

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: P348742

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348742
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-PA1-60-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1160mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6217 lumens
Efficiency: N/A
Efficacy: 100.3 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

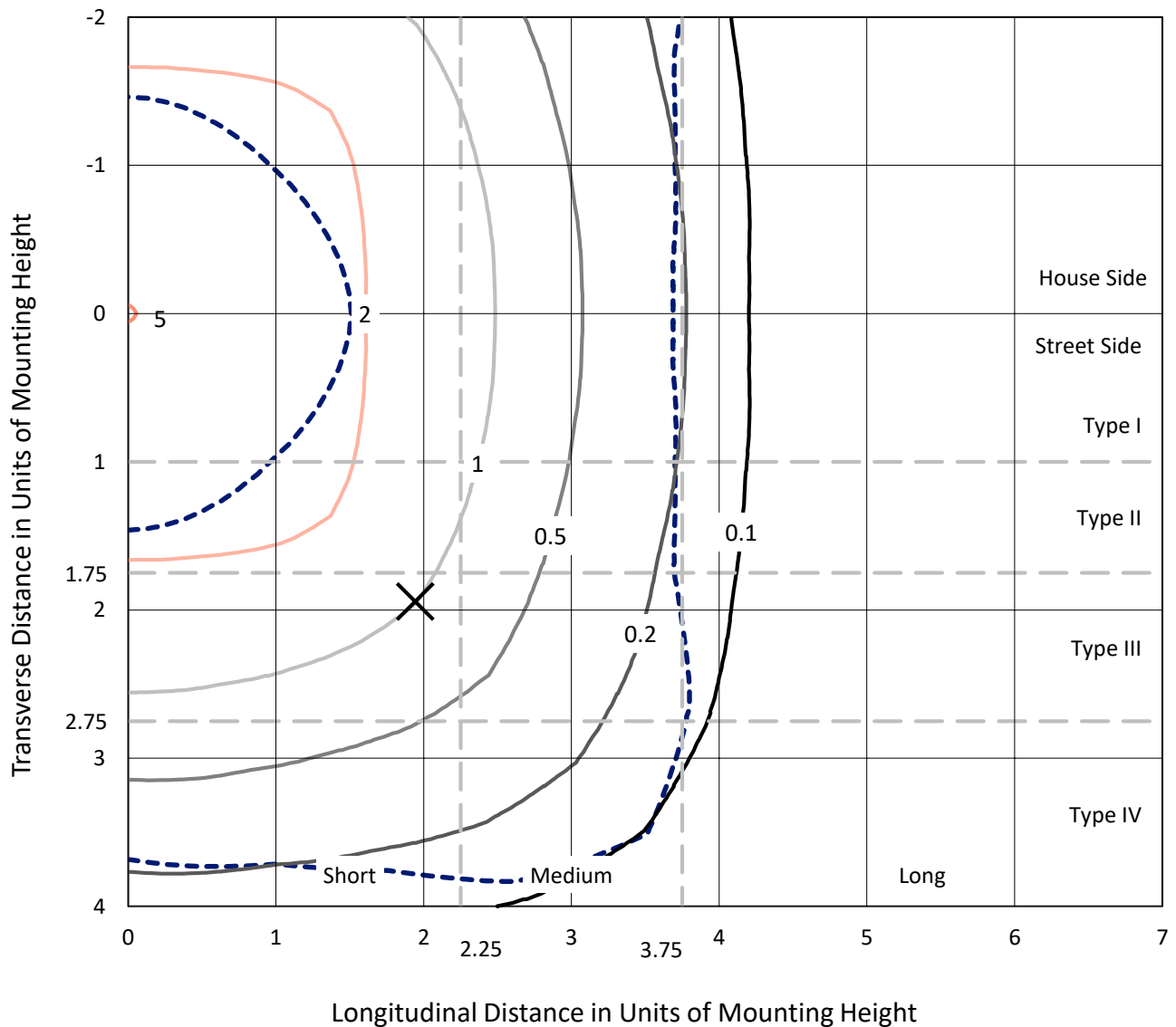
Input Watts (W): 62
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

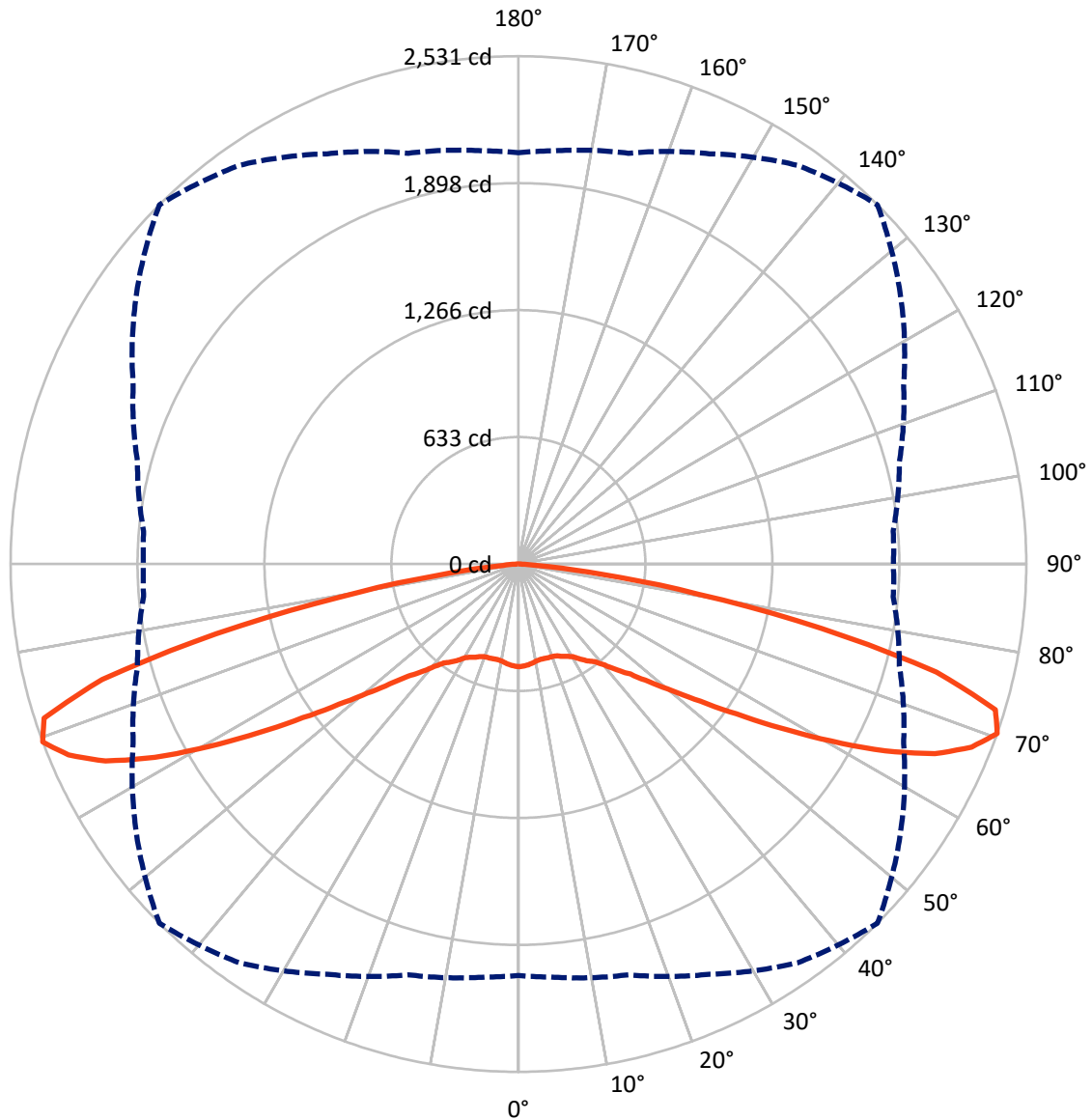
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.1 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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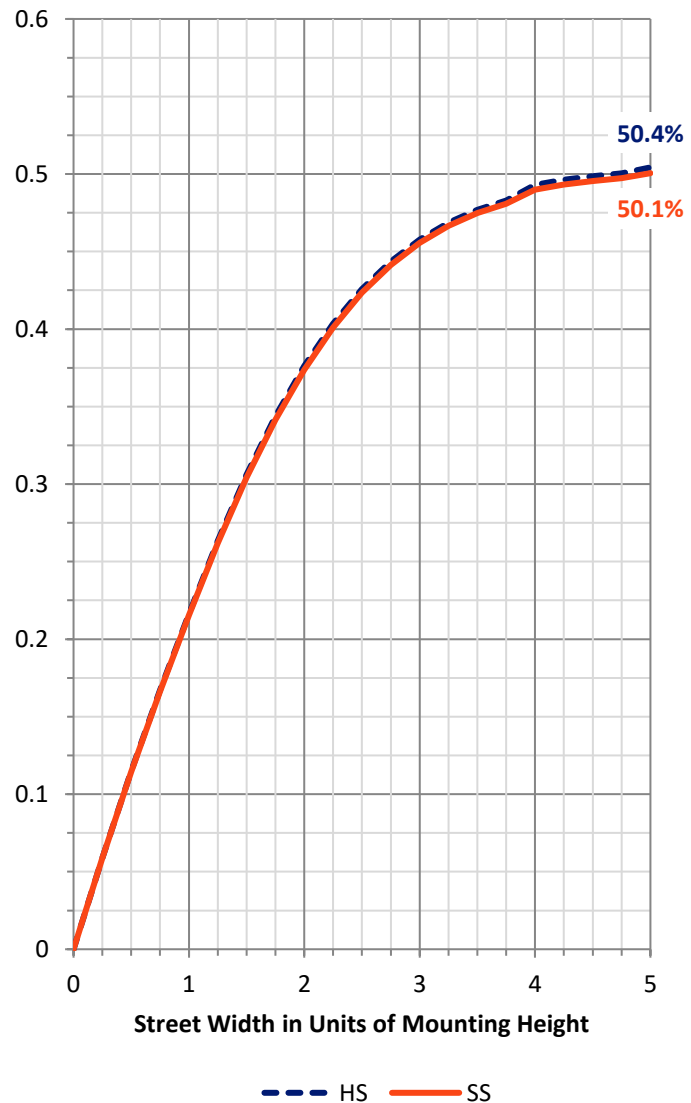
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3108.5	0.0	3108.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3108.5	0.0	3108.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6217.0	0.0	6217.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	0.8
10°-20°	139.5	2.2
20°-30°	237.8	3.8
30°-40°	371.6	6.0
40°-50°	629.8	10.1
50°-60°	1148.5	18.5
60°-70°	1977.2	31.8
70°-80°	1549.8	24.9
80°-90°	114.9	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°	6217.0	100.0
0°-180°	6217.0	100.0



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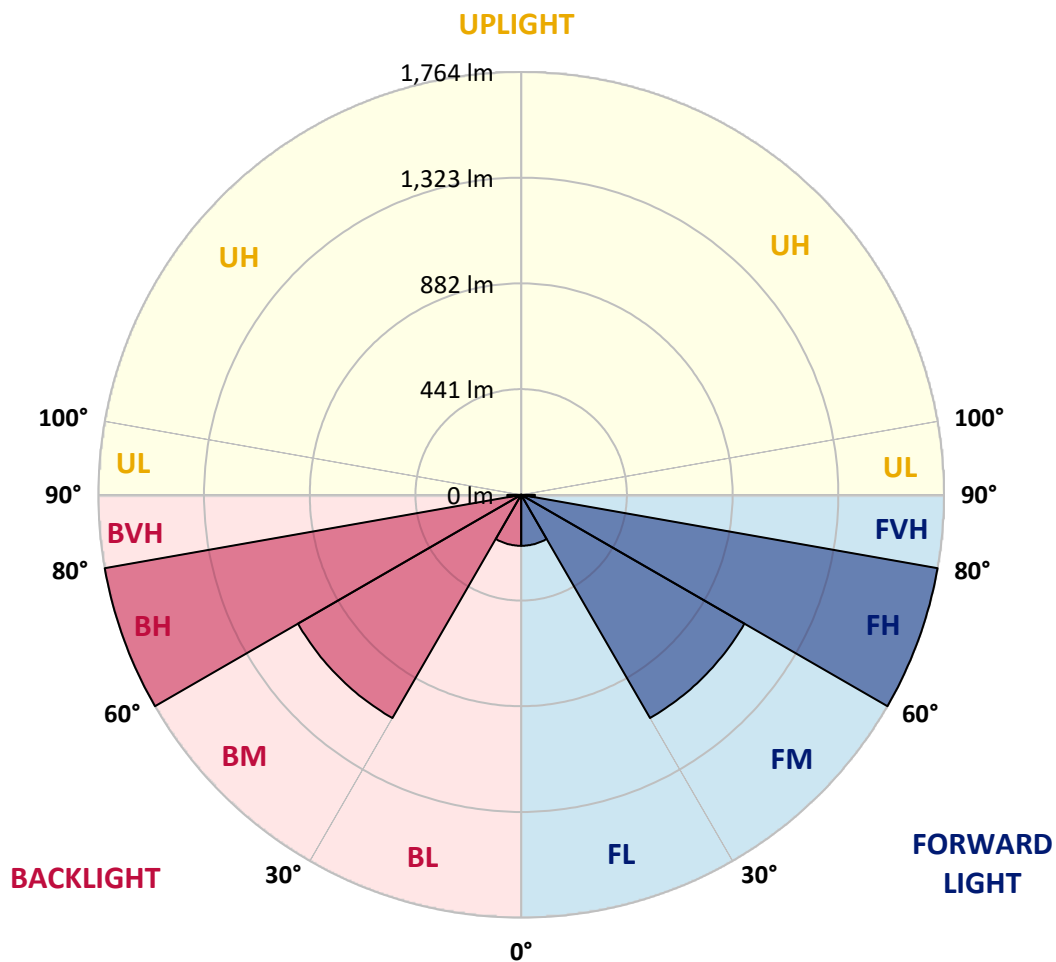
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	212.5	3.4			
FM	(30°-60°)	1075.0	17.3			
FH	(60°-80°)	1763.5	28.4			G1/1800
FVH	(80°-90°)	57.5	0.9			G1/100
BL	(0°-30°)	212.5	3.4	B1/500		
BM	(30°-60°)	1075.0	17.3	B2/2500		
BH	(60°-80°)	1763.5	28.4	B3/2500		G1/1800
BVH	(80°-90°)	57.5	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°	511.7	511.7	511.7	511.7	511.7	511.7	511.7	511.7	511.7	511.7	511.7
2.5°	509.4	510.0	509.4	509.8	508.8	509.2	509.2	509.2	509.0	509.2	508.8
5°	504.9	505.3	504.5	504.9	504.3	504.9	505.1	504.9	504.5	504.7	503.8
7.5°	498.1	498.5	497.9	498.5	497.7	498.7	498.5	497.9	497.3	497.3	496.4
10°	494.4	494.6	492.9	492.3	490.5	490.9	491.5	492.1	492.7	494.0	493.8
12.5°	494.6	494.6	492.1	489.4	486.8	487.4	488.4	490.7	493.2	495.4	495.6
15°	496.6	496.4	492.7	488.4	486.6	488.4	489.0	490.5	494.4	498.3	498.5
17.5°	498.1	498.1	492.3	487.4	487.2	490.1	489.9	490.5	494.8	500.6	500.8
20°	500.8	500.8	493.4	488.0	488.0	491.1	491.3	492.3	496.6	503.0	504.1
22.5°	506.7	506.9	499.1	494.8	495.2	497.1	497.7	499.3	503.2	510.2	511.5
25°	515.2	515.6	507.5	505.1	506.5	510.0	509.6	510.8	515.2	521.9	523.2
27.5°	526.9	525.8	518.4	517.4	518.9	521.3	521.1	521.3	524.8	531.0	532.4
30°	542.1	541.7	536.3	537.0	536.3	535.5	535.7	537.4	539.2	544.2	545.6
32.5°	556.9	557.3	554.0	557.1	561.6	564.7	560.0	555.5	553.4	556.1	557.3
35°	583.6	584.7	579.5	577.5	583.6	592.7	579.3	571.9	576.0	579.5	580.6
37.5°	629.1	629.7	621.1	612.8	608.3	617.0	603.6	604.2	618.6	625.2	625.0
40°	680.9	681.1	675.4	668.2	660.3	662.4	657.1	658.7	668.2	674.1	675.8
42.5°	742.6	742.0	732.9	722.7	720.4	722.5	713.4	712.2	723.1	733.8	734.0
45°	822.6	821.2	809.4	798.1	787.2	782.7	780.4	786.4	801.4	811.3	811.5
47.5°	908.8	904.9	898.7	889.6	880.2	875.7	872.0	874.8	885.7	889.6	890.1
50°	997.4	998.2	999.5	996.0	992.5	991.0	981.4	975.8	979.1	971.9	970.9
52.5°	1102.5	1104.1	1116.1	1126.1	1132.1	1135.2	1116.9	1097.8	1087.1	1073.1	1069.0
55°	1226.5	1229.2	1246.7	1274.6	1303.4	1318.6	1285.5	1249.7	1216.6	1190.5	1182.1
57.5°	1364.7	1369.4	1393.5	1447.2	1506.2	1542.2	1486.2	1421.3	1357.3	1319.7	1313.1
60°	1526.8	1531.3	1564.6	1641.5	1737.1	1791.2	1706.5	1600.2	1520.6	1484.6	1472.5
62.5°	1719.7	1720.1	1761.0	1850.9	1977.1	2052.4	1937.6	1795.5	1713.5	1670.1	1658.4
65°	1927.2	1928.2	1970.5	2067.6	2198.2	2280.1	2150.5	2002.4	1902.1	1838.1	1829.1
67.5°	2073.8	2078.1	2122.7	2239.5	2361.7	2435.5	2301.4	2134.0	2018.1	1941.8	1934.1
70°	2050.3	2067.2	2119.6	2256.0	2425.9	2531.2	2325.9	2118.4	1965.4	1875.3	1869.0
72.5°	1788.1	1820.4	1890.3	2069.3	2340.9	2485.9	2192.4	1897.3	1724.2	1647.5	1636.0
75°	1217.7	1270.1	1375.6	1633.7	2000.0	2152.3	1845.7	1512.8	1349.9	1243.8	1236.0
77.5°	542.9	554.8	688.5	985.7	1380.1	1545.7	1341.1	989.6	742.8	592.5	560.8
80°	151.4	153.2	204.4	367.1	690.8	908.2	741.6	385.6	216.8	152.8	144.0
82.5°	48.1	52.2	63.8	95.2	232.2	414.4	238.3	102.8	73.2	58.4	52.6
85°	23.4	23.2	32.3	38.7	59.2	91.7	63.1	47.7	41.7	27.8	25.1
87.5°	9.9	10.1	15.0	13.6	17.3	14.8	20.4	21.4	22.4	12.3	10.7
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)