

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: P572913

Luminaire Tested: **ARCH-S-PA2-130-740-U-5WQ**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572913  
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-PA2-130-740-U-5WQ  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16725 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

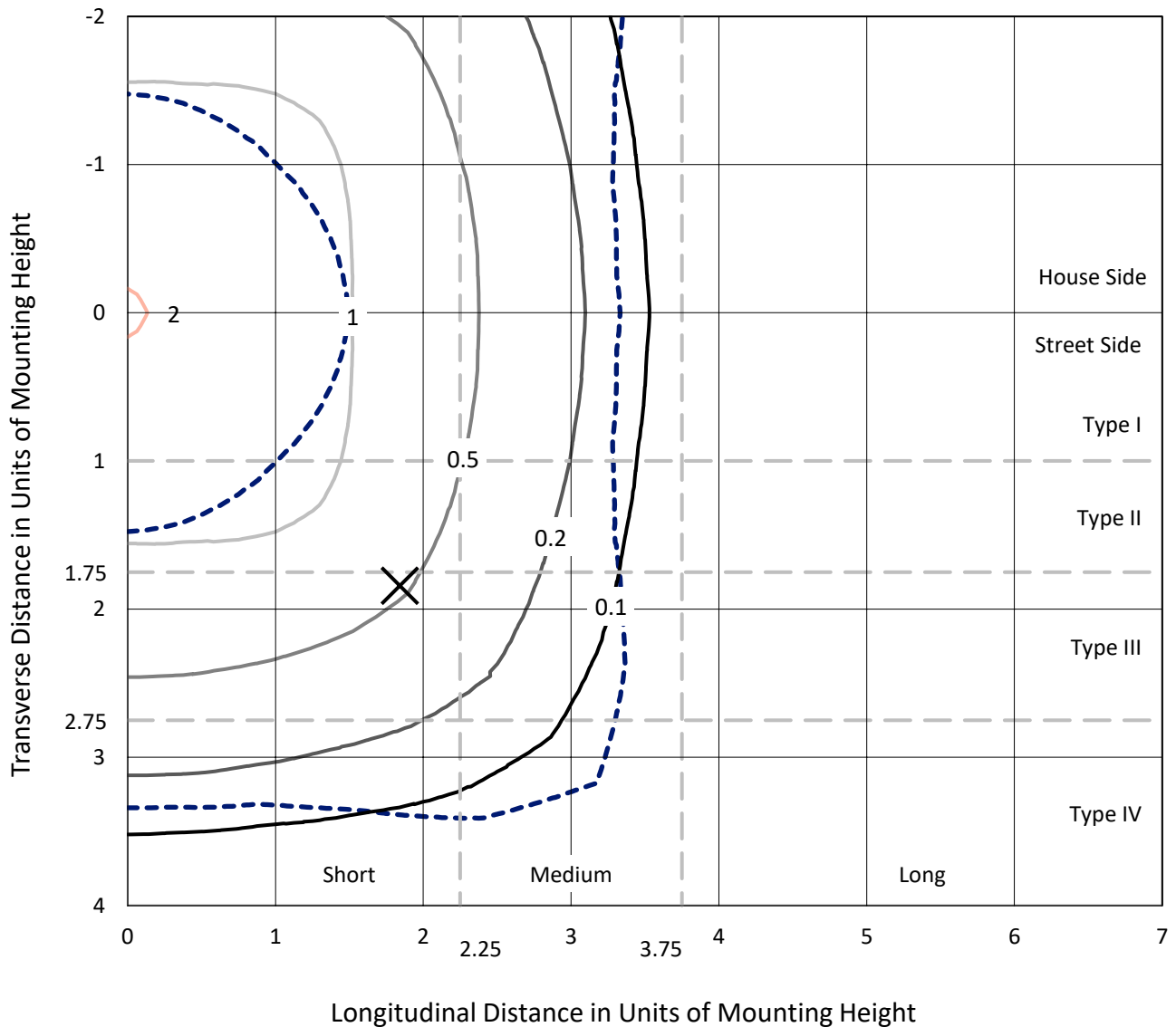
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

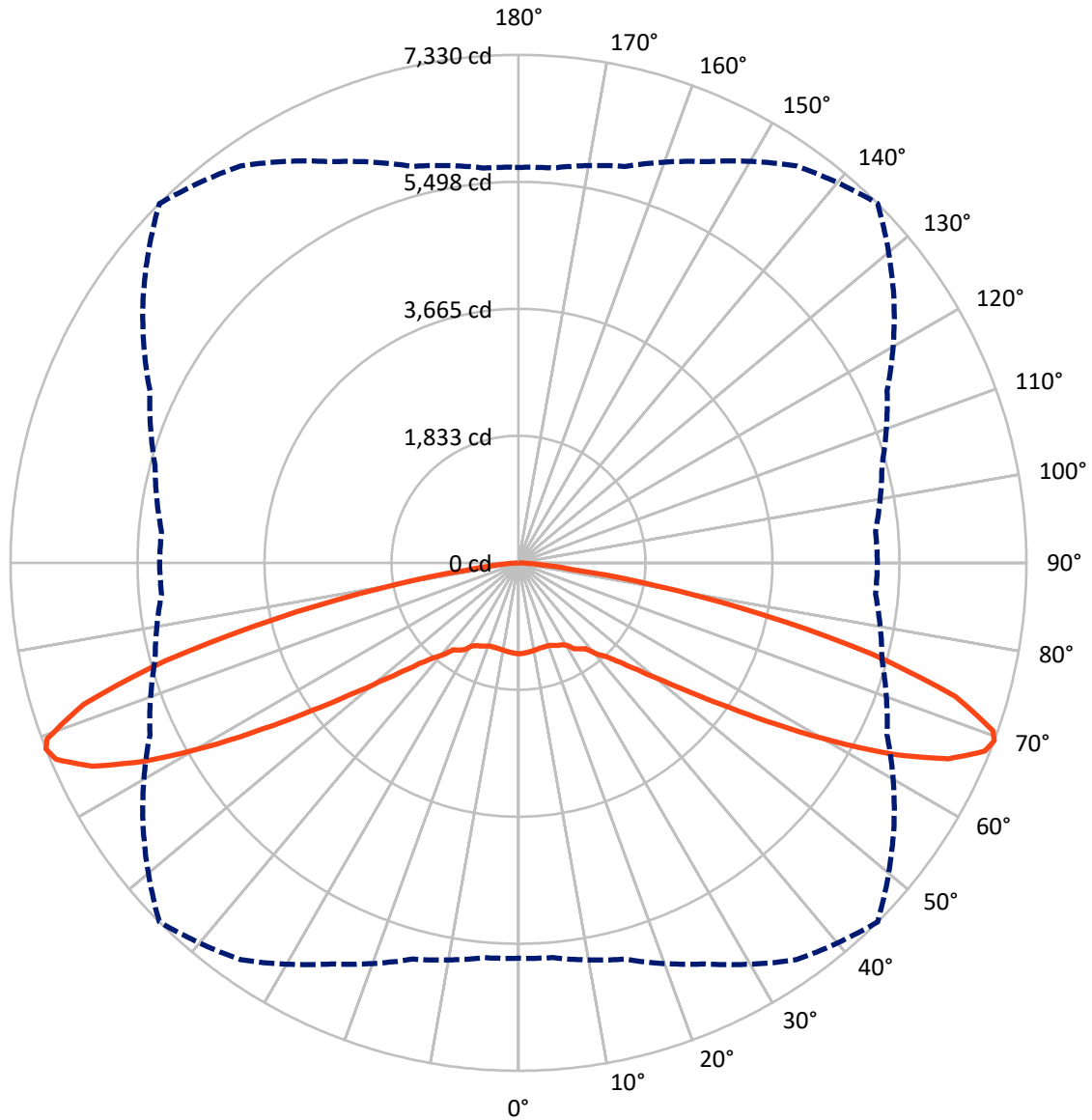
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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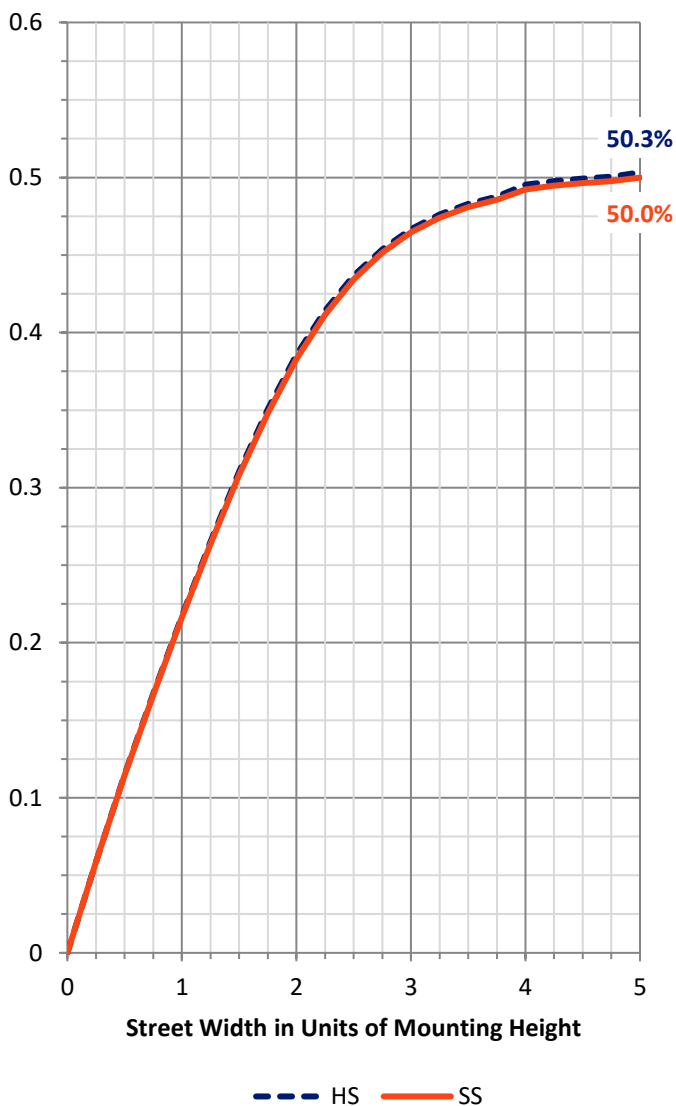
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8362.5	0.0	8362.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8362.5	0.0	8362.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16725.0	0.0	16725.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.7	0.7
10°-20°	363.5	2.2
20°-30°	616.5	3.7
30°-40°	958.5	5.7
40°-50°	1645.4	9.8
50°-60°	3273.6	19.6
60°-70°	5831.5	34.9
70°-80°	3672.6	22.0
80°-90°	239.9	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°	16725.0	100.0
0°-180°	16725.0	100.0

**Coefficient of Utilization**



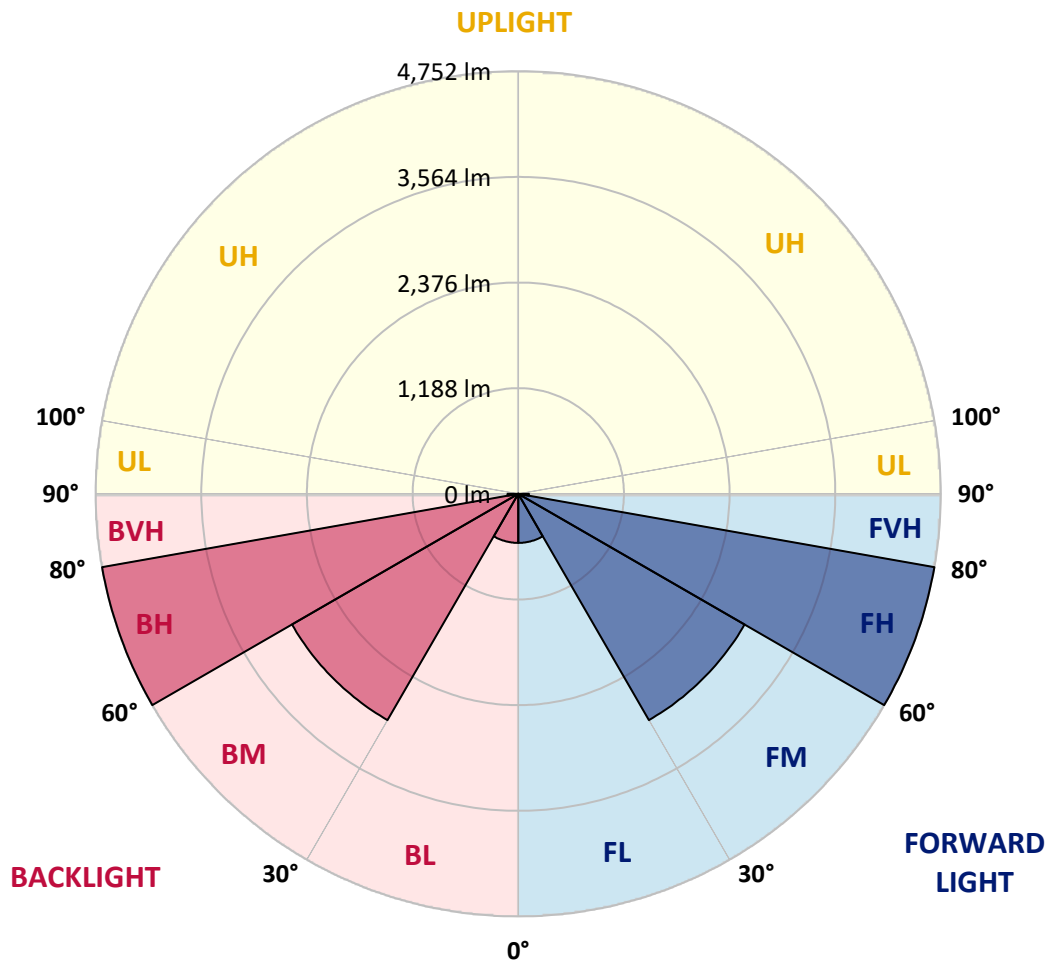
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	551.8	3.3			
FM (30°-60°)	2938.7	17.6			
FH (60°-80°)	4752.0	28.4			G2/5000
FVH (80°-90°)	119.9	0.7			G2/225
BL (0°-30°)	551.8	3.3	B2/1000		
BM (30°-60°)	2938.7	17.6	B3/5000		
BH (60°-80°)	4752.0	28.4	B4/5000		G2/5000
BVH (80°-90°)	119.9	0.7			G2/225
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°	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4	1312.4
2.5°	1321.2	1316.8	1316.8	1312.4	1308.0	1308.0	1308.0	1303.7	1308.0	1308.0	1308.0
5°	1316.8	1312.4	1308.0	1303.7	1303.7	1299.3	1303.7	1299.3	1299.3	1299.3	1299.3
7.5°	1303.7	1303.7	1294.9	1294.9	1290.5	1290.5	1286.1	1286.1	1286.1	1281.7	1281.7
10°	1303.7	1299.3	1294.9	1286.1	1281.7	1281.7	1281.7	1277.3	1281.7	1281.7	1281.7
12.5°	1303.7	1303.7	1290.5	1281.7	1272.9	1272.9	1272.9	1272.9	1281.7	1286.1	1286.1
15°	1312.4	1308.0	1294.9	1277.3	1268.5	1268.5	1268.5	1272.9	1281.7	1290.5	1290.5
17.5°	1316.8	1308.0	1290.5	1272.9	1268.5	1268.5	1268.5	1272.9	1286.1	1294.9	1299.3
20°	1321.2	1316.8	1294.9	1277.3	1272.9	1272.9	1272.9	1272.9	1286.1	1299.3	1303.7
22.5°	1334.4	1330.0	1308.0	1294.9	1290.5	1294.9	1290.5	1290.5	1303.7	1321.2	1321.2
25°	1351.9	1343.2	1321.2	1312.4	1312.4	1321.2	1321.2	1312.4	1325.6	1338.8	1343.2
27.5°	1382.7	1373.9	1351.9	1343.2	1338.8	1338.8	1338.8	1338.8	1347.6	1369.5	1369.5
30°	1409.0	1404.6	1395.8	1395.8	1391.4	1382.7	1382.7	1391.4	1395.8	1404.6	1409.0
32.5°	1444.1	1435.3	1426.6	1426.6	1452.9	1479.2	1457.3	1422.2	1417.8	1422.2	1426.6
35°	1518.7	1510.0	1488.0	1474.8	1501.2	1527.5	1492.4	1470.5	1483.6	1496.8	1496.8
37.5°	1624.1	1619.7	1602.1	1575.8	1567.0	1571.4	1558.2	1575.8	1610.9	1637.3	1641.6
40°	1733.8	1729.4	1711.9	1698.7	1703.1	1725.0	1716.3	1698.7	1720.7	1738.2	1738.2
42.5°	1905.0	1887.5	1861.1	1826.0	1830.4	1847.9	1826.0	1843.6	1874.3	1905.0	1909.4
45°	2133.3	2115.7	2080.6	2049.9	2027.9	2036.7	2036.7	2067.4	2102.5	2137.6	2150.8
47.5°	2379.1	2374.7	2339.6	2313.2	2291.3	2304.4	2304.4	2304.4	2361.5	2396.6	2396.6
50°	2681.9	2668.8	2668.8	2646.8	2638.0	2642.4	2624.9	2642.4	2668.8	2677.5	2664.4
52.5°	3041.9	3028.7	3037.5	3046.3	3068.2	3098.9	3055.0	3050.6	3037.5	3024.3	3019.9
55°	3472.0	3485.2	3520.3	3577.4	3612.5	3673.9	3608.1	3529.1	3494.0	3458.9	3432.5
57.5°	3985.6	4007.5	4060.2	4196.3	4345.5	4402.6	4288.5	4143.6	4020.7	3919.8	3941.7
60°	4657.2	4644.0	4731.8	4916.2	5126.8	5241.0	5061.0	4824.0	4626.4	4578.2	4591.3
62.5°	5372.7	5399.0	5460.4	5706.2	5969.6	6092.5	5873.0	5521.9	5267.3	5135.6	5135.6
65°	5820.4	5837.9	6009.1	6355.9	6650.0	6816.8	6505.1	5995.9	5631.6	5412.2	5399.0
67.5°	5886.2	5903.8	6096.9	6540.2	7023.1	7255.7	6715.8	6053.0	5627.2	5359.5	5350.7
69°	5706.2	5719.4	5921.3	6386.6	6992.3	7330.3	6614.9	5868.7	5429.7	5170.7	5179.5
70°	5447.3	5499.9	5653.6	6127.6	6829.9	7264.5	6430.5	5662.4	5205.9	4999.5	4964.4
72.5°	4270.9	4306.0	4560.6	5148.8	6096.9	6592.9	5649.2	4793.2	4328.0	4112.9	4165.6
75°	2418.6	2409.8	2734.6	3577.4	4701.1	5280.5	4446.5	3450.1	2774.1	2515.1	2550.3
77.5°	921.8	961.3	1180.8	1834.8	2954.1	3608.1	2949.7	1843.6	1290.5	1005.2	956.9
80°	298.5	316.0	417.0	667.2	1259.8	2036.7	1378.3	711.1	447.7	338.0	316.0
82.5°	118.5	131.7	158.0	223.9	425.8	768.1	465.3	259.0	193.1	158.0	144.9
85°	65.8	61.5	83.4	101.0	144.9	219.5	158.0	122.9	105.3	74.6	70.2
87.5°	21.9	21.9	35.1	35.1	39.5	35.1	39.5	43.9	43.9	26.3	21.9
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)