

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: P397949

Luminaire Tested: **ARCH-S-PA1-60-830-U-5WQ**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397949
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-PA1-60-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7335 lumens
Efficiency: N/A
Efficacy: 114.6 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): 64
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

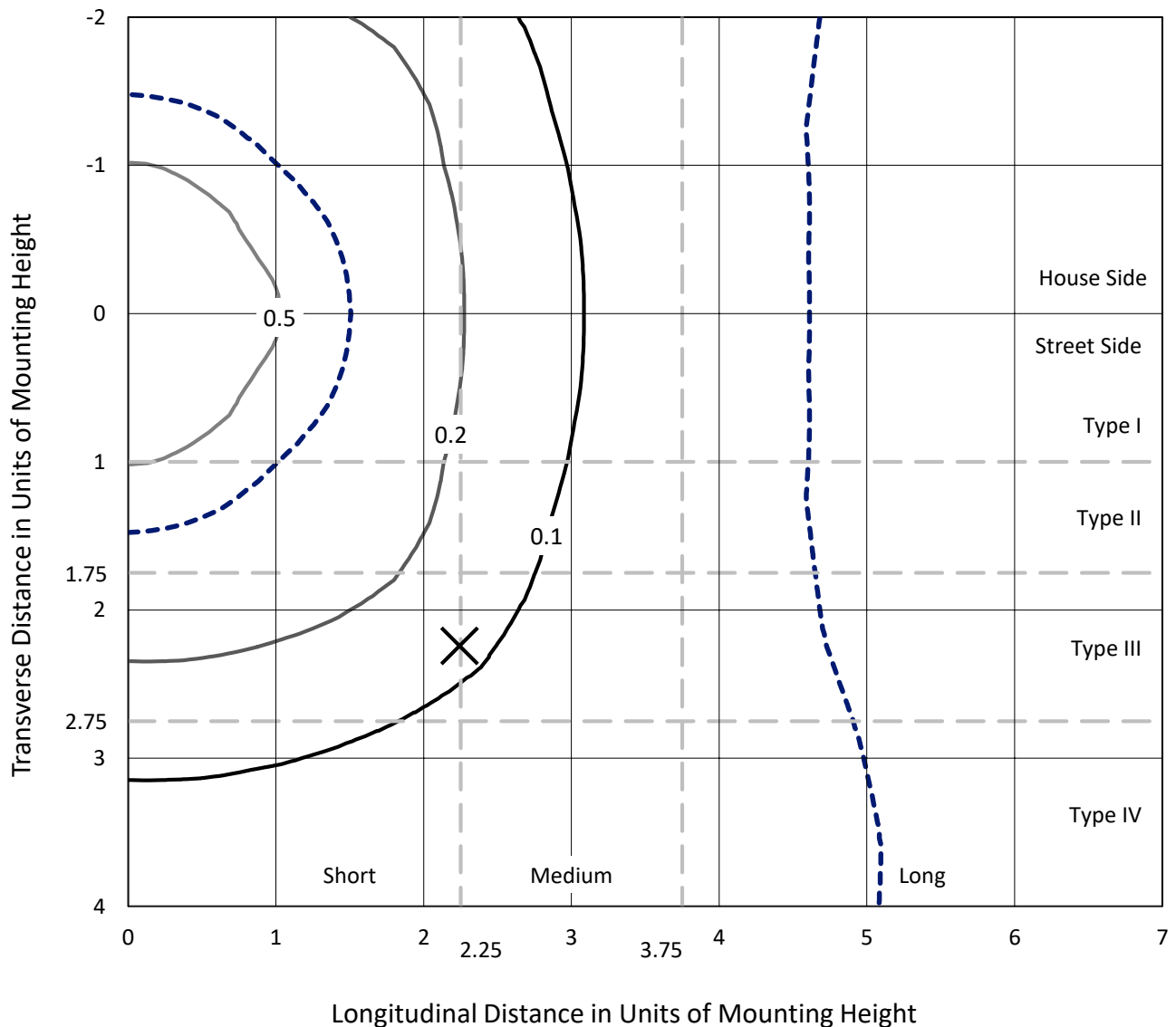


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

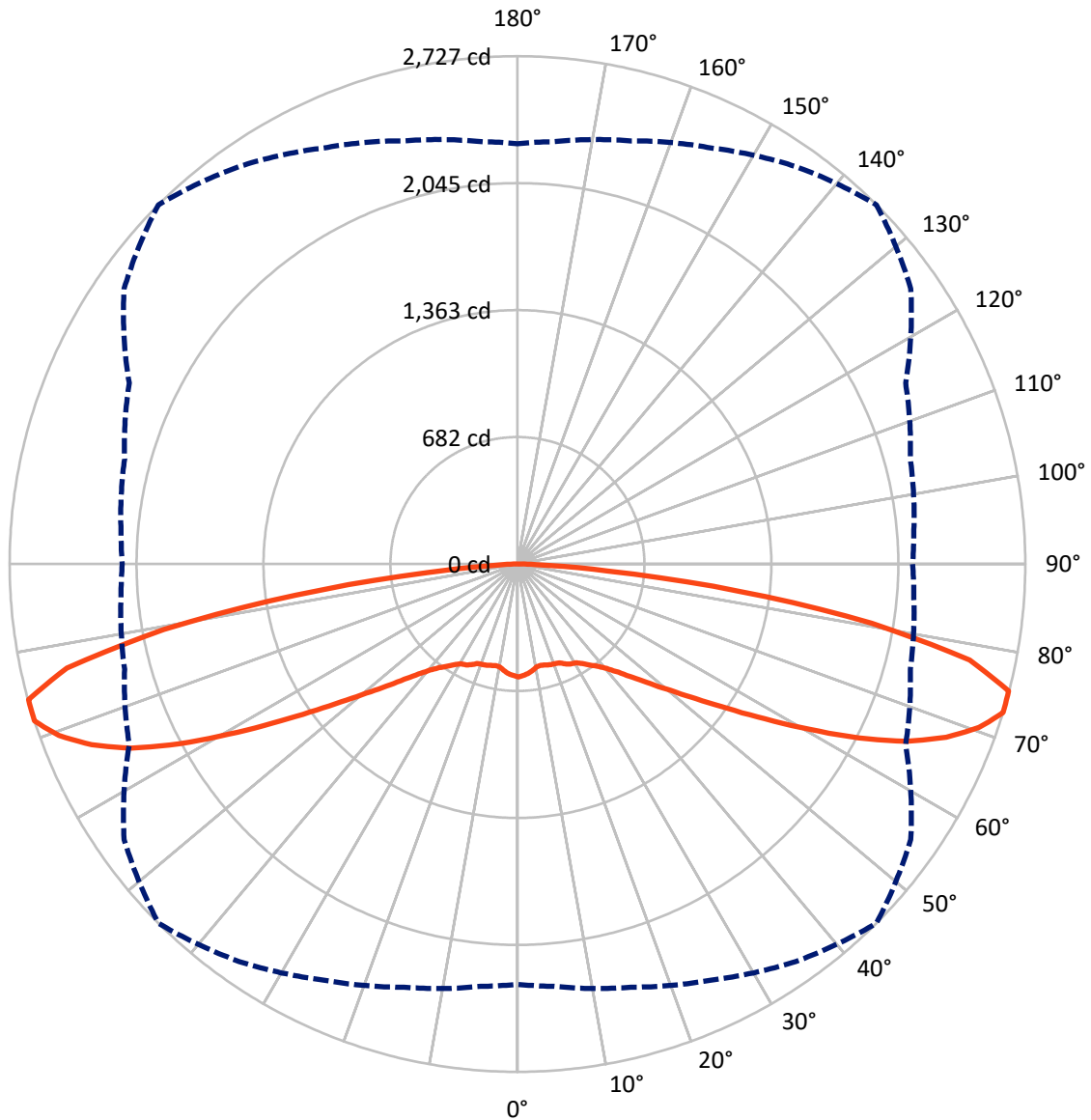


Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - Non-Cutoff

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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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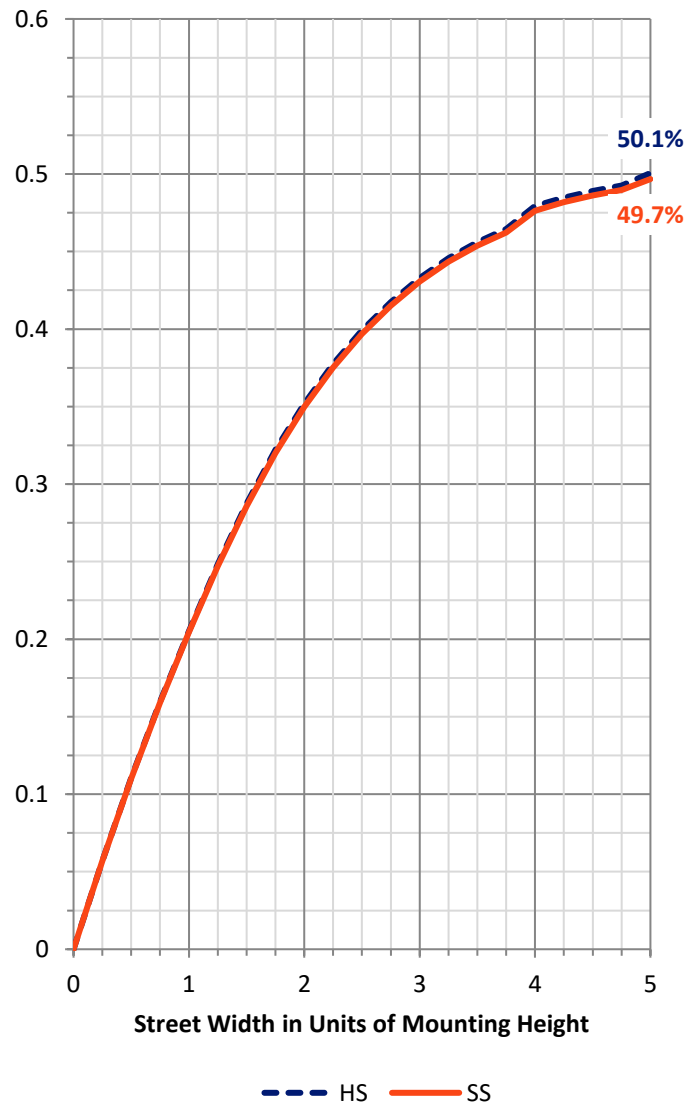
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3667.5	0.0	3667.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3667.5	0.0	3667.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7335.0	0.0	7335.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	0.8
10°-20°	161.6	2.2
20°-30°	274.5	3.7
30°-40°	418.7	5.7
40°-50°	689.5	9.4
50°-60°	1204.0	16.4
60°-70°	2018.5	27.5
70°-80°	2160.2	29.5
80°-90°	352.3	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°	7335.0	100.0
0°-180°	7335.0	100.0



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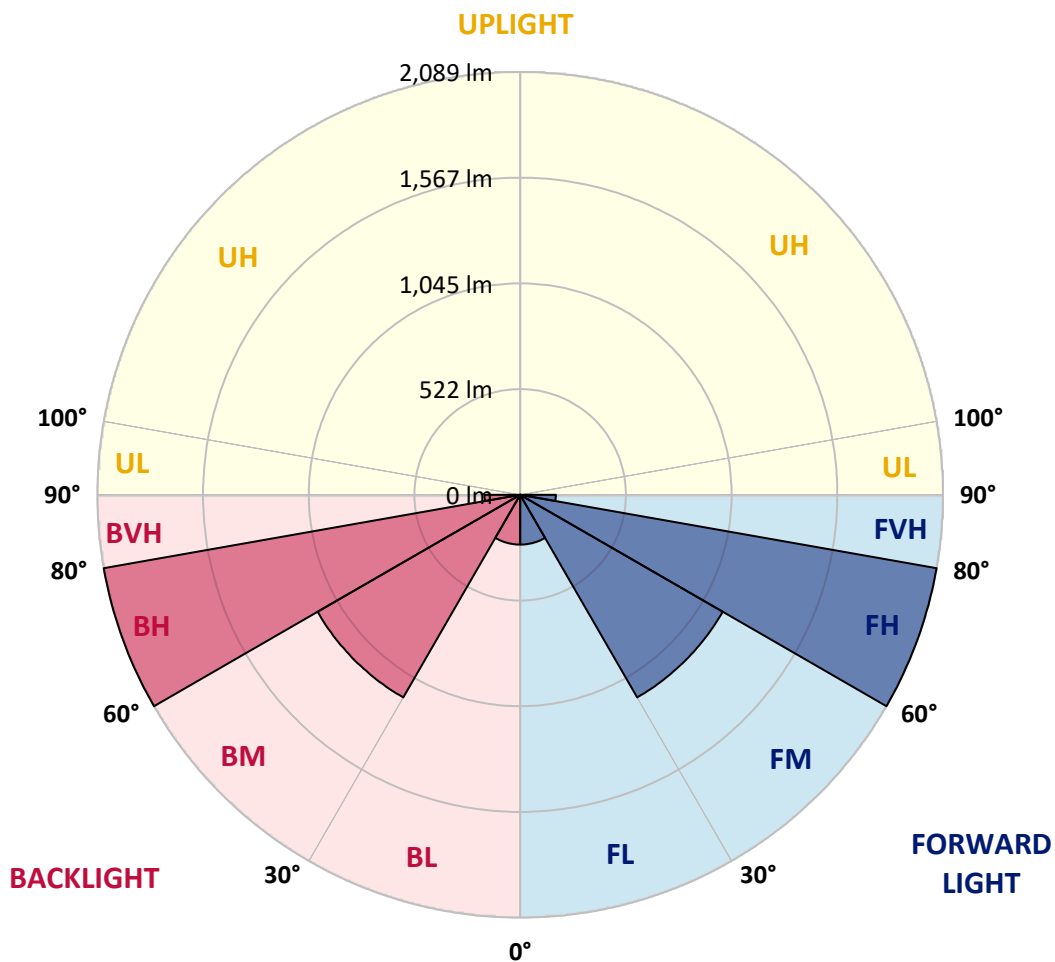
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.9	3.4			
FM (30°-60°)	1156.1	15.8			
FH (60°-80°)	2089.4	28.5			G2/5000
FVH (80°-90°)	176.2	2.4			G2/225
BL (0°-30°)	245.9	3.4	B1/500		
BM (30°-60°)	1156.1	15.8	B2/2500		
BH (60°-80°)	2089.4	28.5	B3/2500		G2/5000
BVH (80°-90°)	176.2	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°	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0	607.0
2.5°	603.2	603.2	603.2	602.3	600.4	599.5	597.6	598.5	598.5	598.5	598.5
5°	595.7	595.7	594.8	593.9	592.0	591.1	589.2	591.1	591.1	591.1	591.1
7.5°	581.7	582.6	582.6	581.7	578.9	577.9	575.1	576.1	576.1	577.0	576.1
10°	574.2	574.2	573.3	568.6	563.9	562.0	561.1	563.9	566.7	569.5	569.5
12.5°	574.2	574.2	572.3	564.8	558.3	558.3	558.3	562.0	567.6	573.3	574.2
15°	577.0	577.0	573.3	564.8	561.1	562.0	562.0	565.8	572.3	579.8	580.8
17.5°	578.9	578.9	574.2	565.8	565.8	568.6	566.7	569.5	576.1	584.5	585.4
20°	581.7	581.7	575.1	568.6	568.6	571.4	571.4	574.2	579.8	588.2	589.2
22.5°	587.3	586.4	579.8	574.2	574.2	576.1	577.9	581.7	586.4	593.9	595.7
25°	593.9	593.9	588.2	587.3	589.2	593.9	592.9	592.0	593.9	600.4	603.2
27.5°	597.6	597.6	593.9	596.7	604.2	607.9	603.2	599.5	599.5	606.0	607.0
30°	609.8	608.9	605.1	607.0	613.5	615.4	612.6	607.9	610.7	618.2	619.2
32.5°	630.4	630.4	624.8	624.8	629.5	637.0	627.6	624.8	628.5	637.0	637.9
35°	662.2	662.2	654.8	651.0	654.8	665.1	651.0	650.1	656.6	666.0	666.9
37.5°	702.5	702.5	697.8	688.5	689.4	696.0	683.8	682.9	695.0	705.3	705.3
40°	753.1	755.9	751.2	740.0	736.2	737.2	727.8	728.7	742.8	755.0	755.0
42.5°	815.9	817.7	810.2	801.8	797.1	794.3	785.0	786.8	803.7	819.6	819.6
45°	891.7	892.7	885.2	874.9	869.3	867.4	858.0	862.7	881.4	898.3	897.4
47.5°	977.0	977.9	970.4	960.1	956.4	959.2	949.8	949.8	966.7	980.7	978.8
50°	1073.5	1075.3	1066.9	1062.2	1059.4	1066.9	1055.7	1045.4	1056.6	1070.6	1068.8
52.5°	1180.2	1184.9	1179.3	1181.2	1191.5	1200.8	1182.1	1159.6	1165.3	1174.6	1171.8
55°	1309.5	1315.1	1317.0	1323.6	1350.7	1366.6	1335.7	1298.3	1295.5	1296.4	1291.7
57.5°	1454.7	1458.4	1470.6	1485.6	1541.8	1567.1	1518.4	1453.8	1433.1	1421.0	1418.2
60°	1600.8	1607.4	1637.3	1668.3	1754.4	1800.3	1725.4	1616.7	1572.7	1550.2	1545.5
62.5°	1747.9	1761.0	1809.7	1862.2	1987.7	2056.0	1940.8	1783.5	1719.8	1691.7	1684.2
65°	1918.4	1934.3	1993.3	2059.8	2199.4	2295.8	2156.3	1955.8	1887.4	1850.0	1840.6
67.5°	2117.9	2134.7	2182.5	2256.5	2388.6	2483.2	2359.5	2131.9	2042.9	1995.2	1987.7
70°	2281.8	2296.8	2348.3	2423.2	2521.6	2629.3	2511.3	2272.4	2191.9	2158.1	2153.5
72.5°	2256.5	2276.2	2352.0	2464.4	2605.0	2726.7	2577.8	2299.6	2183.4	2136.6	2121.6
75°	1970.8	1992.4	2082.3	2285.5	2542.2	2723.9	2481.3	2118.8	1982.1	1942.7	1935.2
77.5°	1304.8	1325.4	1477.2	1797.5	2220.0	2482.2	2190.0	1775.0	1554.9	1460.3	1454.7
80°	527.4	553.6	698.8	1038.8	1573.7	1929.6	1624.2	1136.2	766.2	618.2	588.2
82.5°	122.7	146.1	212.6	383.1	805.6	1201.8	875.8	424.3	246.4	175.2	157.4
85°	51.5	52.5	90.9	124.6	252.0	485.2	286.6	154.6	125.5	91.8	89.9
87.5°	19.7	20.6	44.0	52.5	80.6	91.8	97.4	79.6	74.0	45.9	44.0
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)