

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: P573048

Luminaire Tested: **ARCH-S-PA2-30-727-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573048
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-PA2-30-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 320mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4527 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

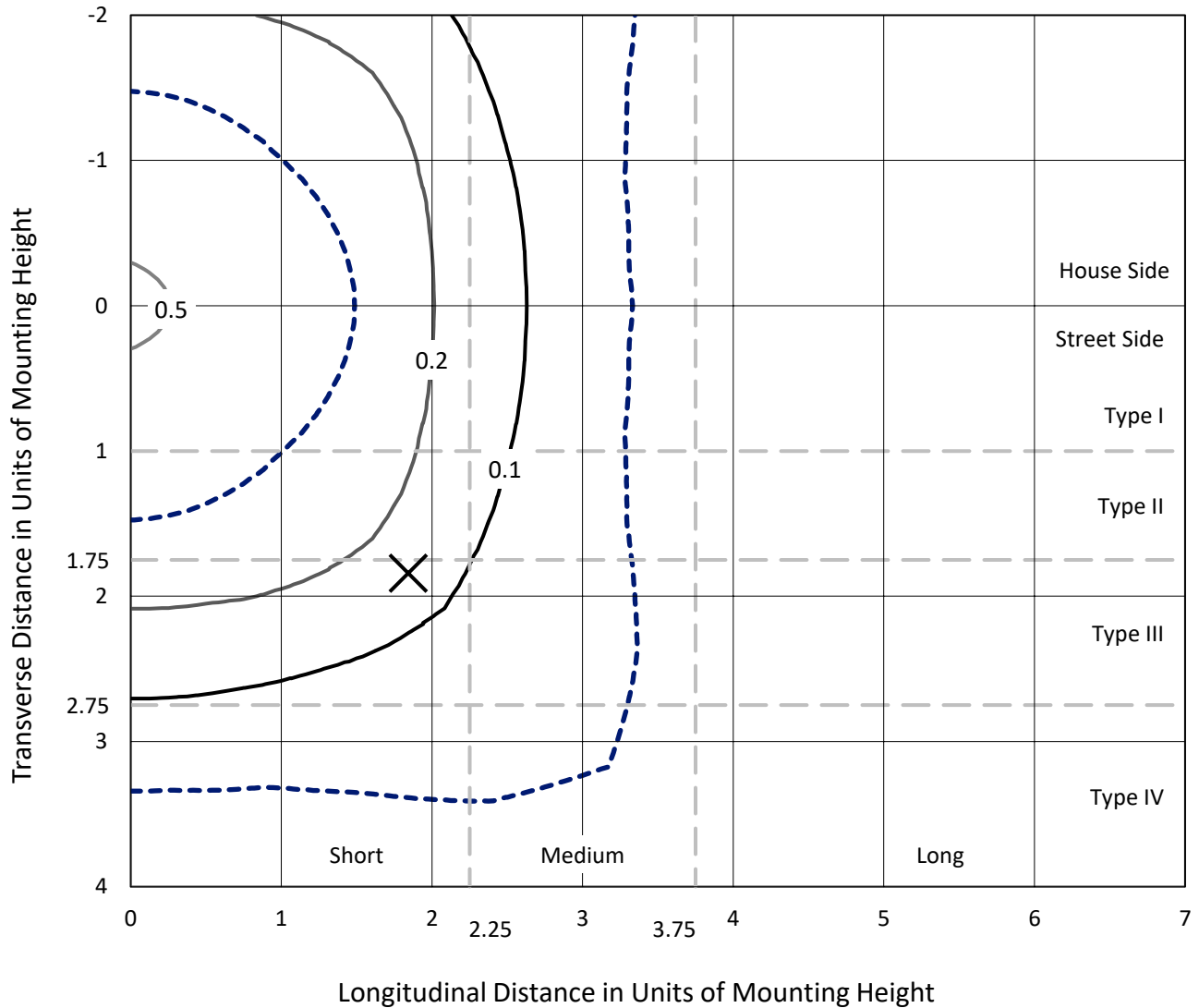
Input Watts (W): 33.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

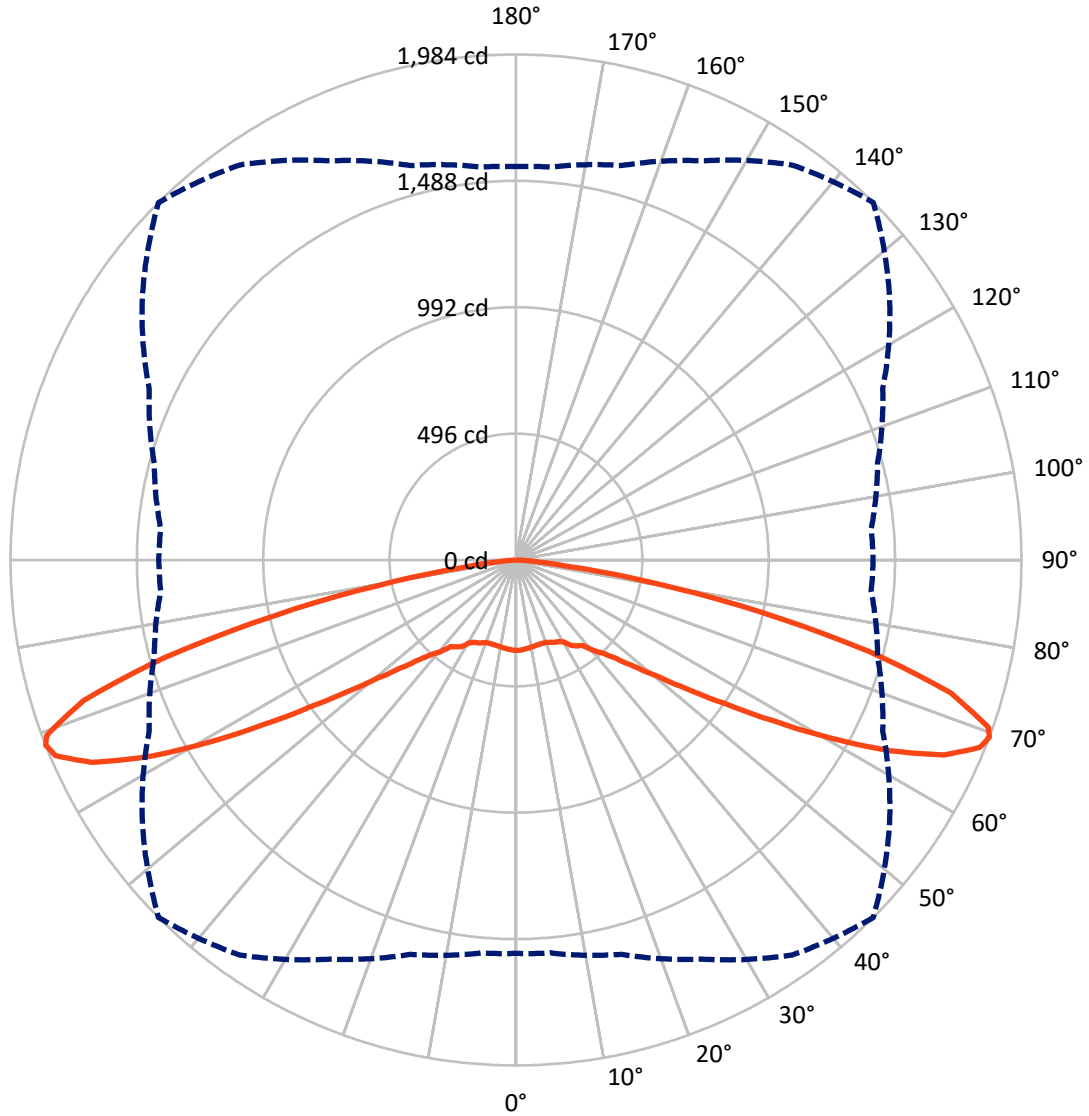
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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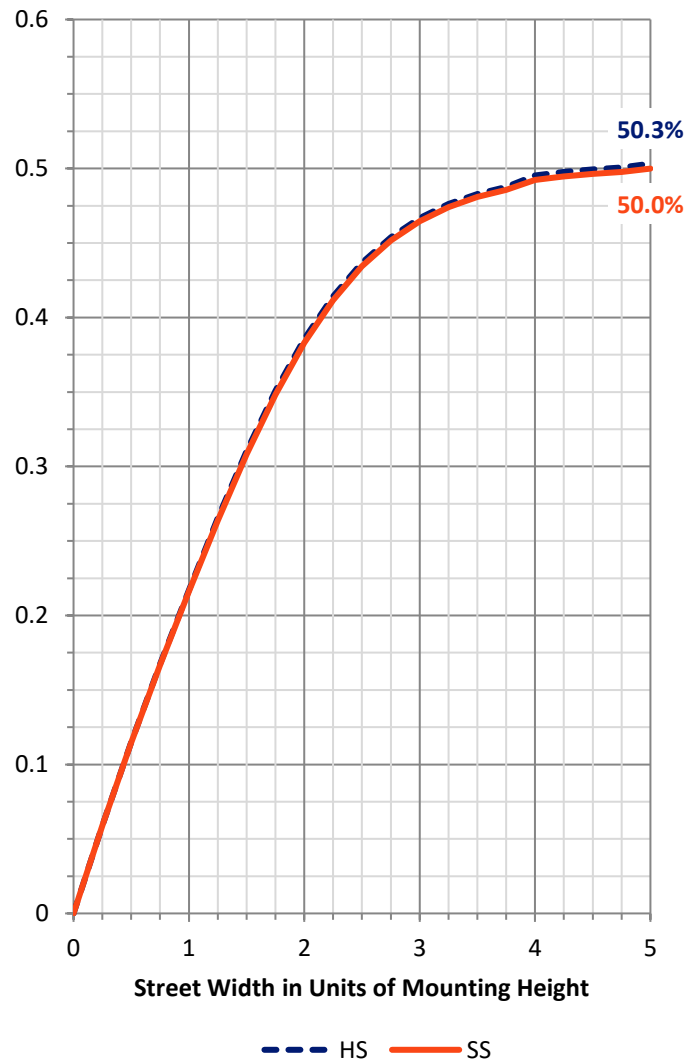
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2263.5	0.0	2263.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2263.5	0.0	2263.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4527.0	0.0	4527.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	0.7
10°-20°	98.4	2.2
20°-30°	166.9	3.7
30°-40°	259.4	5.7
40°-50°	445.4	9.8
50°-60°	886.1	19.6
60°-70°	1578.4	34.9
70°-80°	994.1	22.0
80°-90°	64.9	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°	4527.0	100.0
0°-180°	4527.0	100.0



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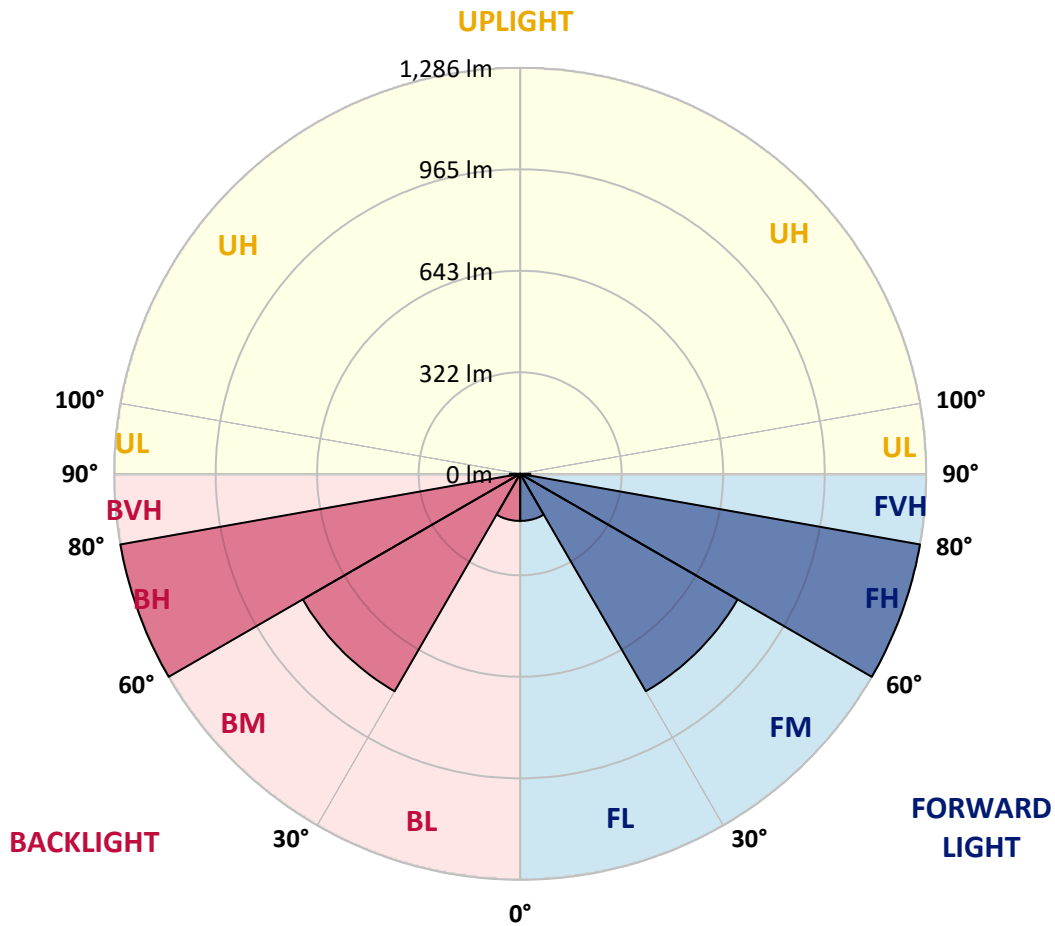
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	149.4	3.3			
FM (30°-60°)	795.4	17.6			
FH (60°-80°)	1286.2	28.4			G1/1800
FVH (80°-90°)	32.5	0.7			G1/100
BL (0°-30°)	149.4	3.3	B1/500		
BM (30°-60°)	795.4	17.6	B1/1000		
BH (60°-80°)	1286.2	28.4	B3/2500		G1/1800
BVH (80°-90°)	32.5	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°	355.2	355.2	355.2	355.2	355.2	355.2	355.2	355.2	355.2	355.2	355.2
2.5°	357.6	356.4	356.4	355.2	354.1	354.1	354.1	352.9	354.1	354.1	354.1
5°	356.4	355.2	354.1	352.9	352.9	351.7	352.9	351.7	351.7	351.7	351.7
7.5°	352.9	352.9	350.5	350.5	349.3	349.3	348.1	348.1	348.1	346.9	346.9
10°	352.9	351.7	350.5	348.1	346.9	346.9	346.9	345.7	346.9	346.9	346.9
12.5°	352.9	352.9	349.3	346.9	344.5	344.5	344.5	344.5	346.9	348.1	348.1
15°	355.2	354.1	350.5	345.7	343.4	343.4	343.4	344.5	346.9	349.3	349.3
17.5°	356.4	354.1	349.3	344.5	343.4	343.4	343.4	344.5	348.1	350.5	351.7
20°	357.6	356.4	350.5	345.7	344.5	344.5	344.5	344.5	348.1	351.7	352.9
22.5°	361.2	360.0	354.1	350.5	349.3	350.5	349.3	349.3	352.9	357.6	357.6
25°	365.9	363.6	357.6	355.2	355.2	357.6	357.6	355.2	358.8	362.4	363.6
27.5°	374.3	371.9	365.9	363.6	362.4	362.4	362.4	362.4	364.7	370.7	370.7
30°	381.4	380.2	377.8	377.8	376.6	374.3	374.3	376.6	377.8	380.2	381.4
32.5°	390.9	388.5	386.1	386.1	393.3	400.4	394.4	384.9	383.8	384.9	386.1
35°	411.1	408.7	402.8	399.2	406.3	413.5	404.0	398.0	401.6	405.1	405.1
37.5°	439.6	438.4	433.7	426.5	424.2	425.3	421.8	426.5	436.0	443.2	444.3
40°	469.3	468.1	463.4	459.8	461.0	466.9	464.5	459.8	465.7	470.5	470.5
42.5°	515.6	510.9	503.8	494.2	495.4	500.2	494.2	499.0	507.3	515.6	516.8
45°	577.4	572.7	563.2	554.8	548.9	551.3	551.3	559.6	569.1	578.6	582.2
47.5°	643.9	642.8	633.3	626.1	620.2	623.8	623.8	623.8	639.2	648.7	648.7
50°	725.9	722.4	722.4	716.4	714.0	715.2	710.5	715.2	722.4	724.7	721.2
52.5°	823.4	819.8	822.2	824.5	830.5	838.8	826.9	825.7	822.2	818.6	817.4
55°	939.8	943.3	952.9	968.3	977.8	994.4	976.6	955.2	945.7	936.2	929.1
57.5°	1078.8	1084.7	1099.0	1135.8	1176.2	1191.7	1160.8	1121.6	1088.3	1061.0	1066.9
60°	1260.6	1257.0	1280.8	1330.7	1387.7	1418.6	1369.9	1305.7	1252.3	1239.2	1242.7
62.5°	1454.2	1461.4	1478.0	1544.5	1615.8	1649.1	1589.7	1494.6	1425.7	1390.1	1390.1
65°	1575.4	1580.2	1626.5	1720.4	1800.0	1845.1	1760.8	1622.9	1524.3	1464.9	1461.4
67.5°	1593.2	1598.0	1650.3	1770.3	1901.0	1963.9	1817.8	1638.4	1523.1	1450.7	1448.3
69°	1544.5	1548.1	1602.7	1728.7	1892.6	1984.1	1790.5	1588.5	1469.7	1399.6	1402.0
70°	1474.4	1488.7	1530.3	1658.6	1848.7	1966.3	1740.6	1532.6	1409.1	1353.2	1343.7
72.5°	1156.0	1165.5	1234.4	1393.6	1650.3	1784.5	1529.1	1297.4	1171.5	1113.2	1127.5
75°	654.6	652.3	740.2	968.3	1272.5	1429.3	1203.5	933.8	750.9	680.8	690.3
77.5°	249.5	260.2	319.6	496.6	799.6	976.6	798.4	499.0	349.3	272.1	259.0
80°	80.8	85.5	112.9	180.6	341.0	551.3	373.1	192.5	121.2	91.5	85.5
82.5°	32.1	35.6	42.8	60.6	115.2	207.9	125.9	70.1	52.3	42.8	39.2
85°	17.8	16.6	22.6	27.3	39.2	59.4	42.8	33.3	28.5	20.2	19.0
87.5°	5.9	5.9	9.5	9.5	10.7	9.5	10.7	11.9	11.9	7.1	5.9
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)