

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: P573543

Luminaire Tested: **ARCH-S-PA2-90-730-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573543
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-PA2-90-730-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12062 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

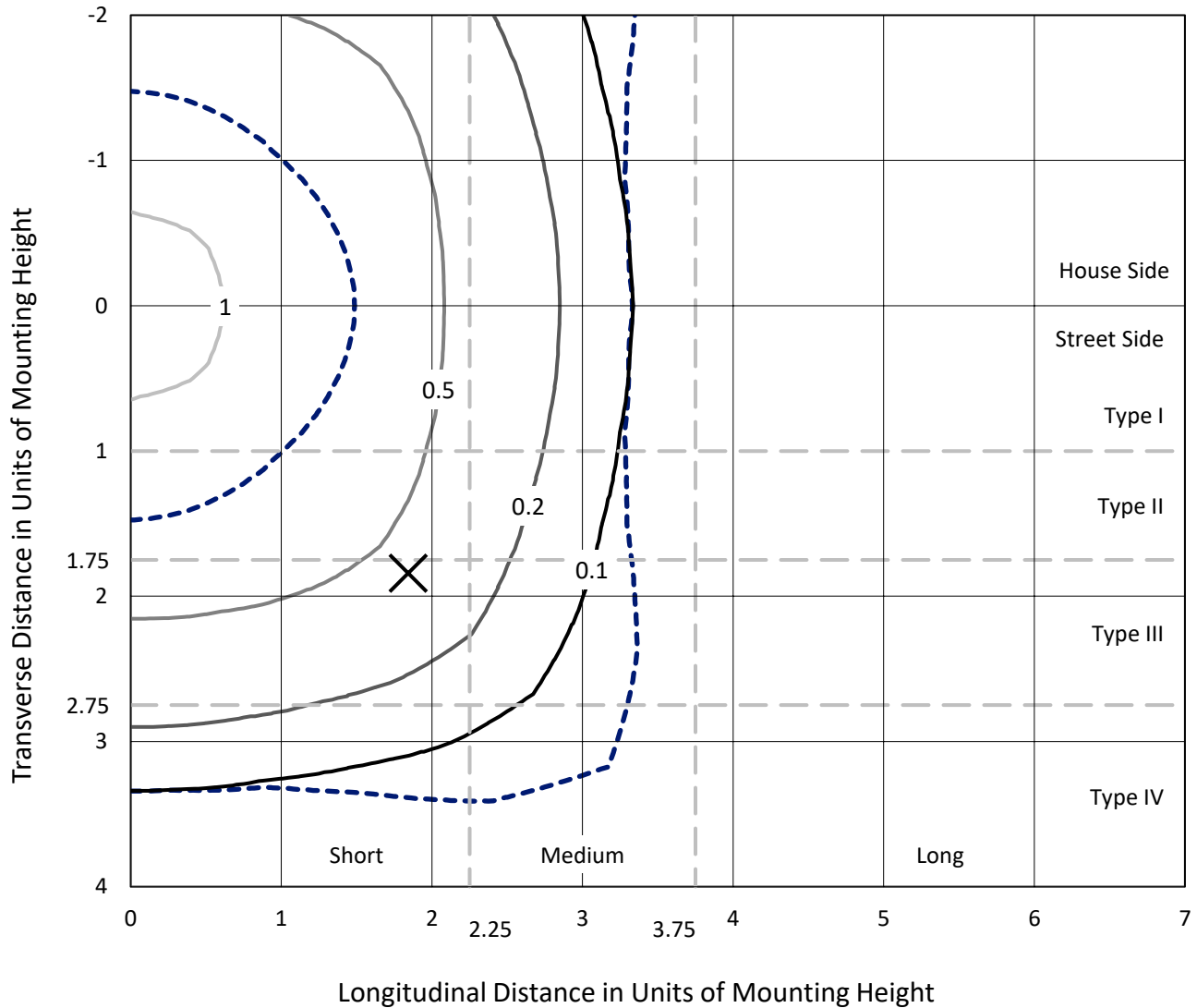
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

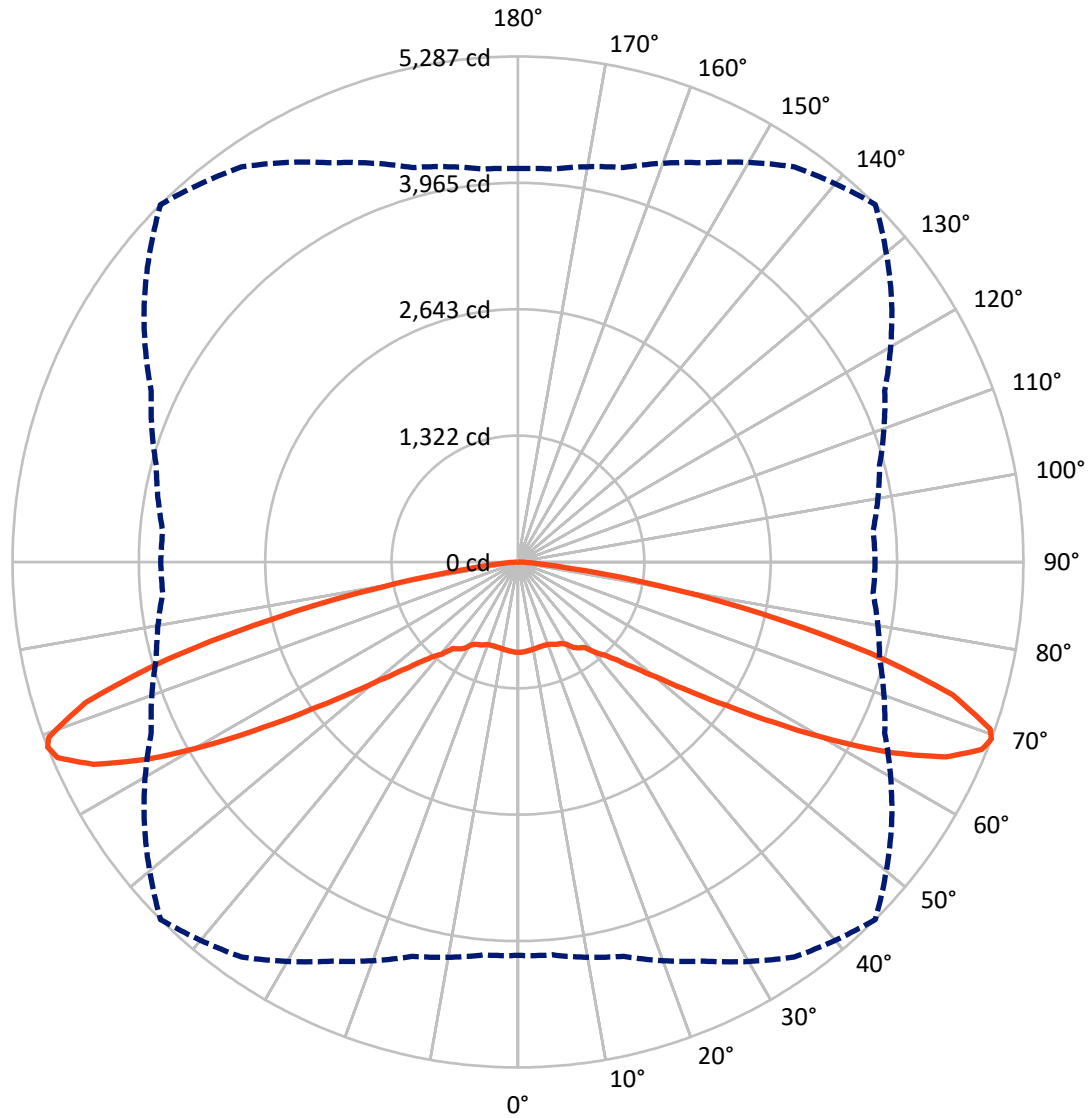
✕ Max cd
 - - - 1/2 Max cd



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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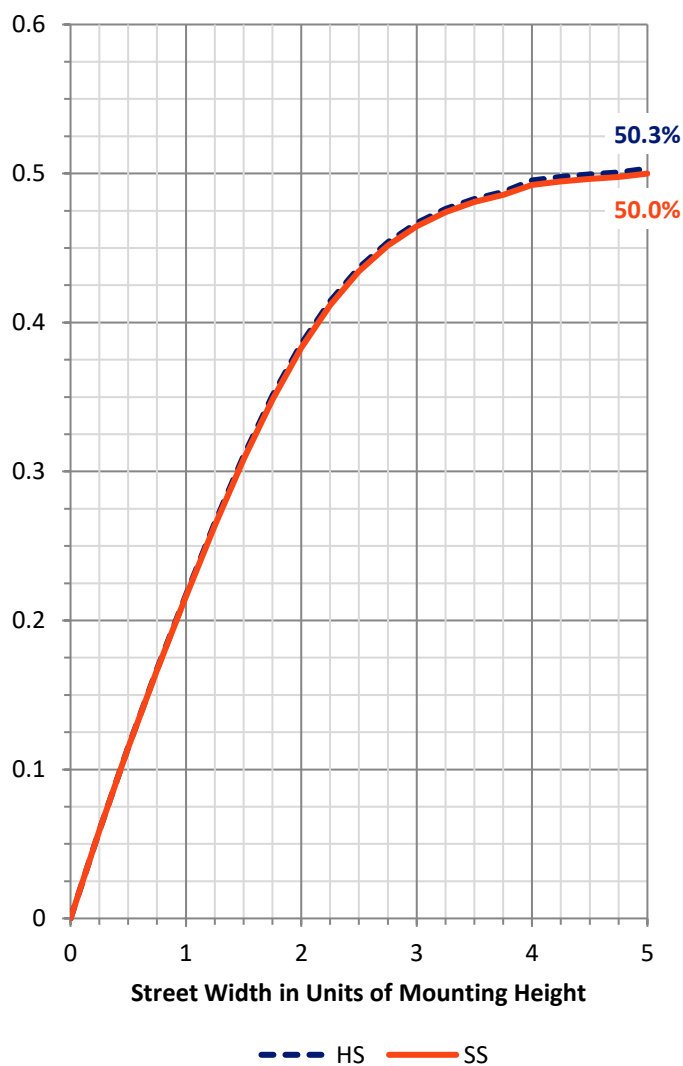
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6031.0	0.0	6031.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6031.0	0.0	6031.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12062.0	0.0	12062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	0.7
10°-20°	262.2	2.2
20°-30°	444.6	3.7
30°-40°	691.2	5.7
40°-50°	1186.6	9.8
50°-60°	2360.9	19.6
60°-70°	4205.6	34.9
70°-80°	2648.7	22.0
80°-90°	173.0	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°	12062.0	100.0
0°-180°	12062.0	100.0

Coefficient of Utilization



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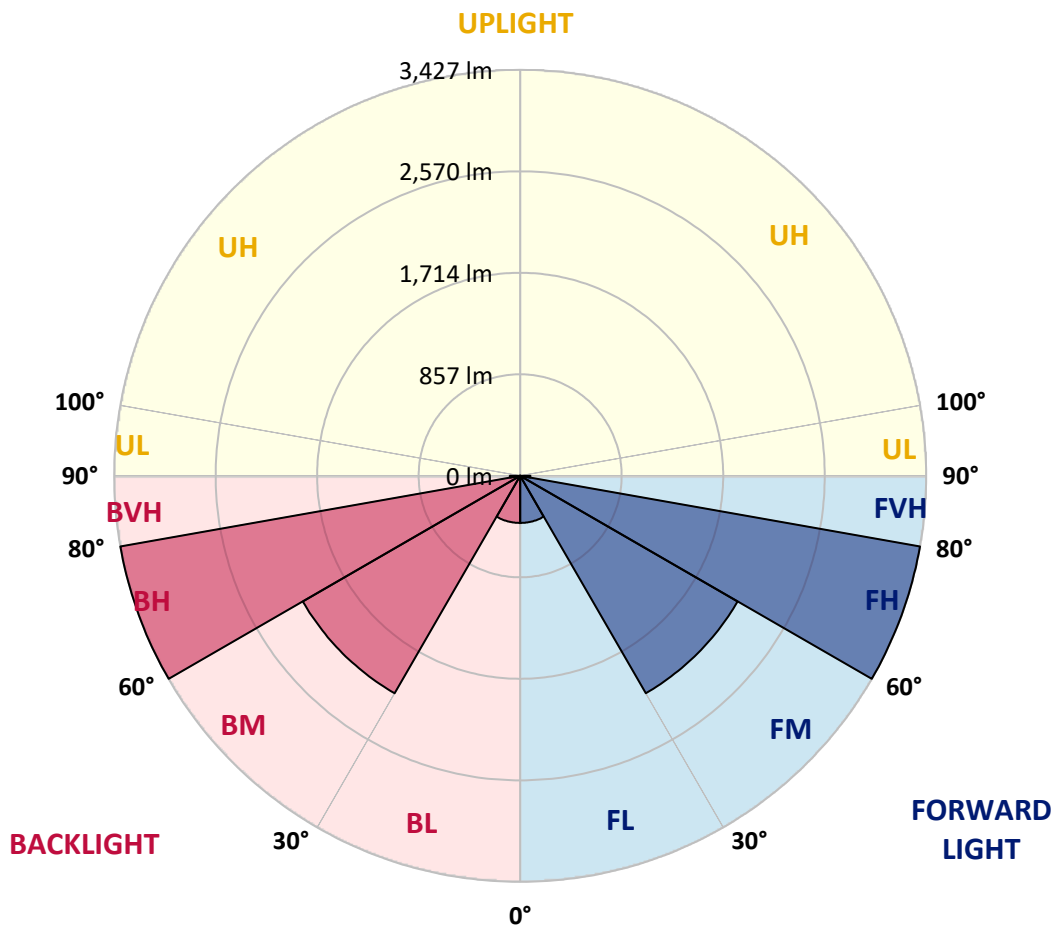
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	398.0	3.3			
FM (30°-60°)	2119.4	17.6			
FH (60°-80°)	3427.1	28.4			G2/5000
FVH (80°-90°)	86.5	0.7			G1/100
BL (0°-30°)	398.0	3.3	B1/500		
BM (30°-60°)	2119.4	17.6	B2/2500		
BH (60°-80°)	3427.1	28.4	B4/5000		G2/5000
BVH (80°-90°)	86.5	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°	946.5	946.5	946.5	946.5	946.5	946.5	946.5	946.5	946.5	946.5	946.5
2.5°	952.9	949.7	949.7	946.5	943.4	943.4	943.4	940.2	943.4	943.4	943.4
5°	949.7	946.5	943.4	940.2	940.2	937.0	940.2	937.0	937.0	937.0	937.0
7.5°	940.2	940.2	933.9	933.9	930.7	930.7	927.5	927.5	927.5	924.4	924.4
10°	940.2	937.0	933.9	927.5	924.4	924.4	924.4	921.2	924.4	924.4	924.4
12.5°	940.2	940.2	930.7	924.4	918.0	918.0	918.0	918.0	924.4	927.5	927.5
15°	946.5	943.4	933.9	921.2	914.9	914.9	914.9	918.0	924.4	930.7	930.7
17.5°	949.7	943.4	930.7	918.0	914.9	914.9	914.9	918.0	927.5	933.9	937.0
20°	952.9	949.7	933.9	921.2	918.0	918.0	918.0	918.0	927.5	937.0	940.2
22.5°	962.4	959.2	943.4	933.9	930.7	933.9	930.7	930.7	940.2	952.9	952.9
25°	975.0	968.7	952.9	946.5	946.5	952.9	952.9	946.5	956.0	965.5	968.7
27.5°	997.2	990.8	975.0	968.7	965.5	965.5	965.5	965.5	971.8	987.7	987.7
30°	1016.2	1013.0	1006.7	1006.7	1003.5	997.2	997.2	1003.5	1006.7	1013.0	1016.2
32.5°	1041.5	1035.2	1028.8	1028.8	1047.8	1066.8	1051.0	1025.7	1022.5	1025.7	1028.8
35°	1095.3	1089.0	1073.1	1063.7	1082.6	1101.6	1076.3	1060.5	1070.0	1079.5	1079.5
37.5°	1171.3	1168.1	1155.5	1136.5	1130.1	1133.3	1123.8	1136.5	1161.8	1180.8	1183.9
40°	1250.4	1247.3	1234.6	1225.1	1228.3	1244.1	1237.8	1225.1	1240.9	1253.6	1253.6
42.5°	1373.9	1361.2	1342.2	1316.9	1320.1	1332.7	1316.9	1329.6	1351.7	1373.9	1377.0
45°	1538.5	1525.8	1500.5	1478.3	1462.5	1468.9	1468.9	1491.0	1516.3	1541.7	1551.2
47.5°	1715.8	1712.6	1687.3	1668.3	1652.5	1662.0	1662.0	1662.0	1703.1	1728.4	1728.4
50°	1934.2	1924.7	1924.7	1908.9	1902.5	1905.7	1893.0	1905.7	1924.7	1931.0	1921.5
52.5°	2193.8	2184.3	2190.6	2196.9	2212.8	2234.9	2203.3	2200.1	2190.6	2181.1	2178.0
55°	2504.0	2513.5	2538.8	2580.0	2605.3	2649.6	2602.1	2545.2	2519.8	2494.5	2475.5
57.5°	2874.4	2890.2	2928.2	3026.3	3134.0	3175.1	3092.8	2988.4	2899.7	2826.9	2842.7
60°	3358.7	3349.2	3412.6	3545.5	3697.5	3779.8	3650.0	3479.0	3336.6	3301.8	3311.3
62.5°	3874.7	3893.7	3938.0	4115.3	4305.3	4393.9	4235.6	3982.4	3798.8	3703.8	3703.8
65°	4197.6	4210.3	4333.7	4583.8	4795.9	4916.2	4691.5	4324.3	4061.5	3903.2	3893.7
67.5°	4245.1	4257.8	4397.1	4716.8	5065.0	5232.8	4843.4	4365.4	4058.3	3865.2	3858.9
69°	4115.3	4124.8	4270.4	4606.0	5042.9	5286.6	4770.6	4232.4	3915.9	3729.1	3735.4
70°	3928.5	3966.5	4077.3	4419.2	4925.7	5239.1	4637.7	4083.7	3754.4	3605.7	3580.3
72.5°	3080.2	3105.5	3289.1	3713.3	4397.1	4754.8	4074.2	3456.9	3121.3	2966.2	3004.2
75°	1744.3	1737.9	1972.2	2580.0	3390.4	3808.3	3206.8	2488.2	2000.7	1813.9	1839.2
77.5°	664.8	693.3	851.6	1323.2	2130.5	2602.1	2127.3	1329.6	930.7	724.9	690.1
80°	215.3	227.9	300.7	481.2	908.5	1468.9	994.0	512.8	322.9	243.8	227.9
82.5°	85.5	95.0	114.0	161.4	307.1	554.0	335.6	186.8	139.3	114.0	104.5
85°	47.5	44.3	60.1	72.8	104.5	158.3	114.0	88.6	76.0	53.8	50.7
87.5°	15.8	15.8	25.3	25.3	28.5	25.3	28.5	31.7	31.7	19.0	15.8
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)