

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: P348699

Luminaire Tested: **ARCH-N-PA1-50-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-50-727-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 980mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5817 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

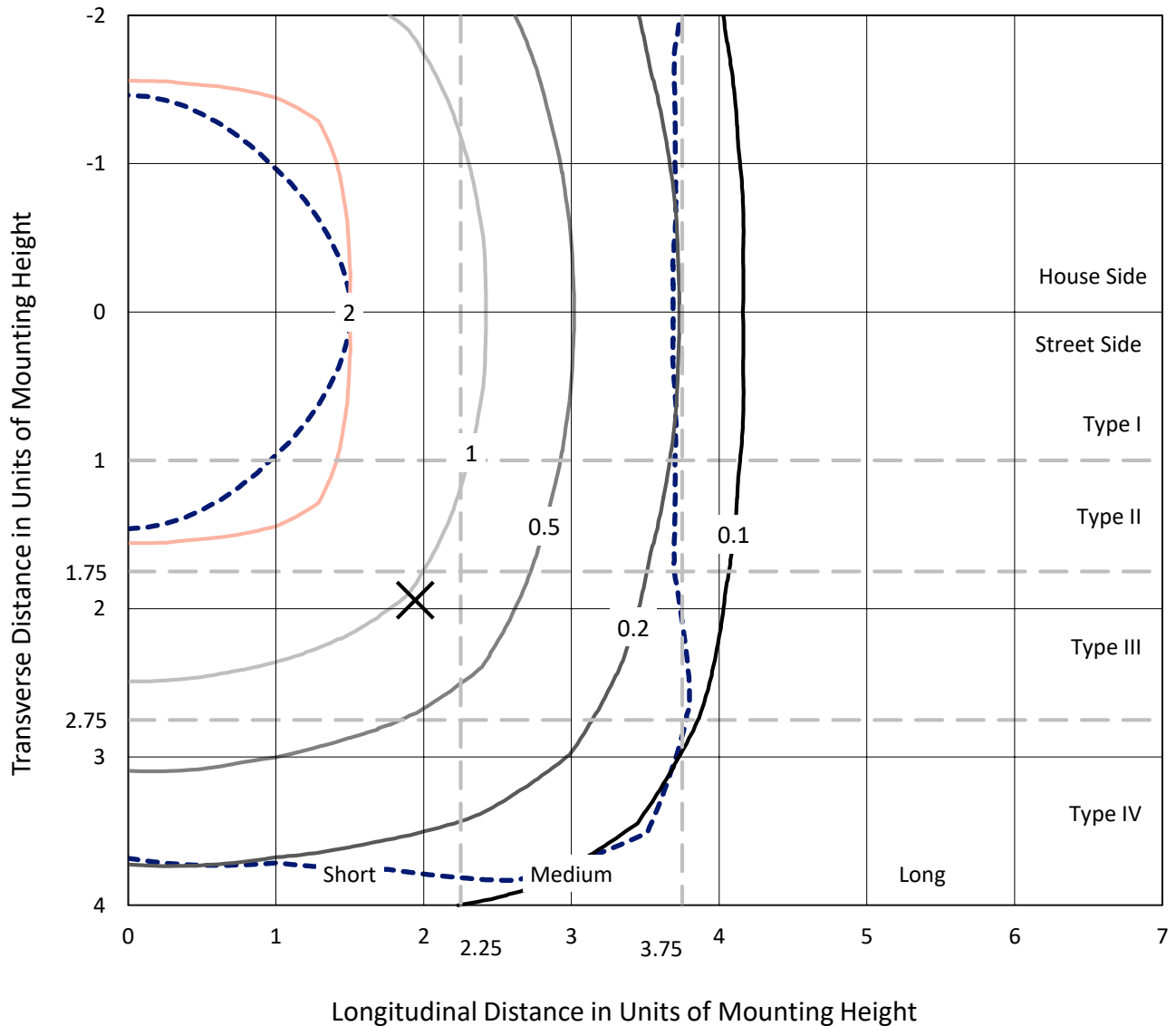
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

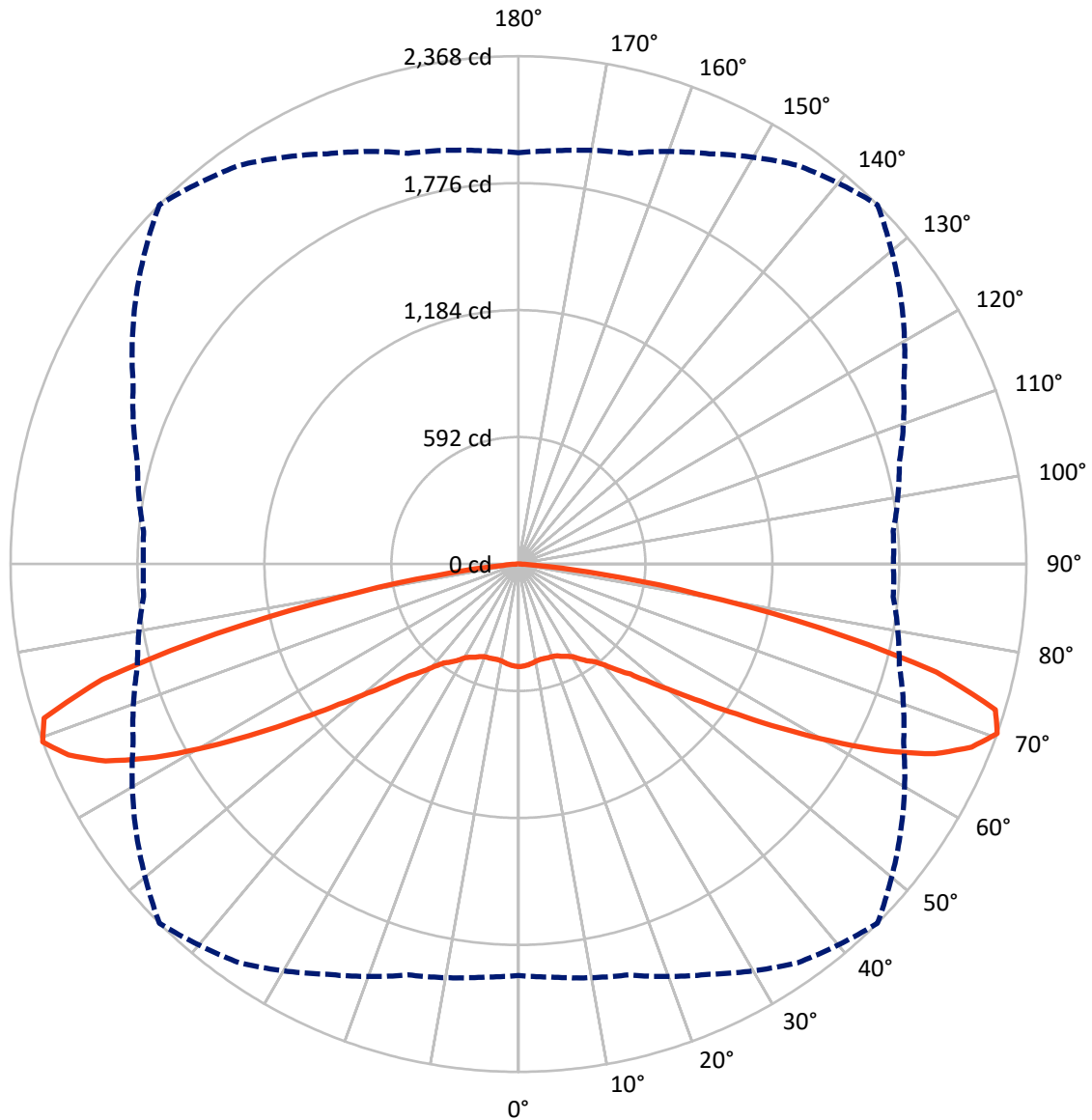
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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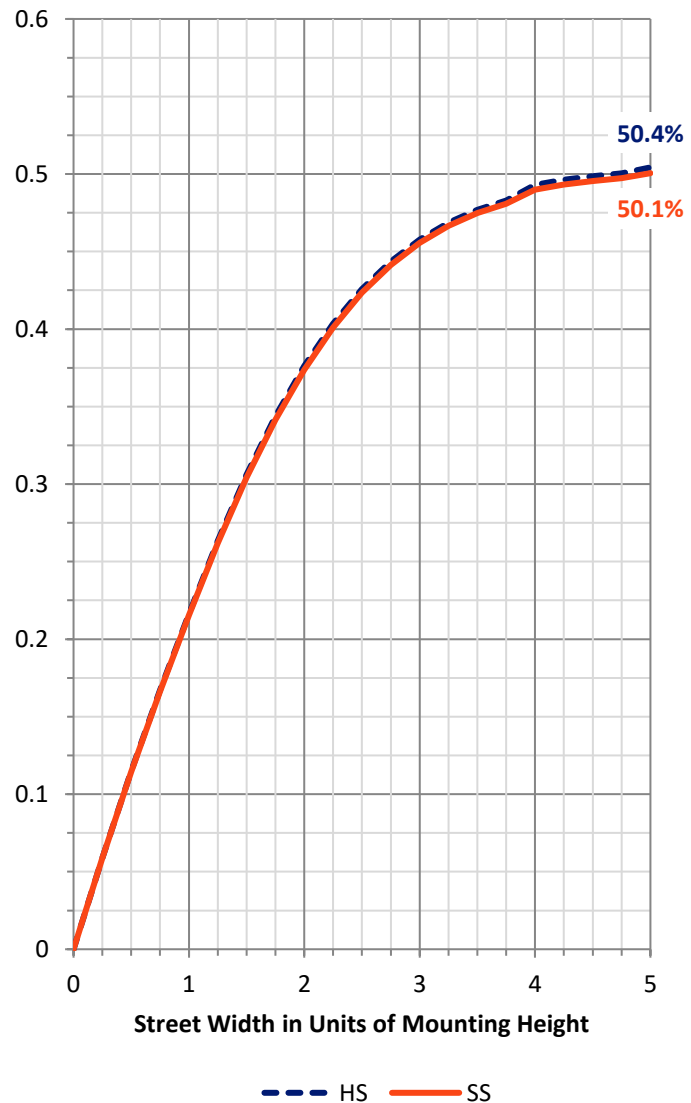
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2908.5	0.0	2908.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2908.5	0.0	2908.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5817.0	0.0	5817.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	0.8
10°-20°	130.5	2.2
20°-30°	222.5	3.8
30°-40°	347.7	6.0
40°-50°	589.3	10.1
50°-60°	1074.6	18.5
60°-70°	1850.0	31.8
70°-80°	1450.1	24.9
80°-90°	107.5	1.8
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°	5817.0	100.0
0°-180°	5817.0	100.0



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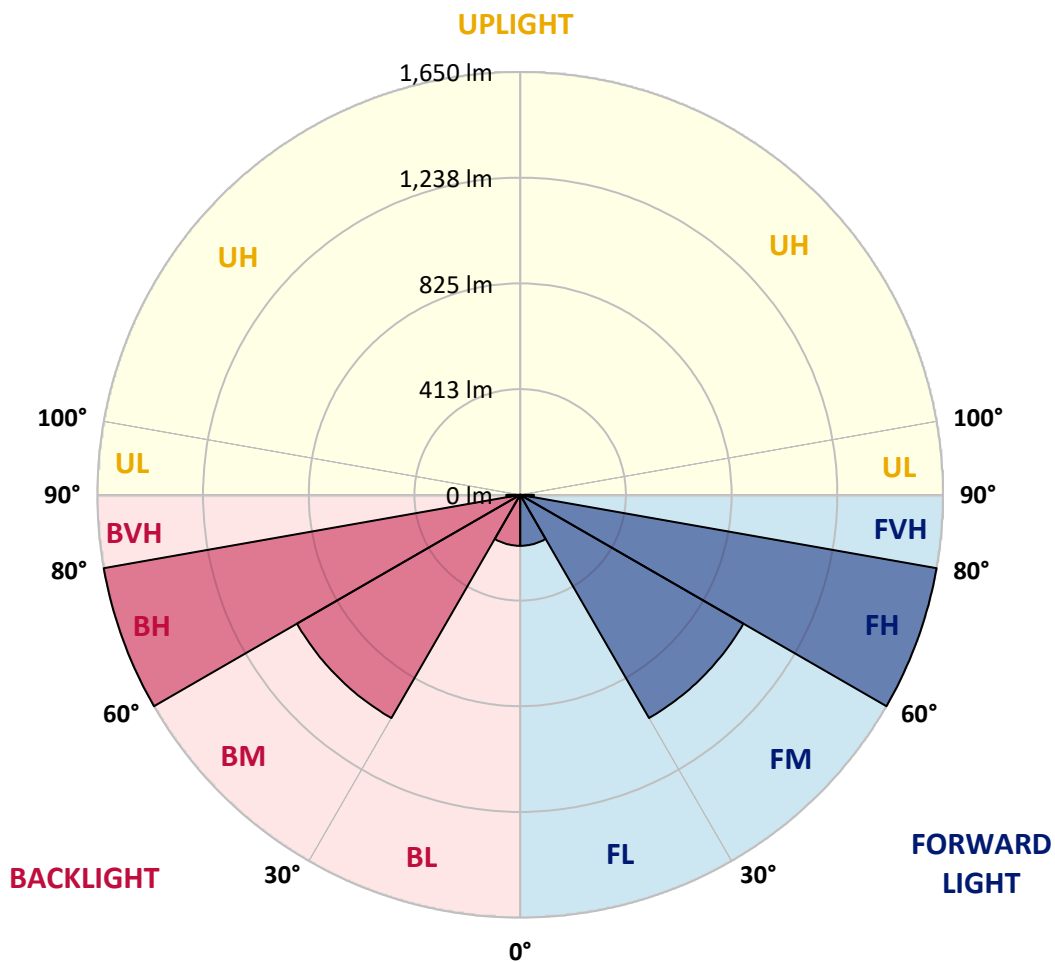
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	198.9	3.4			
FM (30°-60°)	1005.8	17.3			
FH (60°-80°)	1650.1	28.4			G1/1800
FVH (80°-90°)	53.8	0.9			G1/100
BL (0°-30°)	198.9	3.4	B1/500		
BM (30°-60°)	1005.8	17.3	B2/2500		
BH (60°-80°)	1650.1	28.4	B3/2500		G1/1800
BVH (80°-90°)	53.8	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	478.7	478.7	478.7	478.7	478.7	478.7	478.7	478.7	478.7	478.7	478.7
2.5°	476.6	477.2	476.6	477.0	476.0	476.4	476.4	476.4	476.2	476.4	476.0
5°	472.4	472.8	472.0	472.4	471.8	472.4	472.6	472.4	472.0	472.2	471.4
7.5°	466.0	466.4	465.8	466.4	465.7	466.6	466.4	465.8	465.3	465.3	464.5
10°	462.6	462.8	461.2	460.7	458.9	459.3	459.9	460.5	461.0	462.2	462.0
12.5°	462.8	462.8	460.5	458.0	455.5	456.0	457.0	459.1	461.4	463.5	463.7
15°	464.7	464.5	461.0	457.0	455.3	457.0	457.6	458.9	462.6	466.2	466.4
17.5°	466.0	466.0	460.7	456.0	455.8	458.5	458.3	458.9	463.0	468.3	468.5
20°	468.5	468.5	461.6	456.6	456.6	459.5	459.7	460.7	464.7	470.7	471.6
22.5°	474.1	474.3	467.0	463.0	463.3	465.1	465.7	467.2	470.9	477.4	478.5
25°	482.0	482.4	474.9	472.6	473.9	477.2	476.8	478.0	482.0	488.4	489.5
27.5°	493.0	492.0	485.1	484.1	485.5	487.8	487.6	487.8	491.1	496.8	498.2
30°	507.2	506.8	501.8	502.4	501.8	501.1	501.3	502.8	504.5	509.1	510.5
32.5°	521.1	521.5	518.4	521.3	525.5	528.4	524.0	519.7	517.8	520.3	521.5
35°	546.1	547.0	542.2	540.3	546.1	554.6	542.0	535.1	539.0	542.2	543.2
37.5°	588.6	589.2	581.1	573.4	569.2	577.3	564.8	565.3	578.8	585.0	584.8
40°	637.1	637.3	631.9	625.2	617.9	619.8	614.8	616.3	625.2	630.8	632.3
42.5°	694.8	694.2	685.8	676.2	674.0	676.0	667.5	666.3	676.5	686.6	686.7
45°	769.7	768.3	757.4	746.8	736.6	732.3	730.2	735.8	749.9	759.1	759.3
47.5°	850.3	846.6	840.9	832.4	823.6	819.3	815.9	818.6	828.8	832.4	832.8
50°	933.2	934.0	935.2	931.9	928.6	927.3	918.2	913.0	916.1	909.4	908.4
52.5°	1031.6	1033.1	1044.3	1053.7	1059.3	1062.2	1045.0	1027.1	1017.1	1004.0	1000.2
55°	1147.6	1150.1	1166.4	1192.6	1219.6	1233.8	1202.8	1169.3	1138.4	1113.9	1106.0
57.5°	1276.9	1281.3	1303.8	1354.1	1409.3	1443.0	1390.6	1329.8	1270.0	1234.8	1228.6
60°	1428.5	1432.8	1463.9	1535.9	1625.4	1676.0	1596.7	1497.2	1422.8	1389.1	1377.7
62.5°	1609.0	1609.4	1647.7	1731.8	1849.9	1920.3	1813.0	1680.0	1603.2	1562.6	1551.7
65°	1803.2	1804.1	1843.8	1934.6	2056.8	2133.4	2012.1	1873.6	1779.7	1719.8	1711.4
67.5°	1940.4	1944.4	1986.2	2095.4	2209.7	2278.8	2153.4	1996.7	1888.2	1816.8	1809.7
70°	1918.4	1934.2	1983.3	2110.8	2269.8	2368.3	2176.3	1982.1	1839.0	1754.7	1748.7
72.5°	1673.1	1703.3	1768.7	1936.1	2190.3	2326.0	2051.4	1775.3	1613.2	1541.5	1530.7
75°	1139.3	1188.4	1287.1	1528.6	1871.3	2013.9	1727.0	1415.4	1263.0	1163.8	1156.4
77.5°	508.0	519.1	644.2	922.3	1291.3	1446.2	1254.8	925.9	695.0	554.4	524.7
80°	141.6	143.4	191.3	343.5	646.3	849.7	693.9	360.8	202.8	143.0	134.7
82.5°	45.0	48.9	59.7	89.1	217.2	387.7	223.0	96.2	68.5	54.6	49.3
85°	21.9	21.7	30.2	36.2	55.4	85.8	59.1	44.6	39.1	26.0	23.5
87.5°	9.2	9.4	14.0	12.7	16.2	13.9	19.0	20.0	21.0	11.5	10.0
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)