

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: P573075

Luminaire Tested: **ARCH-S-PA2-30-740-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573075  
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-PA2-30-740-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5413 lumens  
Efficiency: N/A  
Efficacy: 161.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

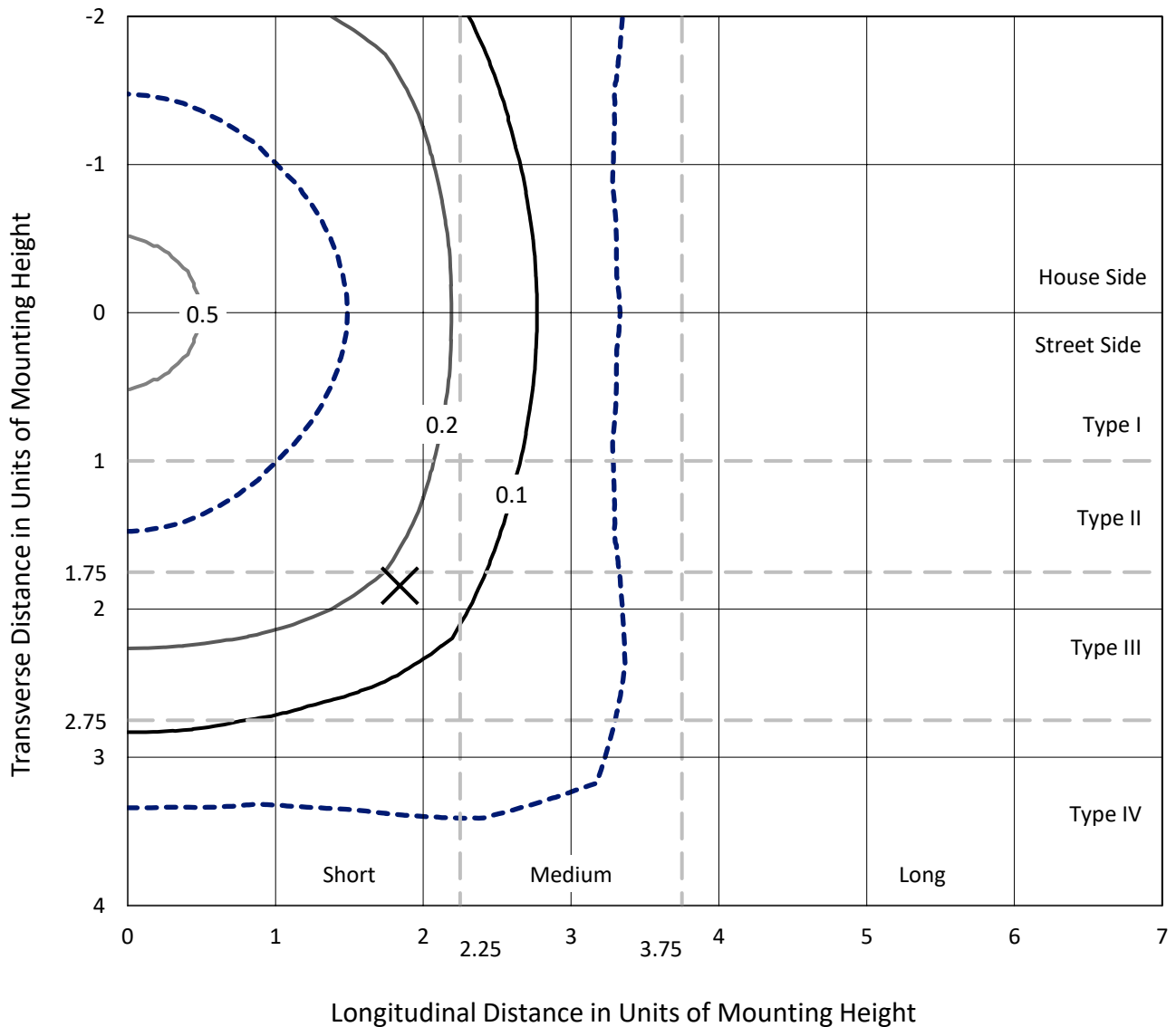
Input Watts (W): 33.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

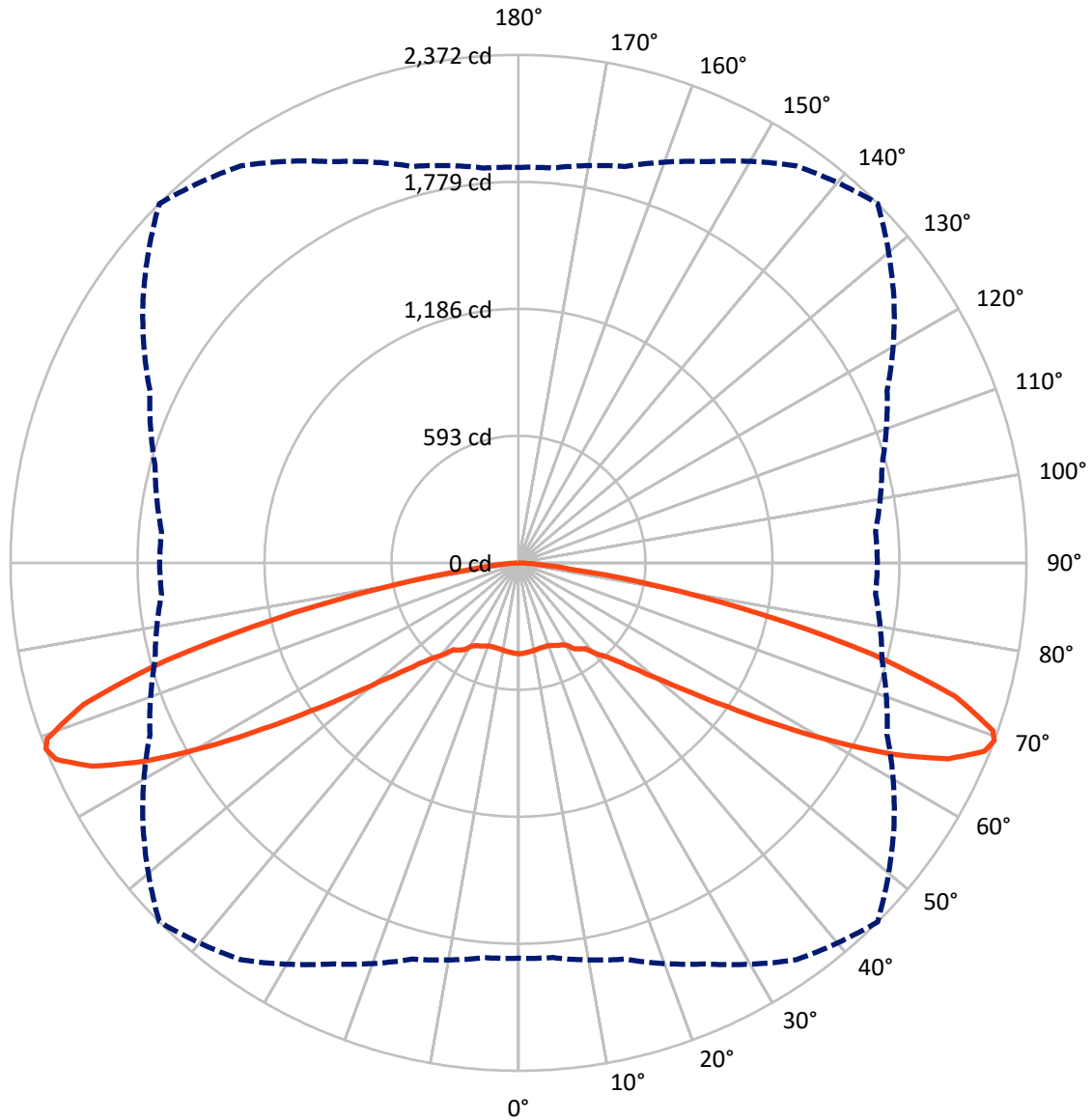
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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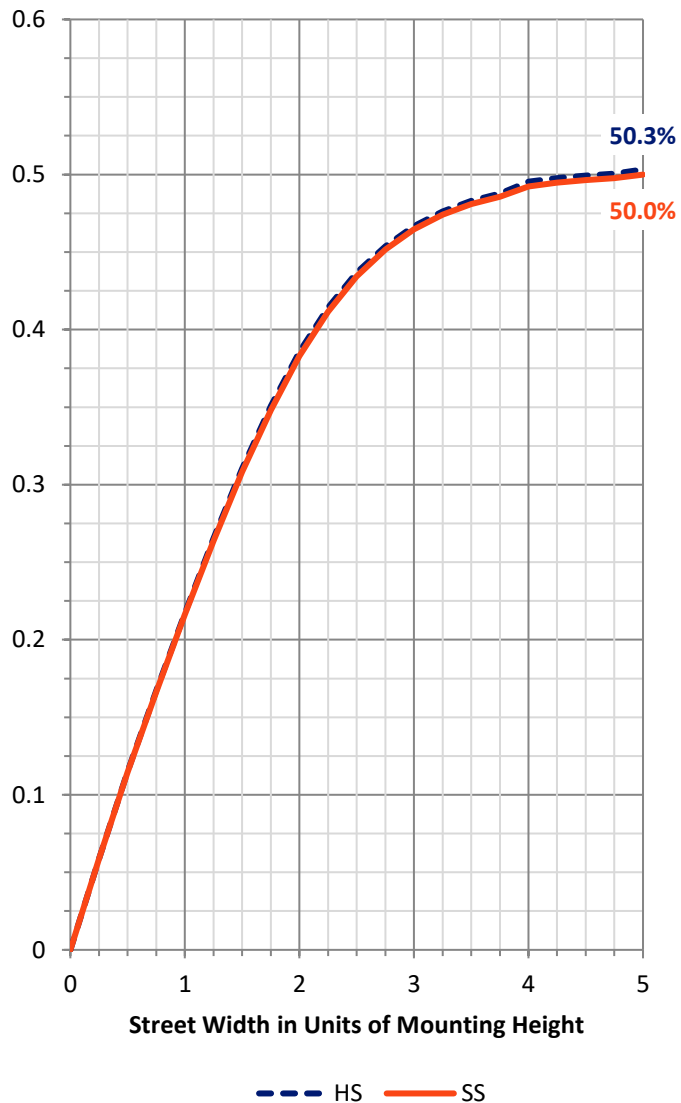
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2706.5	0.0	2706.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2706.5	0.0	2706.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5413.0	0.0	5413.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.0	0.7
10°-20°	117.7	2.2
20°-30°	199.5	3.7
30°-40°	310.2	5.7
40°-50°	532.5	9.8
50°-60°	1059.5	19.6
60°-70°	1887.3	34.9
70°-80°	1188.6	22.0
80°-90°	77.6	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°	5413.0	100.0
0°-180°	5413.0	100.0

**Coefficient of Utilization**

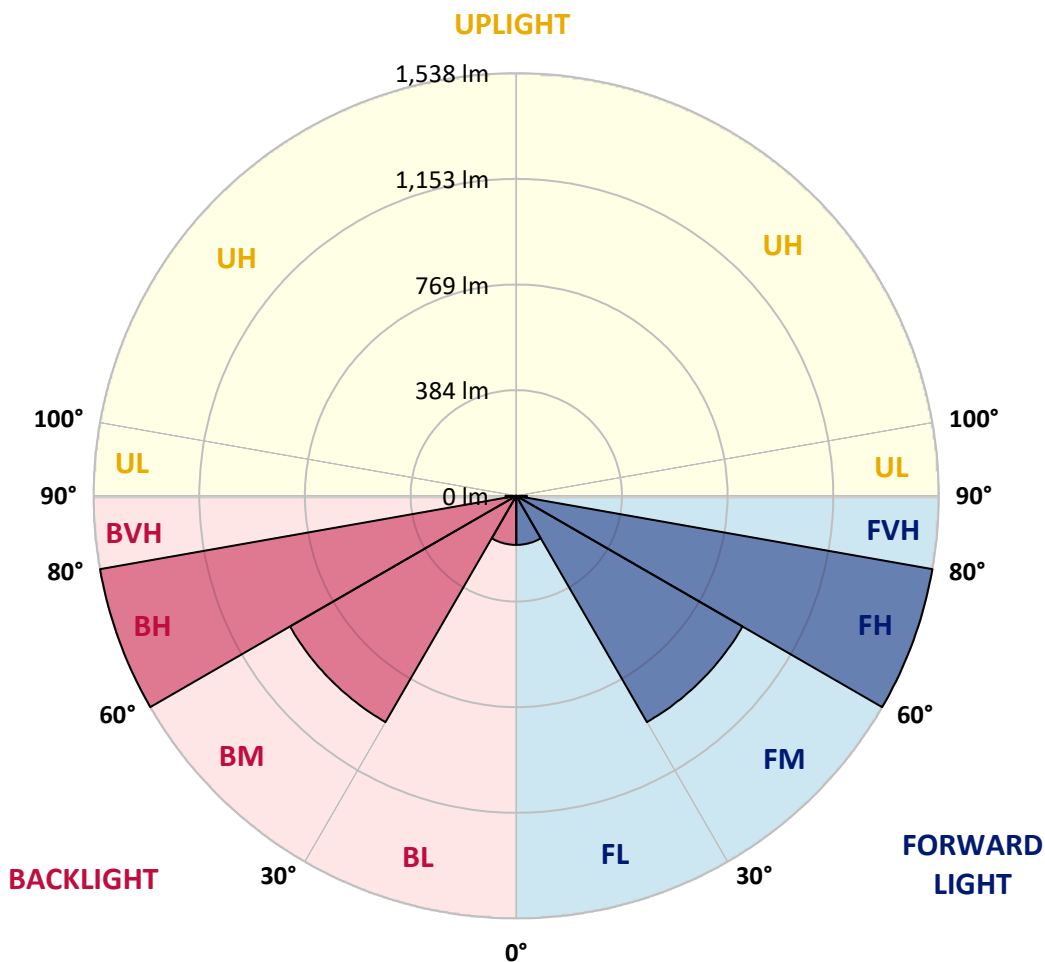


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	178.6	3.3			
FM (30°-60°)	951.1	17.6			
FH (60°-80°)	1538.0	28.4			G1/1800
FVH (80°-90°)	38.8	0.7			G1/100
BL (0°-30°)	178.6	3.3	B1/500		
BM (30°-60°)	951.1	17.6	B1/1000		
BH (60°-80°)	1538.0	28.4	B3/2500		G1/1800
BVH (80°-90°)	38.8	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°	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8	424.8
2.5°	427.6	426.2	426.2	424.8	423.3	423.3	423.3	421.9	423.3	423.3	423.3
5°	426.2	424.8	423.3	421.9	421.9	420.5	421.9	420.5	420.5	420.5	420.5
7.5°	421.9	421.9	419.1	419.1	417.7	417.7	416.2	416.2	416.2	414.8	414.8
10°	421.9	420.5	419.1	416.2	414.8	414.8	414.8	413.4	414.8	414.8	414.8
12.5°	421.9	421.9	417.7	414.8	412.0	412.0	412.0	412.0	414.8	416.2	416.2
15°	424.8	423.3	419.1	413.4	410.6	410.6	410.6	412.0	414.8	417.7	417.7
17.5°	426.2	423.3	417.7	412.0	410.6	410.6	410.6	412.0	416.2	419.1	420.5
20°	427.6	426.2	419.1	413.4	412.0	412.0	412.0	412.0	416.2	420.5	421.9
22.5°	431.9	430.4	423.3	419.1	417.7	419.1	417.7	417.7	421.9	427.6	427.6
25°	437.6	434.7	427.6	424.8	424.8	427.6	427.6	424.8	429.0	433.3	434.7
27.5°	447.5	444.7	437.6	434.7	433.3	433.3	433.3	433.3	436.1	443.2	443.2
30°	456.0	454.6	451.8	451.8	450.3	447.5	447.5	450.3	451.8	454.6	456.0
32.5°	467.4	464.5	461.7	461.7	470.2	478.8	471.6	460.3	458.9	460.3	461.7
35°	491.5	488.7	481.6	477.3	485.9	494.4	483.0	475.9	480.2	484.4	484.4
37.5°	525.6	524.2	518.5	510.0	507.2	508.6	504.3	510.0	521.4	529.9	531.3
40°	561.1	559.7	554.0	549.8	551.2	558.3	555.5	549.8	556.9	562.6	562.6
42.5°	616.6	610.9	602.3	591.0	592.4	598.1	591.0	596.7	606.6	616.6	618.0
45°	690.4	684.7	673.4	663.4	656.3	659.2	659.2	669.1	680.5	691.8	696.1
47.5°	770.0	768.6	757.2	748.7	741.6	745.8	745.8	745.8	764.3	775.7	775.7
50°	868.0	863.7	863.7	856.6	853.8	855.2	849.5	855.2	863.7	866.6	862.3
52.5°	984.5	980.2	983.1	985.9	993.0	1003.0	988.8	987.3	983.1	978.8	977.4
55°	1123.7	1128.0	1139.3	1157.8	1169.2	1189.1	1167.8	1142.2	1130.8	1119.5	1110.9
57.5°	1289.9	1297.0	1314.1	1358.1	1406.4	1424.9	1387.9	1341.1	1301.3	1268.6	1275.7
60°	1507.3	1503.0	1531.4	1591.1	1659.3	1696.2	1638.0	1561.3	1497.3	1481.7	1486.0
62.5°	1738.8	1747.4	1767.3	1846.8	1932.0	1971.8	1900.8	1787.1	1704.7	1662.1	1662.1
65°	1883.7	1889.4	1944.8	2057.1	2152.2	2206.2	2105.4	1940.6	1822.7	1751.6	1747.4
67.5°	1905.1	1910.7	1973.2	2116.7	2273.0	2348.3	2173.6	1959.0	1821.2	1734.6	1731.7
69°	1846.8	1851.1	1916.4	2067.0	2263.1	2372.4	2140.9	1899.4	1757.3	1673.5	1676.3
70°	1763.0	1780.0	1829.8	1983.2	2210.5	2351.1	2081.2	1832.6	1684.9	1618.1	1606.7
72.5°	1382.3	1393.6	1476.0	1666.4	1973.2	2133.8	1828.3	1551.3	1400.7	1331.1	1348.2
75°	782.8	779.9	885.0	1157.8	1521.5	1709.0	1439.1	1116.6	897.8	814.0	825.4
77.5°	298.3	311.1	382.1	593.8	956.1	1167.8	954.7	596.7	417.7	325.3	309.7
80°	96.6	102.3	135.0	215.9	407.7	659.2	446.1	230.1	144.9	109.4	102.3
82.5°	38.4	42.6	51.1	72.5	137.8	248.6	150.6	83.8	62.5	51.1	46.9
85°	21.3	19.9	27.0	32.7	46.9	71.0	51.1	39.8	34.1	24.2	22.7
87.5°	7.1	7.1	11.4	11.4	12.8	11.4	12.8	14.2	14.2	8.5	7.1
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)