

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: P573237

Luminaire Tested: **ARCH-S-PA2-50-740-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573237  
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-PA2-50-740-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 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: 8269 lumens  
Efficiency: N/A  
Efficacy: 154.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

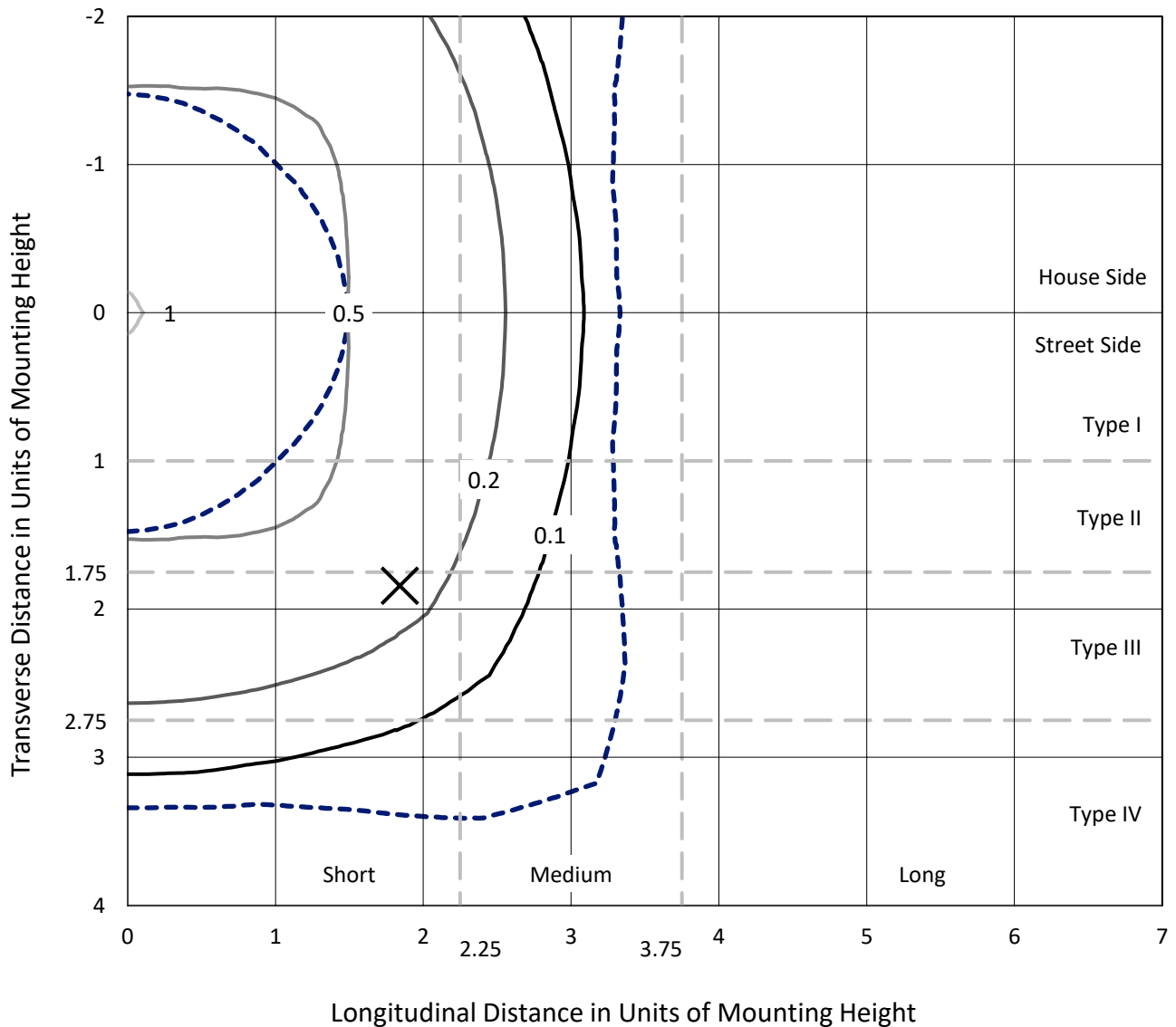
Input Watts (W): 53.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P573237  
 CATALOG NUMBER: ARCH-S-PA2-50-740-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

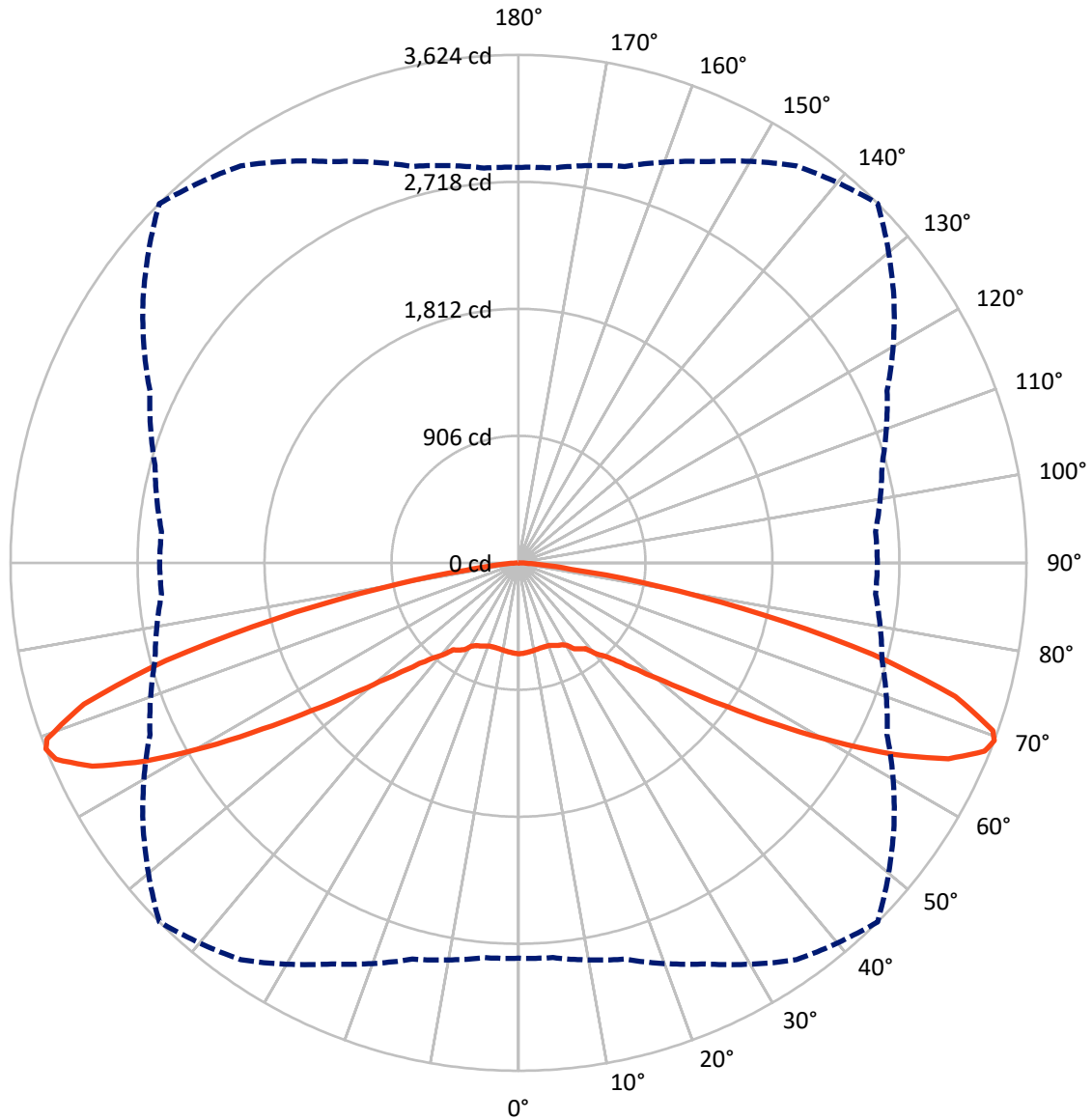
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type V - Short - N/A

REPORT NUMBER: P573237  
CATALOG NUMBER: ARCH-S-PA2-50-740-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P573237  
 CATALOG NUMBER: ARCH-S-PA2-50-740-U-5WQ

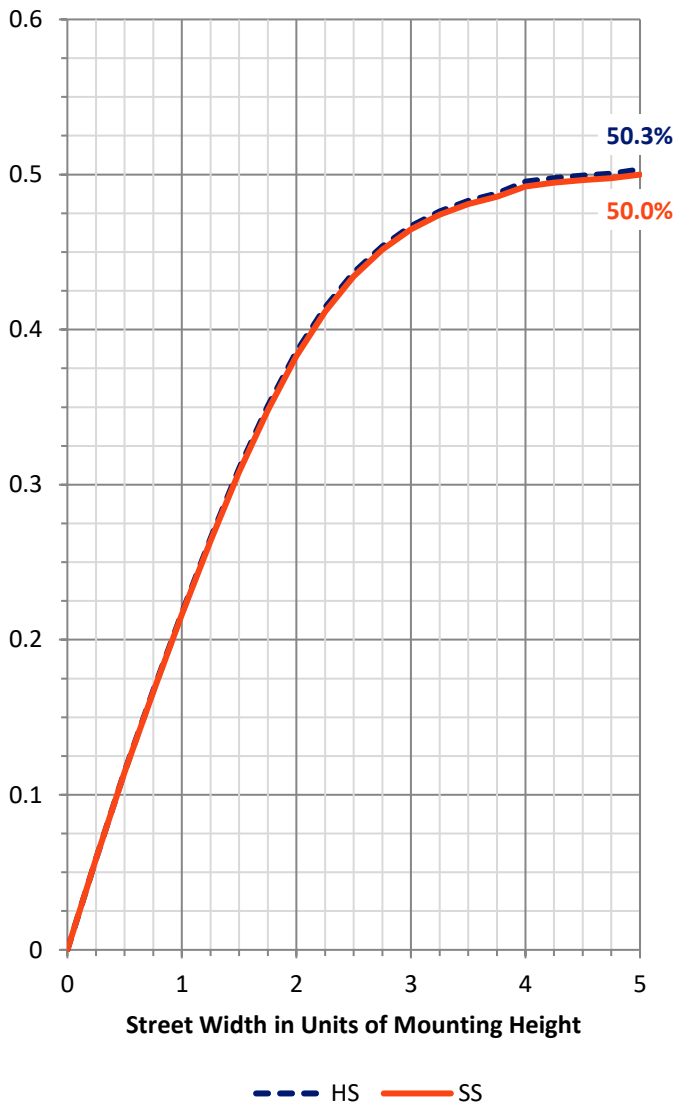
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4134.5	0.0	4134.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4134.5	0.0	4134.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8269.0	0.0	8269.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.1	0.7
10°-20°	179.7	2.2
20°-30°	304.8	3.7
30°-40°	473.9	5.7
40°-50°	813.5	9.8
50°-60°	1618.5	19.6
60°-70°	2883.1	34.9
70°-80°	1815.8	22.0
80°-90°	118.6	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°	8269.0	100.0
0°-180°	8269.0	100.0



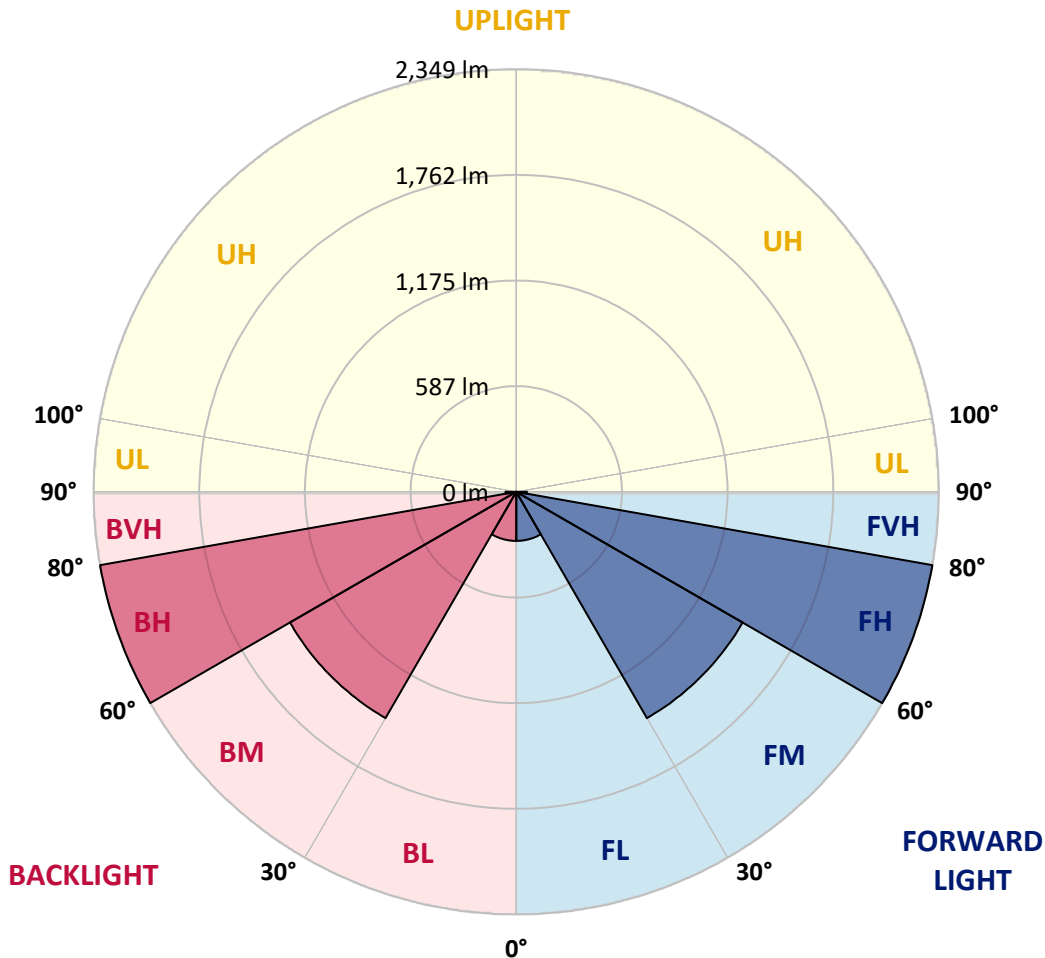
REPORT NUMBER: P573237  
 CATALOG NUMBER: ARCH-S-PA2-50-740-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	272.8	3.3			
FM (30°-60°)	1452.9	17.6			
FH (60°-80°)	2349.5	28.4			G2/5000
FVH (80°-90°)	59.3	0.7			G1/100
BL (0°-30°)	272.8	3.3	B1/500		
BM (30°-60°)	1452.9	17.6	B2/2500		
BH (60°-80°)	2349.5	28.4	B3/2500		G2/5000
BVH (80°-90°)	59.3	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





REPORT NUMBER: P573237

CATALOG NUMBER: ARCH-S-PA2-50-740-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9	648.9
2.5°	653.2	651.1	651.1	648.9	646.7	646.7	646.7	644.5	646.7	646.7	646.7
5°	651.1	648.9	646.7	644.5	644.5	642.4	644.5	642.4	642.4	642.4	642.4
7.5°	644.5	644.5	640.2	640.2	638.0	638.0	635.9	635.9	635.9	633.7	633.7
10°	644.5	642.4	640.2	635.9	633.7	633.7	633.7	631.5	633.7	633.7	633.7
12.5°	644.5	644.5	638.0	633.7	629.3	629.3	629.3	629.3	633.7	635.9	635.9
15°	648.9	646.7	640.2	631.5	627.2	627.2	627.2	629.3	633.7	638.0	638.0
17.5°	651.1	646.7	638.0	629.3	627.2	627.2	627.2	629.3	635.9	640.2	642.4
20°	653.2	651.1	640.2	631.5	629.3	629.3	629.3	629.3	635.9	642.4	644.5
22.5°	659.7	657.6	646.7	640.2	638.0	640.2	638.0	638.0	644.5	653.2	653.2
25°	668.4	664.1	653.2	648.9	648.9	653.2	653.2	648.9	655.4	661.9	664.1
27.5°	683.6	679.3	668.4	664.1	661.9	661.9	661.9	661.9	666.2	677.1	677.1
30°	696.6	694.5	690.1	690.1	687.9	683.6	683.6	687.9	690.1	694.5	696.6
32.5°	714.0	709.6	705.3	705.3	718.3	731.3	720.5	703.1	701.0	703.1	705.3
35°	750.9	746.5	735.7	729.2	742.2	755.2	737.9	727.0	733.5	740.0	740.0
37.5°	803.0	800.8	792.1	779.1	774.8	776.9	770.4	779.1	796.5	809.5	811.6
40°	857.2	855.0	846.4	839.9	842.0	852.9	848.5	839.9	850.7	859.4	859.4
42.5°	941.9	933.2	920.2	902.8	905.0	913.6	902.8	911.5	926.7	941.9	944.0
45°	1054.7	1046.0	1028.7	1013.5	1002.6	1007.0	1007.0	1022.2	1039.5	1056.9	1063.4
47.5°	1176.2	1174.1	1156.7	1143.7	1132.8	1139.3	1139.3	1139.3	1167.6	1184.9	1184.9
50°	1326.0	1319.5	1319.5	1308.6	1304.3	1306.4	1297.8	1306.4	1319.5	1323.8	1317.3
52.5°	1503.9	1497.4	1501.8	1506.1	1516.9	1532.1	1510.4	1508.3	1501.8	1495.2	1493.1
55°	1716.6	1723.1	1740.5	1768.7	1786.1	1816.4	1783.9	1744.8	1727.5	1710.1	1697.1
57.5°	1970.5	1981.4	2007.4	2074.7	2148.5	2176.7	2120.3	2048.6	1987.9	1938.0	1948.8
60°	2302.6	2296.0	2339.4	2430.6	2534.8	2591.2	2502.2	2385.0	2287.4	2263.5	2270.0
62.5°	2656.3	2669.3	2699.7	2821.2	2951.4	3012.2	2903.7	2730.1	2604.2	2539.1	2539.1
65°	2877.6	2886.3	2971.0	3142.4	3287.8	3370.3	3216.2	2964.5	2784.3	2675.8	2669.3
67.5°	2910.2	2918.9	3014.4	3233.6	3472.3	3587.3	3320.4	2992.7	2782.2	2649.8	2645.4
69°	2821.2	2827.7	2927.6	3157.6	3457.1	3624.2	3270.4	2901.5	2684.5	2556.5	2560.8
70°	2693.2	2719.2	2795.2	3029.6	3376.8	3591.6	3179.3	2799.5	2573.8	2471.8	2454.5
72.5°	2111.6	2128.9	2254.8	2545.6	3014.4	3259.6	2793.0	2369.8	2139.8	2033.5	2059.5
75°	1195.8	1191.4	1352.0	1768.7	2324.3	2610.7	2198.4	1705.8	1371.5	1243.5	1260.9
77.5°	455.7	475.3	583.8	907.1	1460.5	1783.9	1458.4	911.5	638.0	497.0	473.1
80°	147.6	156.3	206.2	329.9	622.8	1007.0	681.4	351.6	221.4	167.1	156.3
82.5°	58.6	65.1	78.1	110.7	210.5	379.8	230.0	128.0	95.5	78.1	71.6
85°	32.6	30.4	41.2	49.9	71.6	108.5	78.1	60.8	52.1	36.9	34.7
87.5°	10.9	10.9	17.4	17.4	19.5	17.4	19.5	21.7	21.7	13.0	10.9
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)