

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: P572706

Luminaire Tested: **ARCH-S-PA2-100-830-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572706  
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-PA2-100-830-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 1010mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11402 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

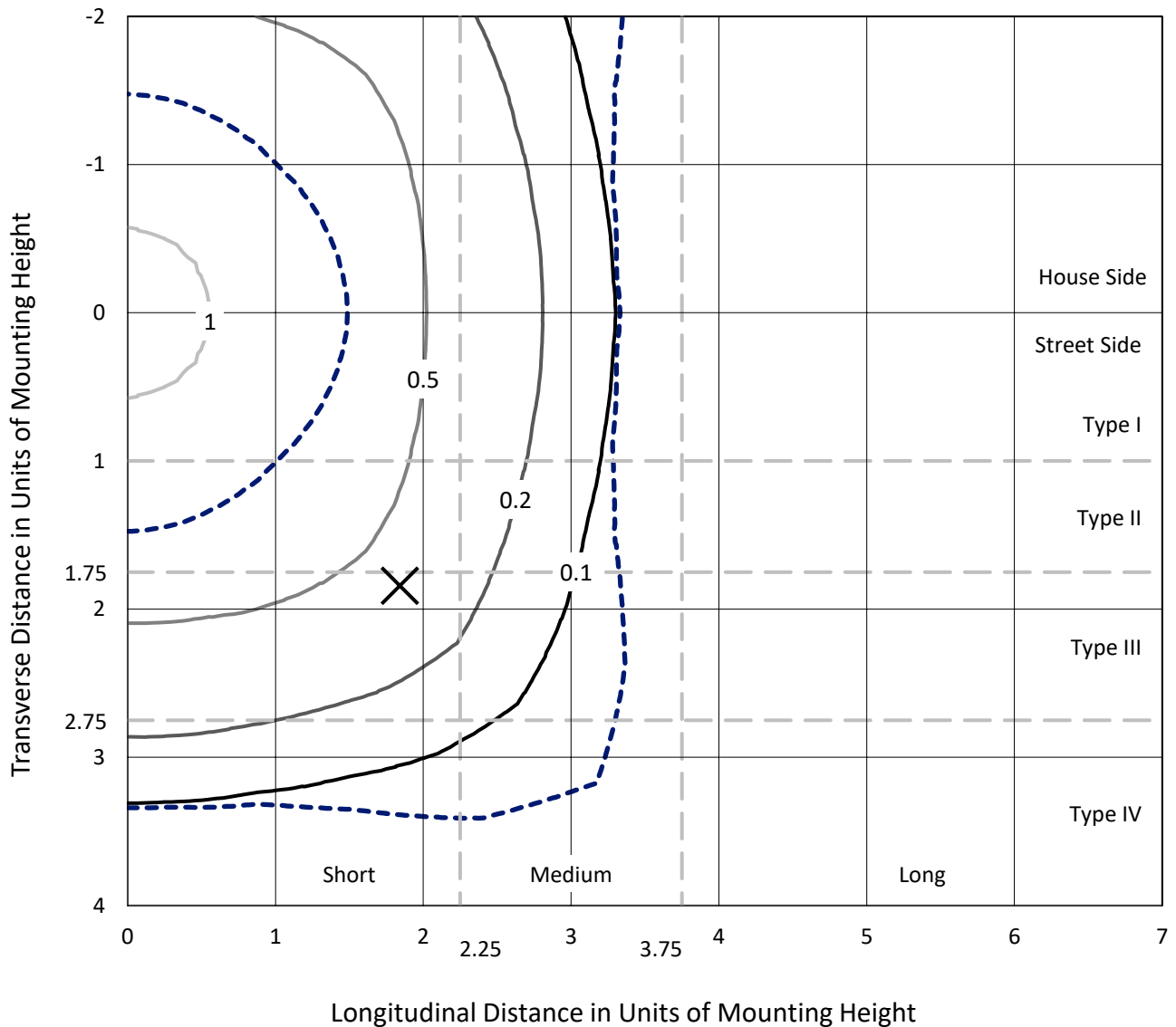
Input Watts (W): 103.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

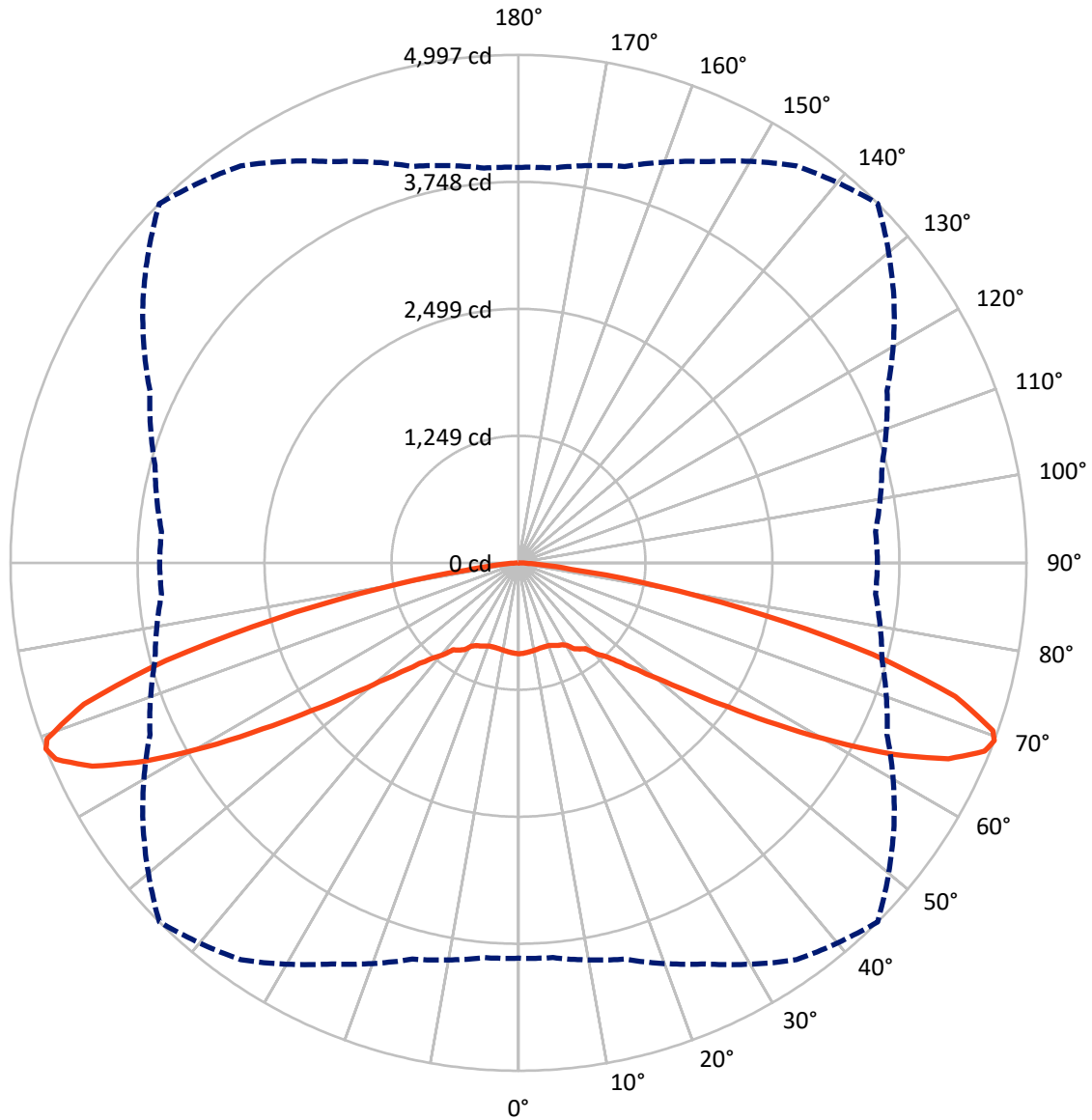
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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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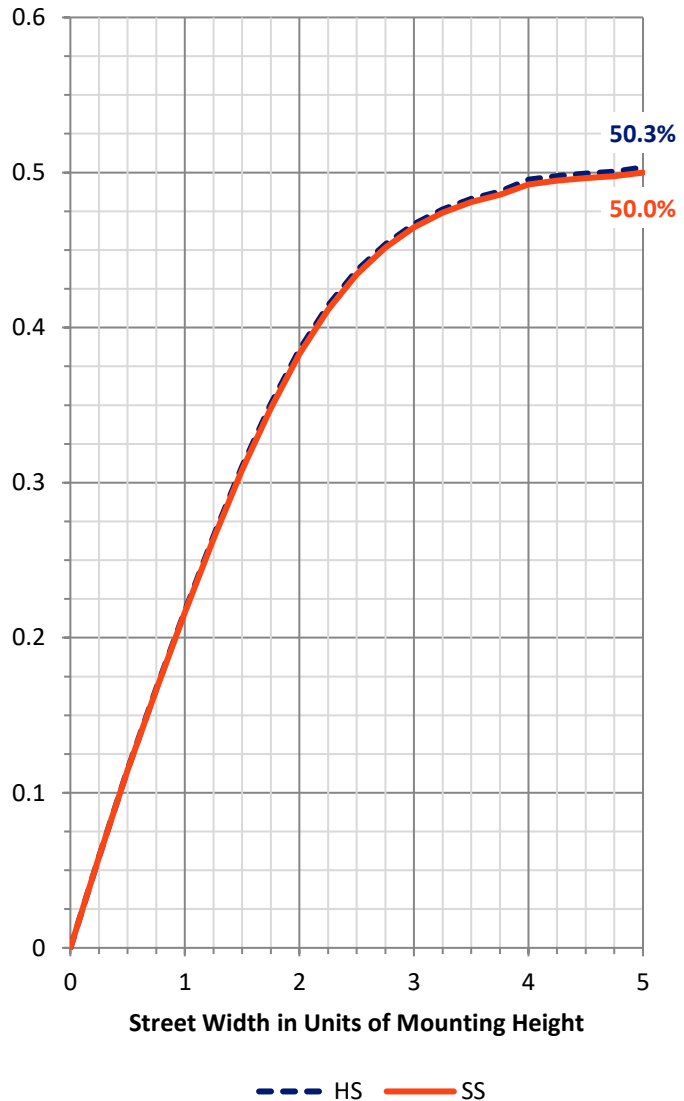
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5701.0	0.0	5701.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5701.0	0.0	5701.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11402.0	0.0	11402.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	0.7
10°-20°	247.8	2.2
20°-30°	420.3	3.7
30°-40°	653.4	5.7
40°-50°	1121.7	9.8
50°-60°	2231.7	19.6
60°-70°	3975.5	34.9
70°-80°	2503.7	22.0
80°-90°	163.5	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°	11402.0	100.0
0°-180°	11402.0	100.0

**Coefficient of Utilization**



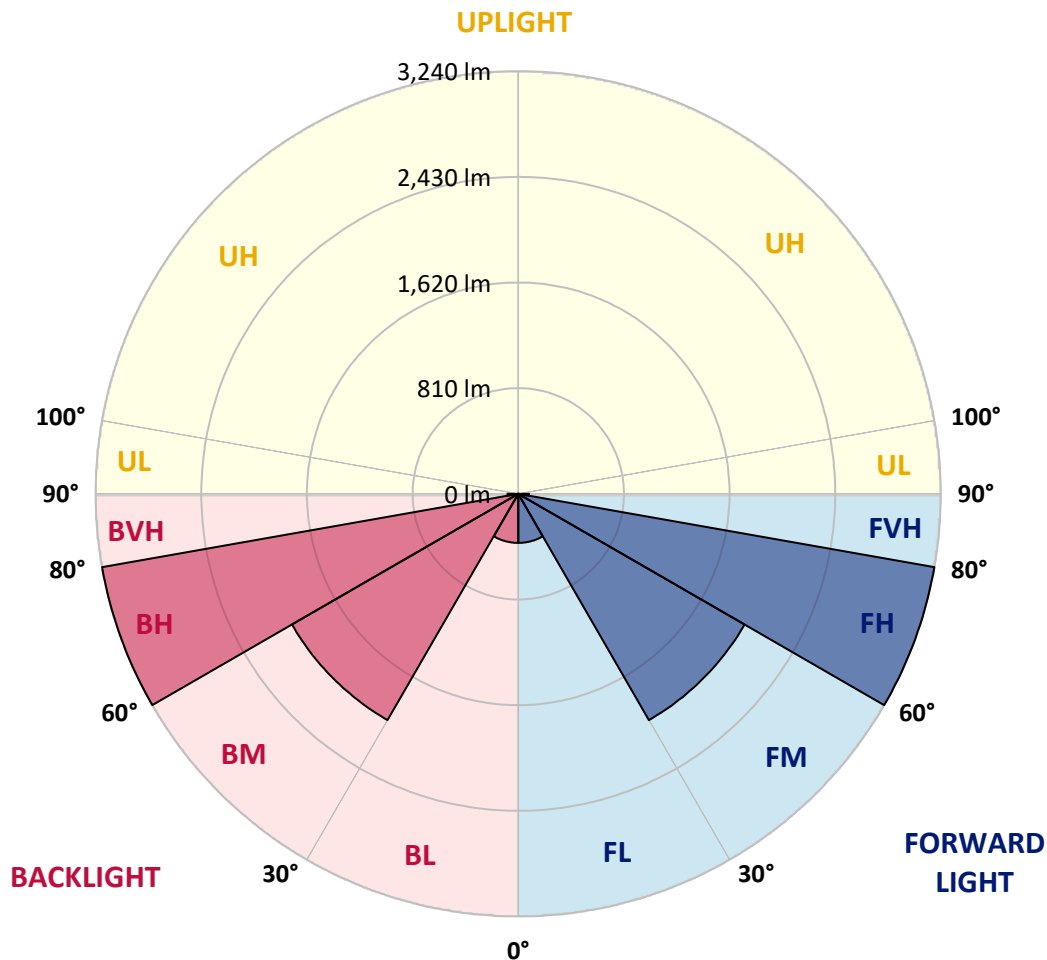
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.2	3.3			
FM (30°-60°)	2003.4	17.6			
FH (60°-80°)	3239.6	28.4			G2/5000
FVH (80°-90°)	81.8	0.7			G1/100
BL (0°-30°)	376.2	3.3	B1/500		
BM (30°-60°)	2003.4	17.6	B2/2500		
BH (60°-80°)	3239.6	28.4	B4/5000		G2/5000
BVH (80°-90°)	81.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	900.7	897.7	897.7	894.7	891.7	891.7	891.7	888.7	891.7	891.7	891.7
5°	897.7	894.7	891.7	888.7	888.7	885.8	888.7	885.8	885.8	885.8	885.8
7.5°	888.7	888.7	882.8	882.8	879.8	879.8	876.8	876.8	876.8	873.8	873.8
10°	888.7	885.8	882.8	876.8	873.8	873.8	873.8	870.8	873.8	873.8	873.8
12.5°	888.7	888.7	879.8	873.8	867.8	867.8	867.8	867.8	873.8	876.8	876.8
15°	894.7	891.7	882.8	870.8	864.8	864.8	864.8	867.8	873.8	879.8	879.8
17.5°	897.7	891.7	879.8	867.8	864.8	864.8	864.8	867.8	876.8	882.8	885.8
20°	900.7	897.7	882.8	870.8	867.8	867.8	867.8	867.8	876.8	885.8	888.7
22.5°	909.7	906.7	891.7	882.8	879.8	882.8	879.8	879.8	888.7	900.7	900.7
25°	921.7	915.7	900.7	894.7	894.7	900.7	900.7	894.7	903.7	912.7	915.7
27.5°	942.6	936.6	921.7	915.7	912.7	912.7	912.7	912.7	918.7	933.6	933.6
30°	960.6	957.6	951.6	951.6	948.6	942.6	942.6	948.6	951.6	957.6	960.6
32.5°	984.5	978.5	972.5	972.5	990.5	1008.4	993.5	969.5	966.6	969.5	972.5
35°	1035.4	1029.4	1014.4	1005.5	1023.4	1041.4	1017.4	1002.5	1011.4	1020.4	1020.4
37.5°	1107.2	1104.2	1092.2	1074.3	1068.3	1071.3	1062.3	1074.3	1098.2	1116.2	1119.2
40°	1182.0	1179.0	1167.0	1158.1	1161.1	1176.0	1170.0	1158.1	1173.0	1185.0	1185.0
42.5°	1298.7	1286.7	1268.8	1244.8	1247.8	1259.8	1244.8	1256.8	1277.8	1298.7	1301.7
45°	1454.3	1442.3	1418.4	1397.5	1382.5	1388.5	1388.5	1409.4	1433.4	1457.3	1466.3
47.5°	1621.9	1618.9	1595.0	1577.0	1562.0	1571.0	1571.0	1571.0	1609.9	1633.9	1633.9
50°	1828.4	1819.4	1819.4	1804.4	1798.4	1801.4	1789.5	1801.4	1819.4	1825.4	1816.4
52.5°	2073.7	2064.8	2070.8	2076.7	2091.7	2112.6	2082.7	2079.7	2070.8	2061.8	2058.8
55°	2367.0	2376.0	2399.9	2438.8	2462.8	2504.7	2459.8	2405.9	2382.0	2358.0	2340.1
57.5°	2717.1	2732.1	2768.0	2860.8	2962.5	3001.4	2923.6	2824.8	2741.1	2672.2	2687.2
60°	3175.0	3166.0	3225.8	3351.5	3495.1	3572.9	3450.3	3288.7	3154.0	3121.1	3130.1
62.5°	3662.7	3680.7	3722.6	3890.1	4069.7	4153.5	4003.9	3764.5	3590.9	3501.1	3501.1
65°	3967.9	3979.9	4096.6	4333.0	4533.5	4647.2	4434.8	4087.6	3839.3	3689.6	3680.7
67.5°	4012.8	4024.8	4156.5	4458.7	4787.9	4946.5	4578.4	4126.5	3836.3	3653.7	3647.8
69°	3890.1	3899.1	4036.8	4354.0	4766.9	4997.3	4509.6	4000.9	3701.6	3525.1	3531.1
70°	3713.6	3749.5	3854.2	4177.4	4656.2	4952.4	4383.9	3860.2	3549.0	3408.4	3384.4
72.5°	2911.6	2935.6	3109.1	3510.1	4156.5	4494.6	3851.2	3267.7	2950.5	2803.9	2839.8
75°	1648.8	1642.8	1864.3	2438.8	3204.9	3599.9	3031.3	2352.0	1891.2	1714.7	1738.6
77.5°	628.4	655.3	805.0	1250.8	2013.9	2459.8	2010.9	1256.8	879.8	685.3	652.3
80°	203.5	215.5	284.3	454.8	858.8	1388.5	939.6	484.8	305.2	230.4	215.5
82.5°	80.8	89.8	107.7	152.6	290.3	523.7	317.2	176.6	131.7	107.7	98.7
85°	44.9	41.9	56.9	68.8	98.7	149.6	107.7	83.8	71.8	50.9	47.9
87.5°	15.0	15.0	23.9	23.9	26.9	23.9	26.9	29.9	29.9	18.0	15.0
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)