

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: P573219

Luminaire Tested: **ARCH-S-PA2-50-730-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573219  
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-PA2-50-730-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7531 lumens  
Efficiency: N/A  
Efficacy: 140.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

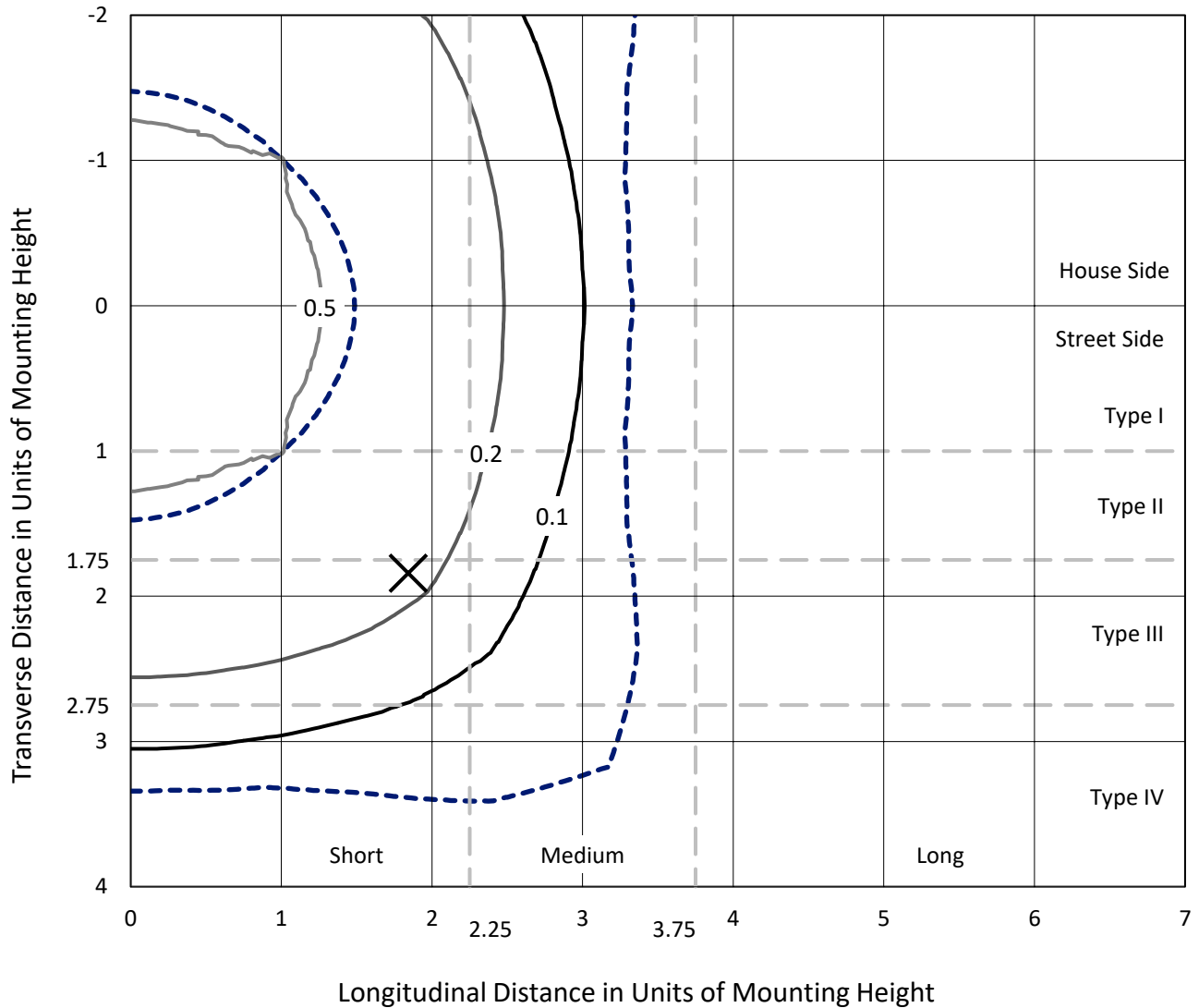
Input Watts (W): 53.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

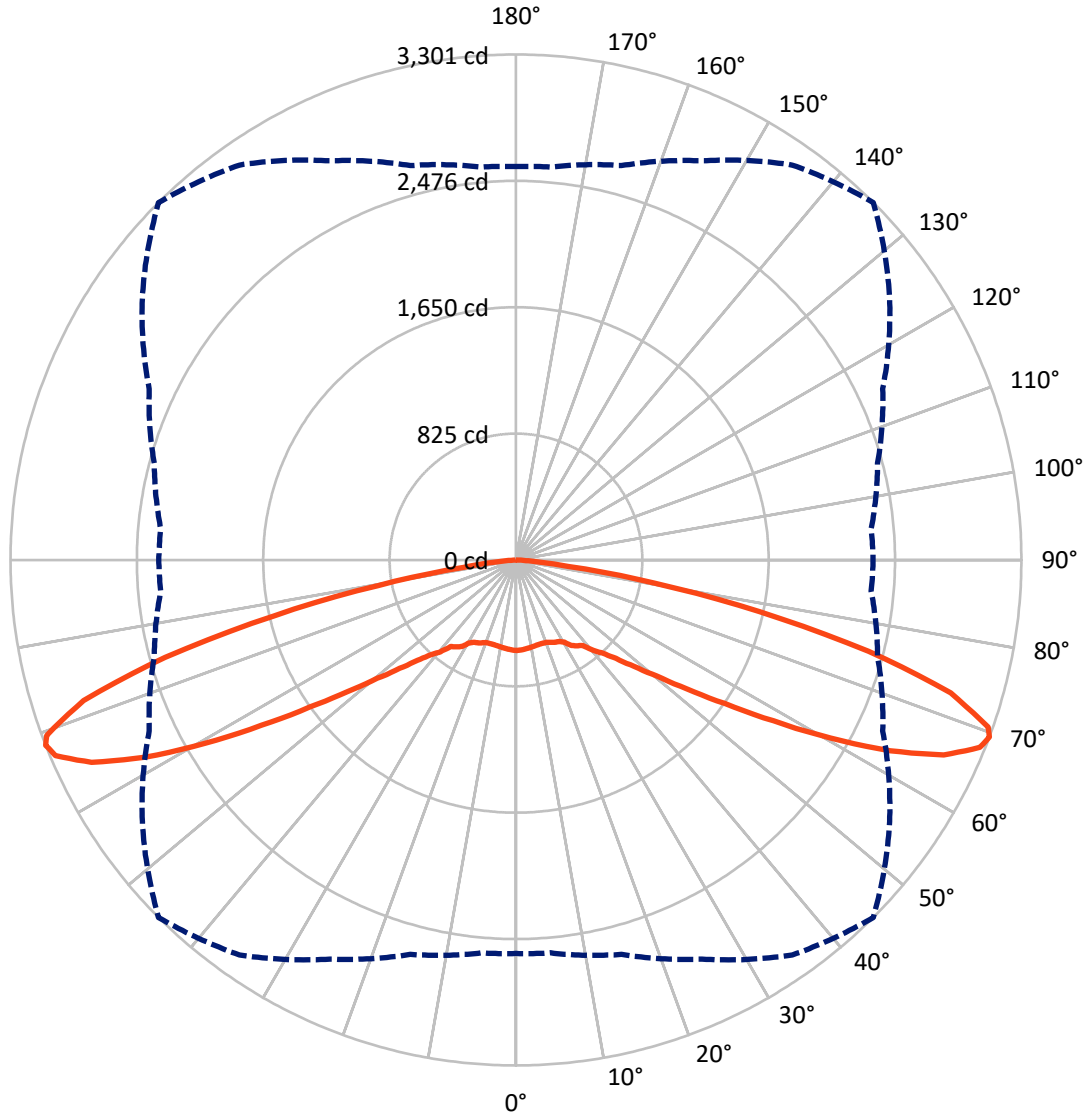
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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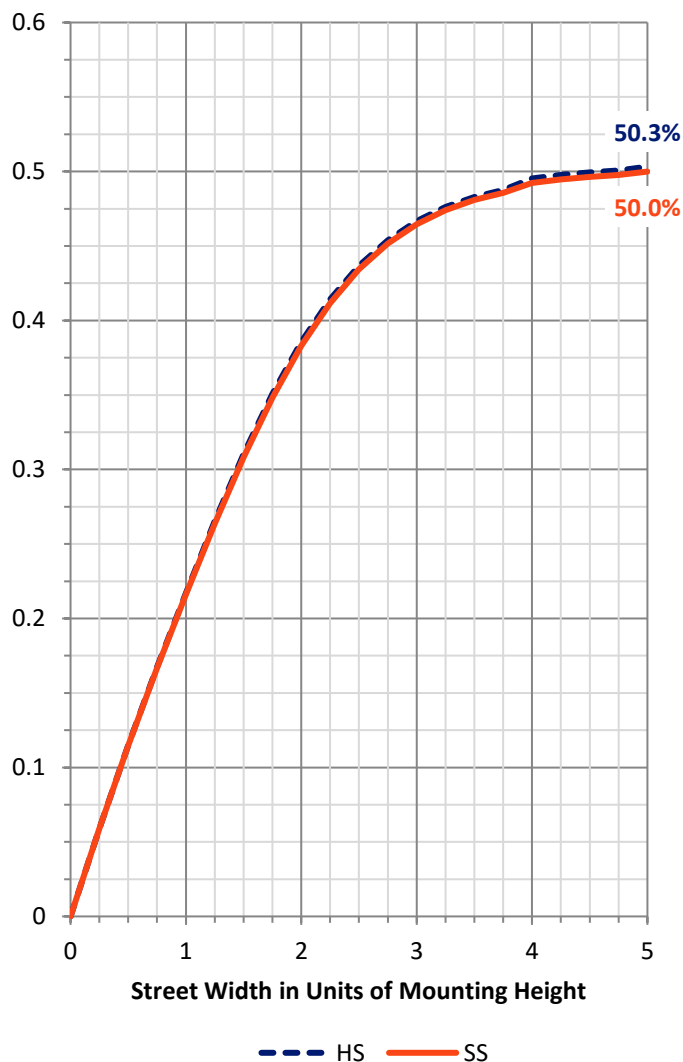
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3765.5	0.0	3765.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3765.5	0.0	3765.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7531.0	0.0	7531.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	0.7
10°-20°	163.7	2.2
20°-30°	277.6	3.7
30°-40°	431.6	5.7
40°-50°	740.9	9.8
50°-60°	1474.0	19.6
60°-70°	2625.8	34.9
70°-80°	1653.7	22.0
80°-90°	108.0	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°	7531.0	100.0
0°-180°	7531.0	100.0

**Coefficient of Utilization**



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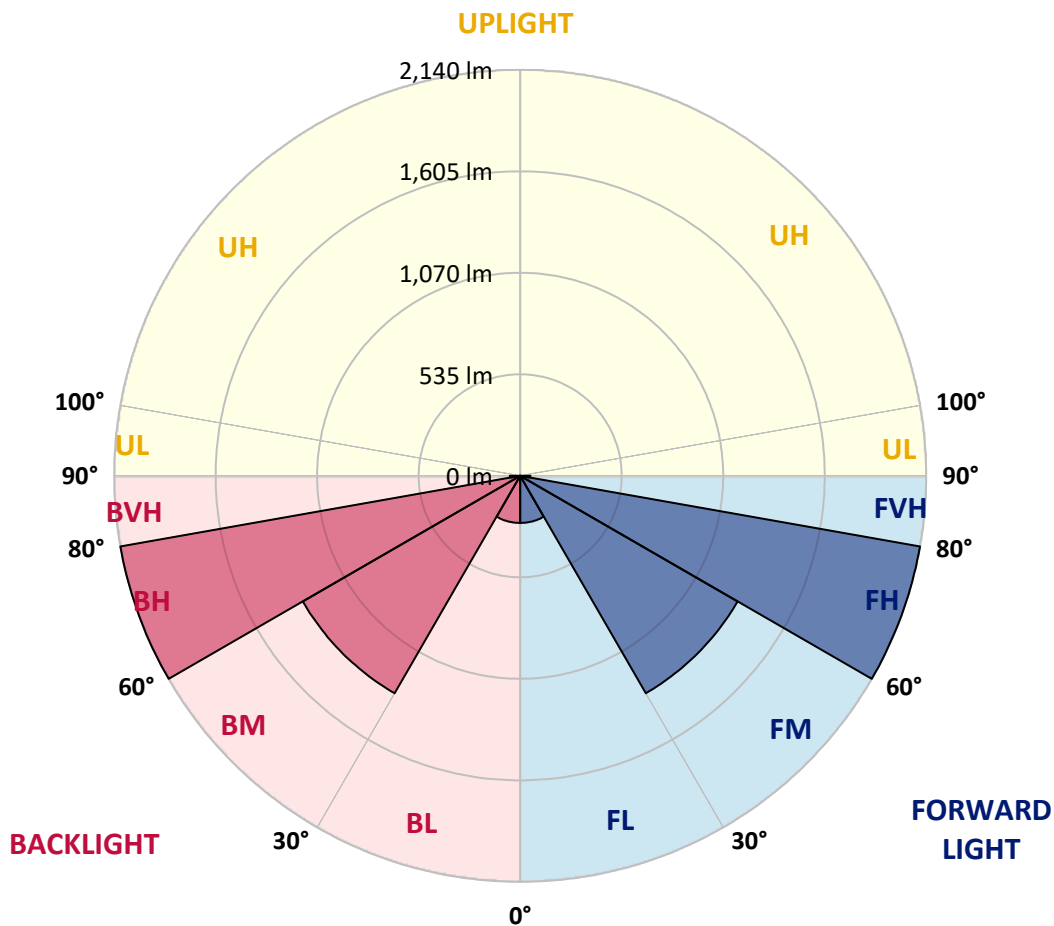
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.5	3.3			
FM (30°-60°)	1323.3	17.6			
FH (60°-80°)	2139.8	28.4			G2/5000
FVH (80°-90°)	54.0	0.7			G1/100
BL (0°-30°)	248.5	3.3	B1/500		
BM (30°-60°)	1323.3	17.6	B2/2500		
BH (60°-80°)	2139.8	28.4	B3/2500		G2/5000
BVH (80°-90°)	54.0	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0	591.0
2.5°	594.9	592.9	592.9	591.0	589.0	589.0	589.0	587.0	589.0	589.0	589.0
5°	592.9	591.0	589.0	587.0	587.0	585.0	587.0	585.0	585.0	585.0	585.0
7.5°	587.0	587.0	583.1	583.1	581.1	581.1	579.1	579.1	579.1	577.1	577.1
10°	587.0	585.0	583.1	579.1	577.1	577.1	577.1	575.2	577.1	577.1	577.1
12.5°	587.0	587.0	581.1	577.1	573.2	573.2	573.2	573.2	577.1	579.1	579.1
15°	591.0	589.0	583.1	575.2	571.2	571.2	571.2	573.2	577.1	581.1	581.1
17.5°	592.9	589.0	581.1	573.2	571.2	571.2	571.2	573.2	579.1	583.1	585.0
20°	594.9	592.9	583.1	575.2	573.2	573.2	573.2	573.2	579.1	585.0	587.0
22.5°	600.9	598.9	589.0	583.1	581.1	583.1	581.1	581.1	587.0	594.9	594.9
25°	608.8	604.8	594.9	591.0	591.0	594.9	594.9	591.0	596.9	602.8	604.8
27.5°	622.6	618.6	608.8	604.8	602.8	602.8	602.8	602.8	606.8	616.7	616.7
30°	634.5	632.5	628.5	628.5	626.5	622.6	622.6	626.5	628.5	632.5	634.5
32.5°	650.3	646.3	642.4	642.4	654.2	666.1	656.2	640.4	638.4	640.4	642.4
35°	683.9	679.9	670.0	664.1	676.0	687.8	672.0	662.1	668.1	674.0	674.0
37.5°	731.3	729.3	721.4	709.6	705.6	707.6	701.7	709.6	725.4	737.2	739.2
40°	780.7	778.7	770.8	764.9	766.9	776.8	772.8	764.9	774.8	782.7	782.7
42.5°	857.8	849.9	838.0	822.2	824.2	832.1	822.2	830.1	844.0	857.8	859.8
45°	960.6	952.7	936.9	923.0	913.1	917.1	917.1	930.9	946.7	962.5	968.5
47.5°	1071.3	1069.3	1053.5	1041.6	1031.7	1037.7	1037.7	1037.7	1063.3	1079.2	1079.2
50°	1207.6	1201.7	1201.7	1191.8	1187.9	1189.8	1181.9	1189.8	1201.7	1205.7	1199.7
52.5°	1369.7	1363.8	1367.7	1371.7	1381.6	1395.4	1375.6	1373.7	1367.7	1361.8	1359.8
55°	1563.4	1569.3	1585.1	1610.8	1626.6	1654.3	1624.7	1589.1	1573.3	1557.5	1545.6
57.5°	1794.6	1804.5	1828.2	1889.5	1956.7	1982.4	1931.0	1865.8	1810.5	1765.0	1774.9
60°	2097.1	2091.1	2130.7	2213.7	2308.5	2359.9	2278.9	2172.2	2083.2	2061.5	2067.4
62.5°	2419.2	2431.1	2458.7	2569.4	2688.0	2743.4	2644.5	2486.4	2371.8	2312.5	2312.5
65°	2620.8	2628.7	2705.8	2862.0	2994.4	3069.5	2929.2	2699.9	2535.8	2437.0	2431.1
67.5°	2650.5	2658.4	2745.3	2945.0	3162.4	3267.1	3024.0	2725.6	2533.9	2413.3	2409.3
69°	2569.4	2575.4	2666.3	2875.8	3148.5	3300.7	2978.6	2642.6	2444.9	2328.3	2332.3
70°	2452.8	2476.5	2545.7	2759.2	3075.4	3271.1	2895.6	2549.7	2344.1	2251.2	2235.4
72.5°	1923.1	1938.9	2053.6	2318.4	2745.3	2968.7	2543.7	2158.3	1948.8	1852.0	1875.7
75°	1089.0	1085.1	1231.4	1610.8	2116.8	2377.7	2002.2	1553.5	1249.1	1132.5	1148.3
77.5°	415.1	432.9	531.7	826.2	1330.2	1624.7	1328.2	830.1	581.1	452.6	430.9
80°	134.4	142.3	187.8	300.4	567.3	917.1	620.6	320.2	201.6	152.2	142.3
82.5°	53.4	59.3	71.2	100.8	191.7	345.9	209.5	116.6	87.0	71.2	65.2
85°	29.6	27.7	37.6	45.5	65.2	98.8	71.2	55.3	47.4	33.6	31.6
87.5°	9.9	9.9	15.8	15.8	17.8	15.8	17.8	19.8	19.8	11.9	9.9
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)