

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: P397589

Luminaire Tested: **ARCH-S-PA1-100-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-100-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9569 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

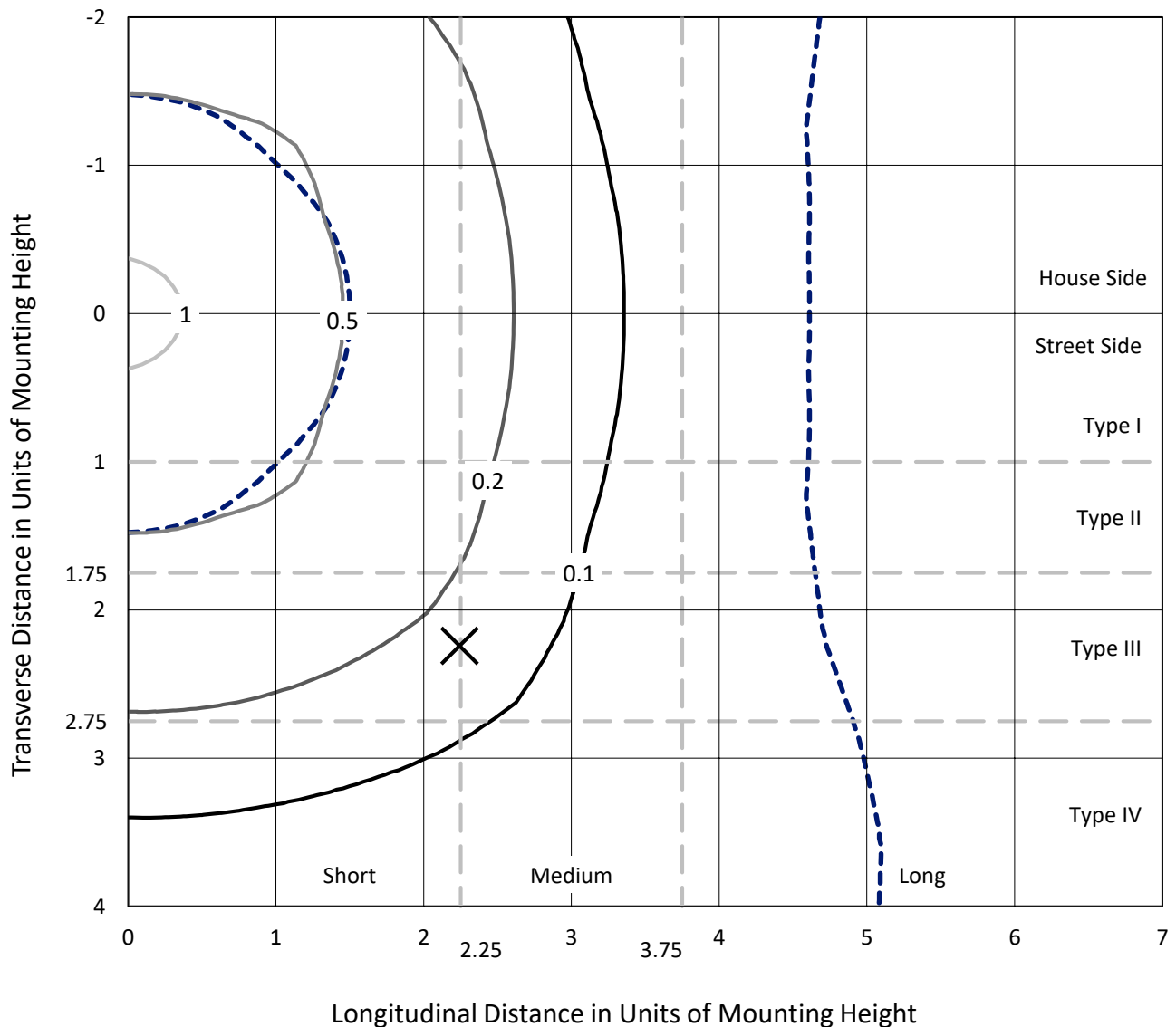
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

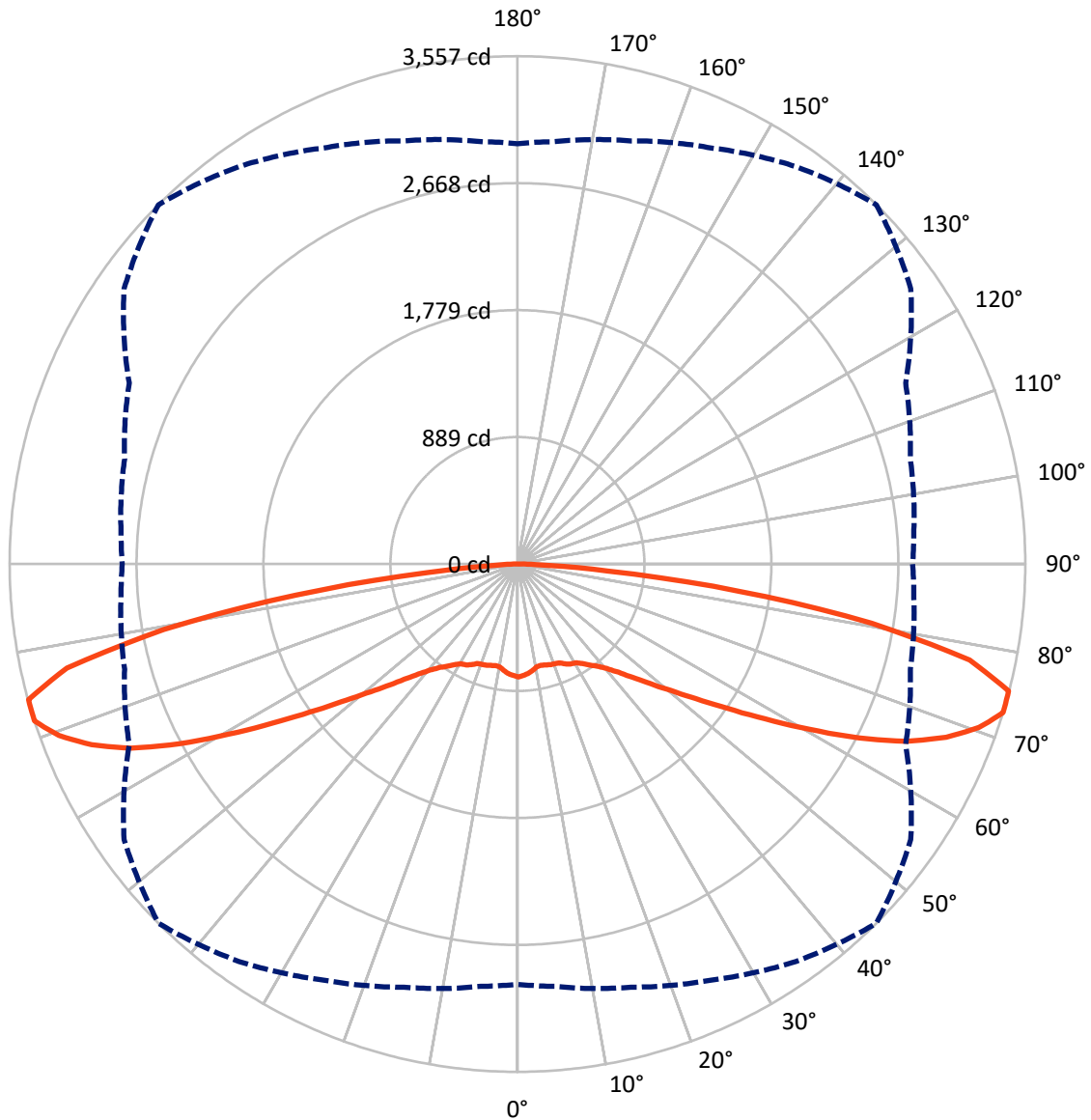


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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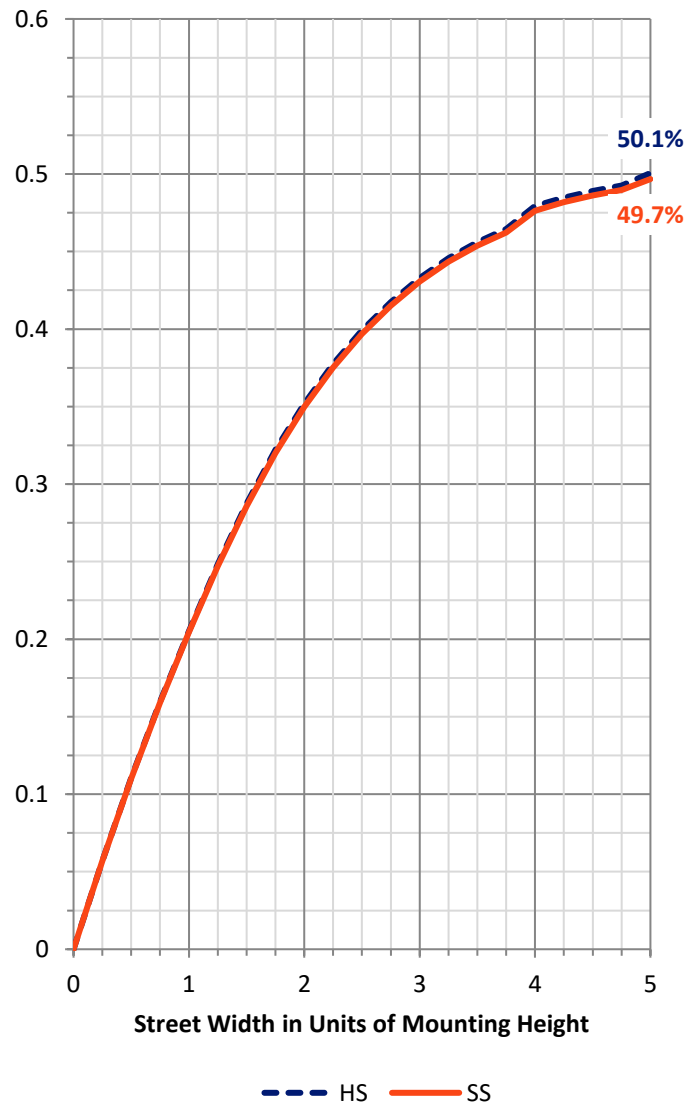
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4784.5	0.0	4784.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4784.5	0.0	4784.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9569.0	0.0	9569.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	0.8
10°-20°	210.8	2.2
20°-30°	358.1	3.7
30°-40°	546.2	5.7
40°-50°	899.4	9.4
50°-60°	1570.7	16.4
60°-70°	2633.3	27.5
70°-80°	2818.2	29.5
80°-90°	459.6	4.8
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°	9569.0	100.0
0°-180°	9569.0	100.0



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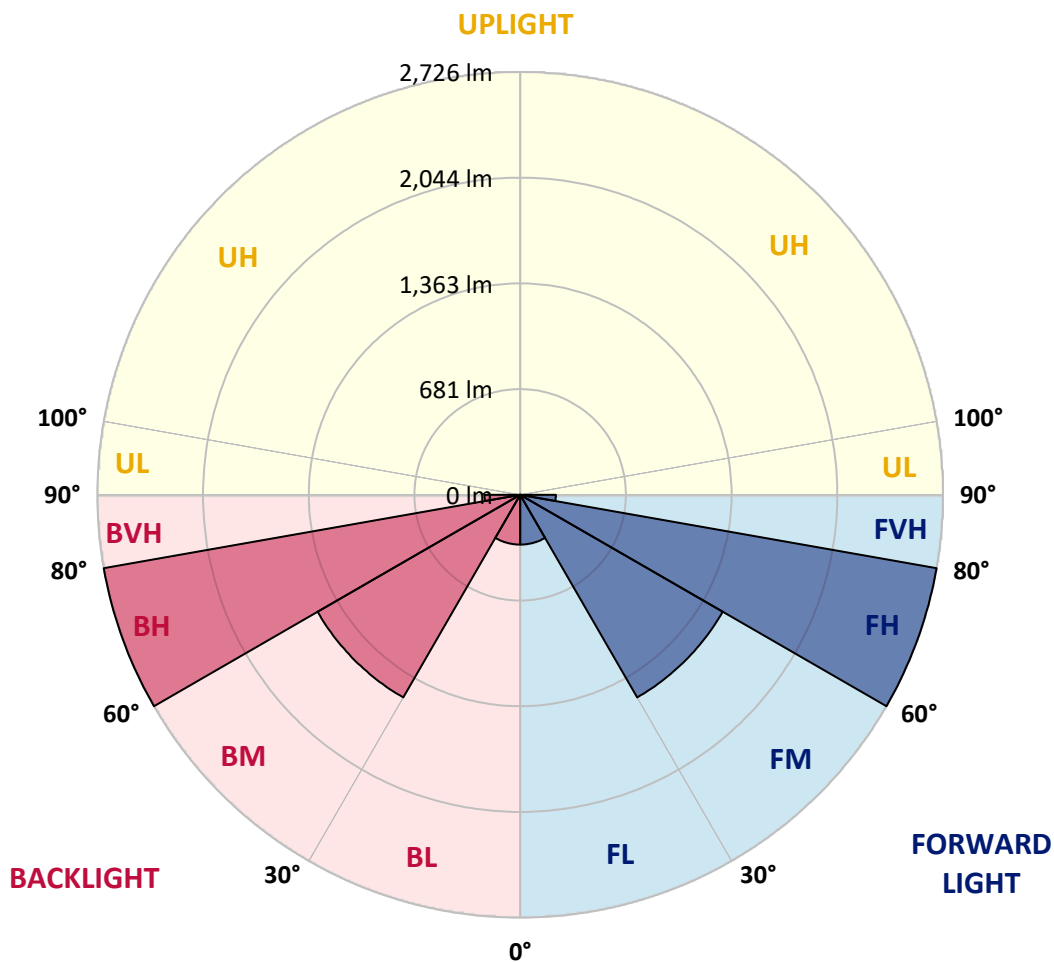
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	320.8	3.4			
FM	(30°-60°)	1508.2	15.8			
FH	(60°-80°)	2725.7	28.5			G2/5000
FVH	(80°-90°)	229.8	2.4			G3/500
BL	(0°-30°)	320.8	3.4	B1/500		
BM	(30°-60°)	1508.2	15.8	B2/2500		
BH	(60°-80°)	2725.7	28.5	B4/5000		G2/5000
BVH	(80°-90°)	229.8	2.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8	791.8
2.5°	787.0	787.0	787.0	785.7	783.3	782.1	779.6	780.8	780.8	780.8	780.8
5°	777.2	777.2	776.0	774.7	772.3	771.1	768.6	771.1	771.1	771.1	771.1
7.5°	758.9	760.1	760.1	758.9	755.2	754.0	750.3	751.5	751.5	752.7	751.5
10°	749.1	749.1	747.9	741.7	735.6	733.2	732.0	735.6	739.3	743.0	743.0
12.5°	749.1	749.1	746.6	736.9	728.3	728.3	728.3	733.2	740.5	747.9	749.1
15°	752.7	752.7	747.9	736.9	732.0	733.2	733.2	738.1	746.6	756.4	757.6
17.5°	755.2	755.2	749.1	738.1	738.1	741.7	739.3	743.0	751.5	762.5	763.7
20°	758.9	758.9	750.3	741.7	741.7	745.4	745.4	749.1	756.4	767.4	768.6
22.5°	766.2	765.0	756.4	749.1	749.1	751.5	754.0	758.9	765.0	774.7	777.2
25°	774.7	774.7	767.4	766.2	768.6	774.7	773.5	772.3	774.7	783.3	787.0
27.5°	779.6	779.6	774.7	778.4	788.2	793.1	787.0	782.1	782.1	790.6	791.8
30°	795.5	794.3	789.4	791.8	800.4	802.8	799.2	793.1	796.7	806.5	807.7
32.5°	822.4	822.4	815.1	815.1	821.2	830.9	818.7	815.1	820.0	830.9	832.2
35°	863.9	863.9	854.2	849.3	854.2	867.6	849.3	848.1	856.6	868.8	870.1
37.5°	916.5	916.5	910.4	898.2	899.4	907.9	892.0	890.8	906.7	920.2	920.2
40°	982.5	986.1	980.0	965.4	960.5	961.7	949.5	950.7	969.0	984.9	984.9
42.5°	1064.3	1066.8	1057.0	1046.0	1039.9	1036.2	1024.0	1026.5	1048.5	1069.2	1069.2
45°	1163.3	1164.6	1154.8	1141.3	1134.0	1131.6	1119.3	1125.4	1149.9	1171.9	1170.7
47.5°	1274.5	1275.8	1266.0	1252.5	1247.6	1251.3	1239.1	1239.1	1261.1	1279.4	1277.0
50°	1400.4	1402.8	1391.8	1385.7	1382.1	1391.8	1377.2	1363.7	1378.4	1396.7	1394.3
52.5°	1539.7	1545.8	1538.5	1540.9	1554.4	1566.6	1542.1	1512.8	1520.1	1532.4	1528.7
55°	1708.3	1715.7	1718.1	1726.7	1762.1	1782.9	1742.5	1693.7	1690.0	1691.2	1685.1
57.5°	1897.7	1902.6	1918.5	1938.1	2011.4	2044.4	1980.8	1896.5	1869.6	1853.7	1850.1
60°	2088.4	2096.9	2136.0	2176.4	2288.8	2348.7	2250.9	2109.1	2051.7	2022.4	2016.3
62.5°	2280.2	2297.3	2360.9	2429.3	2593.0	2682.3	2532.0	2326.7	2243.6	2206.9	2197.1
65°	2502.6	2523.4	2600.4	2687.1	2869.2	2995.1	2813.0	2551.5	2462.3	2413.4	2401.2
67.5°	2762.9	2784.9	2847.2	2943.8	3116.1	3239.5	3078.2	2781.2	2665.1	2602.8	2593.0
70°	2976.8	2996.3	3063.5	3161.3	3289.6	3430.1	3276.1	2964.5	2859.4	2815.5	2809.3
72.5°	2943.8	2969.4	3068.4	3215.0	3398.3	3557.2	3362.9	3000.0	2848.4	2787.3	2767.8
75°	2571.1	2599.2	2716.5	2981.6	3316.5	3553.5	3237.0	2764.1	2585.7	2534.4	2524.6
77.5°	1702.2	1729.1	1927.1	2345.0	2896.1	3238.3	2857.0	2315.7	2028.5	1905.1	1897.7
80°	688.0	722.2	911.6	1355.2	2052.9	2517.3	2118.9	1482.3	999.6	806.5	767.4
82.5°	160.1	190.6	277.4	499.8	1050.9	1567.8	1142.6	553.6	321.4	228.5	205.3
85°	67.2	68.4	118.5	162.5	328.7	633.0	373.9	201.6	163.7	119.8	117.3
87.5°	25.7	26.9	57.4	68.4	105.1	119.8	127.1	103.9	96.5	59.9	57.4
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)