

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: P573350

Luminaire Tested: **ARCH-S-PA2-60-827-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-60-827-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

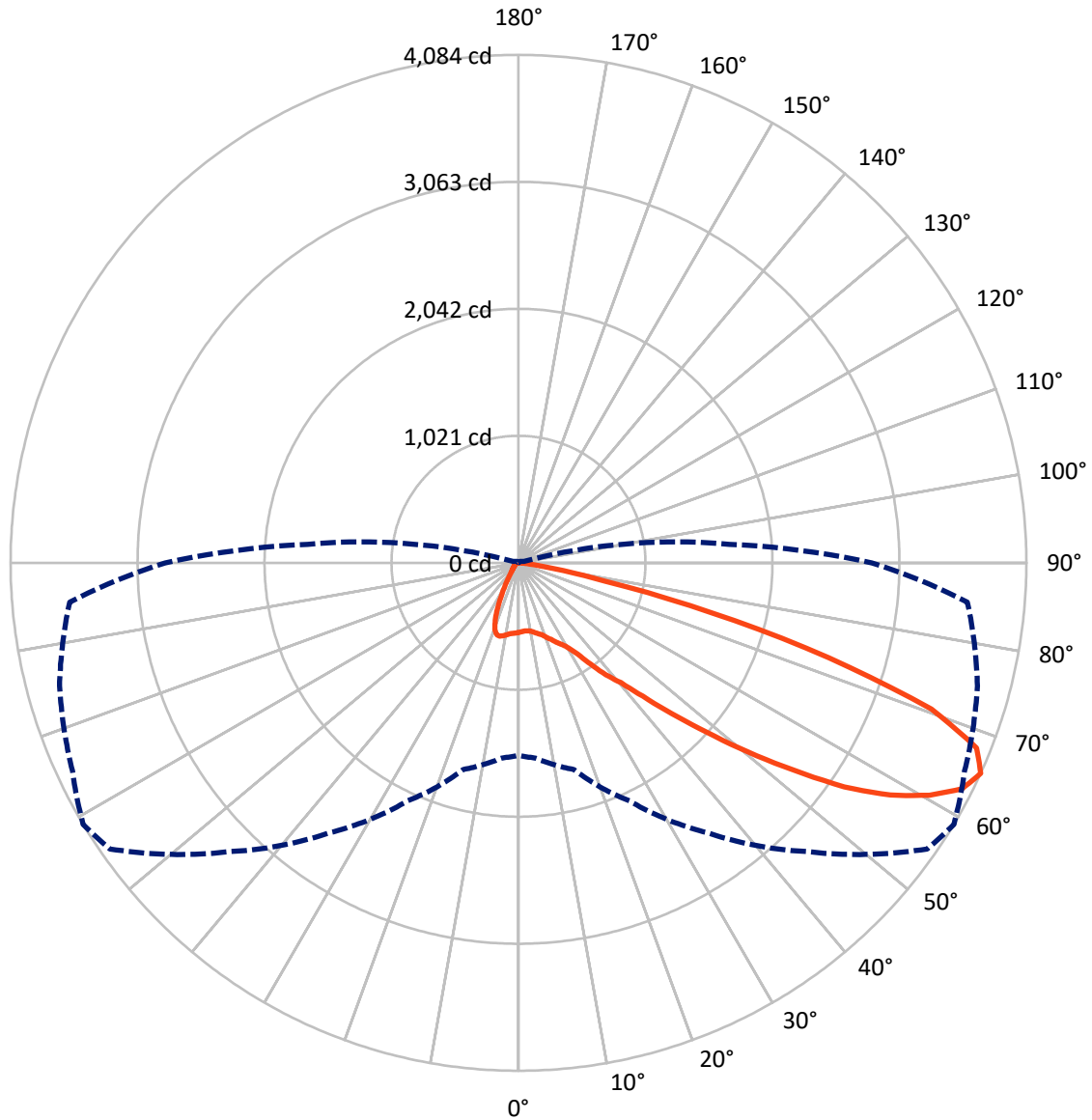
Lumens per Lamp: N/A
Luminaire Lumens: 5175 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.1
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



REPORT NUMBER: P573350
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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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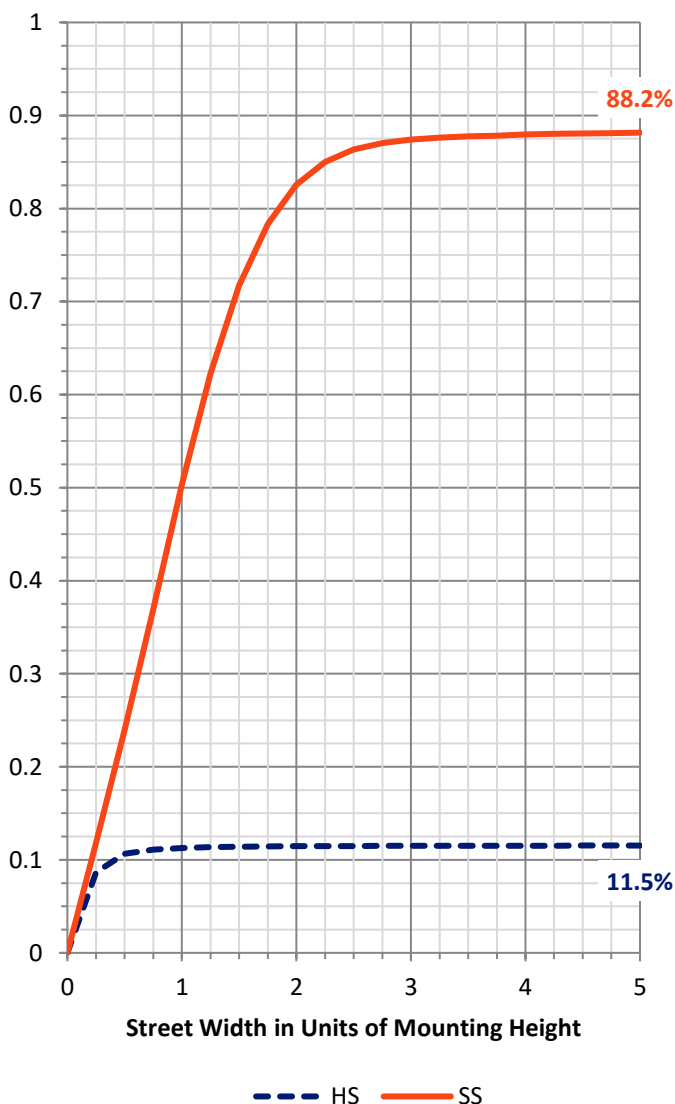
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	603.7	0.0	603.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	4571.3	0.0	4571.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	5175.0	0.0	5175.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.0
10°-20°	150.1	2.9
20°-30°	255.0	4.9
30°-40°	451.7	8.7
40°-50°	852.0	16.5
50°-60°	1441.6	27.9
60°-70°	1498.8	29.0
70°-80°	449.4	8.7
80°-90°	23.6	0.5
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°	5175.0	100.0
0°-180°	5175.0	100.0

Coefficient of Utilization

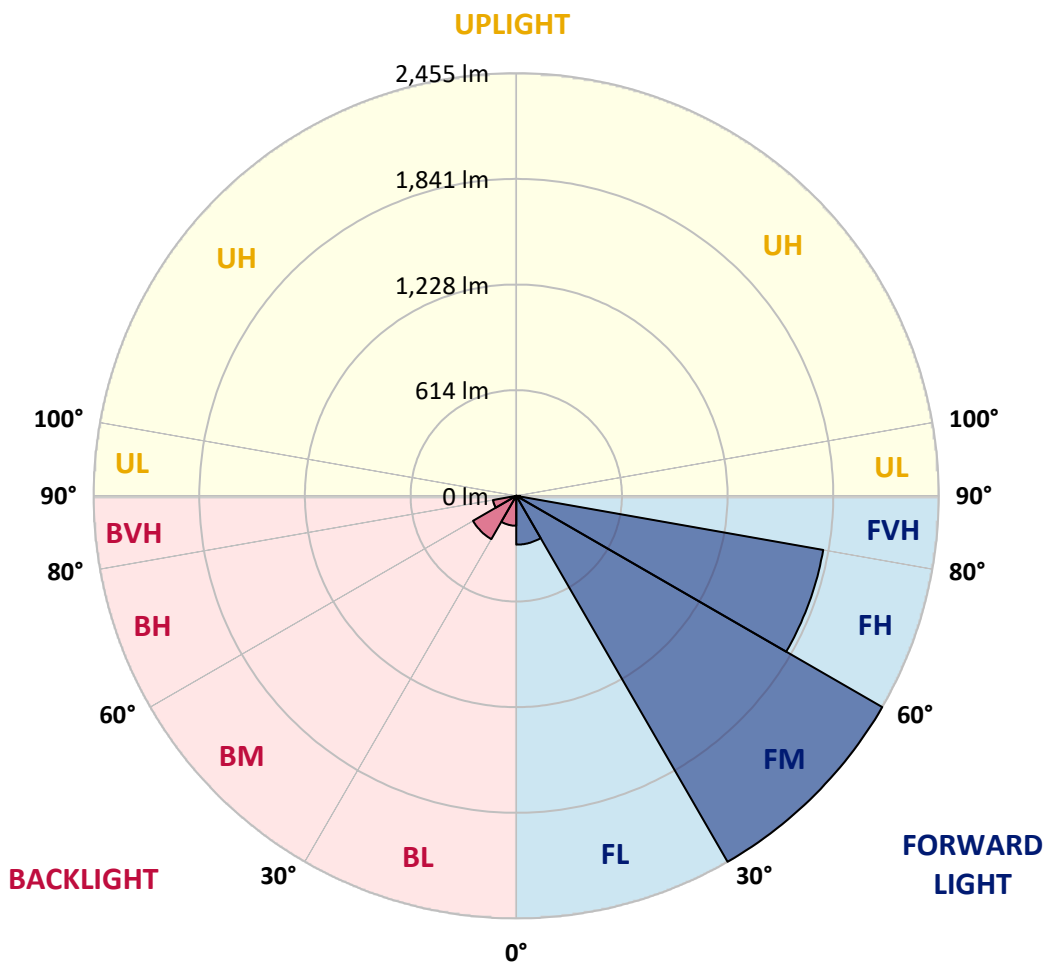


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 CATALOG NUMBER: ARCH-S-PA2-60-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.8	5.5			
FM (30°-60°)	2455.0	47.4			
FH (60°-80°)	1810.9	35.0			G2/5000
FVH (80°-90°)	21.6	0.4			G1/100
BL (0°-30°)	174.2	3.4	B1/500		
BM (30°-60°)	290.2	5.6	B1/1000		
BH (60°-80°)	137.4	2.7	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





REPORT NUMBER: P573350

CATALOG NUMBER: ARCH-S-PA2-60-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2
2.5°	544.1	542.3	542.3	546.0	547.9	549.8	553.6	553.6	553.6	557.3	559.2
5°	517.8	517.8	519.7	523.4	531.0	536.6	547.9	549.8	551.7	561.1	564.9
7.5°	500.8	500.8	502.7	510.3	519.7	532.9	547.9	551.7	557.3	570.5	579.9
10°	499.0	497.1	500.8	508.4	519.7	536.6	553.6	559.2	570.5	587.5	600.6
12.5°	504.6	502.7	506.5	514.0	525.3	542.3	564.9	574.3	587.5	610.0	628.9
15°	508.4	506.5	510.3	519.7	532.9	553.6	579.9	591.2	608.2	640.2	659.0
17.5°	519.7	517.8	519.7	527.2	540.4	563.0	596.9	608.2	636.4	672.2	692.9
20°	570.5	568.6	557.3	553.6	555.4	576.2	619.5	638.3	672.2	717.4	732.4
22.5°	675.9	668.4	647.7	613.8	591.2	598.8	647.7	668.4	713.6	764.4	775.7
25°	817.2	811.5	781.4	723.0	659.0	640.2	679.7	708.0	762.6	819.0	815.3
27.5°	977.2	965.9	937.7	856.7	770.1	708.0	719.3	743.7	804.0	864.2	845.4
30°	1116.5	1112.8	1080.8	1013.0	911.3	819.0	779.5	792.7	847.3	911.3	888.7
32.5°	1244.6	1233.3	1206.9	1142.9	1048.8	954.6	875.5	875.5	920.7	996.0	962.1
35°	1385.8	1378.3	1346.2	1282.2	1191.9	1080.8	1009.2	1001.7	1039.3	1124.1	1050.6
37.5°	1530.8	1511.9	1496.9	1431.0	1340.6	1244.6	1158.0	1141.0	1159.8	1222.0	1131.6
40°	1711.5	1711.5	1677.6	1617.4	1532.7	1431.0	1310.5	1267.2	1261.5	1342.5	1272.8
42.5°	1922.4	1916.8	1888.5	1832.0	1751.1	1656.9	1504.4	1464.9	1461.1	1559.0	1476.2
45°	2165.3	2161.5	2127.6	2080.6	2024.1	1920.5	1769.9	1730.4	1707.8	1820.7	1722.8
47.5°	2387.5	2374.3	2363.0	2368.6	2336.6	2219.9	2078.7	2031.6	2029.7	2118.2	1992.1
50°	2540.0	2532.5	2572.0	2609.6	2669.9	2596.5	2428.9	2387.5	2355.5	2472.2	2272.6
52.5°	2639.8	2636.0	2715.1	2822.4	2946.7	2941.0	2792.3	2767.8	2741.4	2773.5	2523.0
55°	2679.3	2679.3	2773.5	2971.2	3189.6	3283.7	3214.0	3180.2	3087.9	3022.0	2797.9
57.5°	2632.2	2626.6	2749.0	3006.9	3340.2	3534.1	3564.3	3524.7	3379.7	3306.3	3103.0
60°	2432.7	2436.4	2581.4	2907.1	3328.9	3635.8	3829.7	3794.0	3649.0	3539.8	3359.0
62.5°	2059.9	2091.9	2244.4	2598.4	3087.9	3554.8	3982.3	4001.1	3844.8	3709.2	3586.9
65°	1547.7	1576.0	1720.9	2112.6	2649.2	3283.7	4010.5	4083.9	3957.8	3820.3	3622.6
67.5°	941.4	950.8	1127.8	1423.4	1950.6	2735.8	3812.8	3972.8	3882.5	3656.5	3268.6
70°	438.7	463.2	549.8	777.6	1235.2	2014.7	3295.0	3521.0	3419.3	3138.7	2485.4
72.5°	171.3	178.9	233.5	359.6	655.2	1267.2	2459.0	2609.6	2540.0	2229.3	1481.8
75°	84.7	90.4	113.0	171.3	299.4	523.4	1502.5	1600.4	1485.6	1120.3	627.0
77.5°	62.1	62.1	75.3	105.4	163.8	193.9	632.6	709.8	670.3	433.1	171.3
80°	41.4	45.2	52.7	71.5	103.6	94.1	239.1	284.3	237.2	133.7	60.3
82.5°	24.5	26.4	39.5	50.8	69.7	54.6	81.0	90.4	97.9	65.9	28.2
85°	13.2	13.2	26.4	37.7	37.7	24.5	28.2	32.0	37.7	39.5	15.1
87.5°	3.8	3.8	16.9	22.6	15.1	13.2	15.1	15.1	16.9	20.7	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P573350

CATALOG NUMBER: ARCH-S-PA2-60-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2	559.2
2.5°	561.1	561.1	563.0	563.0	564.9	564.9	564.9	564.9	566.7	568.6	568.6
5°	566.7	568.6	568.6	568.6	568.6	564.9	563.0	561.1	561.1	563.0	563.0
7.5°	581.8	583.7	581.8	578.0	572.4	564.9	557.3	557.3	555.4	557.3	555.4
10°	604.4	604.4	602.5	593.1	583.7	568.6	553.6	542.3	534.7	532.9	529.1
12.5°	632.6	632.6	627.0	610.0	593.1	564.9	525.3	487.7	457.5	444.4	440.6
15°	660.9	660.9	653.4	628.9	595.0	527.2	444.4	365.3	320.1	301.3	290.0
17.5°	694.8	691.0	677.8	643.9	574.3	451.9	318.2	237.2	201.5	184.5	184.5
20°	730.6	726.8	702.3	645.8	521.6	323.9	207.1	163.8	154.4	150.6	150.6
22.5°	770.1	760.7	723.0	630.8	410.5	220.3	156.3	145.0	141.2	139.3	139.3
25°	802.1	787.0	738.1	589.3	293.7	154.4	137.4	133.7	126.2	124.3	120.5
27.5°	826.6	804.0	743.7	500.8	193.9	128.0	122.4	114.9	107.3	99.8	99.8
30°	858.6	830.3	747.5	389.8	131.8	111.1	105.4	96.0	86.6	79.1	79.1
32.5°	922.6	881.2	749.4	273.0	109.2	97.9	86.6	75.3	65.9	62.1	60.3
35°	992.3	935.8	728.7	177.0	96.0	82.8	69.7	60.3	50.8	49.0	49.0
37.5°	1069.5	1016.7	683.5	120.5	84.7	69.7	56.5	47.1	41.4	39.5	39.5
40°	1199.4	1137.2	608.2	96.0	73.4	58.4	47.1	39.5	35.8	33.9	33.9
42.5°	1385.8	1278.5	514.0	82.8	64.0	49.0	37.7	32.0	30.1	28.2	28.2
45°	1600.4	1436.6	404.8	75.3	56.5	41.4	32.0	28.2	26.4	24.5	24.5
47.5°	1847.1	1600.4	320.1	65.9	49.0	35.8	28.2	24.5	22.6	20.7	20.7
50°	2080.6	1728.5	241.0	58.4	43.3	30.1	24.5	22.6	20.7	18.8	18.8
52.5°	2272.6	1815.1	182.6	50.8	37.7	26.4	22.6	20.7	16.9	16.9	16.9
55°	2504.2	1882.9	139.3	45.2	33.9	24.5	20.7	16.9	15.1	13.2	13.2
57.5°	2705.7	1907.3	101.7	39.5	30.1	22.6	18.8	15.1	11.3	9.4	9.4
60°	2841.2	1886.6	73.4	33.9	26.4	18.8	15.1	11.3	7.5	5.6	5.6
62.5°	2937.3	1841.4	56.5	30.1	22.6	16.9	13.2	9.4	5.6	3.8	3.8
65°	2841.2	1702.1	45.2	26.4	18.8	15.1	9.4	7.5	3.8	1.9	1.9
67.5°	2457.1	1427.2	35.8	22.6	16.9	13.2	9.4	5.6	1.9	0.0	0.0
70°	1766.1	1018.6	30.1	20.7	15.1	11.3	7.5	3.8	1.9	0.0	0.0
72.5°	984.7	525.3	28.2	18.8	15.1	11.3	7.5	3.8	1.9	0.0	0.0
75°	399.2	180.8	26.4	18.8	15.1	9.4	7.5	3.8	1.9	0.0	0.0
77.5°	116.7	62.1	22.6	16.9	15.1	11.3	7.5	3.8	1.9	0.0	0.0
80°	41.4	28.2	16.9	15.1	11.3	9.4	7.5	5.6	1.9	0.0	0.0
82.5°	18.8	11.3	7.5	5.6	5.6	5.6	5.6	3.8	1.9	0.0	0.0
85°	7.5	5.6	3.8	1.9	1.9	1.9	1.9	1.9	1.9	0.0	0.0
87.5°	5.6	3.8	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0
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)