

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: P348706

Luminaire Tested: **ARCH-N-PA1-50-730-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348706
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-PA1-50-730-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 980mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6334 lumens
Efficiency: N/A
Efficacy: 121.8 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

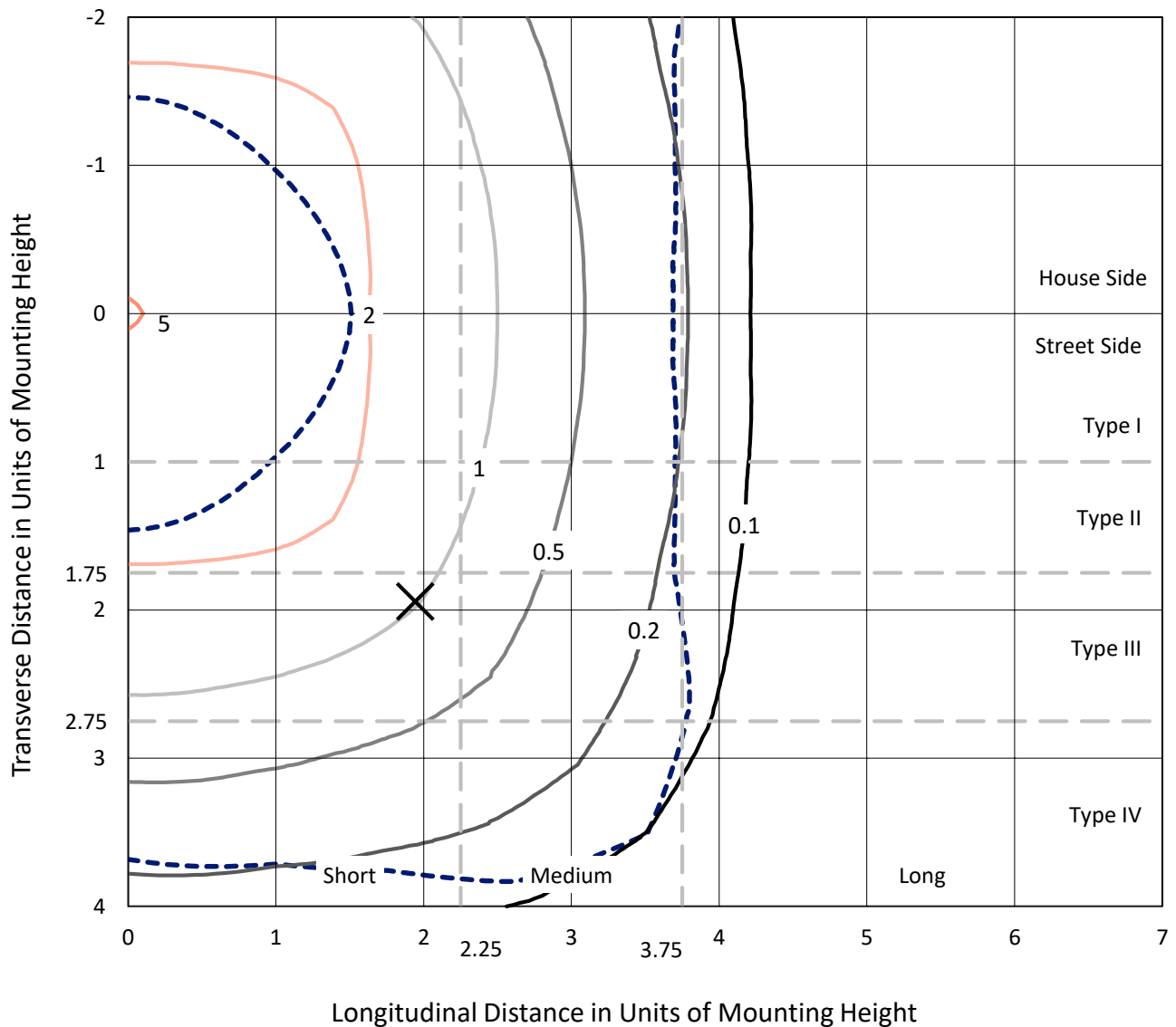
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

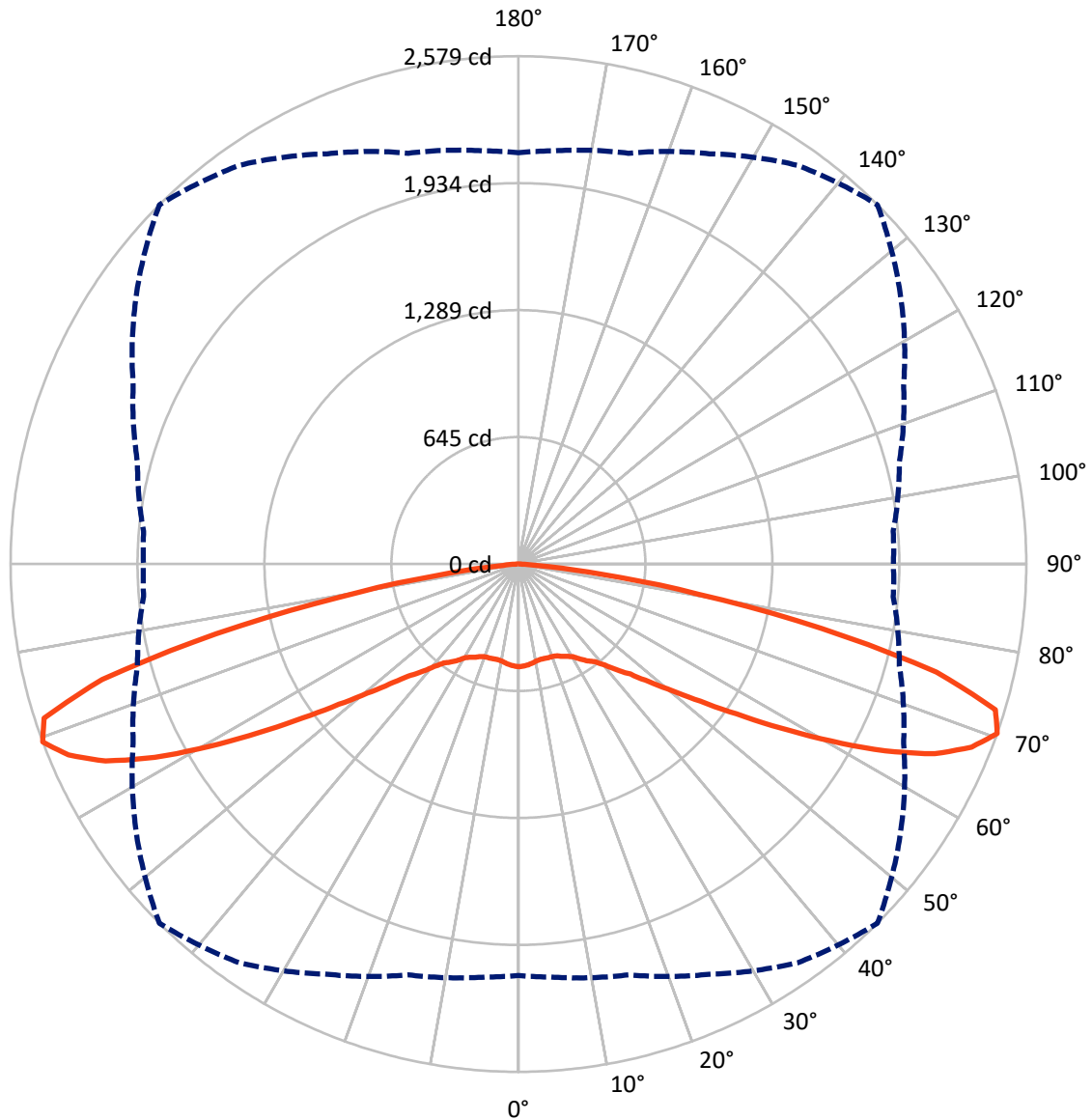
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 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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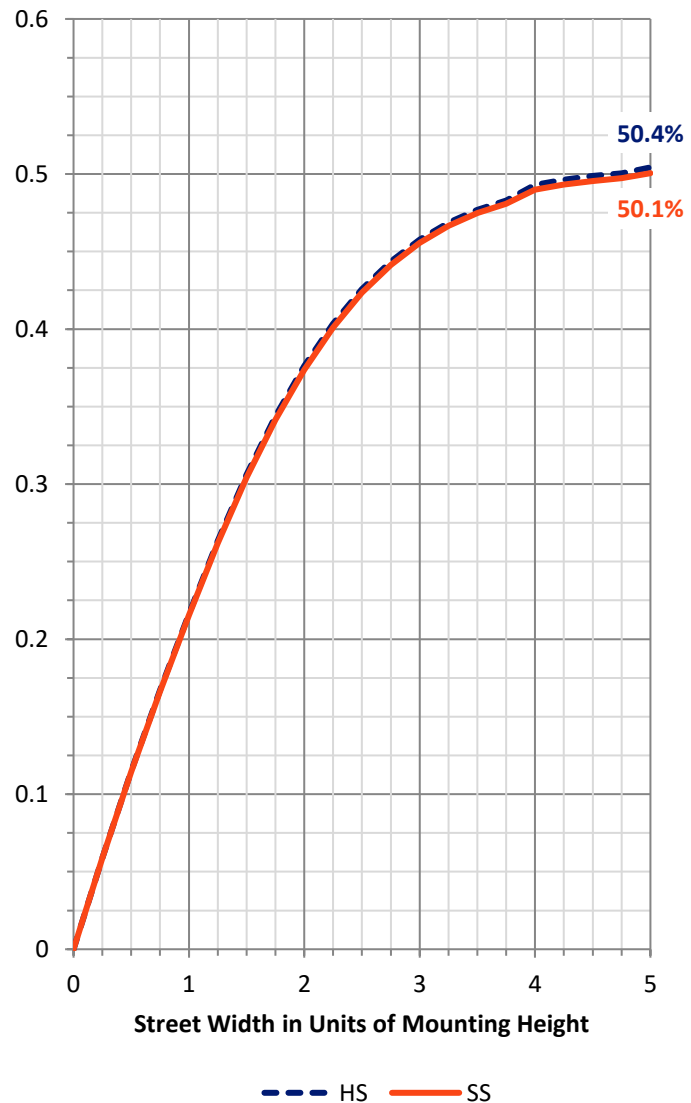
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3167.0	0.0	3167.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3167.0	0.0	3167.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6334.0	0.0	6334.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	0.8
10°-20°	142.1	2.2
20°-30°	242.3	3.8
30°-40°	378.6	6.0
40°-50°	641.7	10.1
50°-60°	1170.1	18.5
60°-70°	2014.4	31.8
70°-80°	1579.0	24.9
80°-90°	117.1	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°	6334.0	100.0
0°-180°	6334.0	100.0



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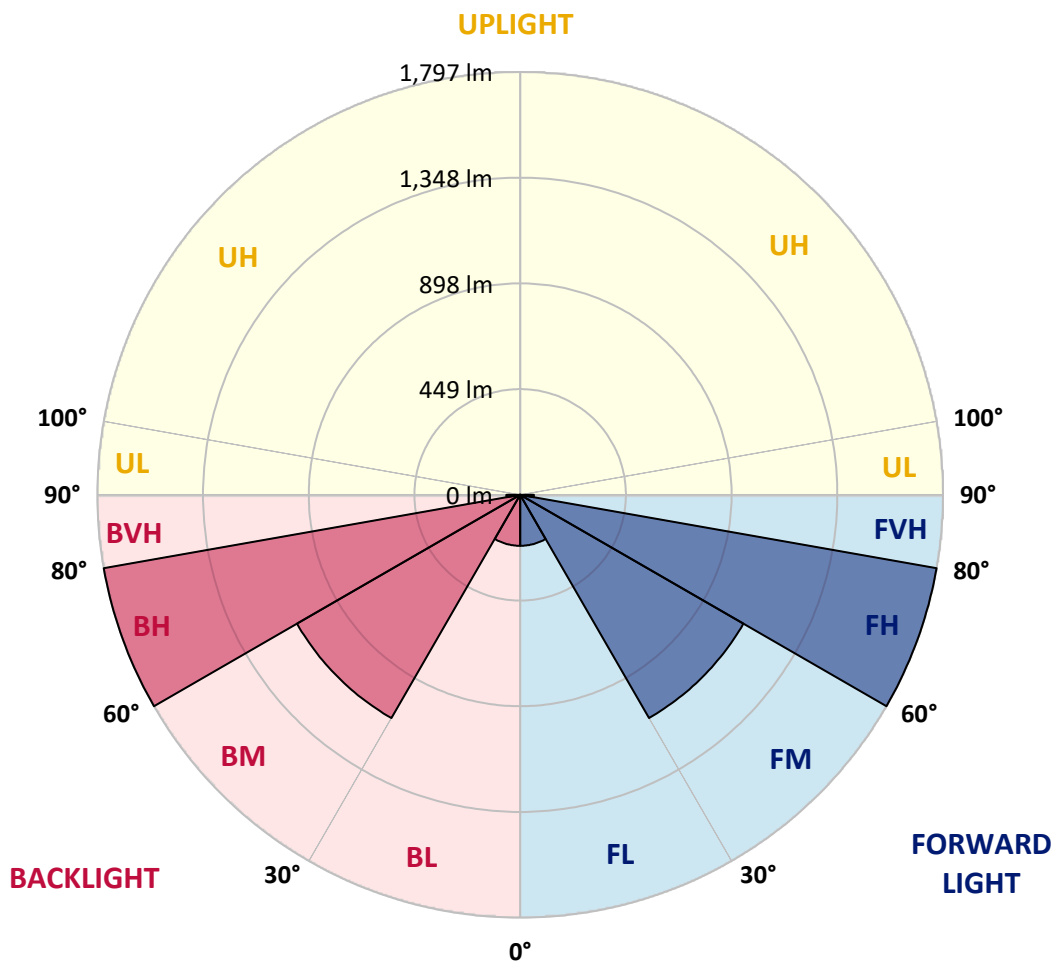
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.5	3.4			
FM (30°-60°)	1095.2	17.3			
FH (60°-80°)	1796.7	28.4			G1/1800
FVH (80°-90°)	58.5	0.9			G1/100
BL (0°-30°)	216.5	3.4	B1/500		
BM (30°-60°)	1095.2	17.3	B2/2500		
BH (60°-80°)	1796.7	28.4	B3/2500		G1/1800
BVH (80°-90°)	58.5	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°	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3
2.5°	519.0	519.6	519.0	519.4	518.4	518.8	518.8	518.8	518.6	518.8	518.4
5°	514.4	514.8	514.0	514.4	513.7	514.4	514.6	514.4	514.0	514.2	513.3
7.5°	507.5	507.9	507.3	507.9	507.0	508.1	507.9	507.3	506.6	506.6	505.8
10°	503.7	503.9	502.2	501.6	499.7	500.1	500.8	501.4	502.0	503.3	503.1
12.5°	503.9	503.9	501.4	498.7	495.9	496.6	497.6	499.9	502.4	504.7	504.9
15°	506.0	505.8	502.0	497.6	495.7	497.6	498.2	499.7	503.7	507.7	507.9
17.5°	507.5	507.5	501.6	496.6	496.4	499.3	499.1	499.7	504.1	510.0	510.2
20°	510.2	510.2	502.6	497.2	497.2	500.3	500.5	501.6	506.0	512.5	513.5
22.5°	516.3	516.5	508.5	504.1	504.5	506.4	507.0	508.7	512.7	519.8	521.1
25°	524.9	525.3	517.1	514.6	516.1	519.6	519.2	520.5	524.9	531.8	533.0
27.5°	536.8	535.7	528.2	527.2	528.6	531.1	530.9	531.1	534.7	541.0	542.5
30°	552.3	551.9	546.4	547.1	546.4	545.6	545.8	547.5	549.4	554.4	555.9
32.5°	567.4	567.8	564.5	567.6	572.2	575.3	570.5	565.9	563.8	566.5	567.8
35°	594.6	595.7	590.4	588.3	594.6	603.8	590.2	582.7	586.9	590.4	591.5
37.5°	640.9	641.6	632.8	624.4	619.8	628.6	614.9	615.6	630.2	636.9	636.7
40°	693.7	693.9	688.1	680.7	672.8	674.9	669.4	671.1	680.7	686.8	688.5
42.5°	756.6	756.0	746.7	736.3	734.0	736.0	726.8	725.6	736.7	747.6	747.8
45°	838.1	836.6	824.7	813.2	802.0	797.4	795.1	801.2	816.5	826.6	826.8
47.5°	925.9	921.9	915.6	906.4	896.8	892.1	888.4	891.3	902.4	906.4	906.8
50°	1016.2	1017.0	1018.3	1014.7	1011.1	1009.7	999.8	994.2	997.5	990.2	989.2
52.5°	1123.2	1124.9	1137.1	1147.3	1153.4	1156.6	1137.9	1118.4	1107.5	1093.3	1089.1
55°	1249.6	1252.3	1270.1	1298.6	1327.9	1343.5	1309.7	1273.3	1239.5	1212.9	1204.3
57.5°	1390.4	1395.2	1419.7	1474.4	1534.5	1571.2	1514.2	1448.0	1382.8	1344.5	1337.8
60°	1555.5	1560.1	1594.0	1672.4	1769.8	1824.9	1738.6	1630.3	1549.2	1512.5	1500.2
62.5°	1752.0	1752.4	1794.1	1885.7	2014.3	2091.0	1974.1	1829.3	1745.7	1701.5	1689.6
65°	1963.4	1964.5	2007.6	2106.5	2239.6	2323.0	2191.0	2040.1	1937.9	1872.7	1863.5
67.5°	2112.8	2117.2	2162.7	2281.7	2406.1	2481.4	2344.8	2174.2	2056.0	1978.3	1970.5
70°	2088.9	2106.1	2159.5	2298.4	2471.5	2578.8	2369.7	2158.3	2002.4	1910.6	1904.1
72.5°	1821.8	1854.7	1925.9	2108.2	2385.0	2532.7	2233.7	1933.0	1756.6	1678.5	1666.7
75°	1240.6	1294.0	1401.5	1664.4	2037.6	2192.9	1880.5	1541.2	1375.3	1267.2	1259.2
77.5°	553.1	565.3	701.5	1004.2	1406.1	1574.8	1366.3	1008.2	756.8	603.6	571.4
80°	154.2	156.1	208.3	374.0	703.8	925.2	755.5	392.9	220.8	155.7	146.7
82.5°	49.0	53.2	65.0	97.0	236.5	422.2	242.8	104.8	74.6	59.5	53.6
85°	23.9	23.7	32.9	39.4	60.3	93.4	64.3	48.6	42.5	28.3	25.6
87.5°	10.1	10.3	15.3	13.8	17.6	15.1	20.7	21.8	22.8	12.6	10.9
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)