

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: P398012

Luminaire Tested: **ARCH-S-PA1-70-827-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P398012
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-PA1-70-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7565 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 74
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

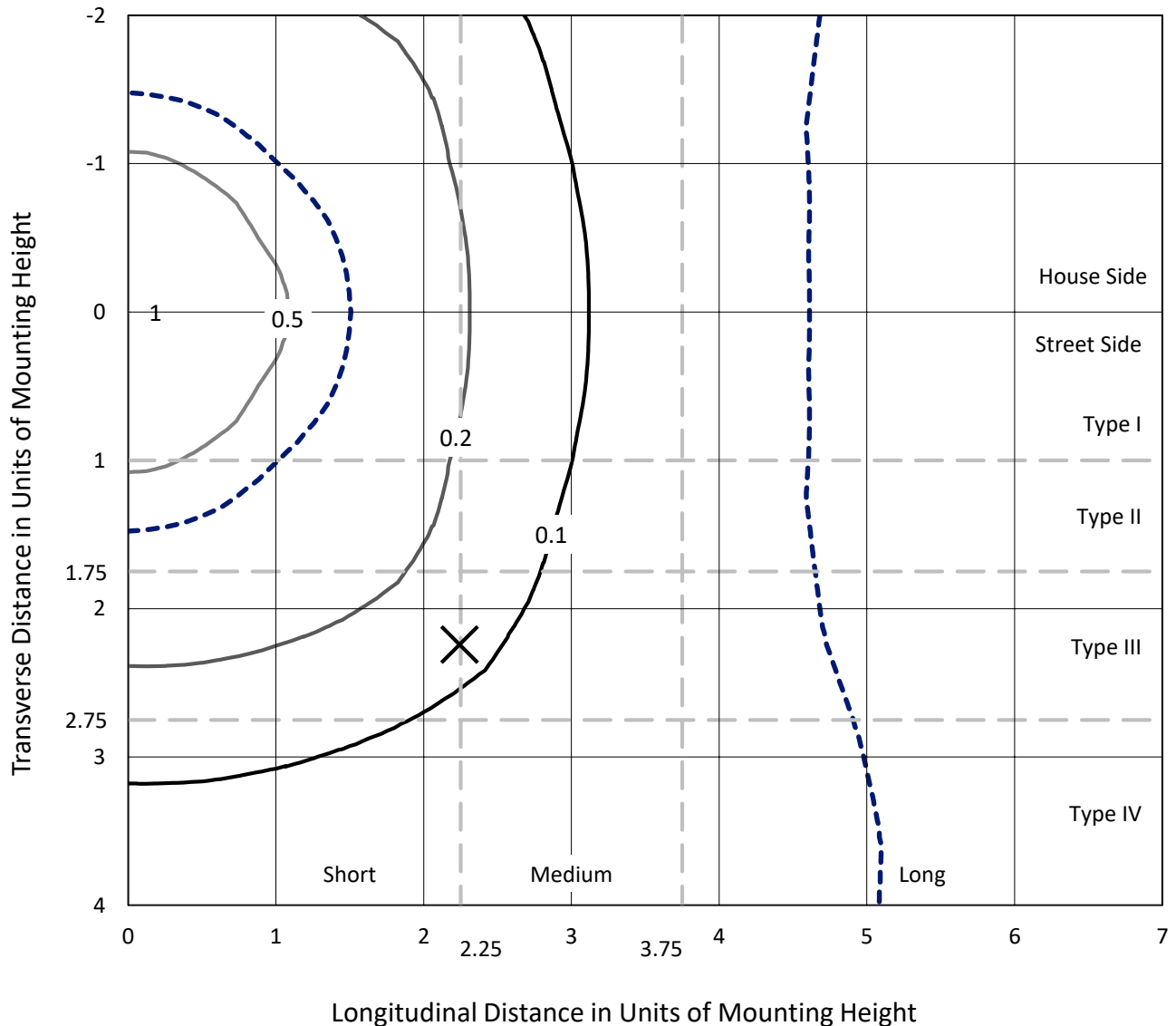


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

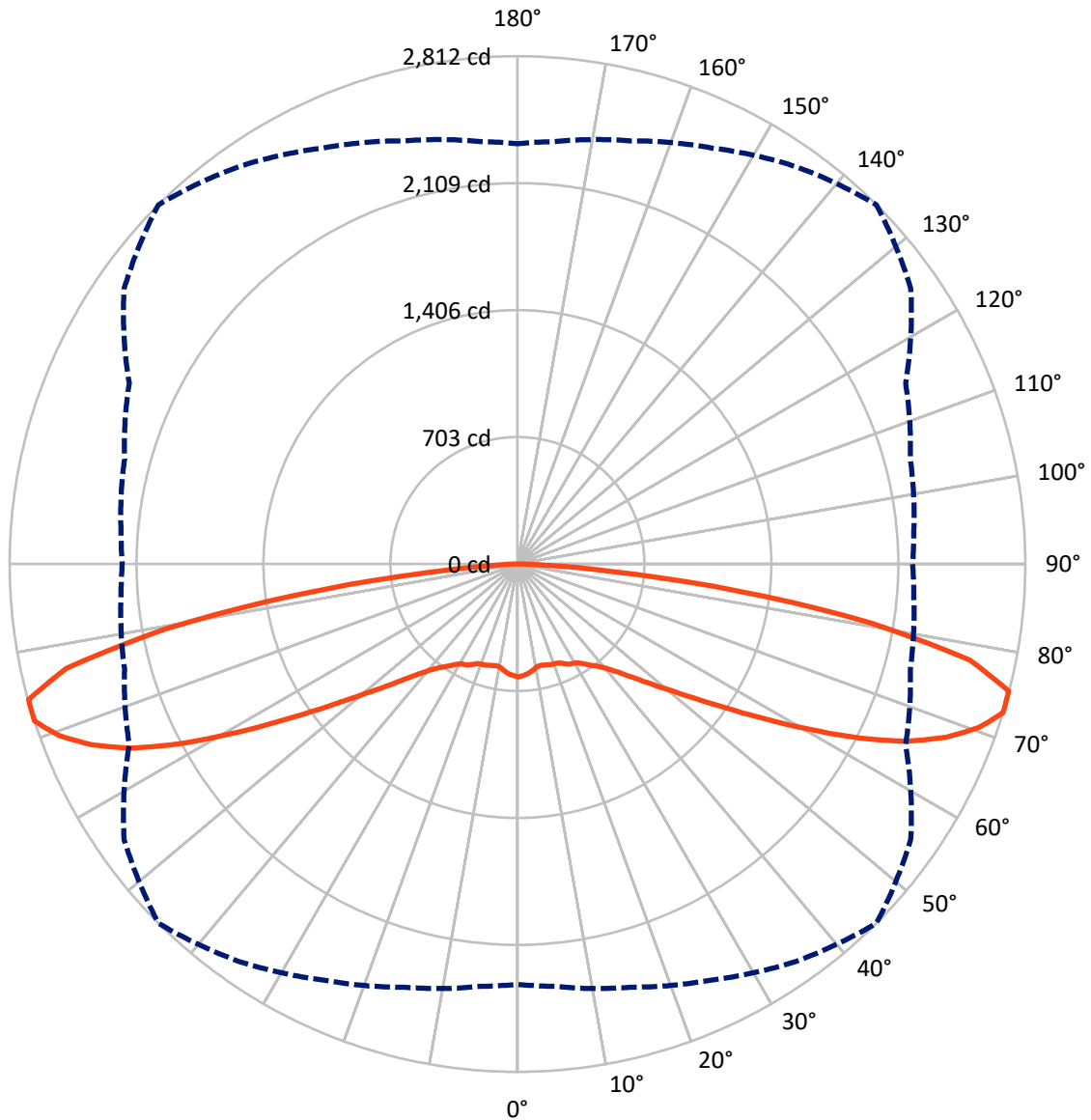


Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - Non-Cutoff

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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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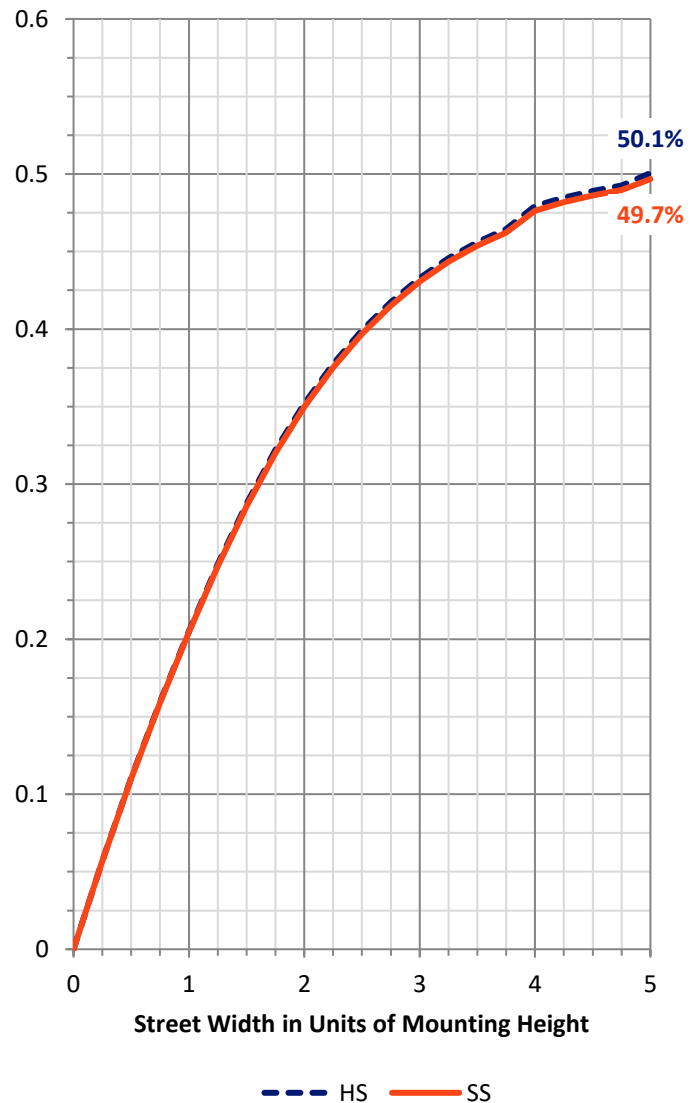
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3782.5	0.0	3782.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3782.5	0.0	3782.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7565.0	0.0	7565.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	0.8
10°-20°	166.6	2.2
20°-30°	283.1	3.7
30°-40°	431.8	5.7
40°-50°	711.1	9.4
50°-60°	1241.7	16.4
60°-70°	2081.8	27.5
70°-80°	2228.0	29.5
80°-90°	363.4	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°	7565.0	100.0
0°-180°	7565.0	100.0



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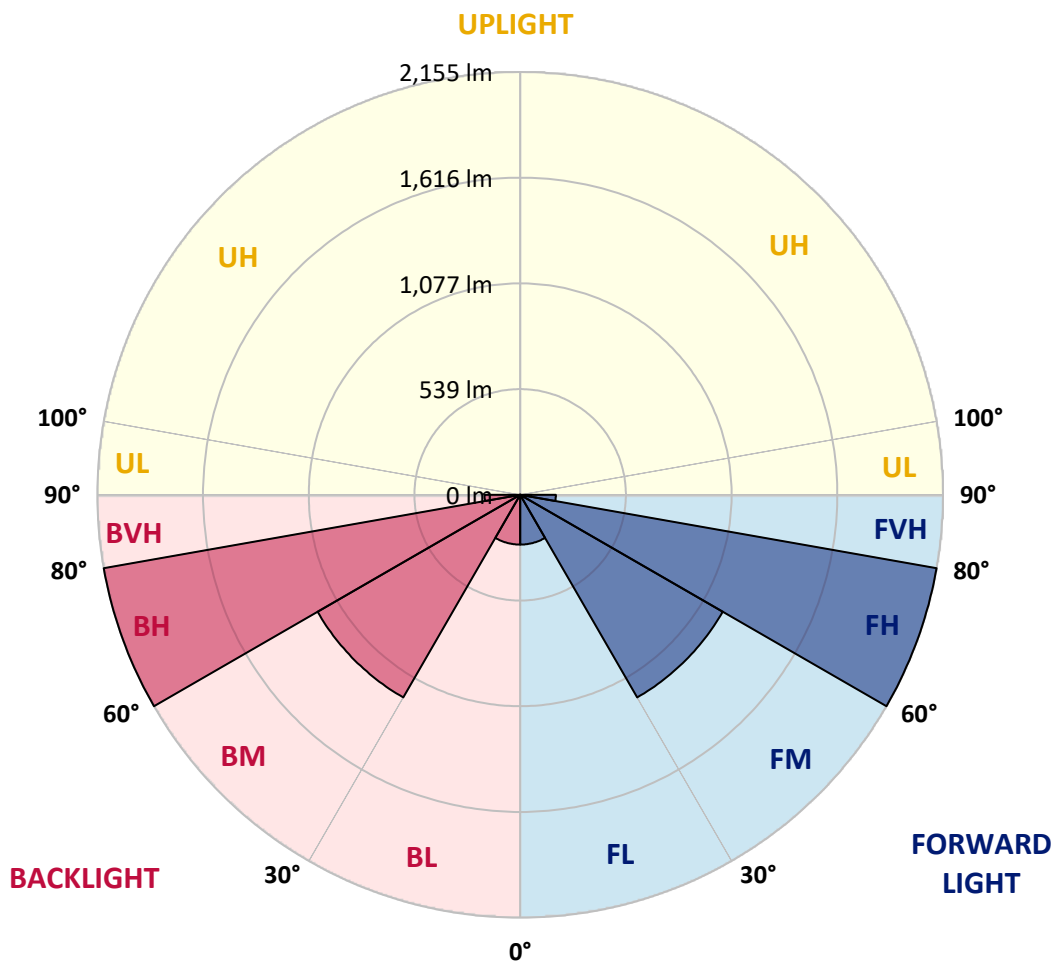
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.6	3.4			
FM	(30°-60°)	1192.3	15.8			
FH	(60°-80°)	2154.9	28.5			G2/5000
FVH	(80°-90°)	181.7	2.4			G2/225
BL	(0°-30°)	253.6	3.4	B1/500		
BM	(30°-60°)	1192.3	15.8	B2/2500		
BH	(60°-80°)	2154.9	28.5	B3/2500		G2/5000
BVH	(80°-90°)	181.7	2.4			G2/225
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°	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0	626.0
2.5°	622.1	622.1	622.1	621.2	619.2	618.3	616.4	617.3	617.3	617.3	617.3
5°	614.4	614.4	613.5	612.5	610.6	609.6	607.7	609.6	609.6	609.6	609.6
7.5°	599.9	600.9	600.9	599.9	597.0	596.1	593.2	594.1	594.1	595.1	594.1
10°	592.2	592.2	591.2	586.4	581.6	579.6	578.7	581.6	584.5	587.4	587.4
12.5°	592.2	592.2	590.3	582.5	575.8	575.8	575.8	579.6	585.4	591.2	592.2
15°	595.1	595.1	591.2	582.5	578.7	579.6	579.6	583.5	590.3	598.0	599.0
17.5°	597.0	597.0	592.2	583.5	583.5	586.4	584.5	587.4	594.1	602.8	603.8
20°	599.9	599.9	593.2	586.4	586.4	589.3	589.3	592.2	598.0	606.7	607.7
22.5°	605.7	604.8	598.0	592.2	592.2	594.1	596.1	599.9	604.8	612.5	614.4
25°	612.5	612.5	606.7	605.7	607.7	612.5	611.5	610.6	612.5	619.2	622.1
27.5°	616.4	616.4	612.5	615.4	623.1	627.0	622.1	618.3	618.3	625.0	626.0
30°	628.9	627.9	624.1	626.0	632.8	634.7	631.8	627.0	629.9	637.6	638.6
32.5°	650.2	650.2	644.4	644.4	649.2	656.9	647.3	644.4	648.2	656.9	657.9
35°	683.0	683.0	675.3	671.4	675.3	685.9	671.4	670.5	677.2	686.9	687.8
37.5°	724.6	724.6	719.7	710.1	711.0	717.8	705.2	704.3	716.8	727.4	727.4
40°	776.7	779.6	774.8	763.2	759.3	760.3	750.6	751.6	766.1	778.7	778.7
42.5°	841.4	843.4	835.6	827.0	822.1	819.2	809.6	811.5	828.9	845.3	845.3
45°	919.7	920.7	912.9	902.3	896.5	894.6	884.9	889.7	909.1	926.5	925.5
47.5°	1007.6	1008.6	1000.8	990.2	986.4	989.3	979.6	979.6	997.0	1011.5	1009.5
50°	1107.1	1109.0	1100.4	1095.5	1092.6	1100.4	1088.8	1078.1	1089.7	1104.2	1102.3
52.5°	1217.2	1222.1	1216.3	1218.2	1228.8	1238.5	1219.2	1196.0	1201.8	1211.4	1208.6
55°	1350.6	1356.4	1358.3	1365.1	1393.1	1409.5	1377.6	1339.0	1336.1	1337.0	1332.2
57.5°	1500.3	1504.2	1516.7	1532.2	1590.1	1616.2	1566.0	1499.3	1478.1	1465.5	1462.6
60°	1651.0	1657.8	1688.7	1720.6	1809.4	1856.8	1779.5	1667.4	1622.0	1598.8	1594.0
62.5°	1802.7	1816.2	1866.4	1920.5	2050.0	2120.5	2001.7	1839.4	1773.7	1744.7	1737.0
65°	1978.5	1994.9	2055.8	2124.4	2268.3	2367.8	2223.9	2017.2	1946.6	1908.0	1898.3
67.5°	2184.3	2201.7	2250.9	2327.3	2463.5	2561.0	2433.5	2198.8	2107.0	2057.7	2050.0
70°	2353.3	2368.8	2421.9	2499.2	2600.7	2711.8	2590.0	2343.7	2260.6	2225.8	2221.0
72.5°	2327.3	2347.5	2425.8	2541.7	2686.6	2812.2	2658.6	2371.7	2251.9	2203.6	2188.1
75°	2032.6	2054.8	2147.6	2357.2	2621.9	2809.3	2559.1	2185.2	2044.2	2003.6	1995.9
77.5°	1345.7	1367.0	1523.5	1853.9	2289.6	2560.1	2258.7	1830.7	1603.7	1506.1	1500.3
80°	543.9	570.9	720.7	1071.4	1623.0	1990.1	1675.2	1171.8	790.2	637.6	606.7
82.5°	126.6	150.7	219.3	395.1	830.8	1239.5	903.3	437.6	254.1	180.7	162.3
85°	53.1	54.1	93.7	128.5	259.9	500.4	295.6	159.4	129.5	94.7	92.7
87.5°	20.3	21.3	45.4	54.1	83.1	94.7	100.5	82.1	76.3	47.3	45.4
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)