

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: P348741

Luminaire Tested: **ARCH-N-PA1-50-830-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348741
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-PA1-50-830-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 980mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5527 lumens
Efficiency: N/A
Efficacy: 106.3 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

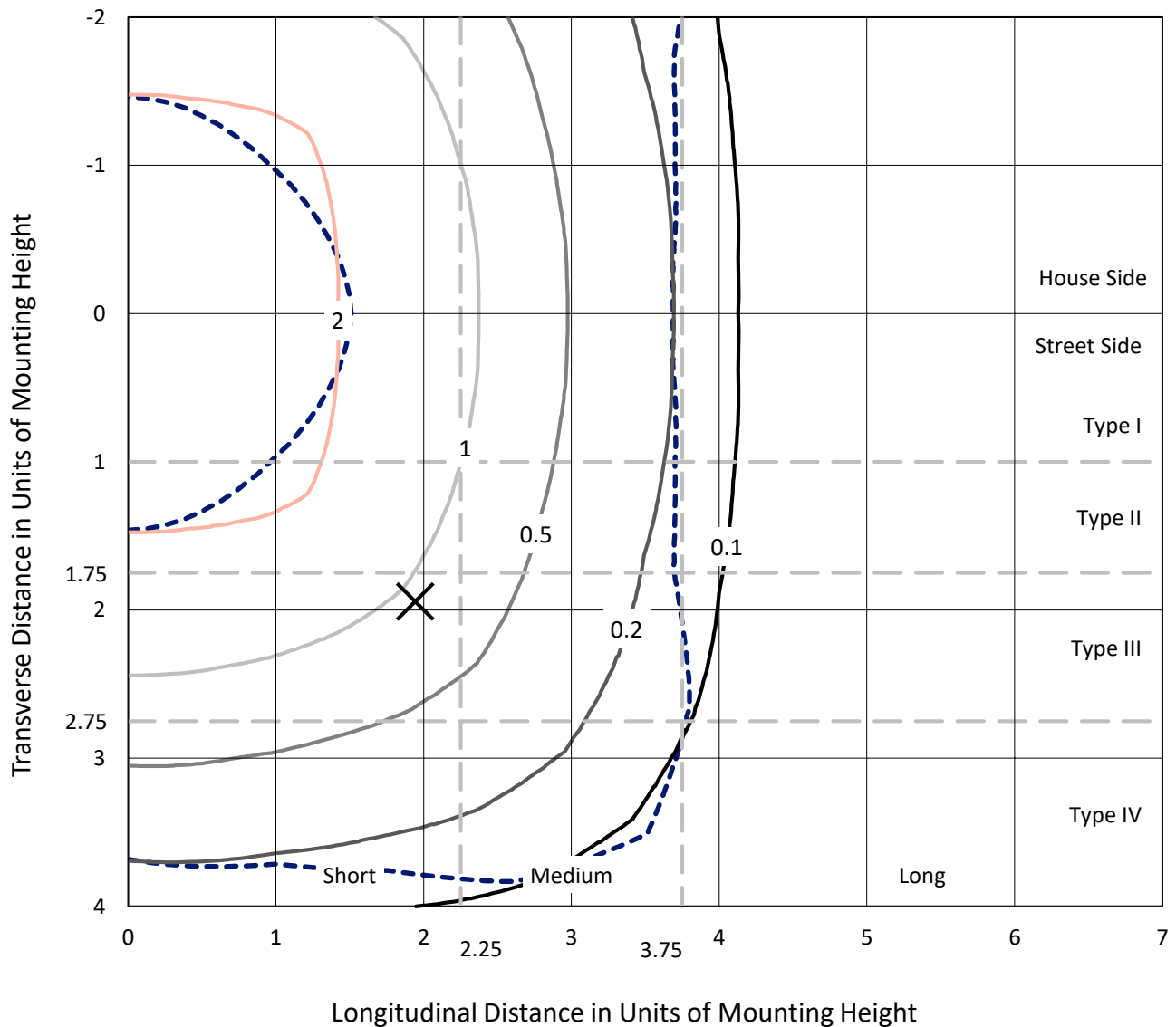
Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

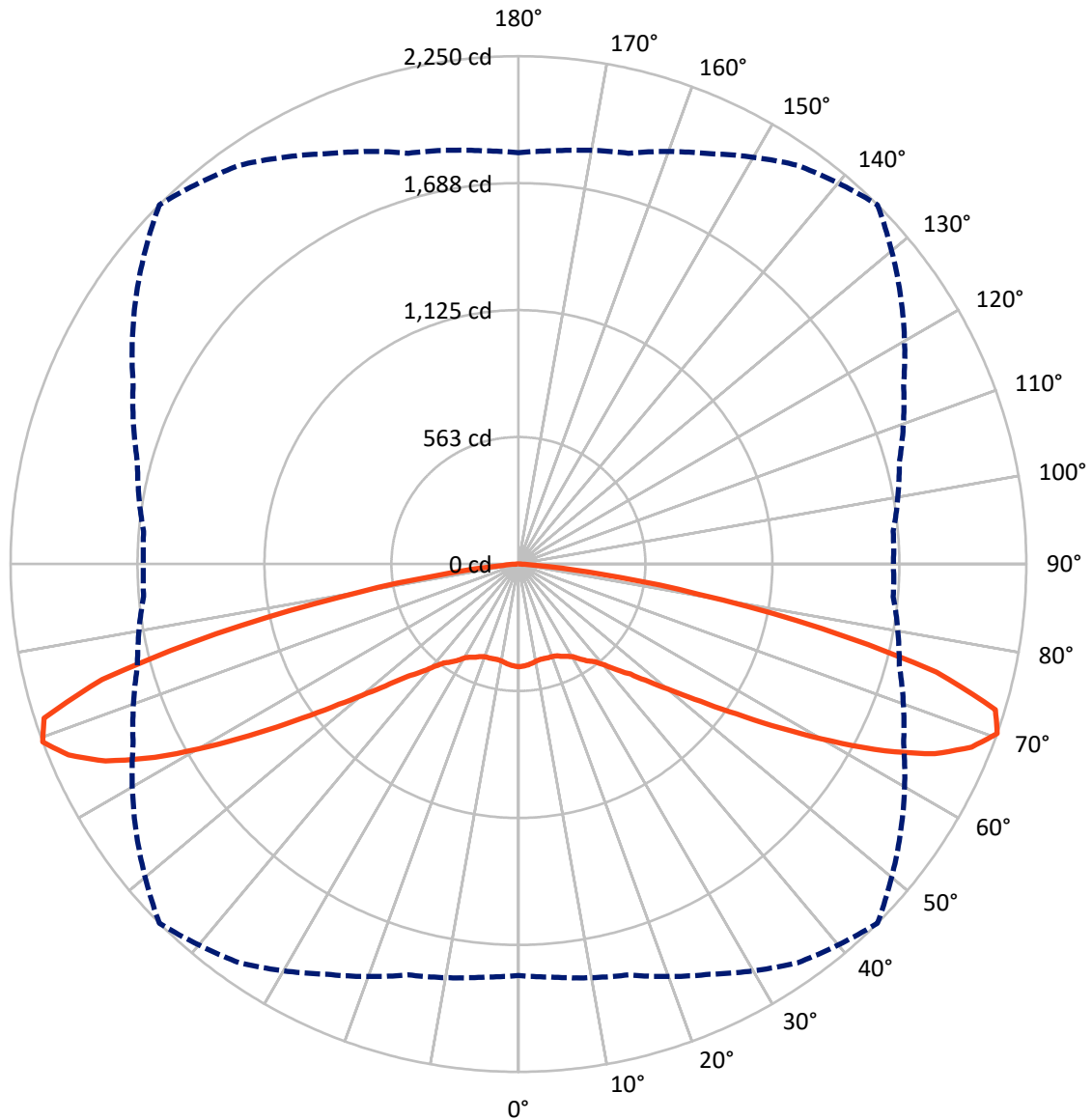


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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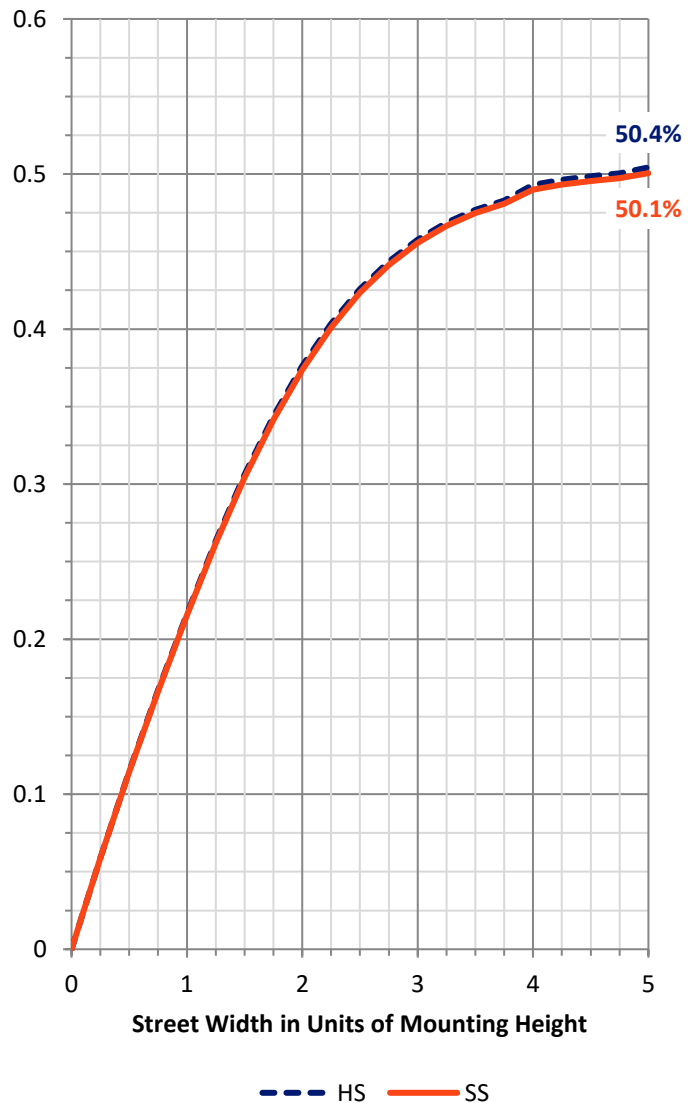
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2763.5	0.0	2763.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2763.5	0.0	2763.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5527.0	0.0	5527.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	0.8
10°-20°	124.0	2.2
20°-30°	211.4	3.8
30°-40°	330.4	6.0
40°-50°	559.9	10.1
50°-60°	1021.0	18.5
60°-70°	1757.8	31.8
70°-80°	1377.8	24.9
80°-90°	102.2	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°	5527.0	100.0
0°-180°	5527.0	100.0



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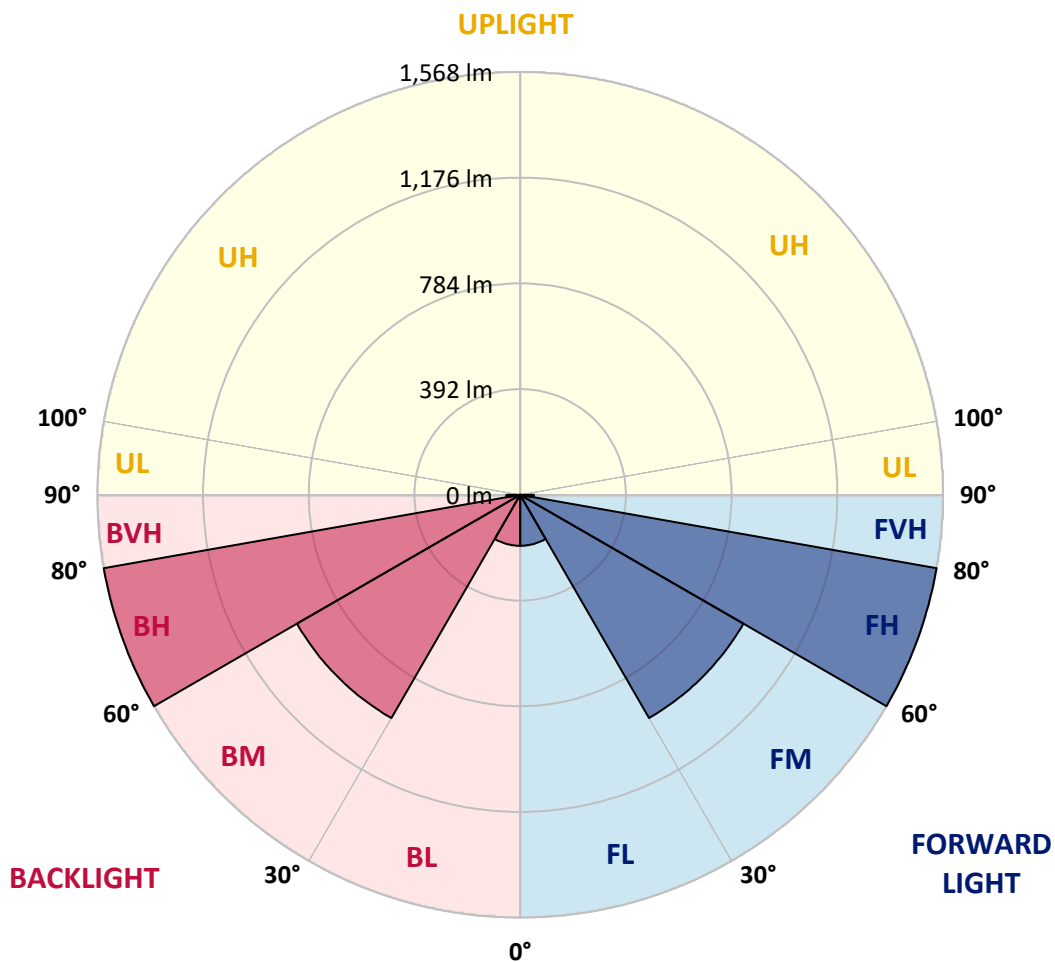
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.0	3.4			
FM (30°-60°)	955.7	17.3			
FH (60°-80°)	1567.8	28.4			G1/1800
FVH (80°-90°)	51.1	0.9			G1/100
BL (0°-30°)	189.0	3.4	B1/500		
BM (30°-60°)	955.7	17.3	B1/1000		
BH (60°-80°)	1567.8	28.4	B3/2500		G1/1800
BVH (80°-90°)	51.1	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°	454.9	454.9	454.9	454.9	454.9	454.9	454.9	454.9	454.9	454.9	454.9
2.5°	452.9	453.4	452.9	453.2	452.3	452.7	452.7	452.7	452.5	452.7	452.3
5°	448.8	449.2	448.5	448.8	448.3	448.8	449.0	448.8	448.5	448.7	447.9
7.5°	442.8	443.2	442.6	443.2	442.4	443.4	443.2	442.6	442.1	442.1	441.3
10°	439.5	439.7	438.2	437.7	436.0	436.4	437.0	437.5	438.1	439.1	439.0
12.5°	439.7	439.7	437.5	435.1	432.8	433.3	434.2	436.2	438.4	440.4	440.6
15°	441.5	441.3	438.1	434.2	432.6	434.2	434.8	436.0	439.5	443.0	443.2
17.5°	442.8	442.8	437.7	433.3	433.1	435.7	435.5	436.0	439.9	445.0	445.2
20°	445.2	445.2	438.6	433.8	433.8	436.6	436.8	437.7	441.5	447.2	448.1
22.5°	450.5	450.7	443.7	439.9	440.2	441.9	442.4	443.9	447.4	453.6	454.7
25°	458.0	458.3	451.2	449.0	450.3	453.4	453.0	454.1	458.0	464.0	465.1
27.5°	468.4	467.5	460.9	460.0	461.3	463.5	463.3	463.5	466.6	472.1	473.3
30°	481.9	481.6	476.8	477.4	476.8	476.1	476.3	477.7	479.4	483.8	485.0
32.5°	495.1	495.5	492.5	495.3	499.3	502.0	497.8	493.8	492.0	494.4	495.5
35°	518.9	519.8	515.2	513.4	518.9	526.9	515.0	508.4	512.1	515.2	516.1
37.5°	559.3	559.8	552.1	544.8	540.8	548.5	536.6	537.1	549.9	555.8	555.6
40°	605.3	605.5	600.4	594.0	587.1	588.9	584.1	585.6	594.0	599.3	600.8
42.5°	660.2	659.6	651.6	642.5	640.4	642.3	634.2	633.1	642.8	652.3	652.5
45°	731.3	730.0	719.6	709.6	699.9	695.8	693.8	699.1	712.5	721.3	721.4
47.5°	807.9	804.4	799.0	790.9	782.5	778.5	775.2	777.7	787.4	790.9	791.3
50°	886.7	887.4	888.5	885.4	882.3	881.0	872.4	867.5	870.4	864.0	863.1
52.5°	980.1	981.6	992.2	1001.2	1006.5	1009.2	992.9	975.9	966.4	954.0	950.3
55°	1090.4	1092.8	1108.3	1133.2	1158.8	1172.3	1142.8	1111.0	1081.6	1058.4	1050.9
57.5°	1213.2	1217.4	1238.8	1286.6	1339.0	1371.0	1321.3	1263.5	1206.7	1173.2	1167.3
60°	1357.3	1361.3	1390.9	1459.3	1544.3	1592.4	1517.1	1422.6	1351.8	1319.8	1309.0
62.5°	1528.8	1529.2	1565.5	1645.4	1757.7	1824.6	1722.6	1596.3	1523.3	1484.7	1474.3
65°	1713.3	1714.2	1751.8	1838.1	1954.2	2027.0	1911.8	1780.2	1691.0	1634.1	1626.1
67.5°	1843.6	1847.5	1887.1	1991.0	2099.6	2165.2	2046.0	1897.2	1794.1	1726.2	1719.5
70°	1822.8	1837.8	1884.4	2005.6	2156.6	2250.2	2067.8	1883.3	1747.3	1667.2	1661.5
72.5°	1589.7	1618.4	1680.5	1839.6	2081.1	2210.0	1949.1	1686.8	1532.8	1464.6	1454.4
75°	1082.5	1129.1	1222.9	1452.4	1778.0	1913.5	1640.9	1344.9	1200.1	1105.7	1098.8
77.5°	482.7	493.3	612.1	876.3	1227.0	1374.1	1192.2	879.8	660.4	526.7	498.6
80°	134.6	136.2	181.7	326.3	614.1	807.4	659.3	342.8	192.7	135.8	128.0
82.5°	42.8	46.4	56.7	84.6	206.4	368.4	211.9	91.4	65.1	51.9	46.8
85°	20.8	20.7	28.7	34.4	52.7	81.5	56.1	42.4	37.1	24.7	22.3
87.5°	8.8	9.0	13.3	12.1	15.4	13.2	18.1	19.0	19.9	11.0	9.5
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)