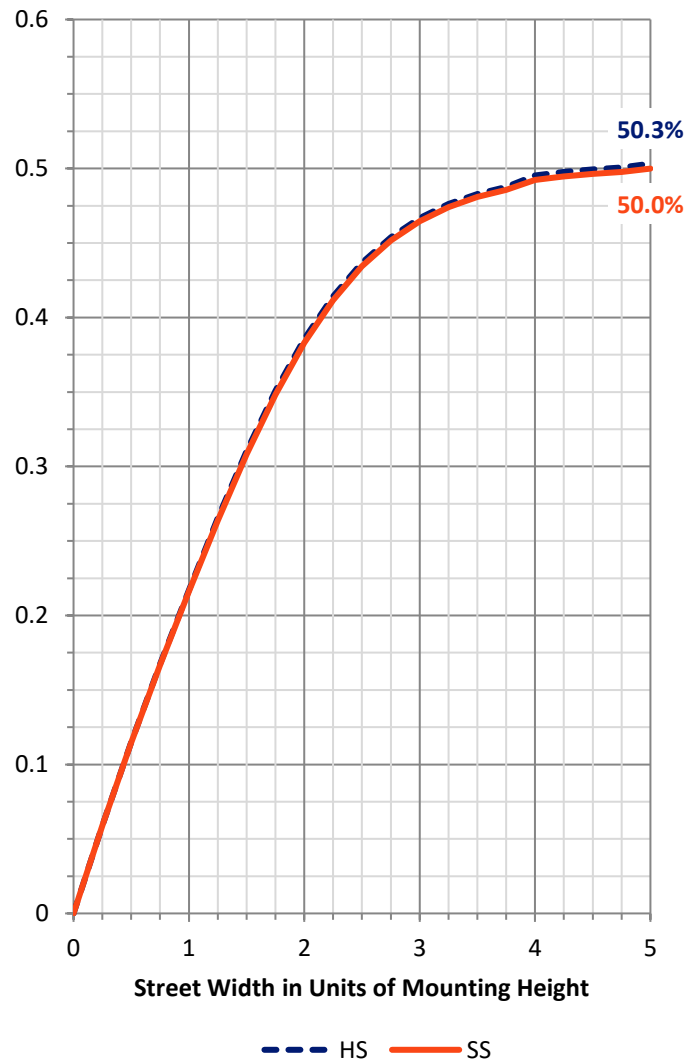
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2540.5	0.0	2540.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2540.5	0.0	2540.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5081.0	0.0	5081.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.6	0.7
10°-20°	110.4	2.2
20°-30°	187.3	3.7
30°-40°	291.2	5.7
40°-50°	499.9	9.8
50°-60°	994.5	19.6
60°-70°	1771.6	34.9
70°-80°	1115.7	22.0
80°-90°	72.9	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°	5081.0	100.0
0°-180°	5081.0	100.0



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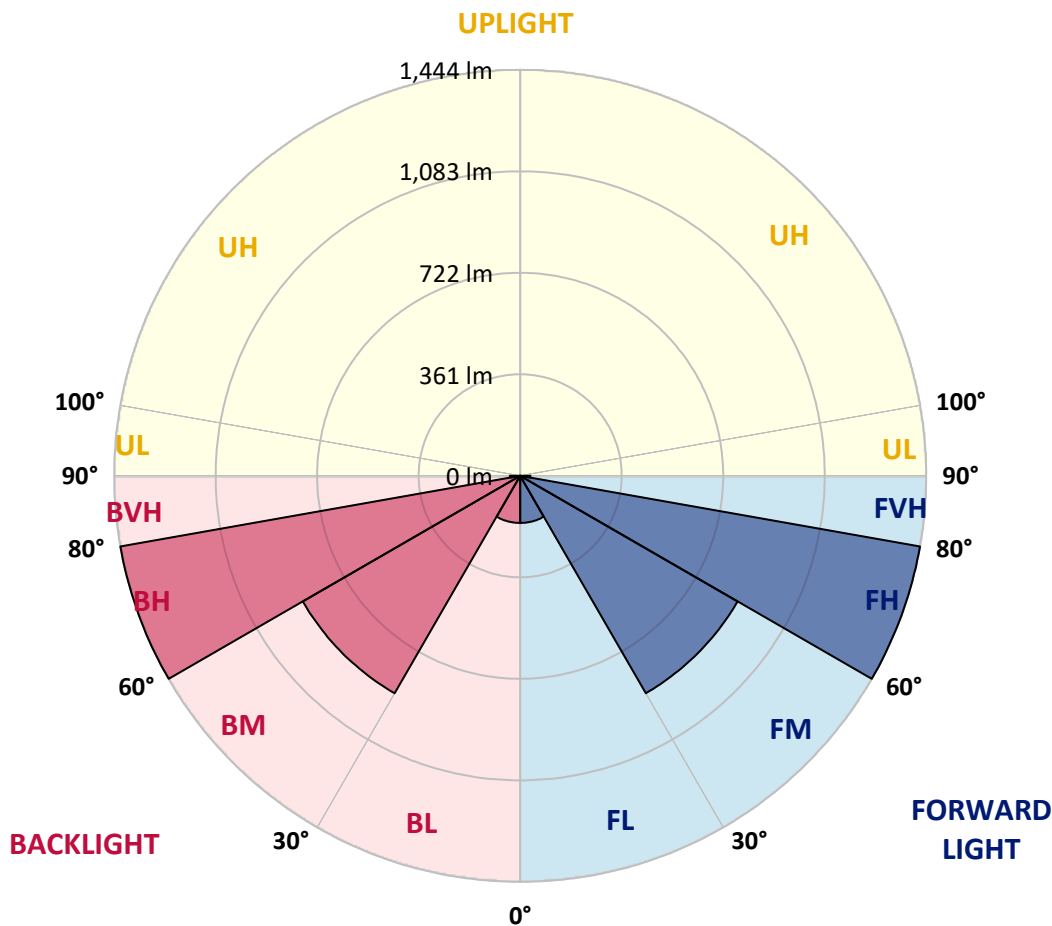
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	167.6	3.3			
FM (30°-60°)	892.8	17.6			
FH (60°-80°)	1443.6	28.4			G1/1800
FVH (80°-90°)	36.4	0.7			G1/100
BL (0°-30°)	167.6	3.3	B1/500		
BM (30°-60°)	892.8	17.6	B1/1000		
BH (60°-80°)	1443.6	28.4	B3/2500		G1/1800
BVH (80°-90°)	36.4	0.7			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°	398.7	398.7	398.7	398.7	398.7	398.7	398.7	398.7	398.7	398.7	398.7
2.5°	401.4	400.0	400.0	398.7	397.4	397.4	397.4	396.0	397.4	397.4	397.4
5°	400.0	398.7	397.4	396.0	396.0	394.7	396.0	394.7	394.7	394.7	394.7
7.5°	396.0	396.0	393.4	393.4	392.0	392.0	390.7	390.7	390.7	389.4	389.4
10°	396.0	394.7	393.4	390.7	389.4	389.4	389.4	388.0	389.4	389.4	389.4
12.5°	396.0	396.0	392.0	389.4	386.7	386.7	386.7	386.7	389.4	390.7	390.7
15°	398.7	397.4	393.4	388.0	385.4	385.4	385.4	386.7	389.4	392.0	392.0
17.5°	400.0	397.4	392.0	386.7	385.4	385.4	385.4	386.7	390.7	393.4	394.7
20°	401.4	400.0	393.4	388.0	386.7	386.7	386.7	386.7	390.7	394.7	396.0
22.5°	405.4	404.0	397.4	393.4	392.0	393.4	392.0	392.0	396.0	401.4	401.4
25°	410.7	408.0	401.4	398.7	398.7	401.4	401.4	398.7	402.7	406.7	408.0
27.5°	420.0	417.4	410.7	408.0	406.7	406.7	406.7	406.7	409.4	416.0	416.0
30°	428.1	426.7	424.1	424.1	422.7	420.0	420.0	422.7	424.1	426.7	428.1
32.5°	438.7	436.1	433.4	433.4	441.4	449.4	442.7	432.1	430.7	432.1	433.4
35°	461.4	458.7	452.1	448.1	456.1	464.1	453.4	446.7	450.7	454.7	454.7
37.5°	493.4	492.1	486.7	478.7	476.1	477.4	473.4	478.7	489.4	497.4	498.7
40°	526.7	525.4	520.1	516.1	517.4	524.1	521.4	516.1	522.7	528.1	528.1
42.5°	578.7	573.4	565.4	554.7	556.1	561.4	554.7	560.1	569.4	578.7	580.1
45°	648.1	642.7	632.1	622.7	616.1	618.7	618.7	628.1	638.7	649.4	653.4
47.5°	722.8	721.4	710.8	702.7	696.1	700.1	700.1	700.1	717.4	728.1	728.1
50°	814.8	810.8	810.8	804.1	801.4	802.8	797.4	802.8	810.8	813.4	809.4
52.5°	924.1	920.1	922.8	925.4	932.1	941.4	928.1	926.8	922.8	918.8	917.4
55°	1054.8	1058.8	1069.5	1086.8	1097.5	1116.1	1096.1	1072.1	1061.5	1050.8	1042.8
57.5°	1210.8	1217.5	1233.5	1274.8	1320.2	1337.5	1302.8	1258.8	1221.5	1190.8	1197.5
60°	1414.8	1410.8	1437.5	1493.5	1557.5	1592.2	1537.5	1465.5	1405.5	1390.8	1394.8
62.5°	1632.2	1640.2	1658.9	1733.5	1813.5	1850.9	1784.2	1677.5	1600.2	1560.2	1560.2
65°	1768.2	1773.5	1825.5	1930.9	2020.2	2070.9	1976.2	1821.5	1710.9	1644.2	1640.2
67.5°	1788.2	1793.5	1852.2	1986.9	2133.6	2204.3	2040.2	1838.9	1709.5	1628.2	1625.5
69°	1733.5	1737.5	1798.9	1940.2	2124.3	2226.9	2009.6	1782.9	1649.5	1570.9	1573.5
70°	1654.9	1670.9	1717.5	1861.6	2074.9	2206.9	1953.6	1720.2	1581.5	1518.8	1508.2
72.5°	1297.5	1308.2	1385.5	1564.2	1852.2	2002.9	1716.2	1456.2	1314.8	1249.5	1265.5
75°	734.8	732.1	830.8	1086.8	1428.2	1604.2	1350.8	1048.1	842.8	764.1	774.8
77.5°	280.0	292.0	358.7	557.4	897.4	1096.1	896.1	560.1	392.0	305.4	290.7
80°	90.7	96.0	126.7	202.7	382.7	618.7	418.7	216.0	136.0	102.7	96.0
82.5°	36.0	40.0	48.0	68.0	129.3	233.4	141.4	78.7	58.7	48.0	44.0
85°	20.0	18.7	25.3	30.7	44.0	66.7	48.0	37.3	32.0	22.7	21.3
87.5°	6.7	6.7	10.7	10.7	12.0	10.7	12.0	13.3	13.3	8.0	6.7
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)