

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: P573516

Luminaire Tested: **ARCH-S-PA2-80-830-U-5WQ**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573516
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-PA2-80-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 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: 9701 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

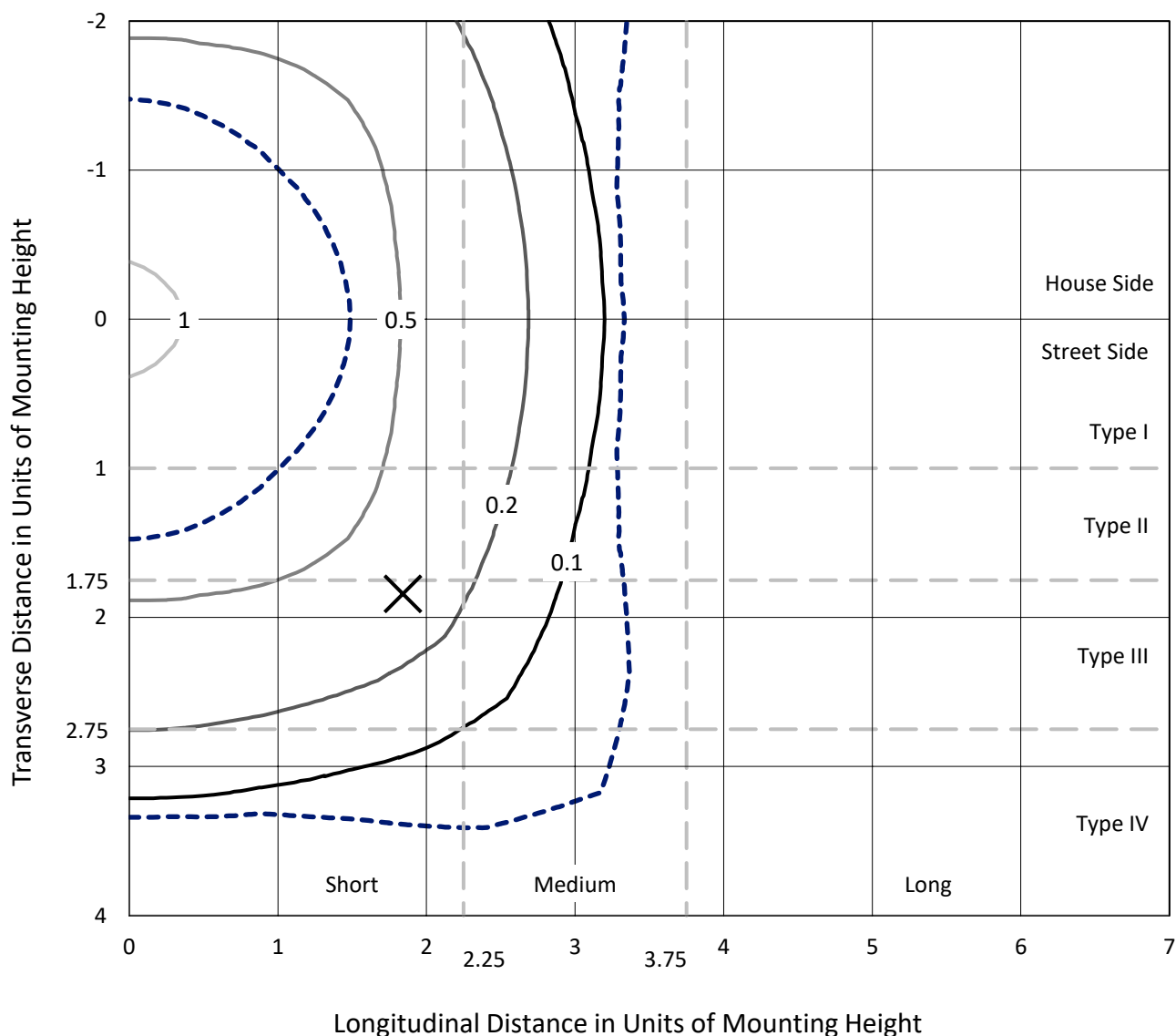
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

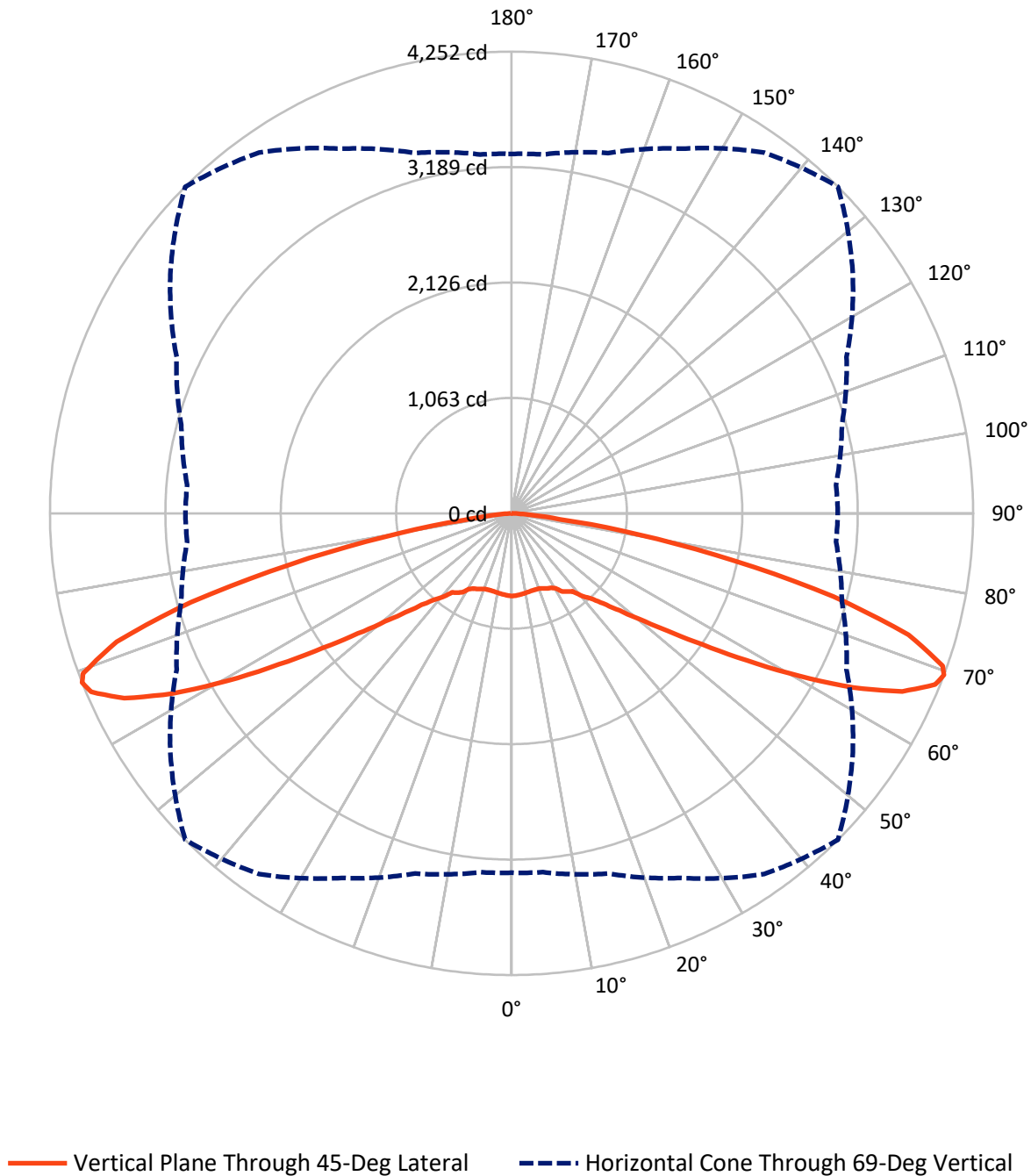
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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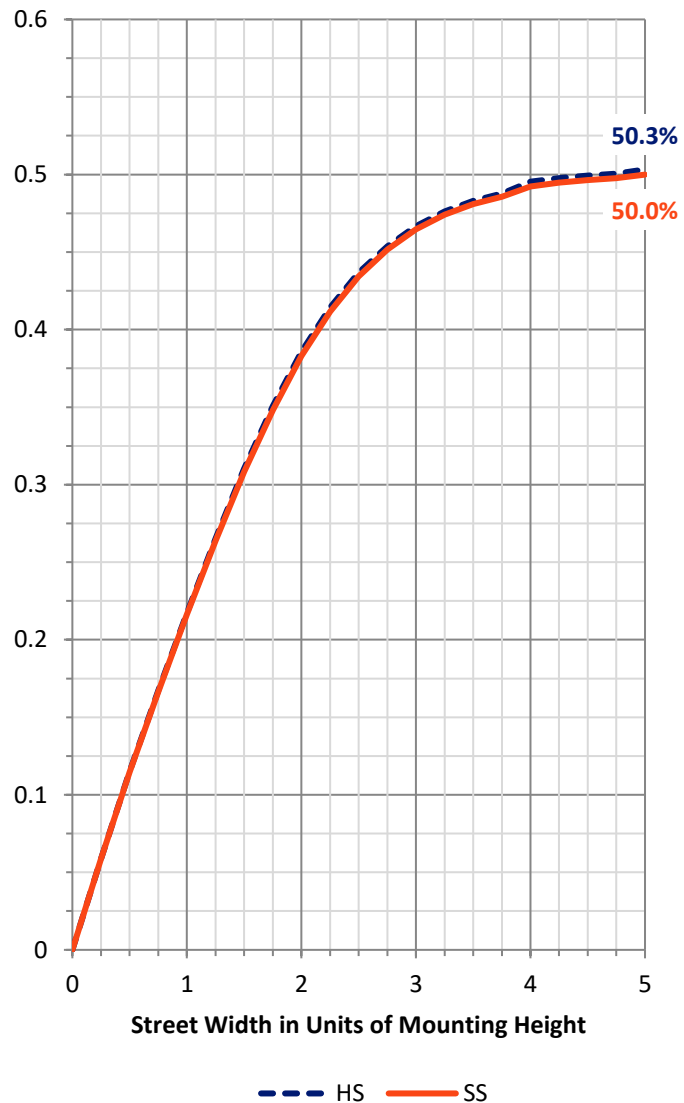
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4850.5	0.0	4850.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4850.5	0.0	4850.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9701.0	0.0	9701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	0.7
10°-20°	210.9	2.2
20°-30°	357.6	3.7
30°-40°	555.9	5.7
40°-50°	954.3	9.8
50°-60°	1898.8	19.6
60°-70°	3382.4	34.9
70°-80°	2130.2	22.0
80°-90°	139.1	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°	9701.0	100.0
0°-180°	9701.0	100.0

Coefficient of Utilization



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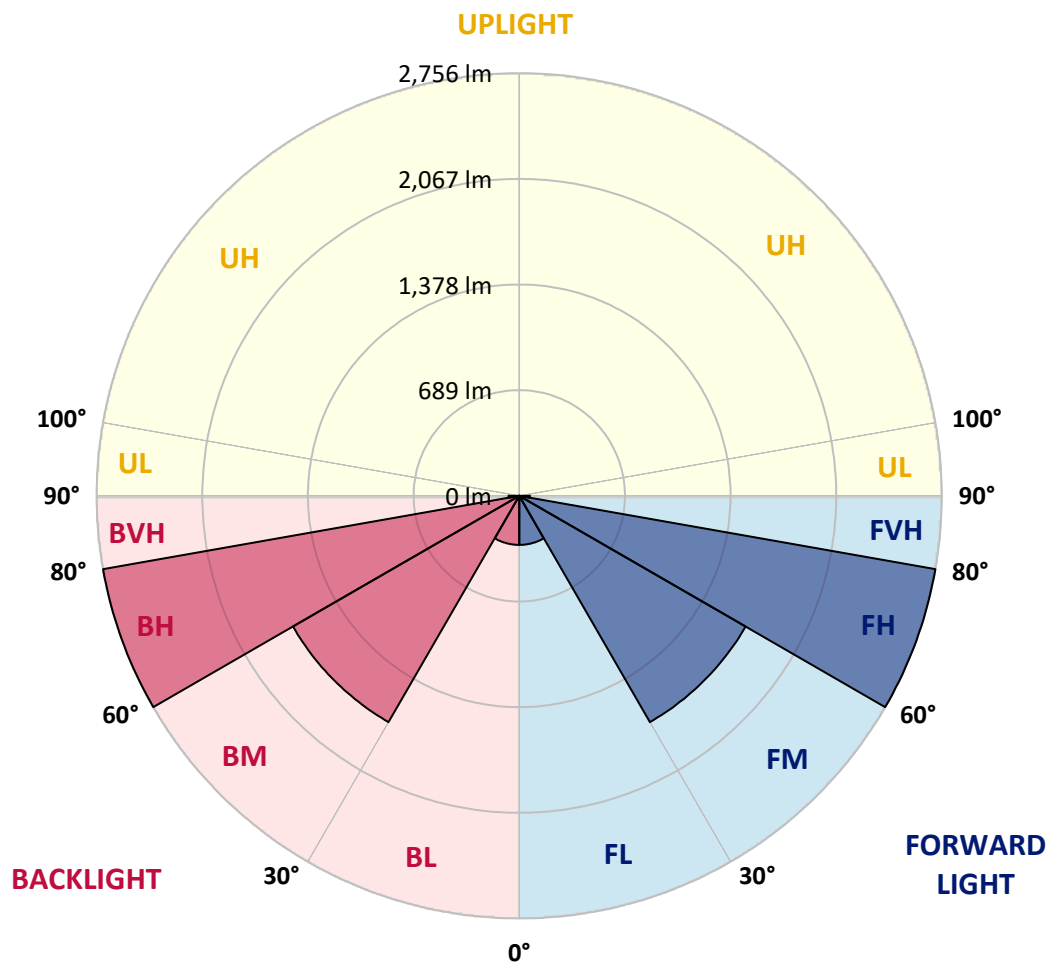
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	320.1	3.3			
FM	(30°-60°)	1704.5	17.6			
FH	(60°-80°)	2756.3	28.4			G2/5000
FVH	(80°-90°)	69.6	0.7			G1/100
BL	(0°-30°)	320.1	3.3	B1/500		
BM	(30°-60°)	1704.5	17.6	B2/2500		
BH	(60°-80°)	2756.3	28.4	B4/5000		G2/5000
BVH	(80°-90°)	69.6	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°	761.3	761.3	761.3	761.3	761.3	761.3	761.3	761.3	761.3	761.3	761.3
2.5°	766.3	763.8	763.8	761.3	758.7	758.7	758.7	756.2	758.7	758.7	758.7
5°	763.8	761.3	758.7	756.2	756.2	753.6	756.2	753.6	753.6	753.6	753.6
7.5°	756.2	756.2	751.1	751.1	748.5	748.5	746.0	746.0	746.0	743.4	743.4
10°	756.2	753.6	751.1	746.0	743.4	743.4	743.4	740.9	743.4	743.4	743.4
12.5°	756.2	756.2	748.5	743.4	738.3	738.3	738.3	738.3	743.4	746.0	746.0
15°	761.3	758.7	751.1	740.9	735.8	735.8	735.8	738.3	743.4	748.5	748.5
17.5°	763.8	758.7	748.5	738.3	735.8	735.8	735.8	738.3	746.0	751.1	753.6
20°	766.3	763.8	751.1	740.9	738.3	738.3	738.3	738.3	746.0	753.6	756.2
22.5°	774.0	771.4	758.7	751.1	748.5	751.1	748.5	748.5	756.2	766.3	766.3
25°	784.2	779.1	766.3	761.3	761.3	766.3	766.3	761.3	768.9	776.5	779.1
27.5°	802.0	796.9	784.2	779.1	776.5	776.5	776.5	776.5	781.6	794.4	794.4
30°	817.3	814.7	809.6	809.6	807.1	802.0	802.0	807.1	809.6	814.7	817.3
32.5°	837.6	832.5	827.4	827.4	842.7	858.0	845.3	824.9	822.4	824.9	827.4
35°	880.9	875.8	863.1	855.5	870.7	886.0	865.6	852.9	860.5	868.2	868.2
37.5°	942.0	939.5	929.3	914.0	908.9	911.5	903.8	914.0	934.4	949.7	952.2
40°	1005.7	1003.1	992.9	985.3	987.8	1000.6	995.5	985.3	998.0	1008.2	1008.2
42.5°	1105.0	1094.8	1079.5	1059.1	1061.7	1071.9	1059.1	1069.3	1087.1	1105.0	1107.5
45°	1237.4	1227.2	1206.8	1189.0	1176.2	1181.3	1181.3	1199.2	1219.5	1239.9	1247.5
47.5°	1379.9	1377.4	1357.0	1341.7	1329.0	1336.6	1336.6	1336.6	1369.7	1390.1	1390.1
50°	1555.6	1548.0	1548.0	1535.2	1530.1	1532.7	1522.5	1532.7	1548.0	1553.1	1545.4
52.5°	1764.4	1756.7	1761.8	1766.9	1779.7	1797.5	1772.0	1769.5	1761.8	1754.2	1751.6
55°	2013.9	2021.5	2041.9	2075.0	2095.4	2131.0	2092.8	2047.0	2026.6	2006.2	1991.0
57.5°	2311.8	2324.5	2355.0	2434.0	2520.5	2553.6	2487.4	2403.4	2332.1	2273.6	2286.3
60°	2701.3	2693.7	2744.6	2851.5	2973.7	3039.9	2935.5	2798.0	2683.5	2655.5	2663.1
62.5°	3116.3	3131.6	3167.2	3309.8	3462.6	3533.8	3406.5	3202.9	3055.2	2978.8	2978.8
65°	3376.0	3386.2	3485.5	3686.6	3857.2	3953.9	3773.2	3477.8	3266.5	3139.2	3131.6
67.5°	3414.2	3424.4	3536.4	3793.5	4073.6	4208.5	3895.4	3510.9	3264.0	3108.7	3103.6
69°	3309.8	3317.4	3434.5	3704.4	4055.8	4251.8	3836.8	3404.0	3149.4	2999.2	3004.3
70°	3159.6	3190.1	3279.2	3554.2	3961.6	4213.6	3729.9	3284.3	3019.6	2899.9	2879.5
72.5°	2477.3	2497.6	2645.3	2986.5	3536.4	3824.1	3276.7	2780.2	2510.4	2385.6	2416.1
75°	1402.8	1397.8	1586.2	2075.0	2726.8	3062.8	2579.1	2001.2	1609.1	1458.9	1479.2
77.5°	534.7	557.6	684.9	1064.2	1713.5	2092.8	1710.9	1069.3	748.5	583.0	555.0
80°	173.1	183.3	241.9	387.0	730.7	1181.3	799.4	412.5	259.7	196.0	183.3
82.5°	68.7	76.4	91.7	129.8	247.0	445.5	269.9	150.2	112.0	91.7	84.0
85°	38.2	35.6	48.4	58.6	84.0	127.3	91.7	71.3	61.1	43.3	40.7
87.5°	12.7	12.7	20.4	20.4	22.9	20.4	22.9	25.5	25.5	15.3	12.7
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)