

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: P573129

Luminaire Tested: **ARCH-S-PA2-40-727-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573129
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-PA2-40-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 420mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5781 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

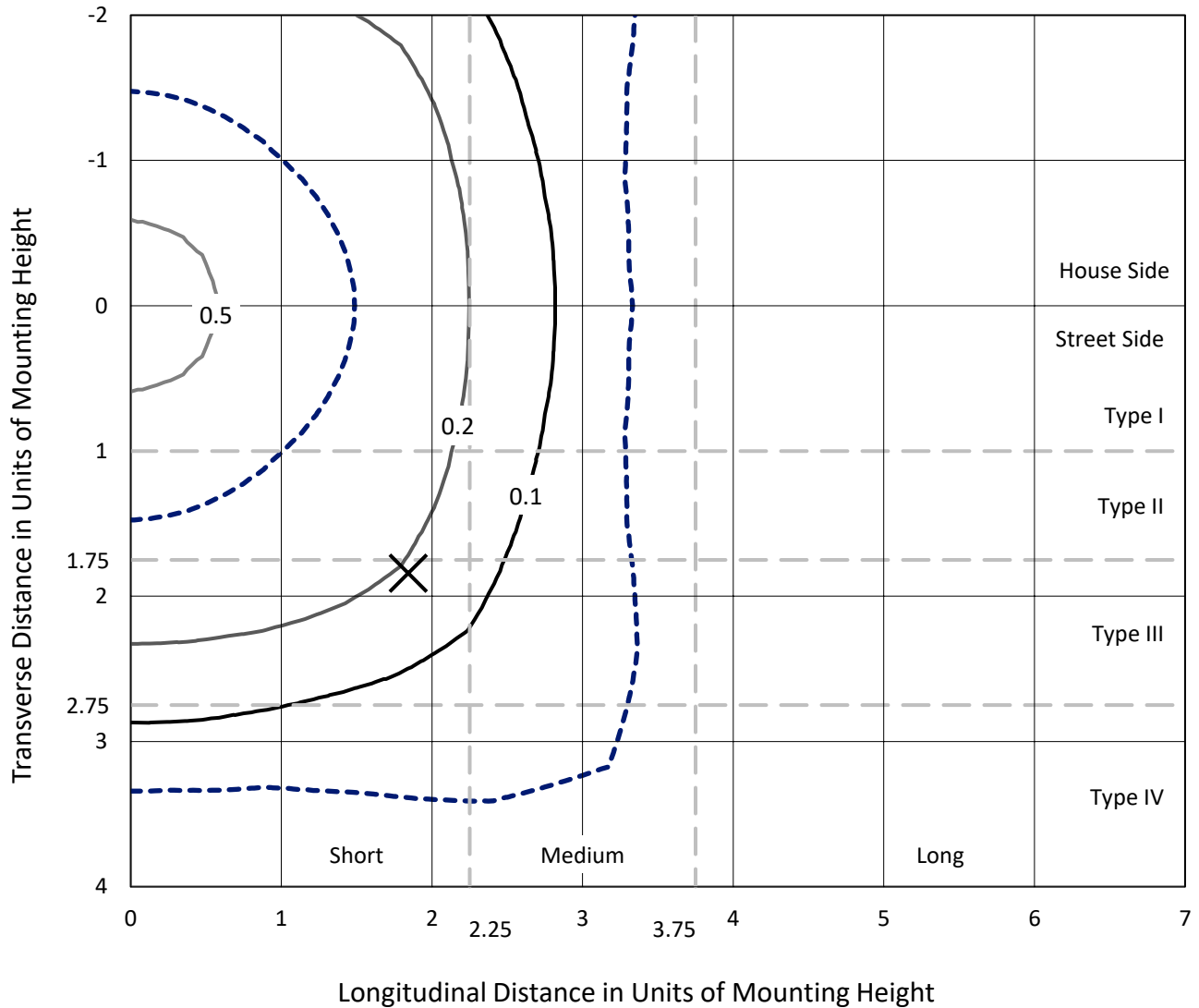
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

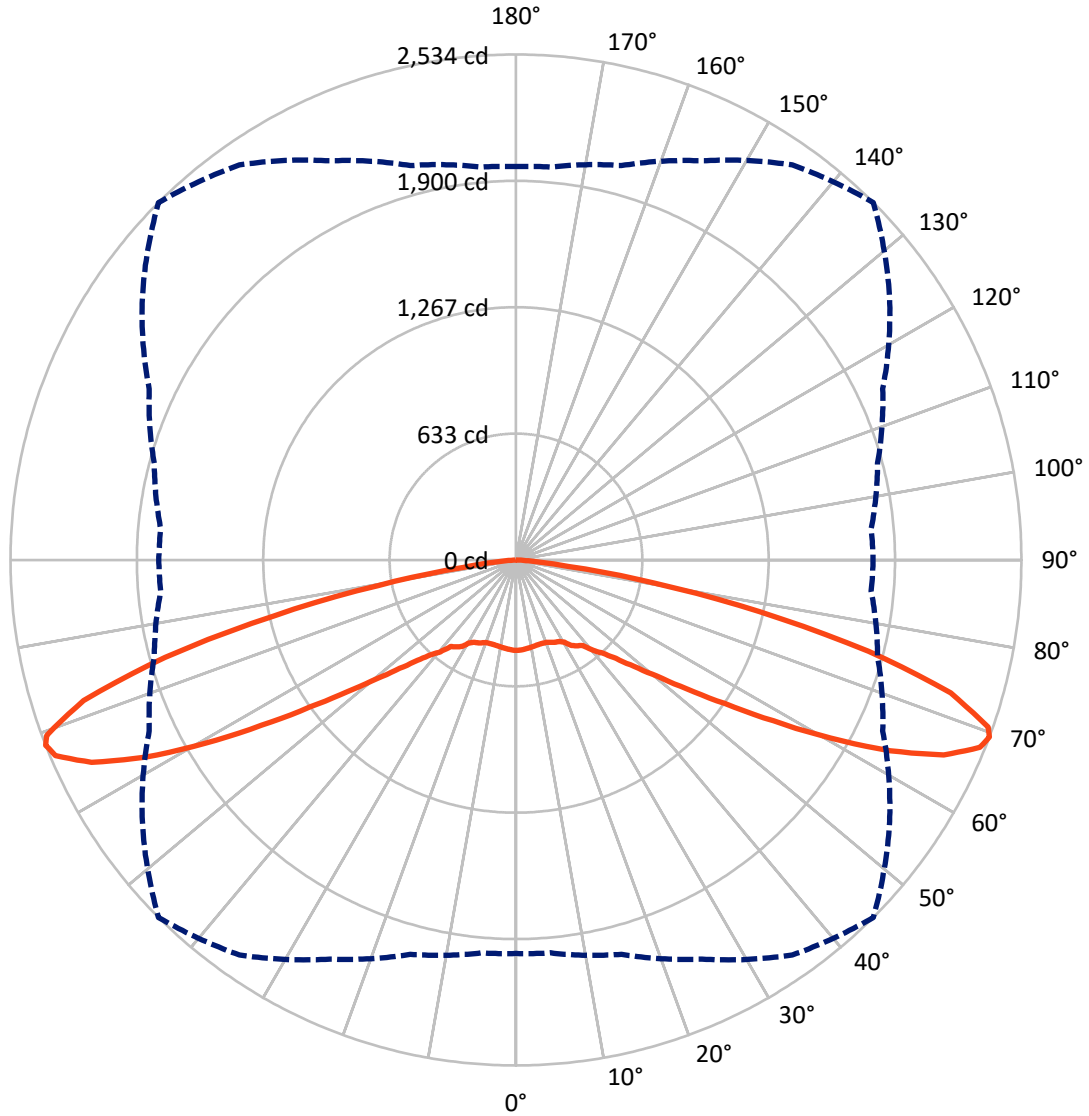
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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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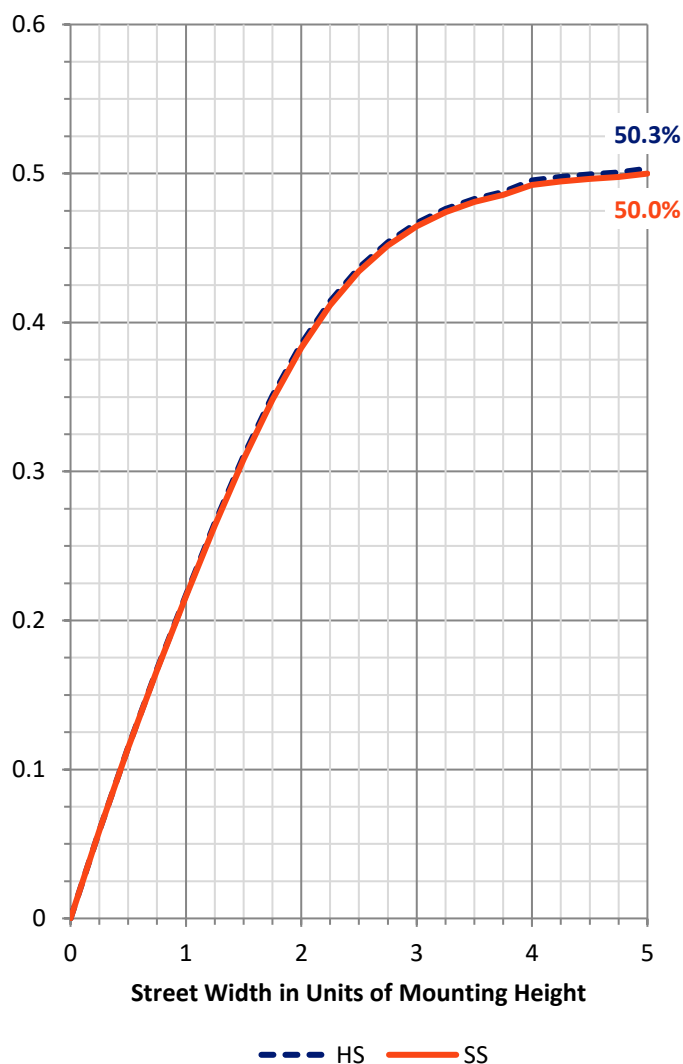
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2890.5	0.0	2890.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2890.5	0.0	2890.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5781.0	0.0	5781.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.7	0.7
10°-20°	125.7	2.2
20°-30°	213.1	3.7
30°-40°	331.3	5.7
40°-50°	568.7	9.8
50°-60°	1131.5	19.6
60°-70°	2015.6	34.9
70°-80°	1269.4	22.0
80°-90°	82.9	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°	5781.0	100.0
0°-180°	5781.0	100.0

Coefficient of Utilization

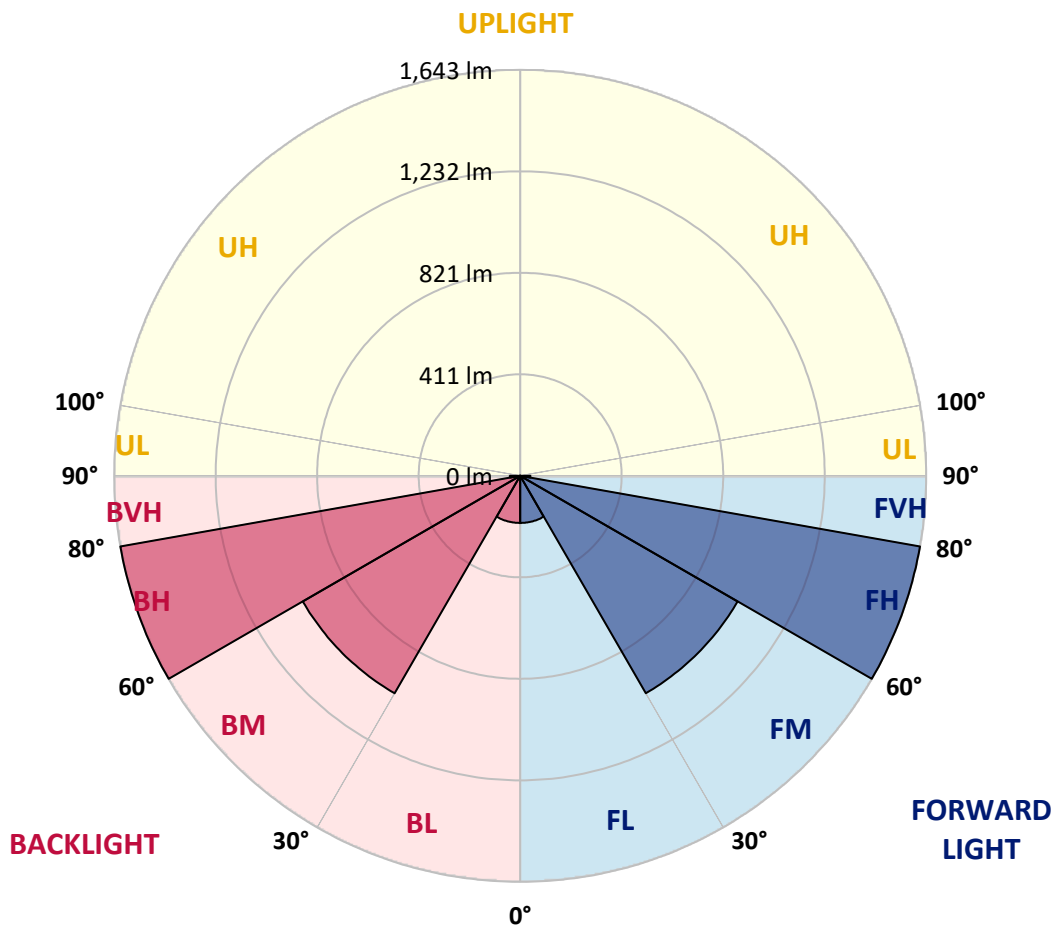


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	190.7	3.3			
FM (30°-60°)	1015.8	17.6			
FH (60°-80°)	1642.5	28.4			G1/1800
FVH (80°-90°)	41.5	0.7			G1/100
BL (0°-30°)	190.7	3.3	B1/500		
BM (30°-60°)	1015.8	17.6	B2/2500		
BH (60°-80°)	1642.5	28.4	B3/2500		G1/1800
BVH (80°-90°)	41.5	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6
2.5°	456.7	455.2	455.2	453.6	452.1	452.1	452.1	450.6	452.1	452.1	452.1
5°	455.2	453.6	452.1	450.6	450.6	449.1	450.6	449.1	449.1	449.1	449.1
7.5°	450.6	450.6	447.6	447.6	446.1	446.1	444.5	444.5	444.5	443.0	443.0
10°	450.6	449.1	447.6	444.5	443.0	443.0	443.0	441.5	443.0	443.0	443.0
12.5°	450.6	450.6	446.1	443.0	440.0	440.0	440.0	440.0	443.0	444.5	444.5
15°	453.6	452.1	447.6	441.5	438.5	438.5	438.5	440.0	443.0	446.1	446.1
17.5°	455.2	452.1	446.1	440.0	438.5	438.5	438.5	440.0	444.5	447.6	449.1
20°	456.7	455.2	447.6	441.5	440.0	440.0	440.0	440.0	444.5	449.1	450.6
22.5°	461.2	459.7	452.1	447.6	446.1	447.6	446.1	446.1	450.6	456.7	456.7
25°	467.3	464.3	456.7	453.6	453.6	456.7	456.7	453.6	458.2	462.7	464.3
27.5°	477.9	474.9	467.3	464.3	462.7	462.7	462.7	462.7	465.8	473.4	473.4
30°	487.0	485.5	482.5	482.5	481.0	477.9	477.9	481.0	482.5	485.5	487.0
32.5°	499.2	496.1	493.1	493.1	502.2	511.3	503.7	491.6	490.1	491.6	493.1
35°	525.0	521.9	514.3	509.8	518.9	528.0	515.8	508.3	512.8	517.4	517.4
37.5°	561.4	559.8	553.8	544.7	541.6	543.2	538.6	544.7	556.8	565.9	567.4
40°	599.3	597.8	591.7	587.2	588.7	596.3	593.2	587.2	594.7	600.8	600.8
42.5°	658.5	652.4	643.3	631.2	632.7	638.7	631.2	637.2	647.8	658.5	660.0
45°	737.4	731.3	719.2	708.5	700.9	704.0	704.0	714.6	726.7	738.9	743.4
47.5°	822.3	820.8	808.7	799.6	792.0	796.5	796.5	796.5	816.3	828.4	828.4
50°	927.0	922.5	922.5	914.9	911.8	913.4	907.3	913.4	922.5	925.5	920.9
52.5°	1051.4	1046.9	1049.9	1052.9	1060.5	1071.1	1056.0	1054.5	1049.9	1045.4	1043.8
55°	1200.1	1204.7	1216.8	1236.5	1248.7	1269.9	1247.1	1219.8	1207.7	1195.6	1186.5
57.5°	1377.6	1385.2	1403.4	1450.4	1502.0	1521.8	1482.3	1432.2	1389.8	1354.9	1362.4
60°	1609.8	1605.2	1635.5	1699.3	1772.1	1811.5	1749.3	1667.4	1599.1	1582.4	1587.0
62.5°	1857.1	1866.2	1887.4	1972.4	2063.4	2105.9	2030.0	1908.6	1820.6	1775.1	1775.1
65°	2011.8	2017.9	2077.1	2196.9	2298.6	2356.2	2248.5	2072.5	1946.6	1870.7	1866.2
67.5°	2034.6	2040.6	2107.4	2260.6	2427.5	2507.9	2321.3	2092.2	1945.1	1852.5	1849.5
69°	1972.4	1976.9	2046.7	2207.5	2416.9	2533.7	2286.4	2028.5	1876.8	1787.3	1790.3
70°	1882.9	1901.1	1954.2	2118.0	2360.8	2511.0	2222.7	1957.2	1799.4	1728.1	1716.0
72.5°	1476.2	1488.4	1576.4	1779.7	2107.4	2278.8	1952.6	1656.8	1496.0	1421.6	1439.8
75°	836.0	832.9	945.2	1236.5	1624.9	1825.2	1536.9	1192.5	958.9	869.4	881.5
77.5°	318.6	332.3	408.1	634.2	1021.1	1247.1	1019.6	637.2	446.1	347.4	330.8
80°	103.2	109.2	144.1	230.6	435.4	704.0	476.4	245.8	154.8	116.8	109.2
82.5°	41.0	45.5	54.6	77.4	147.2	265.5	160.8	89.5	66.8	54.6	50.1
85°	22.8	21.2	28.8	34.9	50.1	75.9	54.6	42.5	36.4	25.8	24.3
87.5°	7.6	7.6	12.1	12.1	13.7	12.1	13.7	15.2	15.2	9.1	7.6
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)