

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: P573426

Luminaire Tested: **ARCH-S-PA2-70-827-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573426
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-PA2-70-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 725mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8120 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

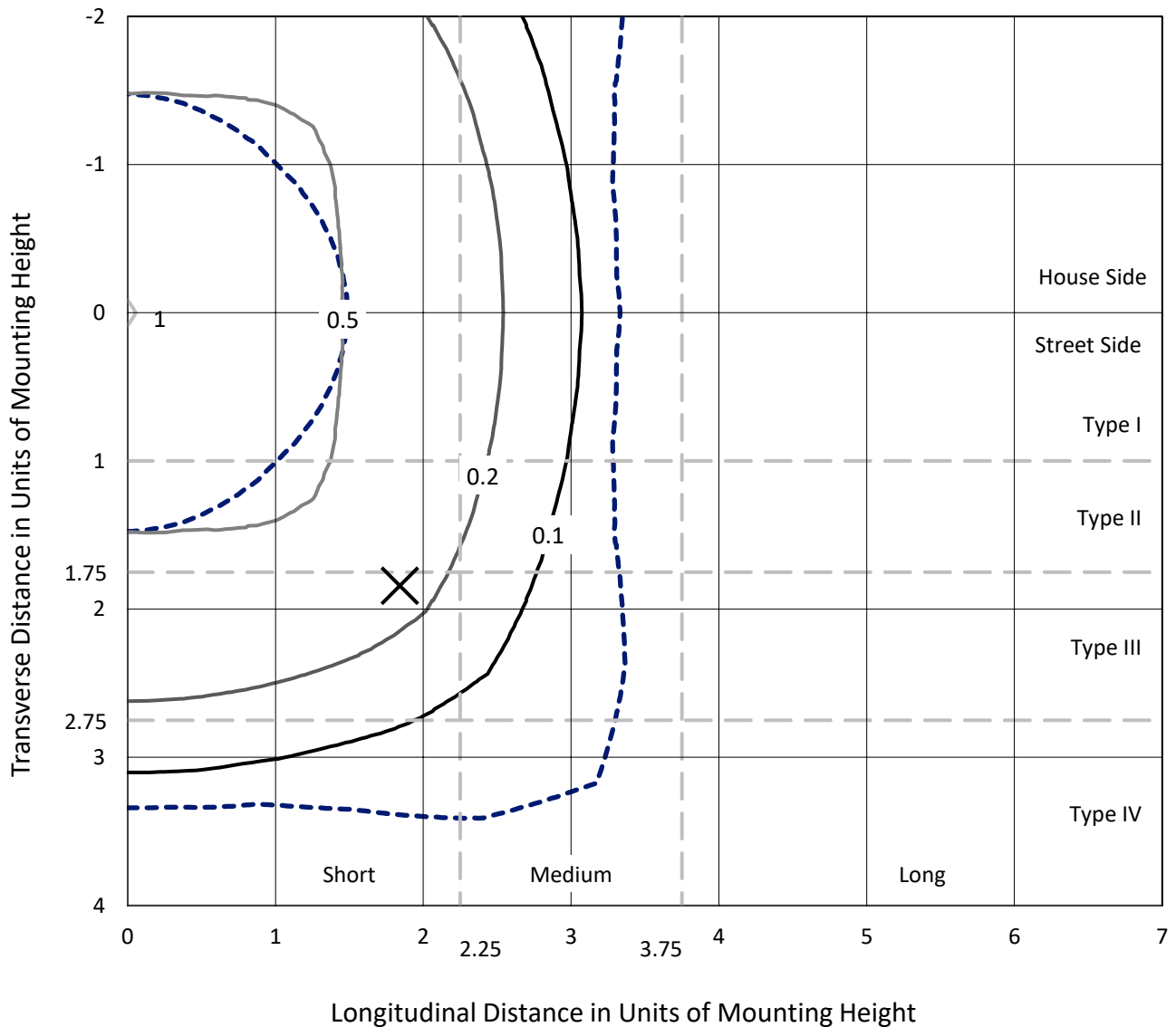
Input Watts (W): 73.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

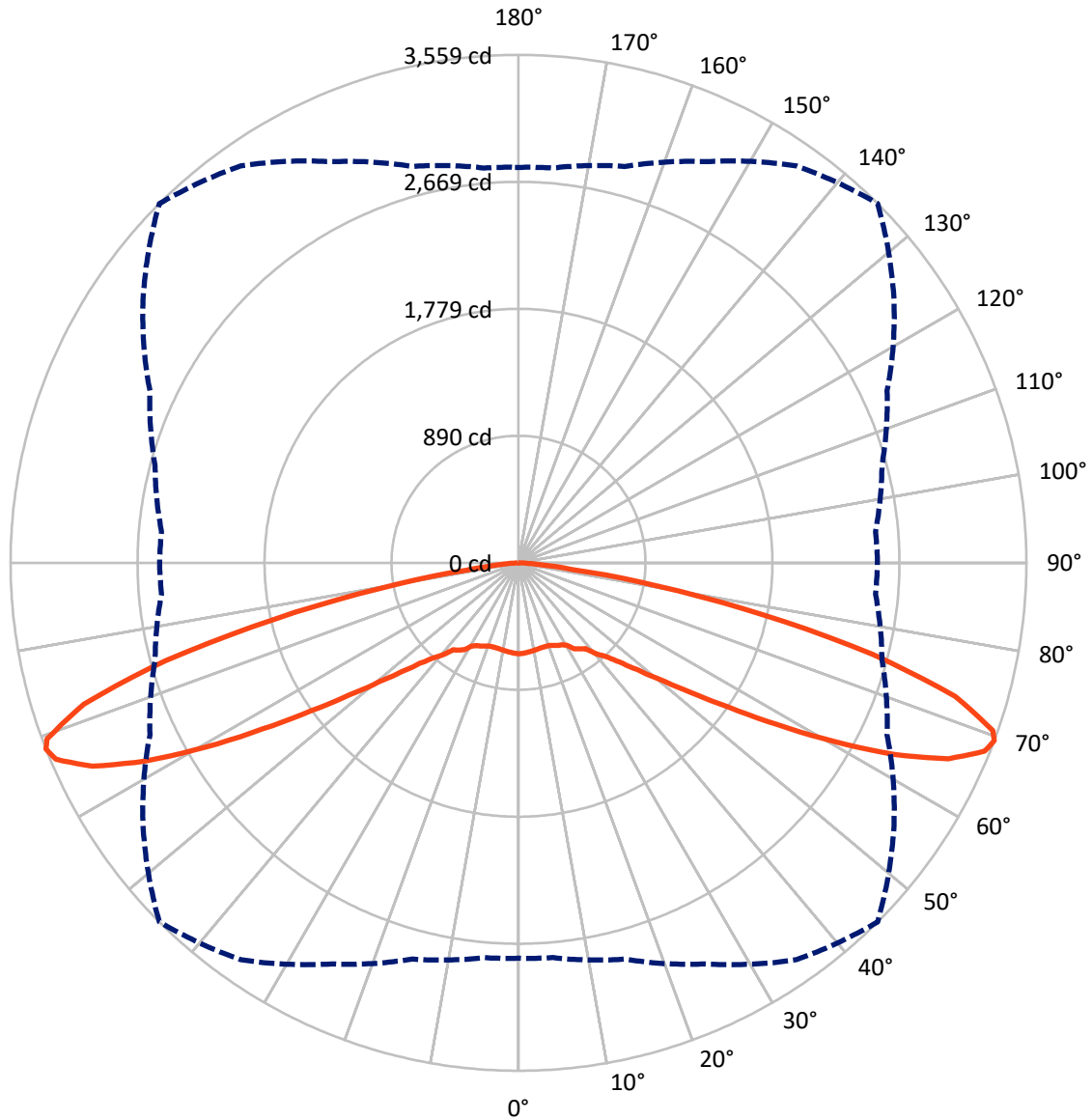
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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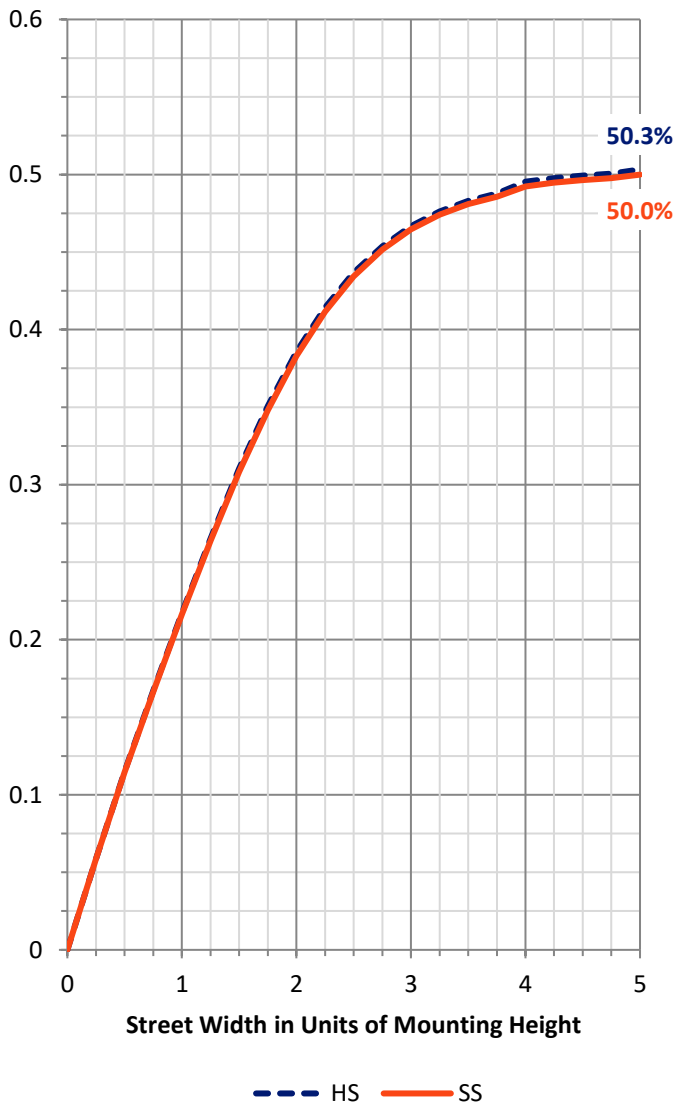
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4060.0	0.0	4060.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4060.0	0.0	4060.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8120.0	0.0	8120.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	0.7
10°-20°	176.5	2.2
20°-30°	299.3	3.7
30°-40°	465.3	5.7
40°-50°	798.8	9.8
50°-60°	1589.3	19.6
60°-70°	2831.2	34.9
70°-80°	1783.0	22.0
80°-90°	116.4	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°	8120.0	100.0
0°-180°	8120.0	100.0

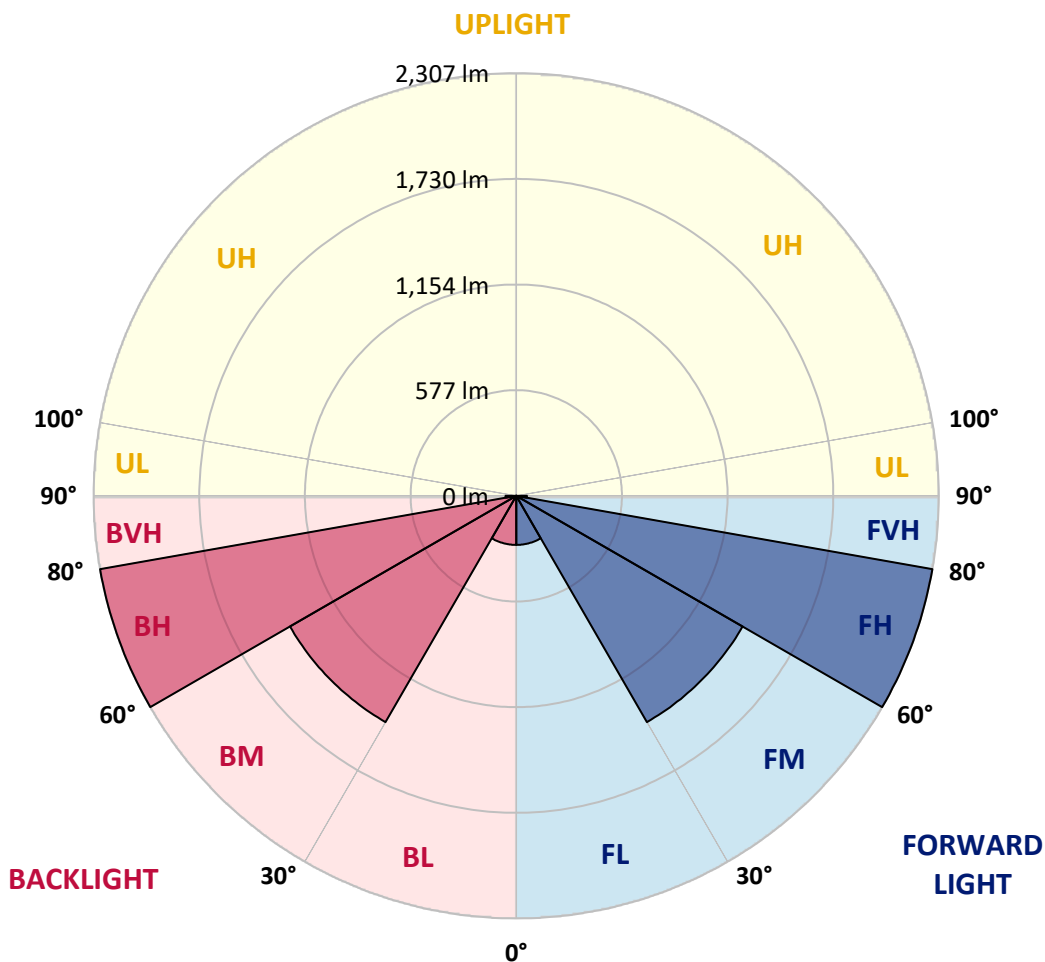


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	267.9	3.3			
FM (30°-60°)	1426.7	17.6			
FH (60°-80°)	2307.1	28.4			G2/5000
FVH (80°-90°)	58.2	0.7			G1/100
BL (0°-30°)	267.9	3.3	B1/500		
BM (30°-60°)	1426.7	17.6	B2/2500		
BH (60°-80°)	2307.1	28.4	B3/2500		G2/5000
BVH (80°-90°)	58.2	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-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	637.2	637.2	637.2	637.2	637.2	637.2	637.2	637.2	637.2	637.2	637.2
2.5°	641.5	639.3	639.3	637.2	635.1	635.1	635.1	632.9	635.1	635.1	635.1
5°	639.3	637.2	635.1	632.9	632.9	630.8	632.9	630.8	630.8	630.8	630.8
7.5°	632.9	632.9	628.7	628.7	626.5	626.5	624.4	624.4	624.4	622.3	622.3
10°	632.9	630.8	628.7	624.4	622.3	622.3	622.3	620.1	622.3	622.3	622.3
12.5°	632.9	632.9	626.5	622.3	618.0	618.0	618.0	618.0	622.3	624.4	624.4
15°	637.2	635.1	628.7	620.1	615.9	615.9	615.9	618.0	622.3	626.5	626.5
17.5°	639.3	635.1	626.5	618.0	615.9	615.9	615.9	618.0	624.4	628.7	630.8
20°	641.5	639.3	628.7	620.1	618.0	618.0	618.0	618.0	624.4	630.8	632.9
22.5°	647.8	645.7	635.1	628.7	626.5	628.7	626.5	626.5	632.9	641.5	641.5
25°	656.4	652.1	641.5	637.2	637.2	641.5	641.5	637.2	643.6	650.0	652.1
27.5°	671.3	667.0	656.4	652.1	650.0	650.0	650.0	650.0	654.2	664.9	664.9
30°	684.1	681.9	677.7	677.7	675.5	671.3	671.3	675.5	677.7	681.9	684.1
32.5°	701.1	696.9	692.6	692.6	705.4	718.2	707.5	690.5	688.3	690.5	692.6
35°	737.3	733.1	722.4	716.0	728.8	741.6	724.6	713.9	720.3	726.7	726.7
37.5°	788.5	786.4	777.8	765.1	760.8	762.9	756.5	765.1	782.1	794.9	797.0
40°	841.8	839.6	831.1	824.7	826.9	837.5	833.2	824.7	835.4	843.9	843.9
42.5°	924.9	916.4	903.6	886.5	888.7	897.2	886.5	895.0	910.0	924.9	927.0
45°	1035.7	1027.2	1010.1	995.2	984.6	988.8	988.8	1003.7	1020.8	1037.8	1044.2
47.5°	1155.0	1152.9	1135.9	1123.1	1112.4	1118.8	1118.8	1118.8	1146.5	1163.6	1163.6
50°	1302.1	1295.7	1295.7	1285.0	1280.8	1282.9	1274.4	1282.9	1295.7	1300.0	1293.6
52.5°	1476.8	1470.4	1474.7	1479.0	1489.6	1504.5	1483.2	1481.1	1474.7	1468.3	1466.2
55°	1685.7	1692.1	1709.1	1736.8	1753.9	1783.7	1751.7	1713.4	1696.3	1679.3	1666.5
57.5°	1935.0	1945.7	1971.2	2037.3	2109.8	2137.5	2082.1	2011.7	1952.1	1903.0	1913.7
60°	2261.1	2254.7	2297.3	2386.8	2489.1	2544.5	2457.1	2342.0	2246.1	2222.7	2229.1
62.5°	2608.4	2621.2	2651.0	2770.4	2898.3	2957.9	2851.4	2680.9	2557.3	2493.3	2493.3
65°	2825.8	2834.3	2917.4	3085.8	3228.6	3309.5	3158.2	2911.0	2734.2	2627.6	2621.2
67.5°	2857.8	2866.3	2960.1	3175.3	3409.7	3522.7	3260.5	2938.7	2732.0	2602.0	2597.8
69°	2770.4	2776.8	2874.8	3100.7	3394.8	3558.9	3211.5	2849.2	2636.1	2510.4	2514.7
70°	2644.7	2670.2	2744.8	2975.0	3315.9	3526.9	3122.0	2749.1	2527.4	2427.3	2410.2
72.5°	2073.5	2090.6	2214.2	2499.7	2960.1	3200.9	2742.7	2327.1	2101.2	1996.8	2022.4
75°	1174.2	1170.0	1327.7	1736.8	2282.4	2563.7	2158.8	1675.0	1346.8	1221.1	1238.1
77.5°	447.5	466.7	573.3	890.8	1434.2	1751.7	1432.1	895.0	626.5	488.0	464.6
80°	144.9	153.4	202.5	323.9	611.6	988.8	669.2	345.2	217.4	164.1	153.4
82.5°	57.5	63.9	76.7	108.7	206.7	372.9	225.9	125.7	93.8	76.7	70.3
85°	32.0	29.8	40.5	49.0	70.3	106.6	76.7	59.7	51.1	36.2	34.1
87.5°	10.7	10.7	17.0	17.0	19.2	17.0	19.2	21.3	21.3	12.8	10.7
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)