

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: P397868

Luminaire Tested: **ARCH-S-PA1-50-827-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397868
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-PA1-50-827-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5910 lumens
Efficiency: N/A
Efficacy: 109.4 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): 54
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

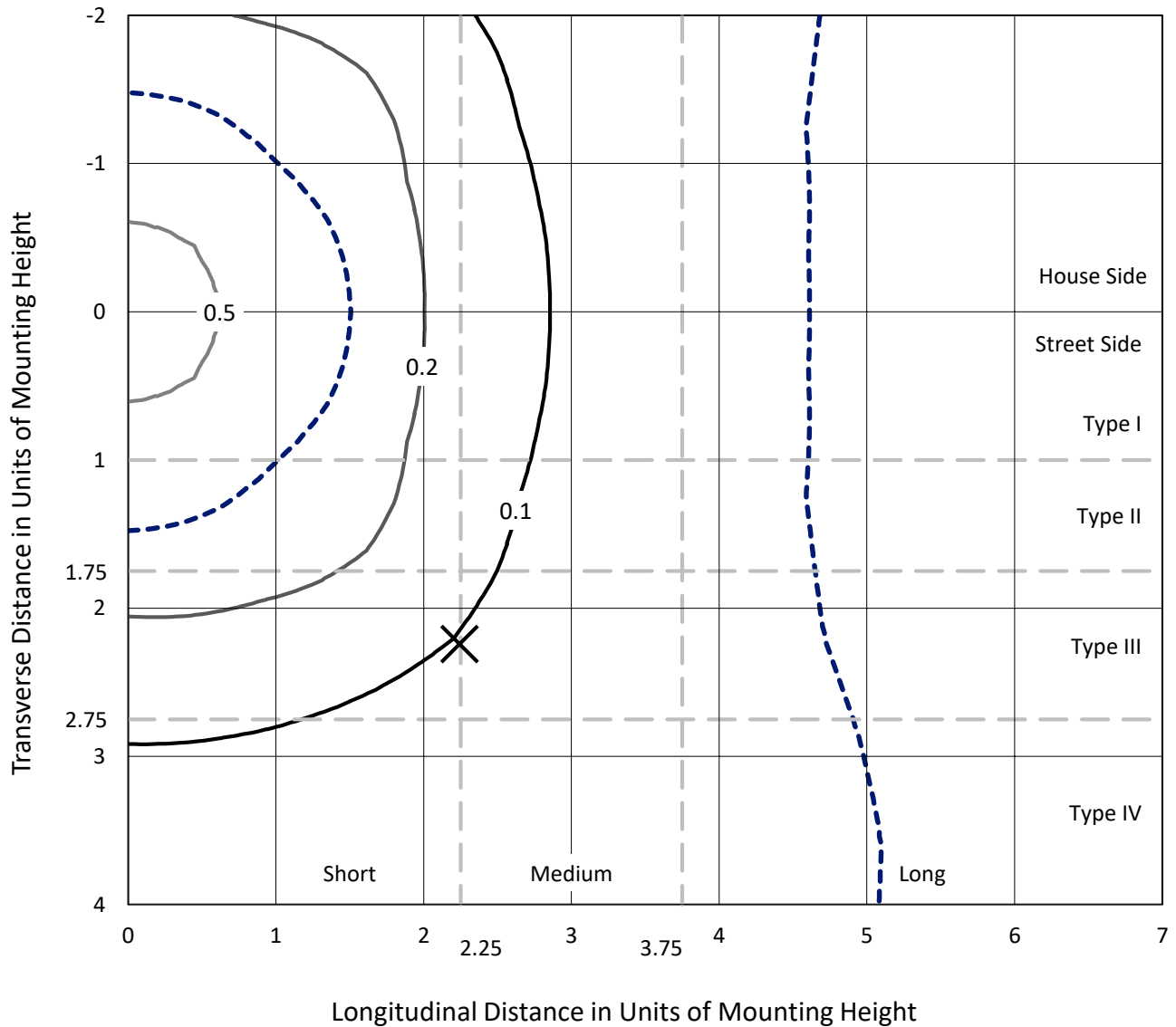


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

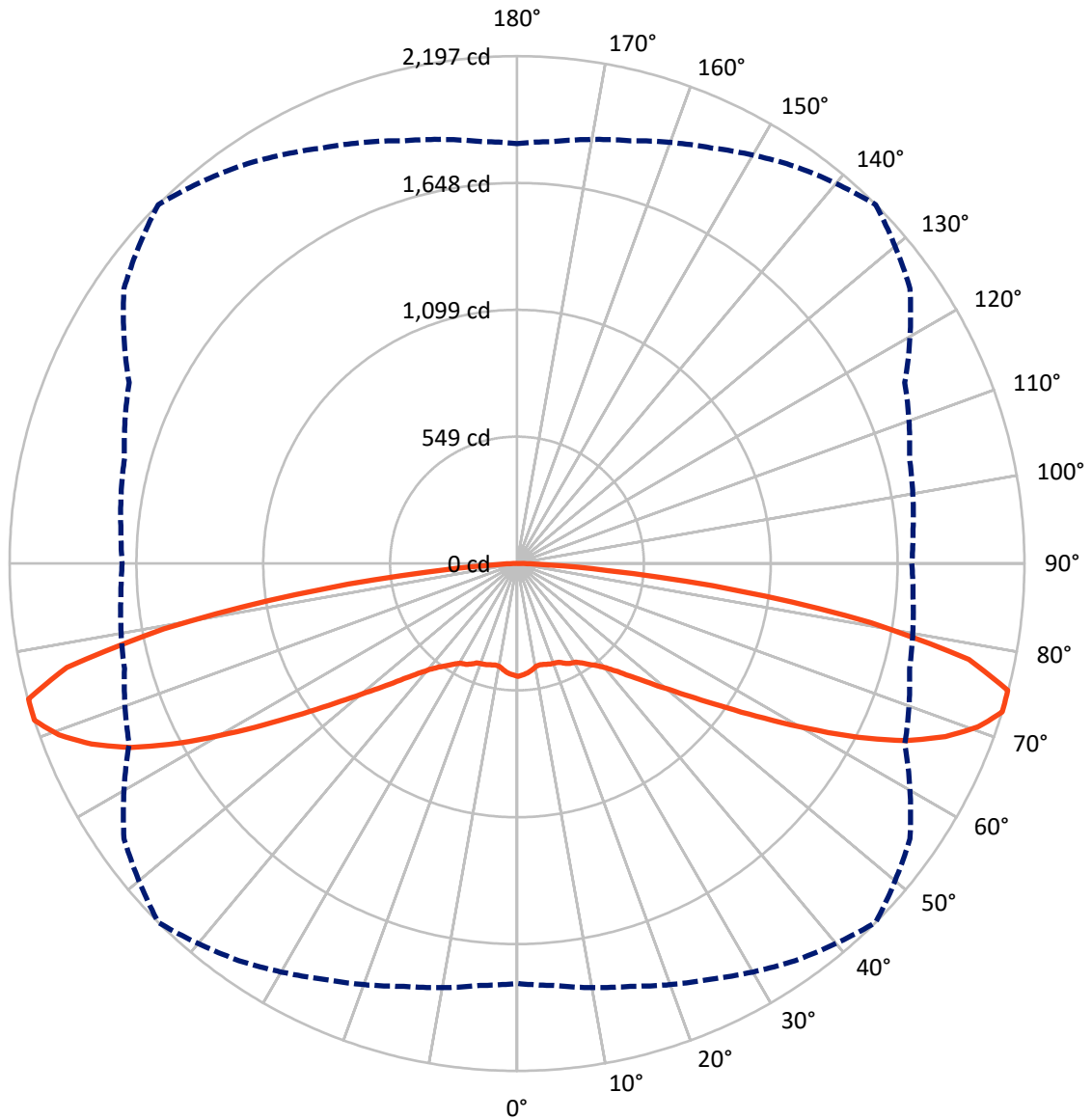


Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - Non-Cutoff

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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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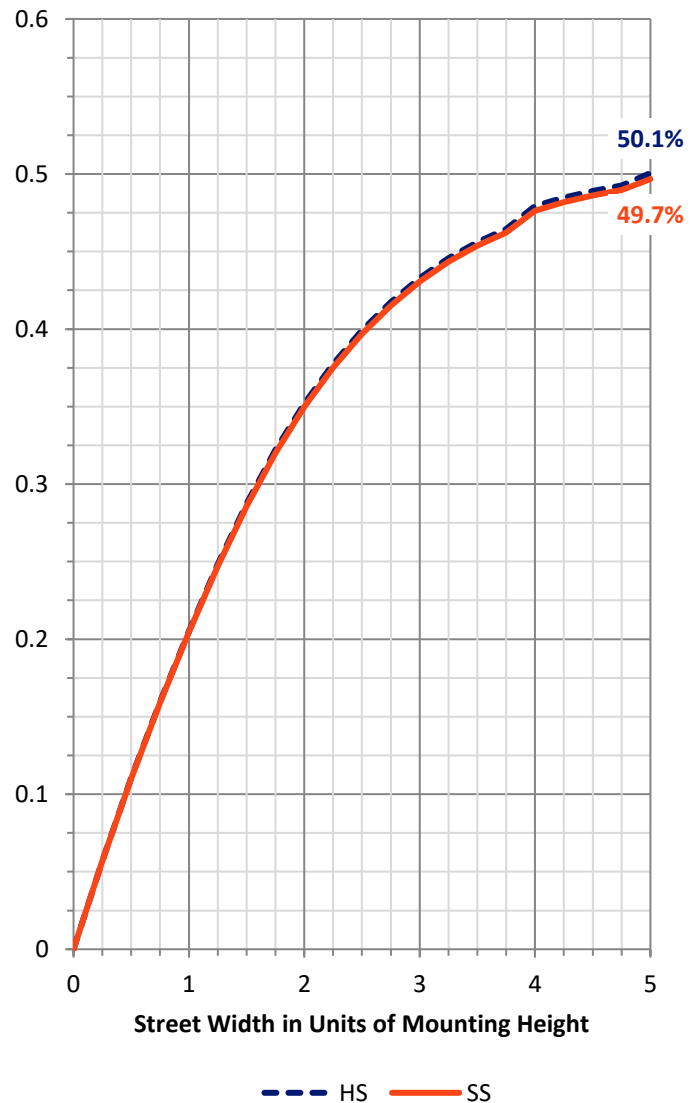
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2955.0	0.0	2955.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2955.0	0.0	2955.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5910.0	0.0	5910.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	0.8
10°-20°	130.2	2.2
20°-30°	221.2	3.7
30°-40°	337.4	5.7
40°-50°	555.5	9.4
50°-60°	970.1	16.4
60°-70°	1626.4	27.5
70°-80°	1740.6	29.5
80°-90°	283.9	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°	5910.0	100.0
0°-180°	5910.0	100.0



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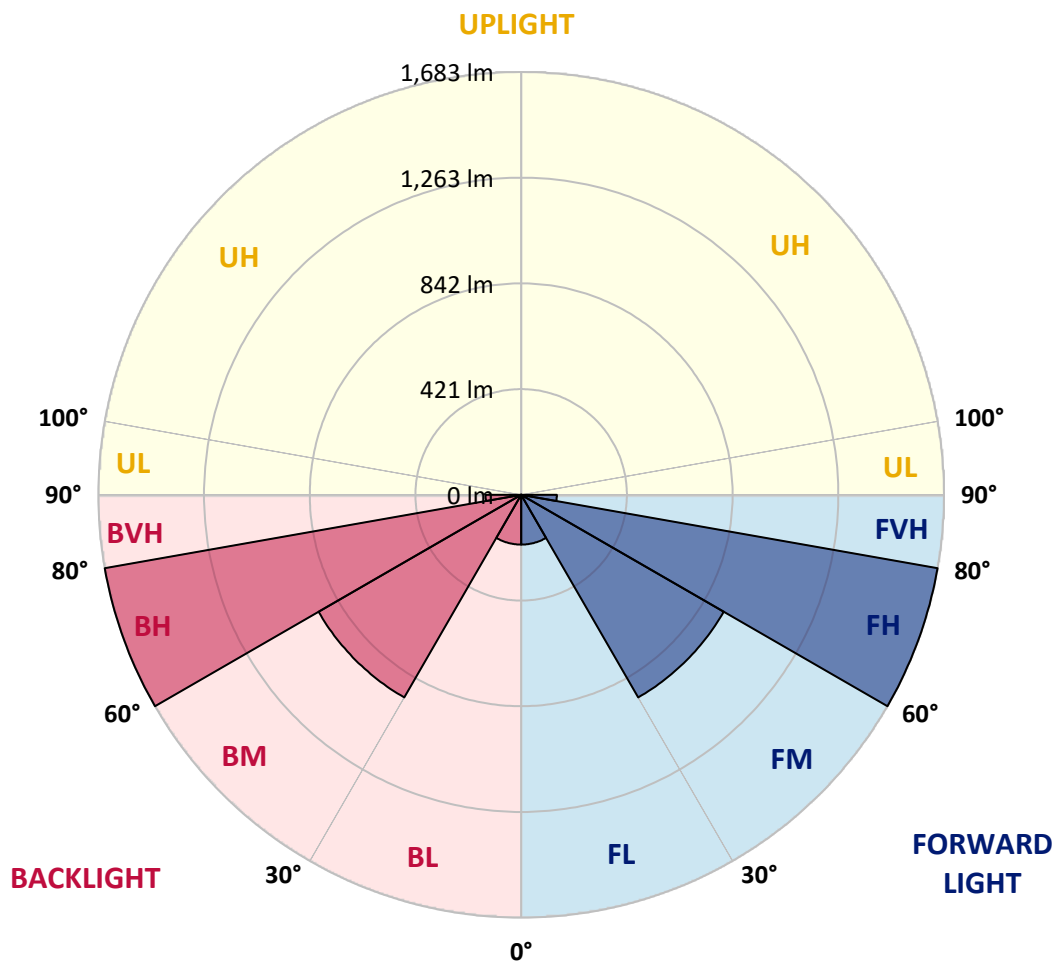
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.1	3.4			
FM (30°-60°)	931.5	15.8			
FH (60°-80°)	1683.5	28.5			G1/1800
FVH (80°-90°)	141.9	2.4			G2/225
BL (0°-30°)	198.1	3.4	B1/500		
BM (30°-60°)	931.5	15.8	B1/1000		
BH (60°-80°)	1683.5	28.5	B3/2500		G1/1800
BVH (80°-90°)	141.9	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°	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1	489.1
2.5°	486.0	486.0	486.0	485.3	483.8	483.0	481.5	482.3	482.3	482.3	482.3
5°	480.0	480.0	479.2	478.5	477.0	476.2	474.7	476.2	476.2	476.2	476.2
7.5°	468.7	469.4	469.4	468.7	466.4	465.7	463.4	464.2	464.2	464.9	464.2
10°	462.6	462.6	461.9	458.1	454.3	452.8	452.1	454.3	456.6	458.9	458.9
12.5°	462.6	462.6	461.1	455.1	449.8	449.8	449.8	452.8	457.4	461.9	462.6
15°	464.9	464.9	461.9	455.1	452.1	452.8	452.8	455.9	461.1	467.2	467.9
17.5°	466.4	466.4	462.6	455.9	455.9	458.1	456.6	458.9	464.2	470.9	471.7
20°	468.7	468.7	463.4	458.1	458.1	460.4	460.4	462.6	467.2	474.0	474.7
22.5°	473.2	472.5	467.2	462.6	462.6	464.2	465.7	468.7	472.5	478.5	480.0
25°	478.5	478.5	474.0	473.2	474.7	478.5	477.7	477.0	478.5	483.8	486.0
27.5°	481.5	481.5	478.5	480.8	486.8	489.8	486.0	483.0	483.0	488.3	489.1
30°	491.3	490.6	487.5	489.1	494.3	495.9	493.6	489.8	492.1	498.1	498.9
32.5°	507.9	507.9	503.4	503.4	507.2	513.2	505.7	503.4	506.4	513.2	514.0
35°	533.6	533.6	527.5	524.5	527.5	535.9	524.5	523.8	529.1	536.6	537.4
37.5°	566.0	566.0	562.3	554.7	555.5	560.8	550.9	550.2	560.0	568.3	568.3
40°	606.8	609.1	605.3	596.2	593.2	594.0	586.4	587.2	598.5	608.3	608.3
42.5°	657.4	658.9	652.8	646.0	642.3	640.0	632.5	634.0	647.6	660.4	660.4
45°	718.5	719.2	713.2	704.9	700.4	698.9	691.3	695.1	710.2	723.8	723.0
47.5°	787.2	787.9	781.9	773.6	770.6	772.8	765.3	765.3	778.9	790.2	788.7
50°	864.9	866.4	859.6	855.9	853.6	859.6	850.6	842.3	851.3	862.6	861.1
52.5°	950.9	954.7	950.2	951.7	960.0	967.6	952.5	934.3	938.9	946.4	944.2
55°	1055.1	1059.6	1061.1	1066.4	1088.3	1101.1	1076.2	1046.0	1043.8	1044.5	1040.8
57.5°	1172.1	1175.1	1184.9	1197.0	1242.3	1262.6	1223.4	1171.3	1154.7	1144.9	1142.6
60°	1289.8	1295.1	1319.3	1344.2	1413.6	1450.6	1390.2	1302.6	1267.2	1249.1	1245.3
62.5°	1408.3	1418.9	1458.1	1500.4	1601.5	1656.6	1563.8	1437.0	1385.7	1363.0	1357.0
65°	1545.7	1558.5	1606.0	1659.6	1772.1	1849.8	1737.4	1575.9	1520.8	1490.6	1483.0
67.5°	1706.4	1720.0	1758.5	1818.1	1924.5	2000.8	1901.1	1717.7	1646.0	1607.6	1601.5
70°	1838.5	1850.6	1892.1	1952.5	2031.7	2118.5	2023.4	1831.0	1766.0	1738.9	1735.1
72.5°	1818.1	1834.0	1895.1	1985.7	2098.9	2197.0	2077.0	1852.8	1759.3	1721.5	1709.4
75°	1587.9	1605.3	1677.7	1841.5	2048.3	2194.7	1999.3	1707.2	1597.0	1565.3	1559.3
77.5°	1051.3	1067.9	1190.2	1448.3	1788.7	2000.0	1764.5	1430.2	1252.8	1176.6	1172.1
80°	424.9	446.0	563.0	837.0	1267.9	1554.7	1308.7	915.5	617.4	498.1	474.0
82.5°	98.9	117.7	171.3	308.7	649.1	968.3	705.7	341.9	198.5	141.1	126.8
85°	41.5	42.3	73.2	100.4	203.0	390.9	230.9	124.5	101.1	74.0	72.5
87.5°	15.8	16.6	35.5	42.3	64.9	74.0	78.5	64.2	59.6	37.0	35.5
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)