

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: P572886

Luminaire Tested: **ARCH-S-PA2-130-727-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572886
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-PA2-130-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 13987 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

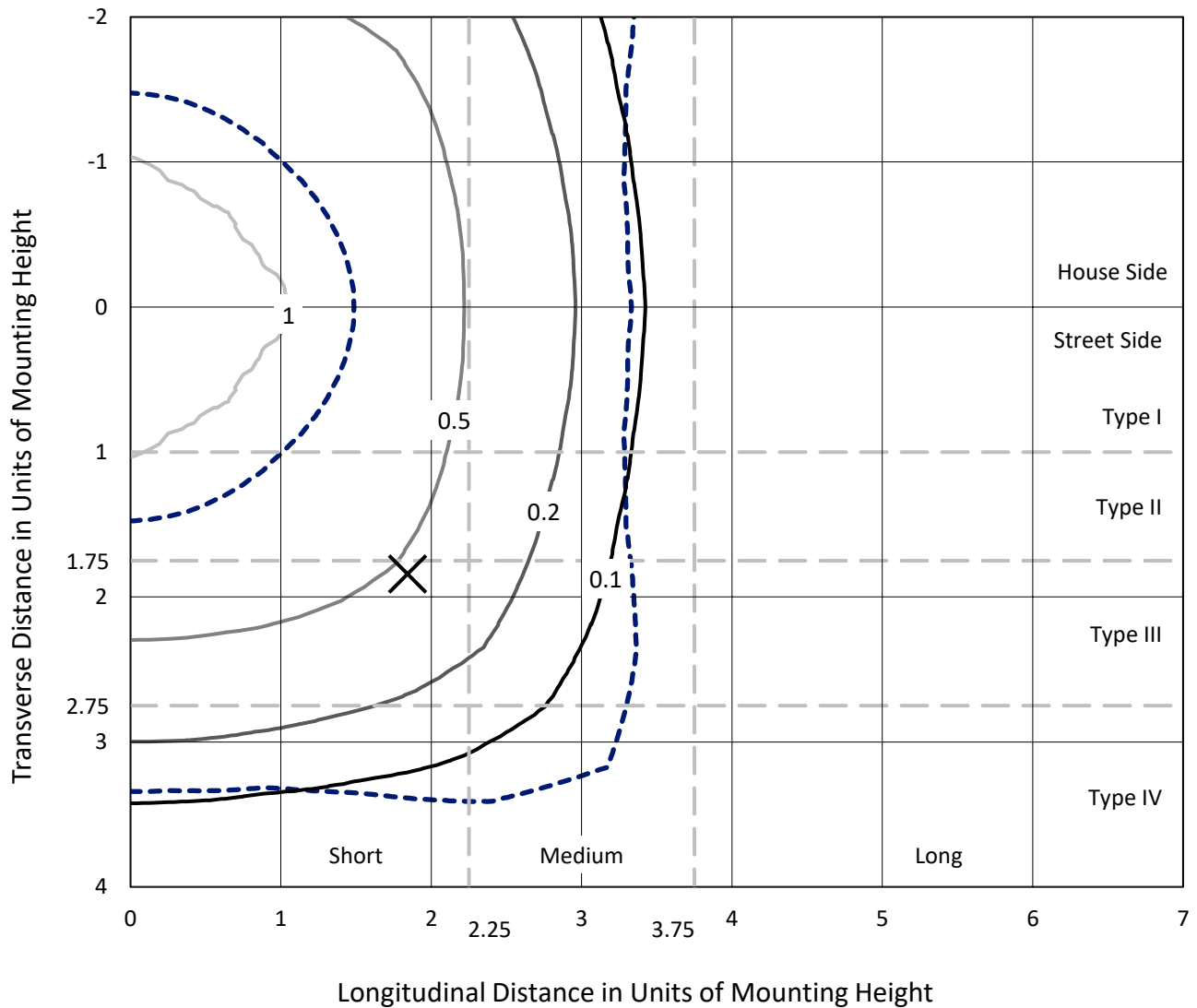
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

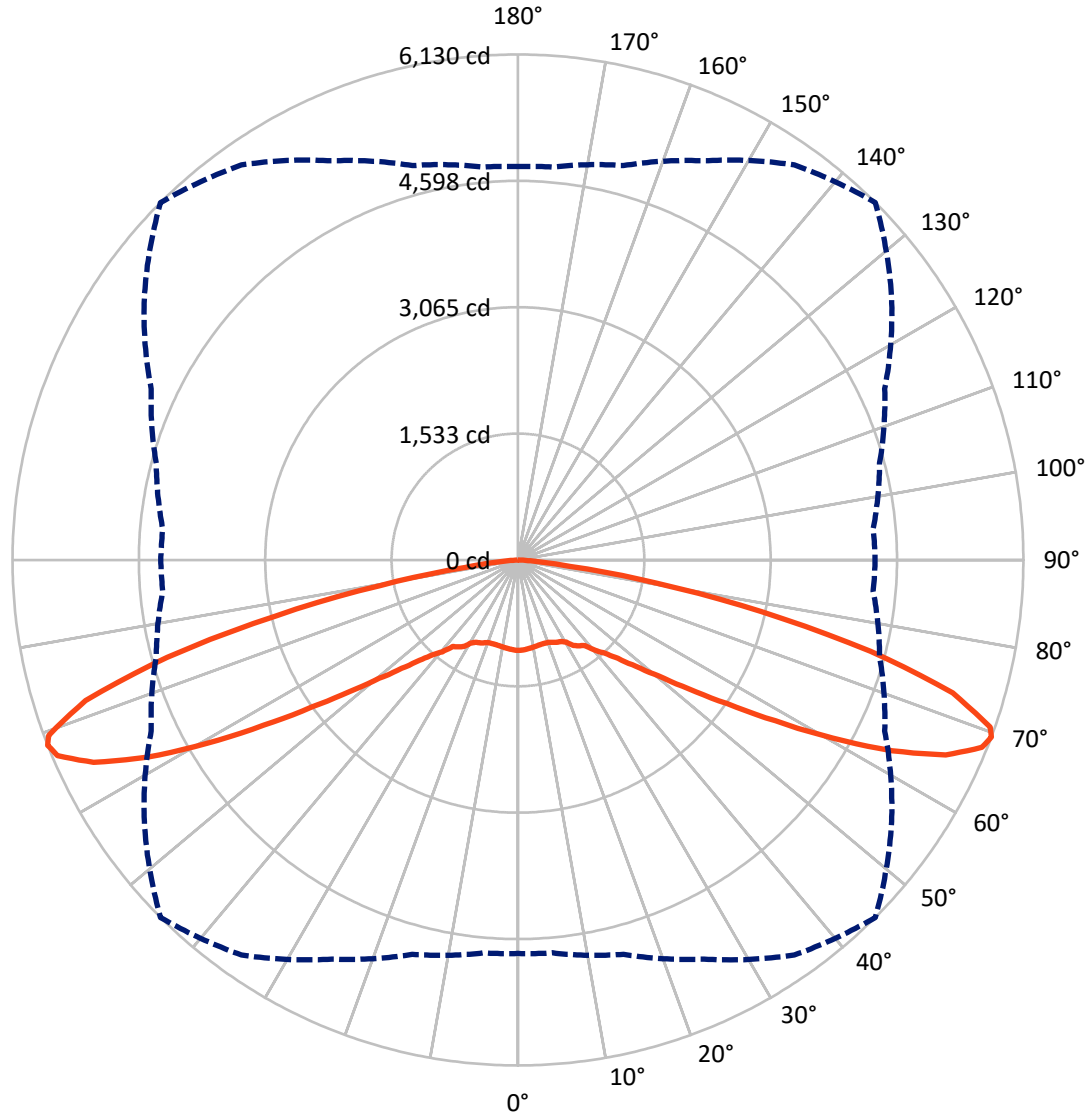
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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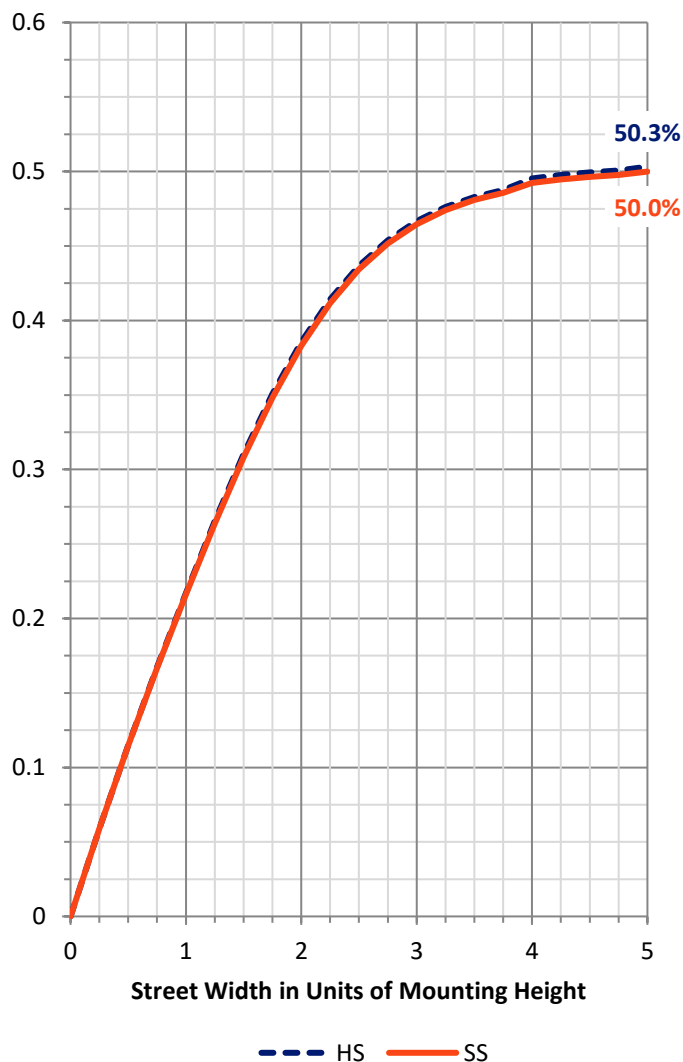
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6993.5	0.0	6993.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6993.5	0.0	6993.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13987.0	0.0	13987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	0.7
10°-20°	304.0	2.2
20°-30°	515.5	3.7
30°-40°	801.6	5.7
40°-50°	1376.0	9.8
50°-60°	2737.7	19.6
60°-70°	4876.8	34.9
70°-80°	3071.4	22.0
80°-90°	200.6	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°	13987.0	100.0
0°-180°	13987.0	100.0

Coefficient of Utilization

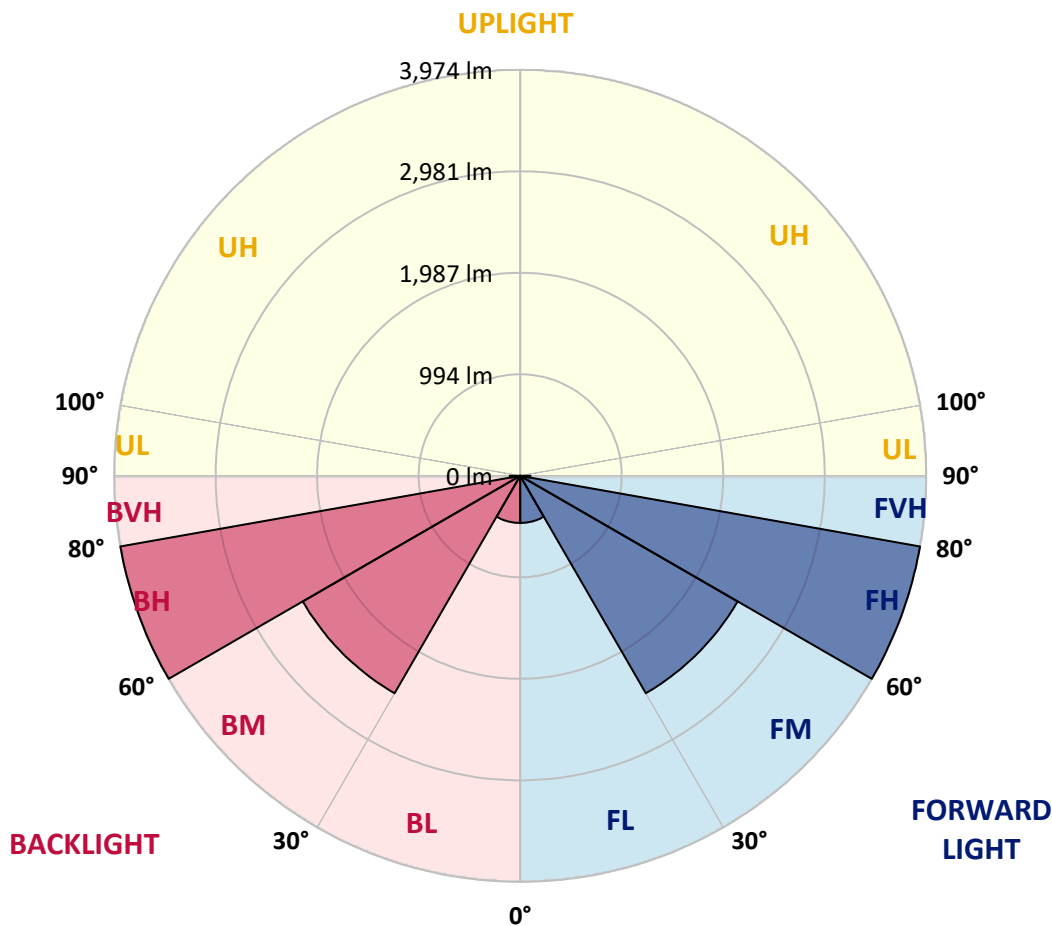


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	461.5	3.3			
FM (30°-60°)	2457.6	17.6			
FH (60°-80°)	3974.1	28.4			G2/5000
FVH (80°-90°)	100.3	0.7			G2/225
BL (0°-30°)	461.5	3.3	B1/500		
BM (30°-60°)	2457.6	17.6	B2/2500		
BH (60°-80°)	3974.1	28.4	B4/5000		G2/5000
BVH (80°-90°)	100.3	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°	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1104.9	1101.3	1101.3	1097.6	1093.9	1093.9	1093.9	1090.2	1093.9	1093.9	1093.9
5°	1101.3	1097.6	1093.9	1090.2	1090.2	1086.6	1090.2	1086.6	1086.6	1086.6	1086.6
7.5°	1090.2	1090.2	1082.9	1082.9	1079.2	1079.2	1075.6	1075.6	1075.6	1071.9	1071.9
10°	1090.2	1086.6	1082.9	1075.6	1071.9	1071.9	1071.9	1068.2	1071.9	1071.9	1071.9
12.5°	1090.2	1090.2	1079.2	1071.9	1064.5	1064.5	1064.5	1064.5	1071.9	1075.6	1075.6
15°	1097.6	1093.9	1082.9	1068.2	1060.9	1060.9	1060.9	1064.5	1071.9	1079.2	1079.2
17.5°	1101.3	1093.9	1079.2	1064.5	1060.9	1060.9	1060.9	1064.5	1075.6	1082.9	1086.6
20°	1104.9	1101.3	1082.9	1068.2	1064.5	1064.5	1064.5	1064.5	1075.6	1086.6	1090.2
22.5°	1115.9	1112.3	1093.9	1082.9	1079.2	1082.9	1079.2	1079.2	1090.2	1104.9	1104.9
25°	1130.6	1123.3	1104.9	1097.6	1097.6	1104.9	1104.9	1097.6	1108.6	1119.6	1123.3
27.5°	1156.3	1149.0	1130.6	1123.3	1119.6	1119.6	1119.6	1119.6	1126.9	1145.3	1145.3
30°	1178.3	1174.7	1167.3	1167.3	1163.7	1156.3	1156.3	1163.7	1167.3	1174.7	1178.3
32.5°	1207.7	1200.4	1193.0	1193.0	1215.0	1237.1	1218.7	1189.4	1185.7	1189.4	1193.0
35°	1270.1	1262.8	1244.4	1233.4	1255.4	1277.5	1248.1	1229.7	1240.7	1251.8	1251.8
37.5°	1358.2	1354.5	1339.9	1317.8	1310.5	1314.2	1303.1	1317.8	1347.2	1369.2	1372.9
40°	1450.0	1446.3	1431.6	1420.6	1424.3	1442.6	1435.3	1420.6	1439.0	1453.7	1453.7
42.5°	1593.1	1578.5	1556.4	1527.1	1530.7	1545.4	1527.1	1541.8	1567.4	1593.1	1596.8
45°	1784.0	1769.3	1740.0	1714.3	1695.9	1703.3	1703.3	1729.0	1758.3	1787.7	1798.7
47.5°	1989.6	1985.9	1956.6	1934.5	1916.2	1927.2	1927.2	1927.2	1974.9	2004.3	2004.3
50°	2242.9	2231.9	2231.9	2213.5	2206.2	2209.8	2195.2	2209.8	2231.9	2239.2	2228.2
52.5°	2543.9	2532.9	2540.2	2547.6	2565.9	2591.6	2554.9	2551.2	2540.2	2529.2	2525.5
55°	2903.6	2914.6	2944.0	2991.7	3021.1	3072.5	3017.4	2951.4	2922.0	2892.6	2870.6
57.5°	3333.1	3351.5	3395.5	3509.3	3634.1	3681.9	3586.4	3465.3	3362.5	3278.1	3296.4
60°	3894.8	3883.8	3957.2	4111.3	4287.5	4383.0	4232.5	4034.3	3869.1	3828.7	3839.7
62.5°	4493.1	4515.1	4566.5	4772.1	4992.3	5095.1	4911.6	4617.9	4405.0	4294.9	4294.9
65°	4867.5	4882.2	5025.4	5315.4	5561.3	5700.8	5440.2	5014.4	4709.7	4526.1	4515.1
67.5°	4922.6	4937.3	5098.8	5469.6	5873.3	6067.9	5616.4	5062.1	4706.0	4482.1	4474.8
69°	4772.1	4783.1	4952.0	5341.1	5847.7	6130.3	5532.0	4907.9	4540.8	4324.3	4331.6
70°	4555.5	4599.6	4728.0	5124.5	5711.8	6075.2	5377.8	4735.4	4353.6	4181.1	4151.7
72.5°	3571.7	3601.1	3814.0	4305.9	5098.8	5513.6	4724.4	4008.6	3619.4	3439.6	3483.6
75°	2022.6	2015.3	2286.9	2991.7	3931.5	4416.0	3718.6	2885.3	2320.0	2103.4	2132.8
77.5°	770.9	803.9	987.5	1534.4	2470.5	3017.4	2466.8	1541.8	1079.2	840.6	800.2
80°	249.6	264.3	348.7	558.0	1053.5	1703.3	1152.6	594.7	374.4	282.7	264.3
82.5°	99.1	110.1	132.2	187.2	356.1	642.4	389.1	216.6	161.5	132.2	121.1
85°	55.1	51.4	69.7	84.4	121.1	183.5	132.2	102.8	88.1	62.4	58.7
87.5°	18.4	18.4	29.4	29.4	33.0	29.4	33.0	36.7	36.7	22.0	18.4
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)