

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: P573507

Luminaire Tested: **ARCH-S-PA2-80-827-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573507
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-PA2-80-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8974 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

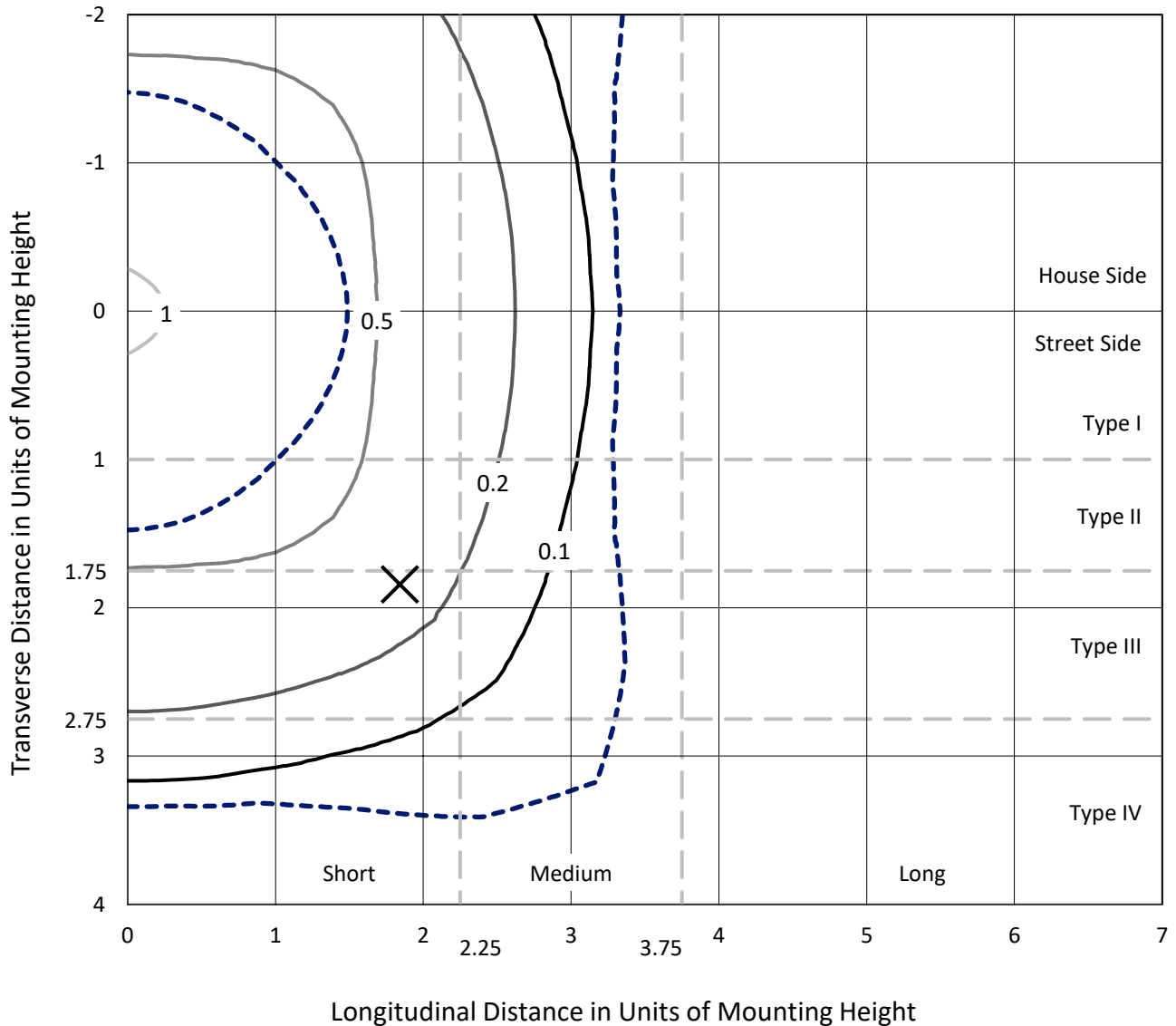
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

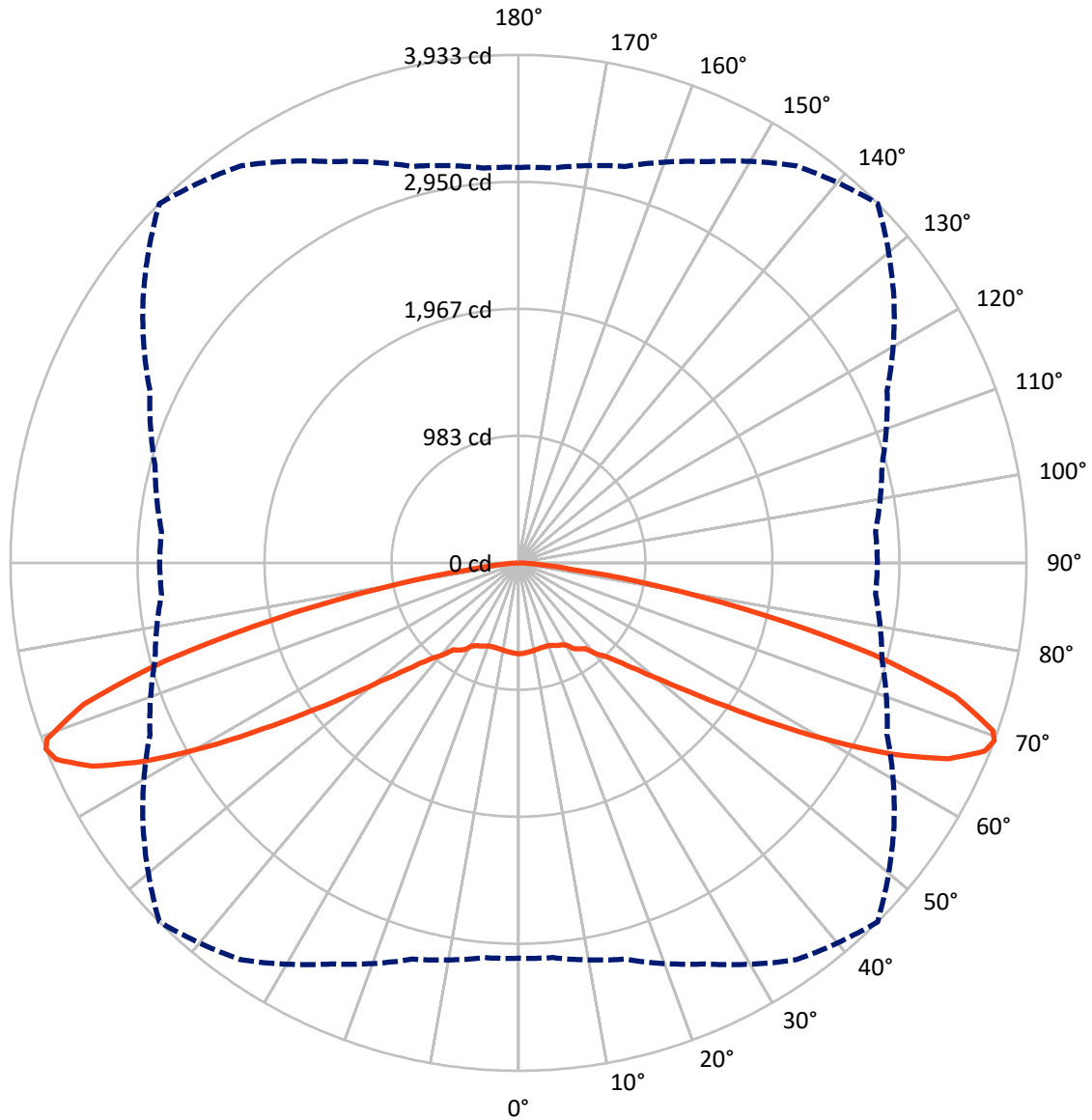
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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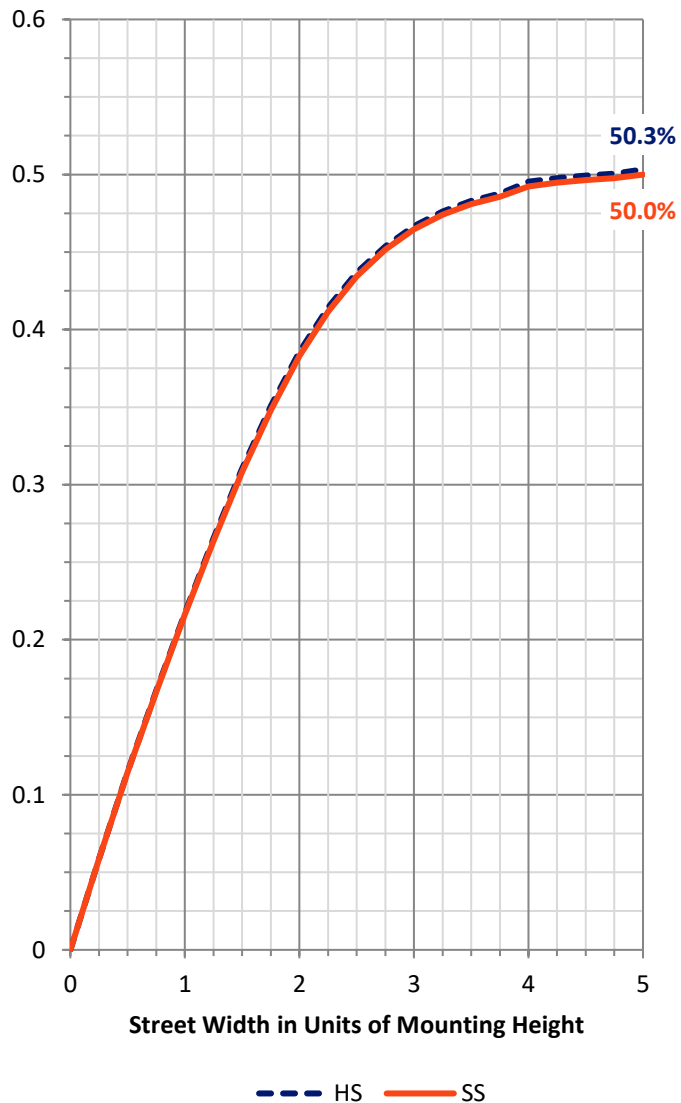
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4487.0	0.0	4487.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4487.0	0.0	4487.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8974.0	0.0	8974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	0.7
10°-20°	195.1	2.2
20°-30°	330.8	3.7
30°-40°	514.3	5.7
40°-50°	882.8	9.8
50°-60°	1756.5	19.6
60°-70°	3128.9	34.9
70°-80°	1970.6	22.0
80°-90°	128.7	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°	8974.0	100.0
0°-180°	8974.0	100.0

Coefficient of Utilization

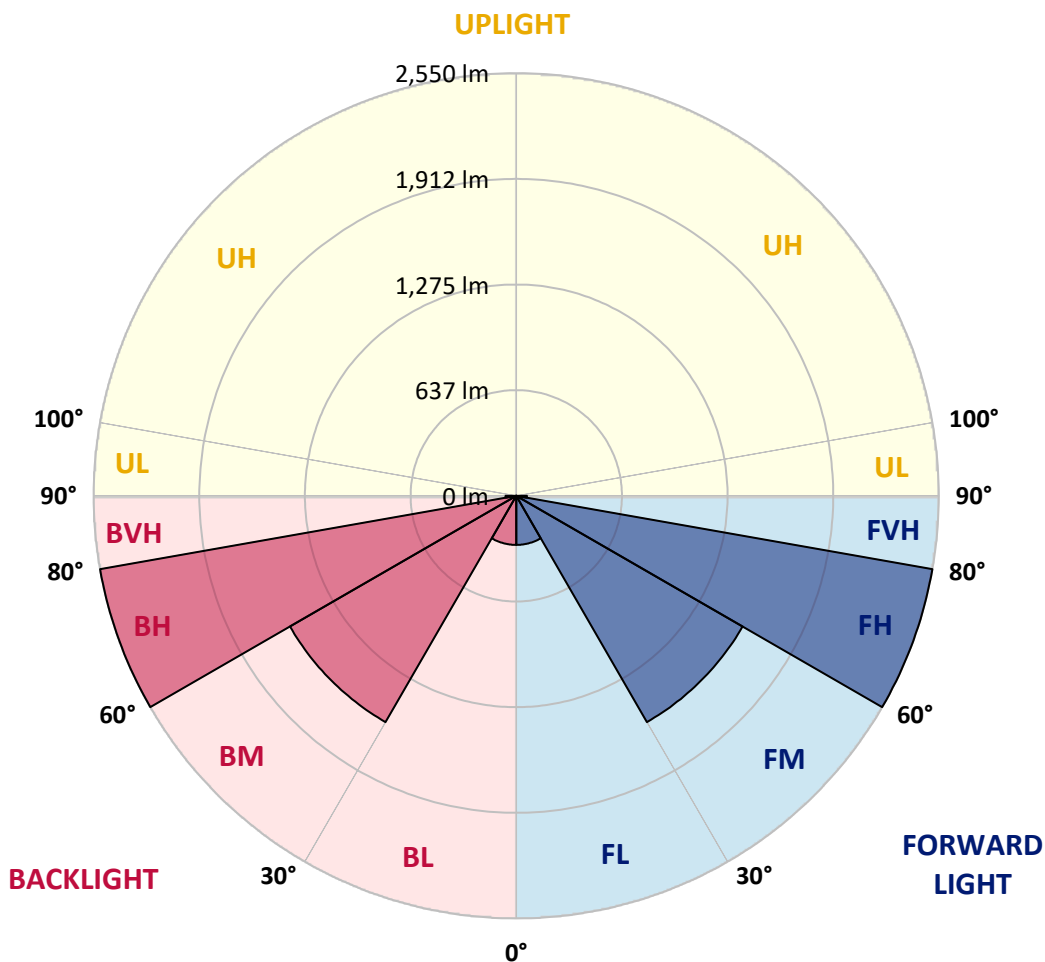


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	296.1	3.3			
FM (30°-60°)	1576.8	17.6			
FH (60°-80°)	2549.8	28.4			G2/5000
FVH (80°-90°)	64.3	0.7			G1/100
BL (0°-30°)	296.1	3.3	B1/500		
BM (30°-60°)	1576.8	17.6	B2/2500		
BH (60°-80°)	2549.8	28.4	B4/5000		G2/5000
BVH (80°-90°)	64.3	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°	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2	704.2
2.5°	708.9	706.6	706.6	704.2	701.8	701.8	701.8	699.5	701.8	701.8	701.8
5°	706.6	704.2	701.8	699.5	699.5	697.1	699.5	697.1	697.1	697.1	697.1
7.5°	699.5	699.5	694.8	694.8	692.4	692.4	690.1	690.1	690.1	687.7	687.7
10°	699.5	697.1	694.8	690.1	687.7	687.7	687.7	685.4	687.7	687.7	687.7
12.5°	699.5	699.5	692.4	687.7	683.0	683.0	683.0	683.0	687.7	690.1	690.1
15°	704.2	701.8	694.8	685.4	680.7	680.7	680.7	683.0	687.7	692.4	692.4
17.5°	706.6	701.8	692.4	683.0	680.7	680.7	680.7	683.0	690.1	694.8	697.1
20°	708.9	706.6	694.8	685.4	683.0	683.0	683.0	683.0	690.1	697.1	699.5
22.5°	716.0	713.6	701.8	694.8	692.4	692.4	692.4	692.4	699.5	708.9	708.9
25°	725.4	720.7	708.9	704.2	704.2	708.9	708.9	704.2	711.3	718.3	720.7
27.5°	741.9	737.2	725.4	720.7	718.3	718.3	718.3	718.3	723.0	734.8	734.8
30°	756.0	753.7	749.0	749.0	746.6	741.9	741.9	746.6	749.0	753.7	756.0
32.5°	774.9	770.1	765.4	765.4	779.6	793.7	781.9	763.1	760.7	763.1	765.4
35°	814.9	810.2	798.4	791.3	805.5	819.6	800.8	789.0	796.1	803.1	803.1
37.5°	871.4	869.1	859.6	845.5	840.8	843.2	836.1	845.5	864.4	878.5	880.8
40°	930.3	927.9	918.5	911.5	913.8	925.6	920.9	911.5	923.2	932.7	932.7
42.5°	1022.2	1012.7	998.6	979.8	982.1	991.5	979.8	989.2	1005.7	1022.2	1024.5
45°	1144.6	1135.2	1116.4	1099.9	1088.1	1092.8	1092.8	1109.3	1128.1	1147.0	1154.0
47.5°	1276.5	1274.2	1255.3	1241.2	1229.4	1236.5	1236.5	1236.5	1267.1	1285.9	1285.9
50°	1439.0	1432.0	1432.0	1420.2	1415.5	1417.8	1408.4	1417.8	1432.0	1436.7	1429.6
52.5°	1632.2	1625.1	1629.8	1634.5	1646.3	1662.8	1639.2	1636.9	1629.8	1622.7	1620.4
55°	1863.0	1870.0	1888.9	1919.5	1938.3	1971.3	1936.0	1893.6	1874.7	1855.9	1841.8
57.5°	2138.5	2150.3	2178.6	2251.6	2331.6	2362.3	2301.0	2223.3	2157.4	2103.2	2115.0
60°	2498.9	2491.8	2538.9	2637.8	2750.9	2812.1	2715.5	2588.4	2482.4	2456.5	2463.5
62.5°	2882.8	2896.9	2929.9	3061.8	3203.1	3269.0	3151.3	2962.8	2826.2	2755.6	2755.6
65°	3123.0	3132.4	3224.3	3410.3	3568.1	3657.6	3490.4	3217.2	3021.7	2904.0	2896.9
67.5°	3158.3	3167.7	3271.4	3509.2	3768.3	3893.1	3603.5	3247.8	3019.4	2875.7	2871.0
69°	3061.8	3068.8	3177.2	3426.8	3751.8	3933.2	3549.3	3148.9	2913.4	2774.4	2779.1
70°	2922.8	2951.1	3033.5	3287.9	3664.7	3897.8	3450.4	3038.2	2793.3	2682.6	2663.7
72.5°	2291.6	2310.4	2447.0	2762.6	3271.4	3537.5	3031.1	2571.9	2322.2	2206.8	2235.1
75°	1297.7	1293.0	1467.3	1919.5	2522.4	2833.3	2385.8	1851.2	1488.5	1349.5	1368.4
77.5°	494.6	515.8	633.5	984.5	1585.0	1936.0	1582.7	989.2	692.4	539.3	513.4
80°	160.2	169.6	223.7	358.0	675.9	1092.8	739.5	381.5	240.2	181.4	169.6
82.5°	63.6	70.7	84.8	120.1	228.5	412.2	249.7	139.0	103.6	84.8	77.7
85°	35.3	33.0	44.7	54.2	77.7	117.8	84.8	65.9	56.5	40.0	37.7
87.5°	11.8	11.8	18.8	18.8	21.2	18.8	21.2	23.6	23.6	14.1	11.8
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)