

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: P572859

Luminaire Tested: **ARCH-S-PA2-120-827-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572859
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-PA2-120-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11856 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

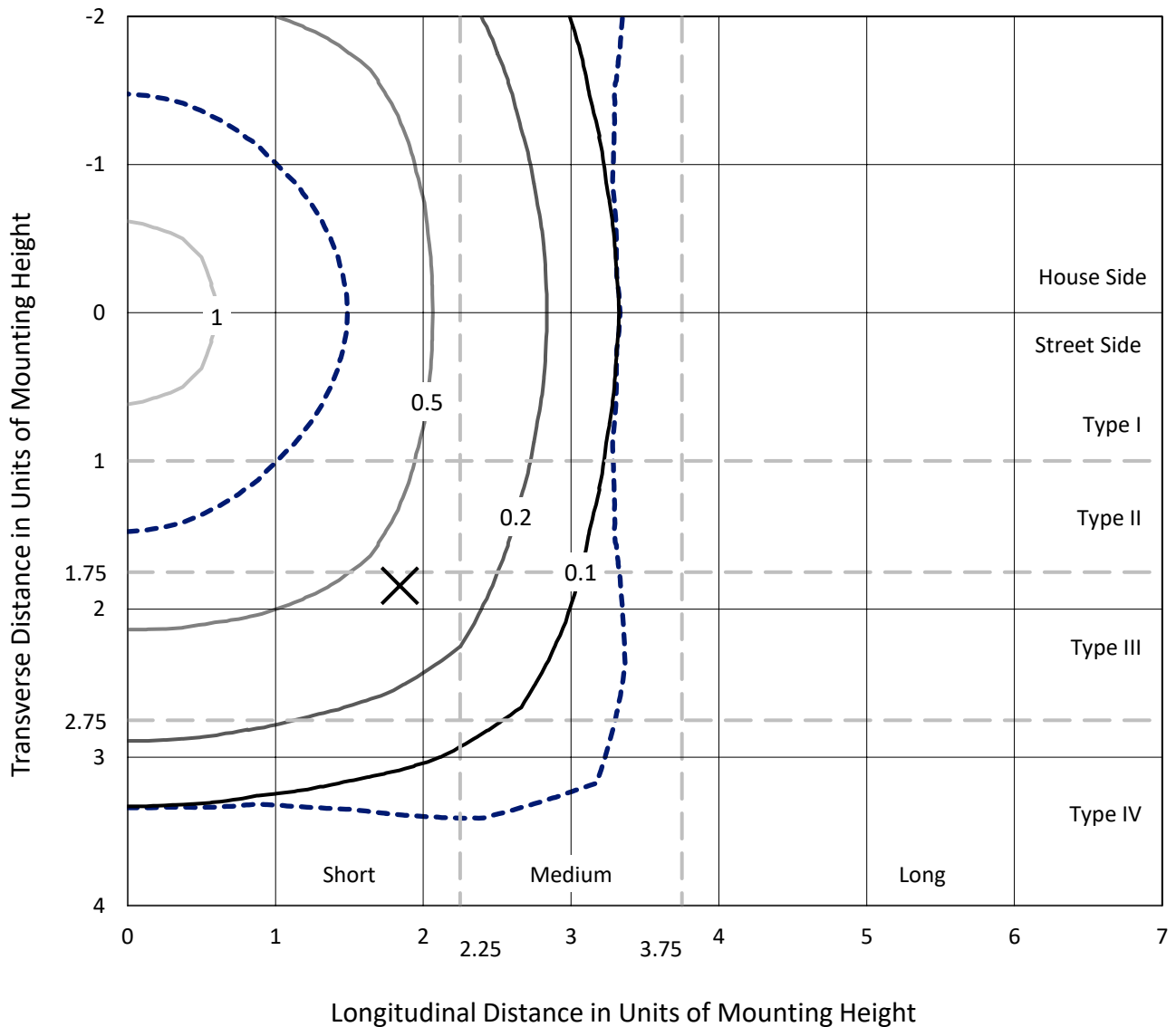
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

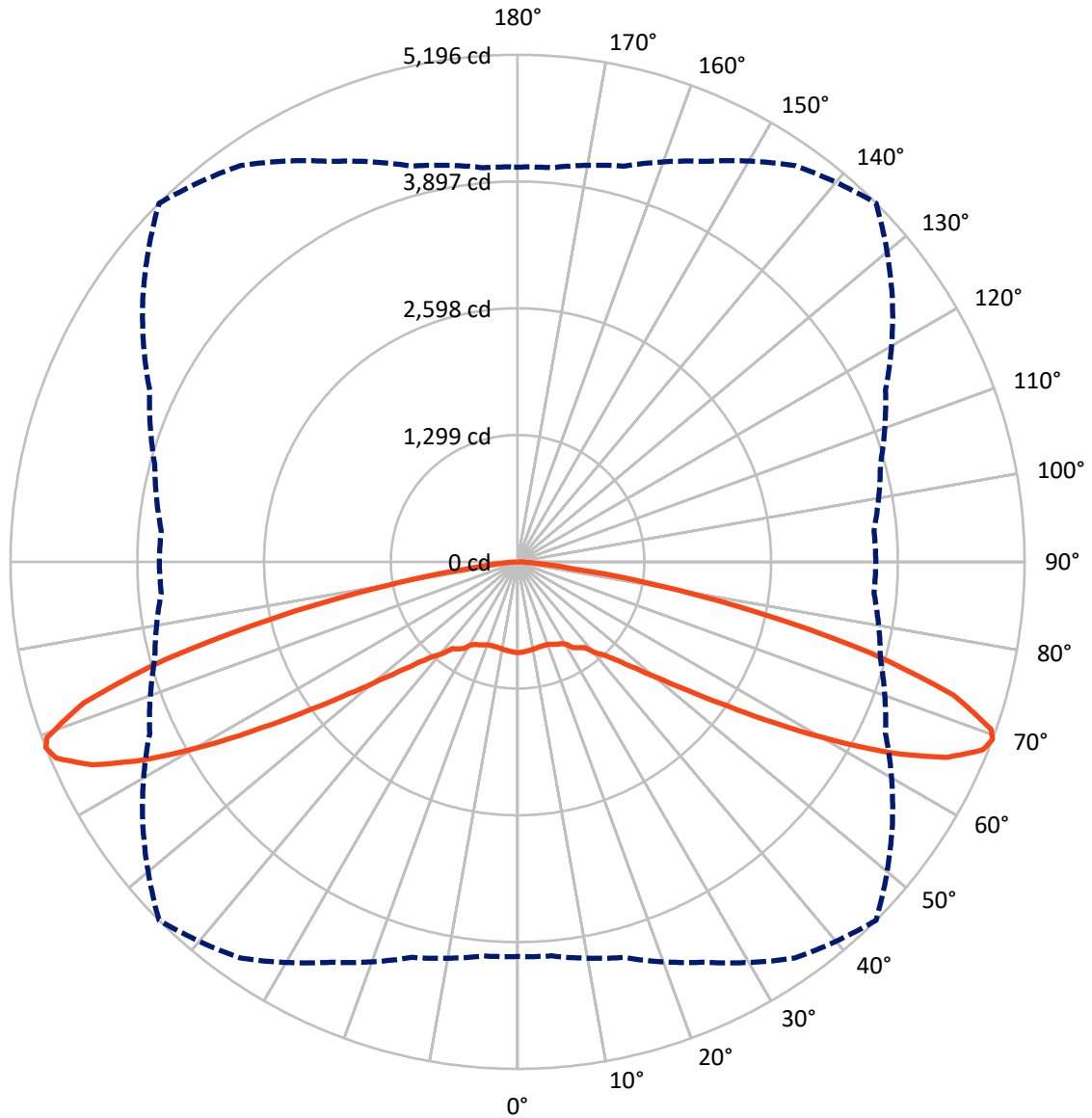
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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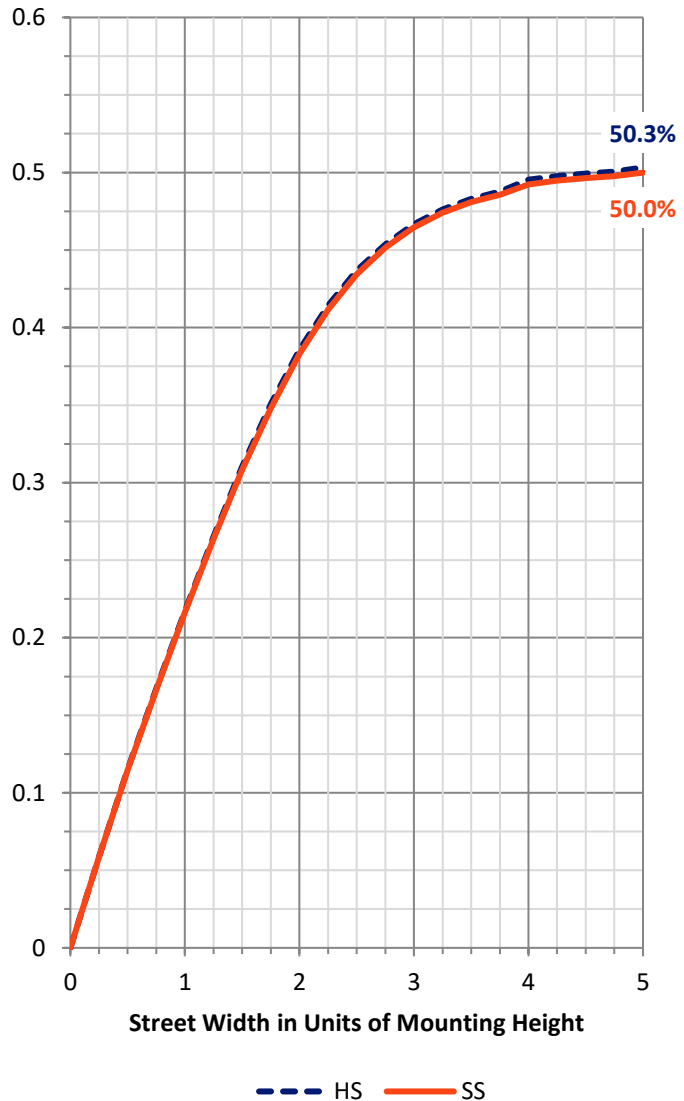
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5928.0	0.0	5928.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5928.0	0.0	5928.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11856.0	0.0	11856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	0.7
10°-20°	257.7	2.2
20°-30°	437.0	3.7
30°-40°	679.4	5.7
40°-50°	1166.4	9.8
50°-60°	2320.6	19.6
60°-70°	4133.8	34.9
70°-80°	2603.4	22.0
80°-90°	170.0	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°	11856.0	100.0
0°-180°	11856.0	100.0

Coefficient of Utilization

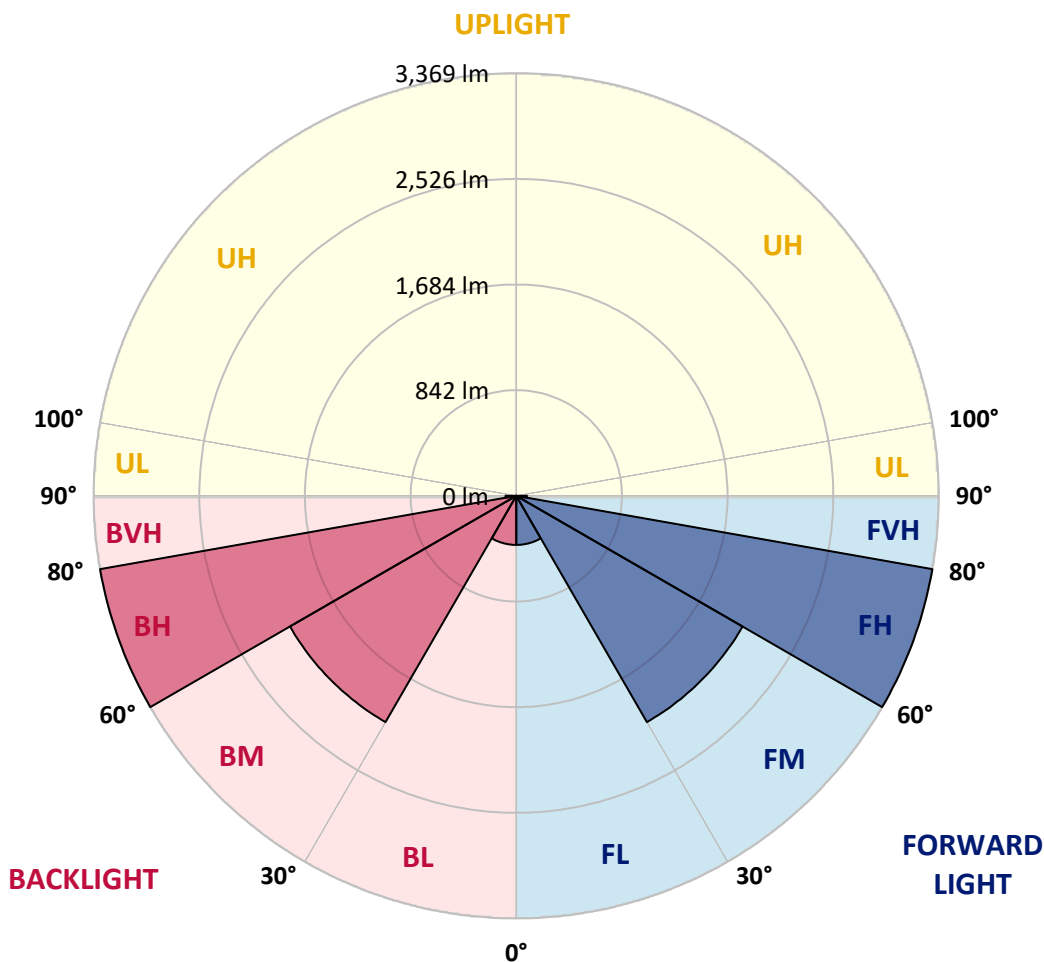


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.2	3.3			
FM (30°-60°)	2083.2	17.6			
FH (60°-80°)	3368.6	28.4			G2/5000
FVH (80°-90°)	85.0	0.7			G1/100
BL (0°-30°)	391.2	3.3	B1/500		
BM (30°-60°)	2083.2	17.6	B2/2500		
BH (60°-80°)	3368.6	28.4	B4/5000		G2/5000
BVH (80°-90°)	85.0	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°	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4	930.4
2.5°	936.6	933.5	933.5	930.4	927.2	927.2	927.2	924.1	927.2	927.2	927.2
5°	933.5	930.4	927.2	924.1	924.1	921.0	924.1	921.0	921.0	921.0	921.0
7.5°	924.1	924.1	917.9	917.9	914.8	914.8	911.7	911.7	911.7	908.6	908.6
10°	924.1	921.0	917.9	911.7	908.6	908.6	908.6	905.5	908.6	908.6	908.6
12.5°	924.1	924.1	914.8	908.6	902.4	902.4	902.4	902.4	908.6	911.7	911.7
15°	930.4	927.2	917.9	905.5	899.2	899.2	899.2	902.4	908.6	914.8	914.8
17.5°	933.5	927.2	914.8	902.4	899.2	899.2	899.2	902.4	911.7	917.9	921.0
20°	936.6	933.5	917.9	905.5	902.4	902.4	902.4	902.4	911.7	921.0	924.1
22.5°	945.9	942.8	927.2	917.9	914.8	917.9	914.8	914.8	924.1	936.6	936.6
25°	958.4	952.1	936.6	930.4	930.4	936.6	936.6	930.4	939.7	949.0	952.1
27.5°	980.1	973.9	958.4	952.1	949.0	949.0	949.0	949.0	955.3	970.8	970.8
30°	998.8	995.7	989.5	989.5	986.4	980.1	980.1	986.4	989.5	995.7	998.8
32.5°	1023.7	1017.5	1011.3	1011.3	1029.9	1048.6	1033.0	1008.1	1005.0	1008.1	1011.3
35°	1076.6	1070.4	1054.8	1045.5	1064.2	1082.8	1057.9	1042.4	1051.7	1061.0	1061.0
37.5°	1151.3	1148.2	1135.7	1117.1	1110.8	1113.9	1104.6	1117.1	1141.9	1160.6	1163.7
40°	1229.1	1226.0	1213.5	1204.2	1207.3	1222.8	1216.6	1204.2	1219.7	1232.2	1232.2
42.5°	1350.4	1338.0	1319.3	1294.4	1297.5	1310.0	1294.4	1306.9	1328.6	1350.4	1353.5
45°	1512.2	1499.8	1474.9	1453.1	1437.5	1443.8	1443.8	1465.5	1490.4	1515.3	1524.7
47.5°	1686.5	1683.4	1658.5	1639.8	1624.2	1633.6	1633.6	1633.6	1674.0	1698.9	1698.9
50°	1901.2	1891.8	1891.8	1876.3	1870.1	1873.2	1860.7	1873.2	1891.8	1898.1	1888.7
52.5°	2156.3	2147.0	2153.2	2159.4	2175.0	2196.8	2165.7	2162.5	2153.2	2143.9	2140.8
55°	2461.2	2470.6	2495.5	2535.9	2560.8	2604.4	2557.7	2501.7	2476.8	2451.9	2433.2
57.5°	2825.3	2840.9	2878.2	2974.7	3080.5	3120.9	3040.0	2937.3	2850.2	2778.6	2794.2
60°	3301.4	3292.0	3354.3	3485.0	3634.3	3715.2	3587.6	3419.6	3279.6	3245.4	3254.7
62.5°	3808.6	3827.2	3870.8	4045.0	4231.7	4318.9	4163.3	3914.4	3733.9	3640.5	3640.5
65°	4125.9	4138.4	4259.7	4505.5	4714.0	4832.3	4611.3	4250.4	3992.1	3836.6	3827.2
67.5°	4172.6	4185.1	4322.0	4636.2	4978.5	5143.4	4760.7	4290.9	3989.0	3799.2	3793.0
69°	4045.0	4054.4	4197.5	4527.3	4956.7	5196.3	4689.1	4160.2	3849.0	3665.4	3671.6
70°	3861.5	3898.8	4007.7	4343.7	4841.6	5149.6	4558.4	4013.9	3690.3	3544.1	3519.2
72.5°	3027.6	3052.4	3232.9	3649.9	4322.0	4673.6	4004.6	3397.8	3068.0	2915.5	2952.9
75°	1714.5	1708.3	1938.5	2535.9	3332.5	3743.2	3152.0	2445.7	1966.5	1782.9	1807.8
77.5°	653.4	681.4	837.0	1300.6	2094.1	2557.7	2091.0	1306.9	914.8	712.5	678.3
80°	211.6	224.0	295.6	473.0	893.0	1443.8	977.0	504.1	317.4	239.6	224.0
82.5°	84.0	93.3	112.0	158.7	301.8	544.5	329.8	183.6	136.9	112.0	102.7
85°	46.7	43.6	59.1	71.6	102.7	155.6	112.0	87.1	74.7	52.9	49.8
87.5°	15.6	15.6	24.9	24.9	28.0	24.9	28.0	31.1	31.1	18.7	15.6
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)