

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: P573165

Luminaire Tested: **ARCH-S-PA2-40-750-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573165  
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-PA2-40-750-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 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: 6912 lumens  
Efficiency: N/A  
Efficacy: 158.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

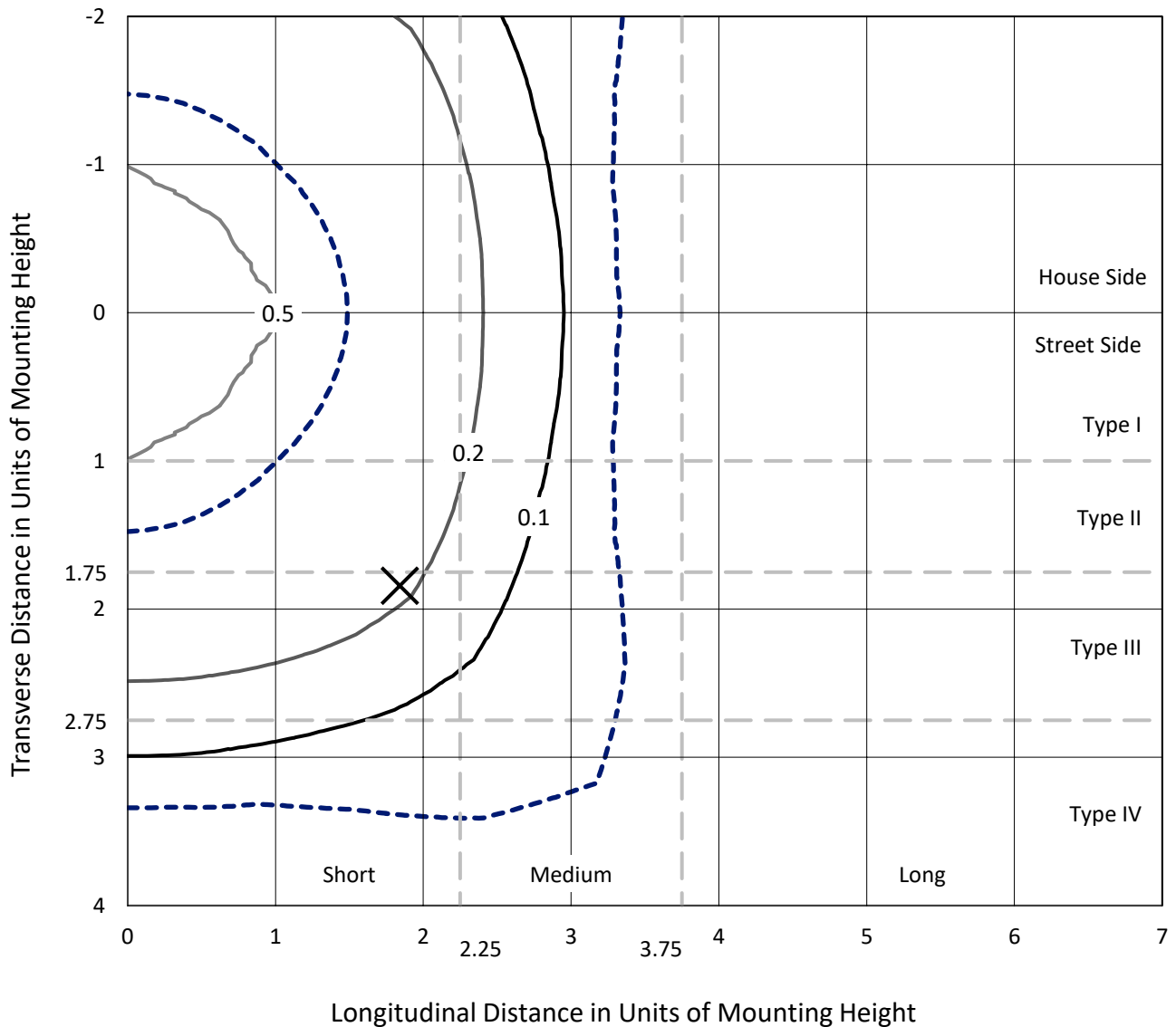
Input Watts (W): 43.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P573165  
 CATALOG NUMBER: ARCH-S-PA2-40-750-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

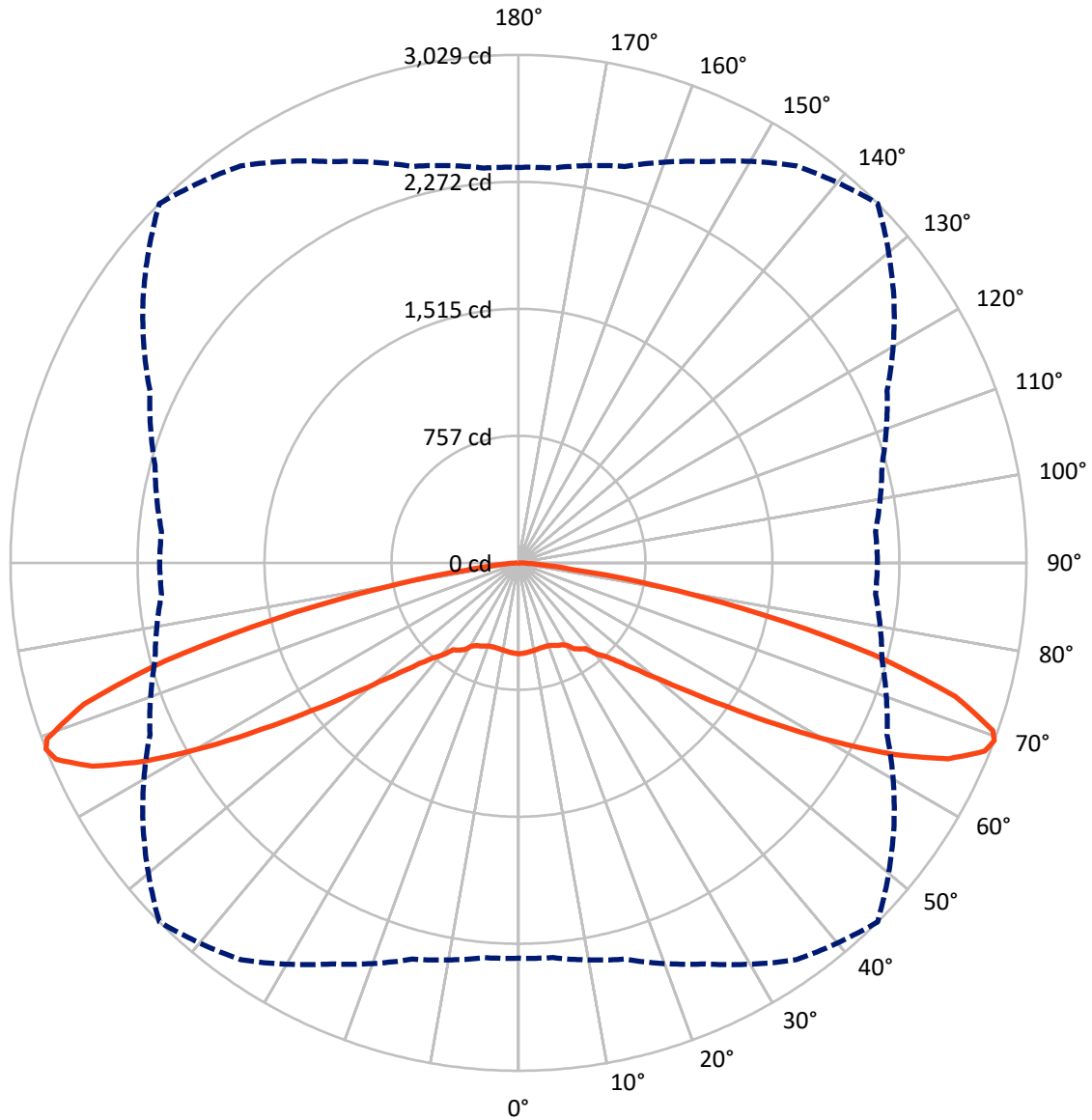
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P573165  
CATALOG NUMBER: ARCH-S-PA2-40-750-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P573165  
 CATALOG NUMBER: ARCH-S-PA2-40-750-U-5WQ

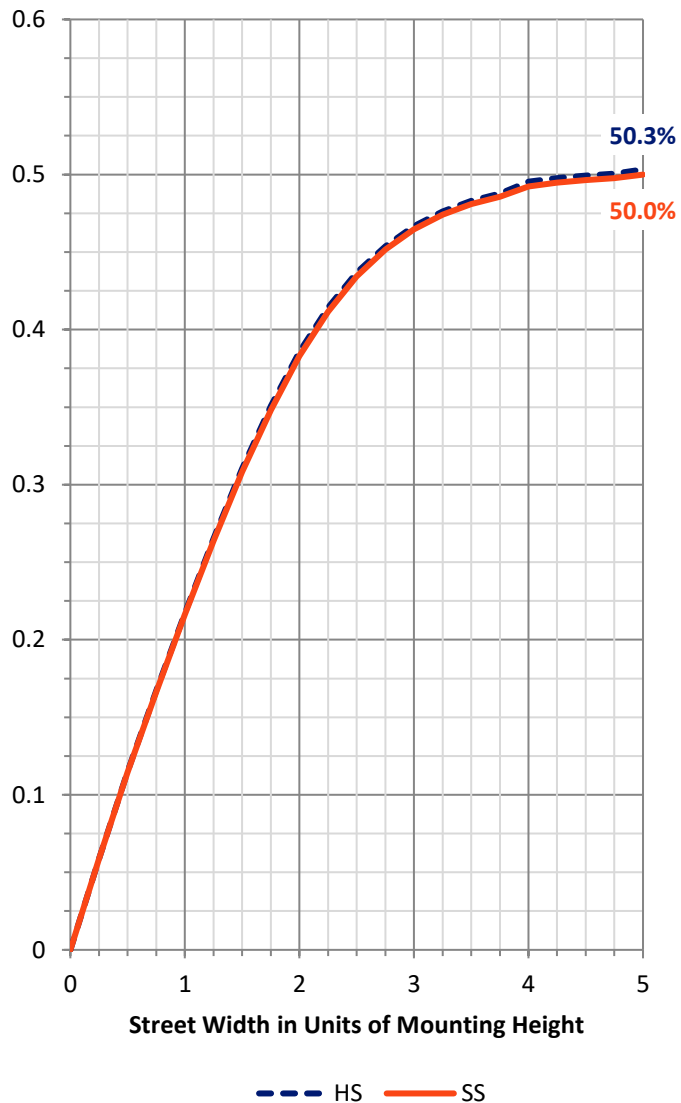
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3456.0	0.0	3456.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3456.0	0.0	3456.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6912.0	0.0	6912.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.1	0.7
10°-20°	150.2	2.2
20°-30°	254.8	3.7
30°-40°	396.1	5.7
40°-50°	680.0	9.8
50°-60°	1352.9	19.6
60°-70°	2410.0	34.9
70°-80°	1517.8	22.0
80°-90°	99.1	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°	6912.0	100.0
0°-180°	6912.0	100.0

**Coefficient of Utilization**

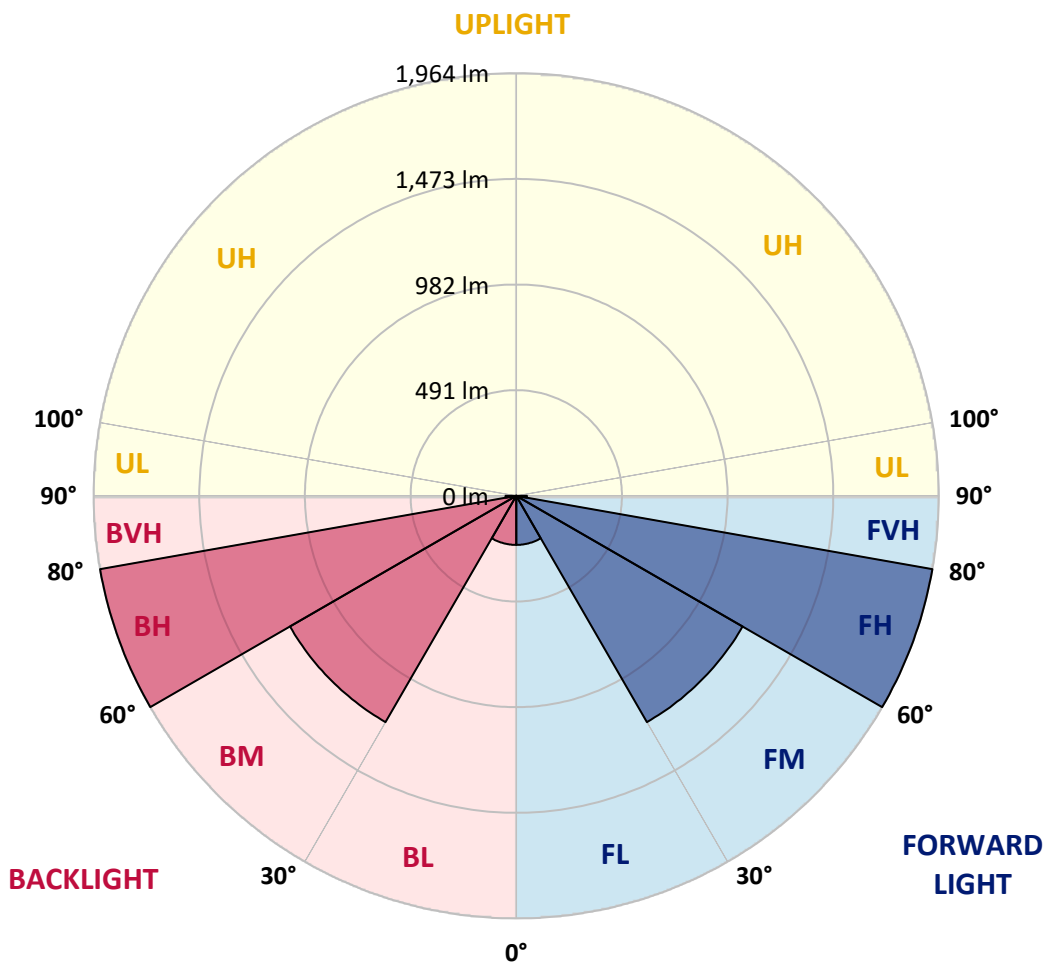


REPORT NUMBER: P573165  
 CATALOG NUMBER: ARCH-S-PA2-40-750-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	228.1	3.3			
FM (30°-60°)	1214.5	17.6			
FH (60°-80°)	1963.9	28.4			G2/5000
FVH (80°-90°)	49.6	0.7			G1/100
BL (0°-30°)	228.1	3.3	B1/500		
BM (30°-60°)	1214.5	17.6	B2/2500		
BH (60°-80°)	1963.9	28.4	B3/2500		G2/5000
BVH (80°-90°)	49.6	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: P573165

CATALOG NUMBER: ARCH-S-PA2-40-750-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4	542.4
2.5°	546.0	544.2	544.2	542.4	540.6	540.6	540.6	538.8	540.6	540.6	540.6
5°	544.2	542.4	540.6	538.8	538.8	537.0	538.8	537.0	537.0	537.0	537.0
7.5°	538.8	538.8	535.1	535.1	533.3	533.3	531.5	531.5	531.5	529.7	529.7
10°	538.8	537.0	535.1	531.5	529.7	529.7	529.7	527.9	529.7	529.7	529.7
12.5°	538.8	538.8	533.3	529.7	526.1	526.1	526.1	526.1	529.7	531.5	531.5
15°	542.4	540.6	535.1	527.9	524.3	524.3	524.3	526.1	529.7	533.3	533.3
17.5°	544.2	540.6	533.3	526.1	524.3	524.3	524.3	526.1	531.5	535.1	537.0
20°	546.0	544.2	535.1	527.9	526.1	526.1	526.1	526.1	531.5	537.0	538.8
22.5°	551.5	549.7	540.6	535.1	533.3	533.3	533.3	533.3	538.8	546.0	546.0
25°	558.7	555.1	546.0	542.4	542.4	546.0	546.0	542.4	547.8	553.3	555.1
27.5°	571.4	567.8	558.7	555.1	553.3	553.3	553.3	553.3	556.9	566.0	566.0
30°	582.3	580.5	576.9	576.9	575.0	571.4	571.4	575.0	576.9	580.5	582.3
32.5°	596.8	593.2	589.6	589.6	600.4	611.3	602.3	587.7	585.9	587.7	589.6
35°	627.7	624.0	615.0	609.5	620.4	631.3	616.8	607.7	613.1	618.6	618.6
37.5°	671.2	669.4	662.1	651.2	647.6	649.4	644.0	651.2	665.7	676.6	678.4
40°	716.5	714.7	707.5	702.0	703.8	712.9	709.3	702.0	711.1	718.4	718.4
42.5°	787.3	780.0	769.1	754.6	756.5	763.7	754.6	761.9	774.6	787.3	789.1
45°	881.6	874.4	859.9	847.2	838.1	841.7	841.7	854.4	868.9	883.4	888.9
47.5°	983.2	981.4	966.9	956.0	946.9	952.4	952.4	952.4	975.9	990.5	990.5
50°	1108.4	1102.9	1102.9	1093.9	1090.2	1092.0	1084.8	1092.0	1102.9	1106.6	1101.1
52.5°	1257.1	1251.7	1255.3	1258.9	1268.0	1280.7	1262.6	1260.8	1255.3	1249.9	1248.1
55°	1434.9	1440.3	1454.9	1478.4	1492.9	1518.3	1491.1	1458.5	1444.0	1429.5	1418.6
57.5°	1647.1	1656.2	1678.0	1734.2	1795.9	1819.5	1772.3	1712.4	1661.7	1619.9	1629.0
60°	1924.7	1919.2	1955.5	2031.7	2118.8	2166.0	2091.6	1993.6	1912.0	1892.0	1897.5
62.5°	2220.4	2231.3	2256.7	2358.2	2467.1	2517.9	2427.2	2282.1	2176.8	2122.4	2122.4
65°	2405.4	2412.7	2483.4	2626.7	2748.3	2817.2	2688.4	2478.0	2327.4	2236.7	2231.3
67.5°	2432.6	2439.9	2519.7	2702.9	2902.5	2998.6	2775.5	2501.5	2325.6	2214.9	2211.3
69°	2358.2	2363.7	2447.1	2639.4	2889.8	3029.4	2733.7	2425.4	2244.0	2136.9	2140.6
70°	2251.2	2273.0	2336.5	2532.4	2822.6	3002.2	2657.6	2340.1	2151.4	2066.2	2051.7
72.5°	1765.1	1779.6	1884.8	2127.9	2519.7	2724.7	2334.7	1980.9	1788.6	1699.7	1721.5
75°	999.5	995.9	1130.1	1478.4	1942.8	2182.3	1837.6	1425.8	1146.5	1039.4	1054.0
77.5°	380.9	397.3	488.0	758.3	1220.8	1491.1	1219.0	761.9	533.3	415.4	395.5
80°	123.4	130.6	172.3	275.7	520.6	841.7	569.6	293.9	185.0	139.7	130.6
82.5°	49.0	54.4	65.3	92.5	176.0	317.5	192.3	107.0	79.8	65.3	59.9
85°	27.2	25.4	34.5	41.7	59.9	90.7	65.3	50.8	43.5	30.8	29.0
87.5°	9.1	9.1	14.5	14.5	16.3	14.5	16.3	18.1	18.1	10.9	9.1
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)