

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: P348740

Luminaire Tested: **ARCH-N-PA1-40-830-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348740
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-PA1-40-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 740mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4514 lumens
Efficiency: N/A
Efficacy: 110.1 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

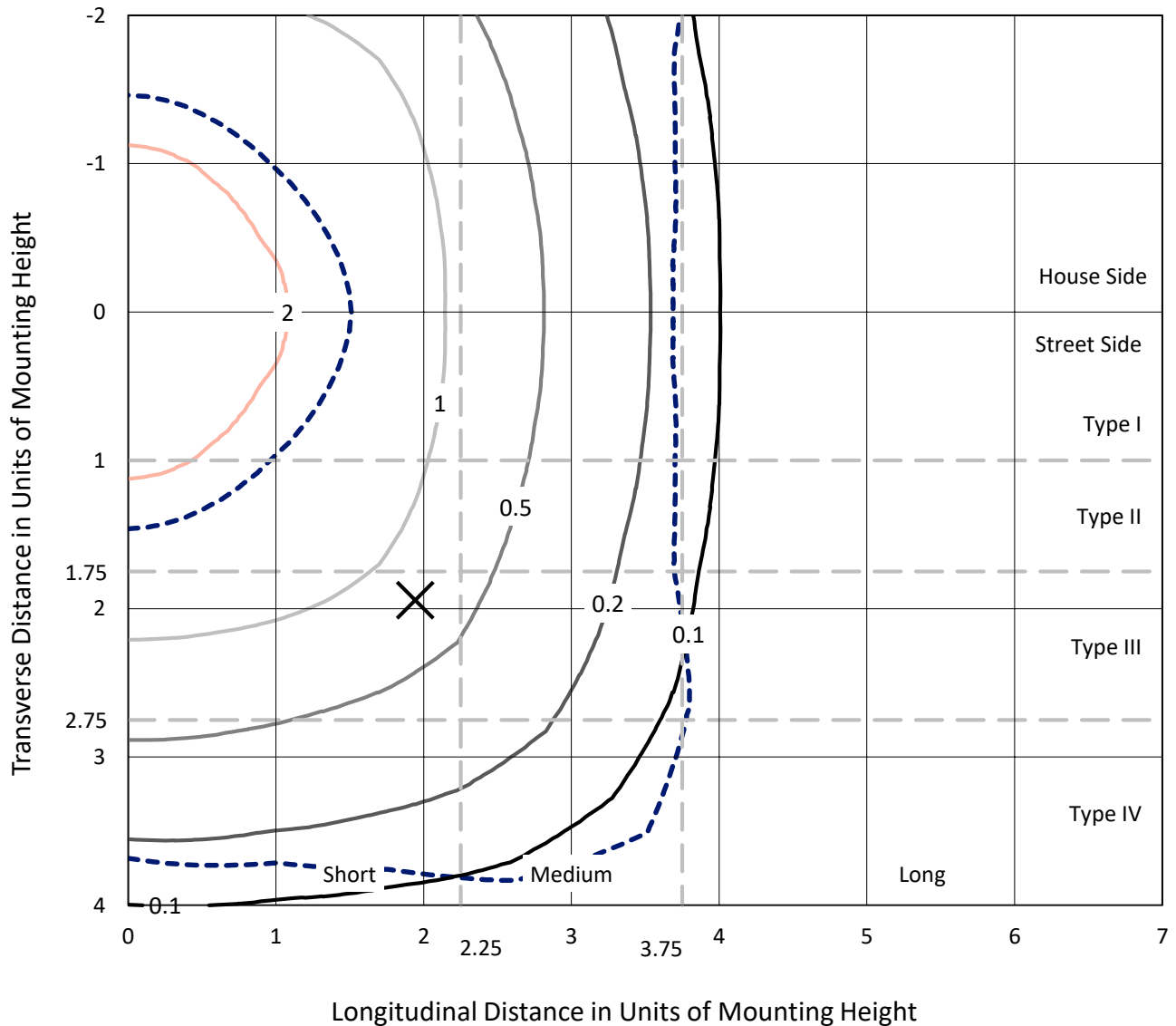
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

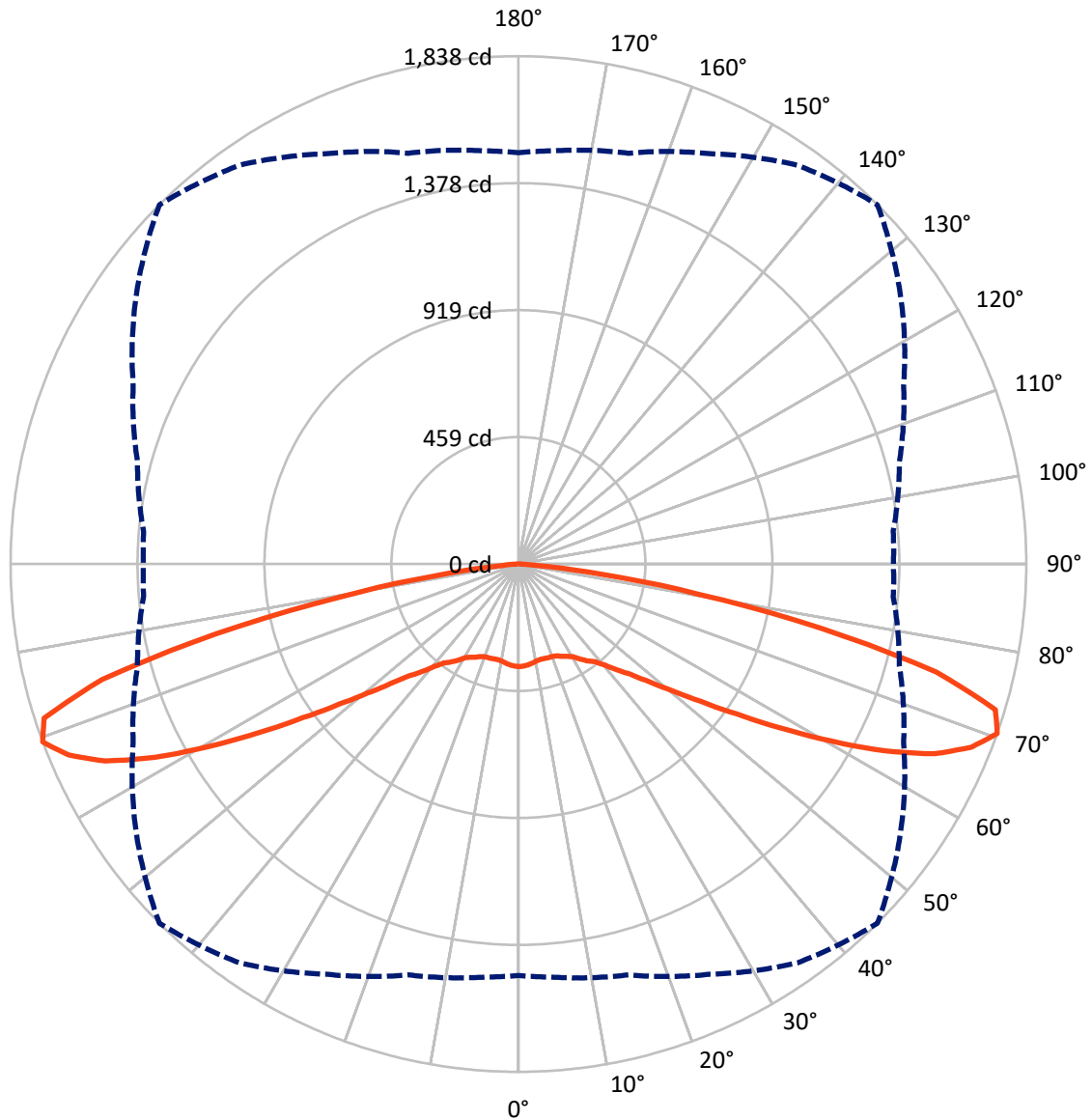
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 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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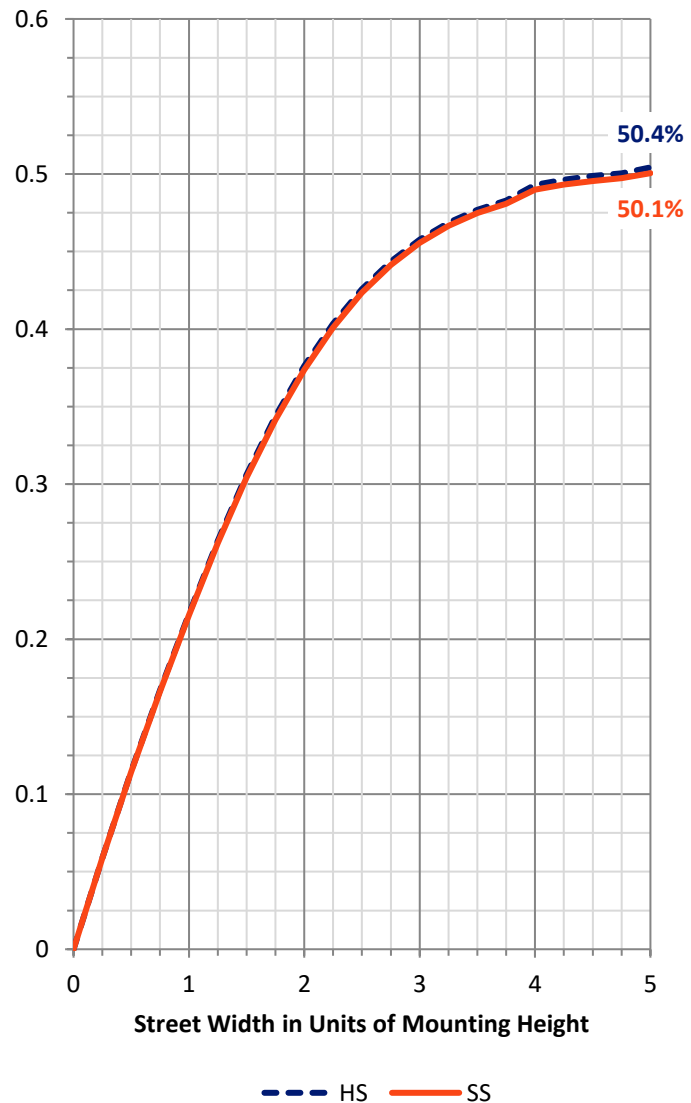
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2257.0	0.0	2257.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2257.0	0.0	2257.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4514.0	0.0	4514.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	0.8
10°-20°	101.3	2.2
20°-30°	172.7	3.8
30°-40°	269.8	6.0
40°-50°	457.3	10.1
50°-60°	833.9	18.5
60°-70°	1435.6	31.8
70°-80°	1125.3	24.9
80°-90°	83.4	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°	4514.0	100.0
0°-180°	4514.0	100.0



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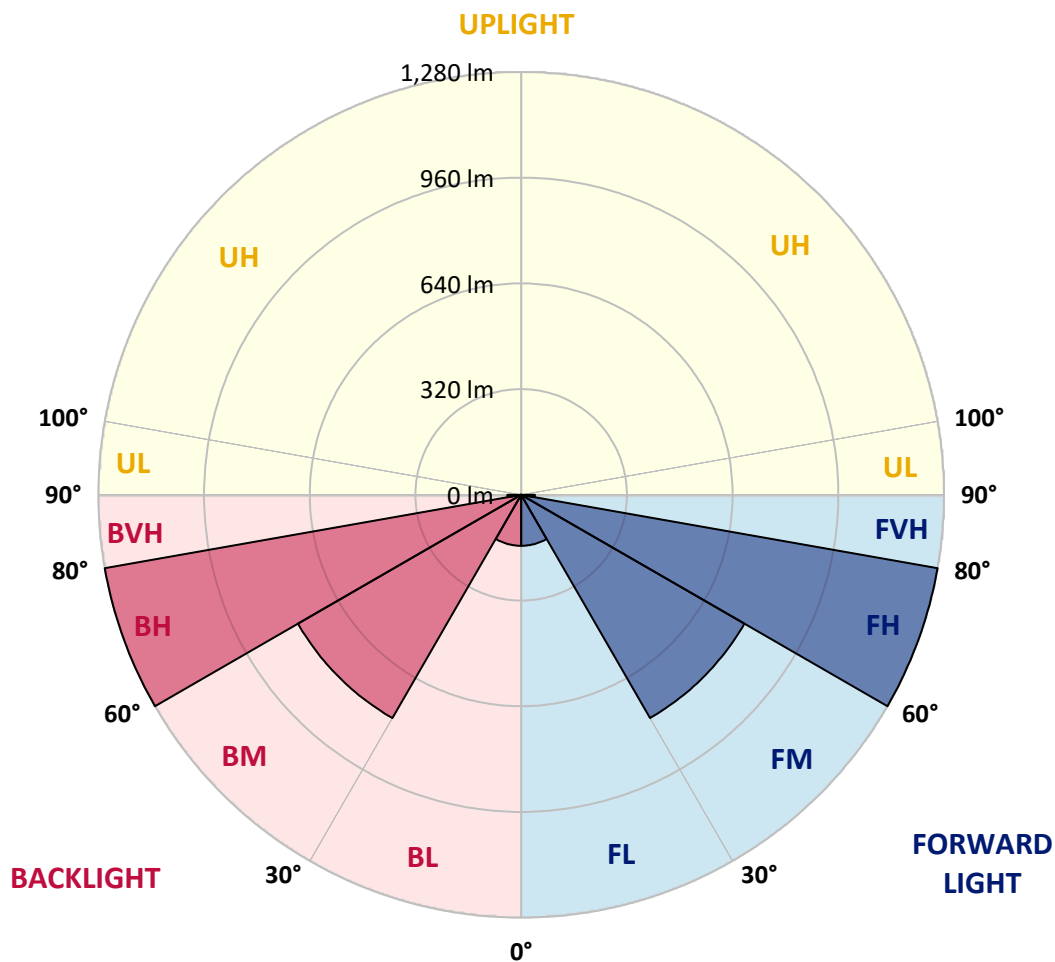
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.3	3.4			
FM (30°-60°)	780.5	17.3			
FH (60°-80°)	1280.5	28.4			G1/1800
FVH (80°-90°)	41.7	0.9			G1/100
BL (0°-30°)	154.3	3.4	B1/500		
BM (30°-60°)	780.5	17.3	B1/1000		
BH (60°-80°)	1280.5	28.4	B3/2500		G1/1800
BVH (80°-90°)	41.7	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°	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5	371.5
2.5°	369.9	370.3	369.9	370.2	369.4	369.7	369.7	369.7	369.6	369.7	369.4
5°	366.6	366.9	366.3	366.6	366.1	366.6	366.7	366.6	366.3	366.4	365.8
7.5°	361.6	361.9	361.5	361.9	361.3	362.1	361.9	361.5	361.1	361.1	360.5
10°	359.0	359.1	357.9	357.5	356.1	356.4	356.9	357.3	357.8	358.7	358.5
12.5°	359.1	359.1	357.3	355.4	353.4	353.9	354.6	356.3	358.1	359.7	359.9
15°	360.6	360.5	357.8	354.6	353.3	354.6	355.1	356.1	359.0	361.8	361.9
17.5°	361.6	361.6	357.5	353.9	353.7	355.8	355.7	356.1	359.3	363.4	363.6
20°	363.6	363.6	358.2	354.3	354.3	356.6	356.7	357.5	360.6	365.2	366.0
22.5°	367.9	368.1	362.4	359.3	359.6	360.9	361.3	362.5	365.4	370.5	371.4
25°	374.0	374.3	368.5	366.7	367.8	370.3	370.0	370.9	374.0	379.0	379.9
27.5°	382.6	381.8	376.4	375.7	376.7	378.5	378.4	378.5	381.1	385.5	386.6
30°	393.6	393.3	389.4	389.9	389.4	388.8	389.0	390.2	391.5	395.1	396.1
32.5°	404.4	404.7	402.3	404.5	407.8	410.0	406.6	403.3	401.8	403.8	404.7
35°	423.8	424.5	420.8	419.3	423.8	430.3	420.6	415.3	418.2	420.8	421.5
37.5°	456.8	457.2	450.9	445.0	441.7	448.0	438.2	438.7	449.1	453.9	453.8
40°	494.4	494.5	490.4	485.1	479.5	481.0	477.1	478.3	485.1	489.5	490.7
42.5°	539.2	538.7	532.2	524.7	523.1	524.6	518.0	517.1	525.0	532.8	532.9
45°	597.3	596.2	587.7	579.5	571.6	568.3	566.7	571.0	581.9	589.1	589.2
47.5°	659.8	657.0	652.5	645.9	639.1	635.8	633.1	635.2	643.1	645.9	646.2
50°	724.2	724.8	725.7	723.1	720.6	719.6	712.5	708.5	710.9	705.7	704.9
52.5°	800.5	801.7	810.3	817.7	822.0	824.2	810.9	797.1	789.3	779.1	776.2
55°	890.5	892.5	905.2	925.5	946.4	957.4	933.4	907.4	883.4	864.4	858.3
57.5°	990.9	994.3	1011.8	1050.7	1093.6	1119.7	1079.1	1031.9	985.5	958.2	953.4
60°	1108.5	1111.8	1136.0	1191.9	1261.3	1300.6	1239.0	1161.8	1104.1	1077.9	1069.1
62.5°	1248.6	1248.9	1278.6	1343.9	1435.5	1490.2	1406.9	1303.7	1244.1	1212.6	1204.1
65°	1399.3	1400.0	1430.8	1501.2	1596.1	1655.5	1561.4	1453.9	1381.0	1334.6	1328.0
67.5°	1505.7	1508.9	1541.3	1626.1	1714.8	1768.4	1671.0	1549.5	1465.3	1409.9	1404.3
70°	1488.7	1500.9	1539.0	1638.0	1761.4	1837.8	1688.8	1538.1	1427.0	1361.6	1357.0
72.5°	1298.3	1321.8	1372.5	1502.4	1699.7	1805.0	1591.9	1377.6	1251.9	1196.2	1187.8
75°	884.1	922.2	998.8	1186.2	1452.1	1562.8	1340.1	1098.4	980.1	903.1	897.4
77.5°	394.2	402.9	499.9	715.7	1002.1	1122.3	973.7	718.5	539.3	430.2	407.2
80°	109.9	111.2	148.4	266.5	501.6	659.4	538.4	280.0	157.4	110.9	104.5
82.5°	34.9	37.9	46.3	69.1	168.6	300.9	173.1	74.7	53.2	42.4	38.2
85°	17.0	16.9	23.4	28.1	43.0	66.6	45.8	34.6	30.3	20.2	18.2
87.5°	7.2	7.3	10.9	9.9	12.5	10.8	14.8	15.5	16.3	9.0	7.8
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)