

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: P348709

Luminaire Tested: **ARCH-N-PA1-19-740-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348709
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-PA1-19-740-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3088 lumens
Efficiency: N/A
Efficacy: 162.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

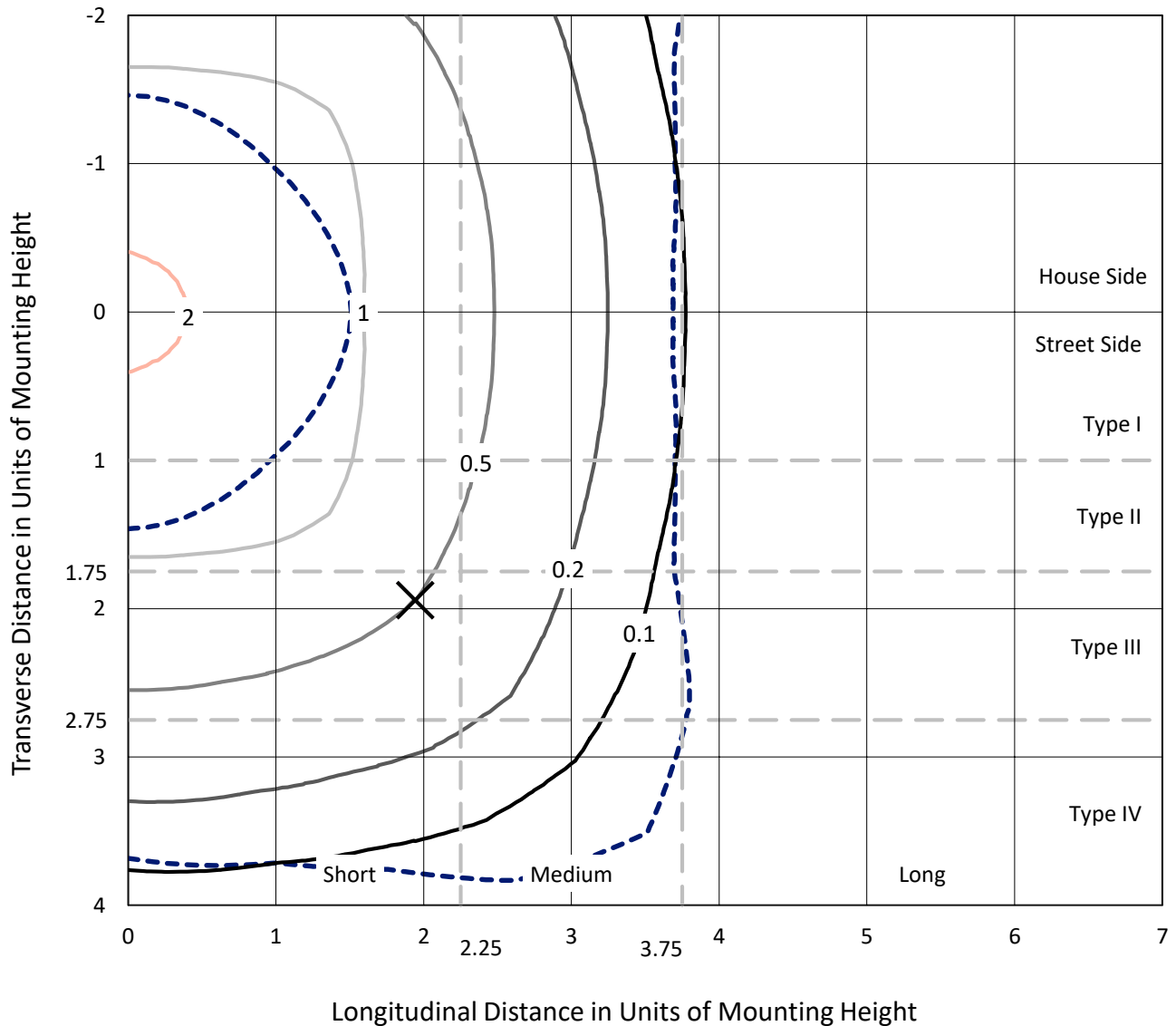
Input Watts (W): 19
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

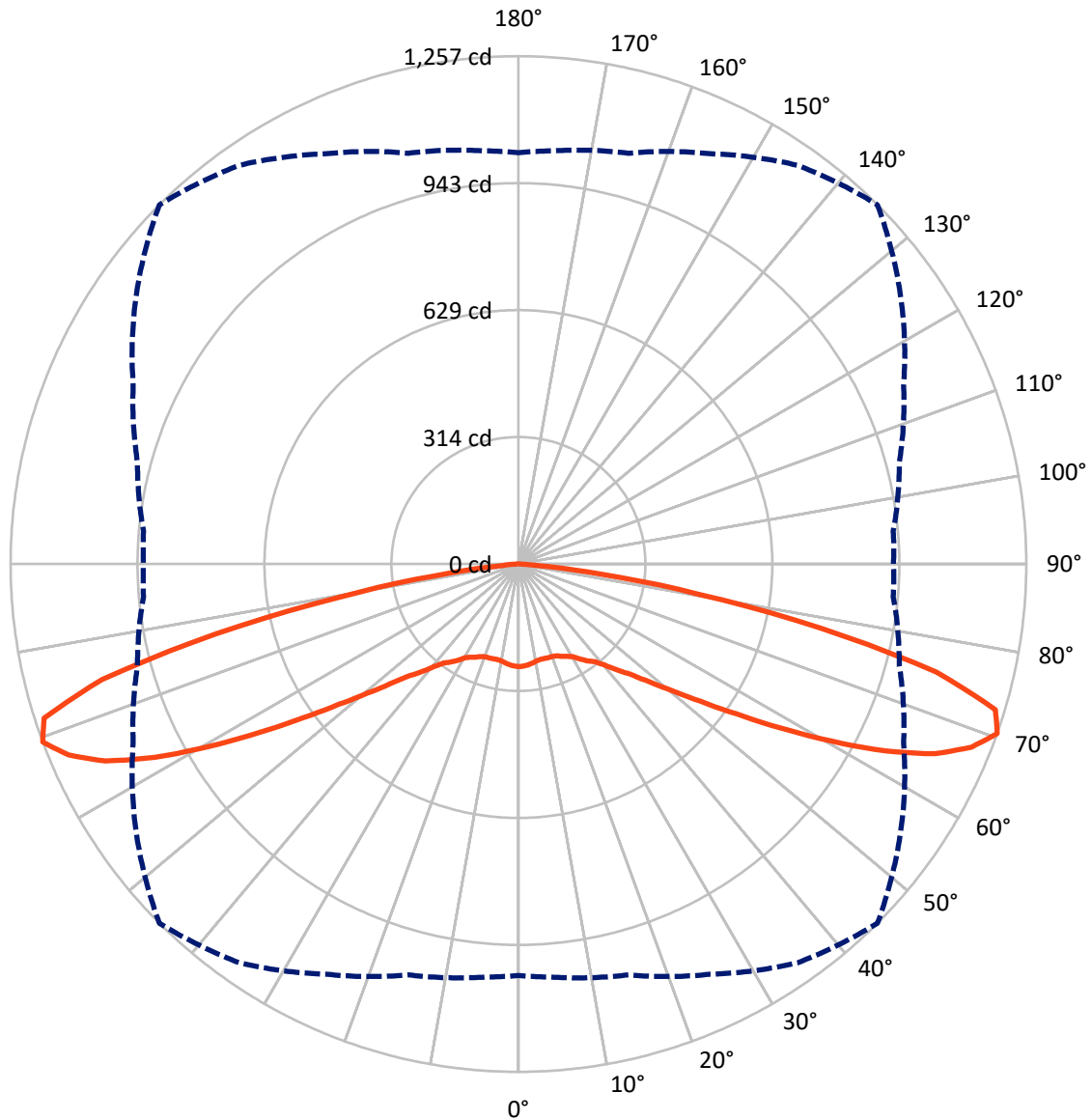
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 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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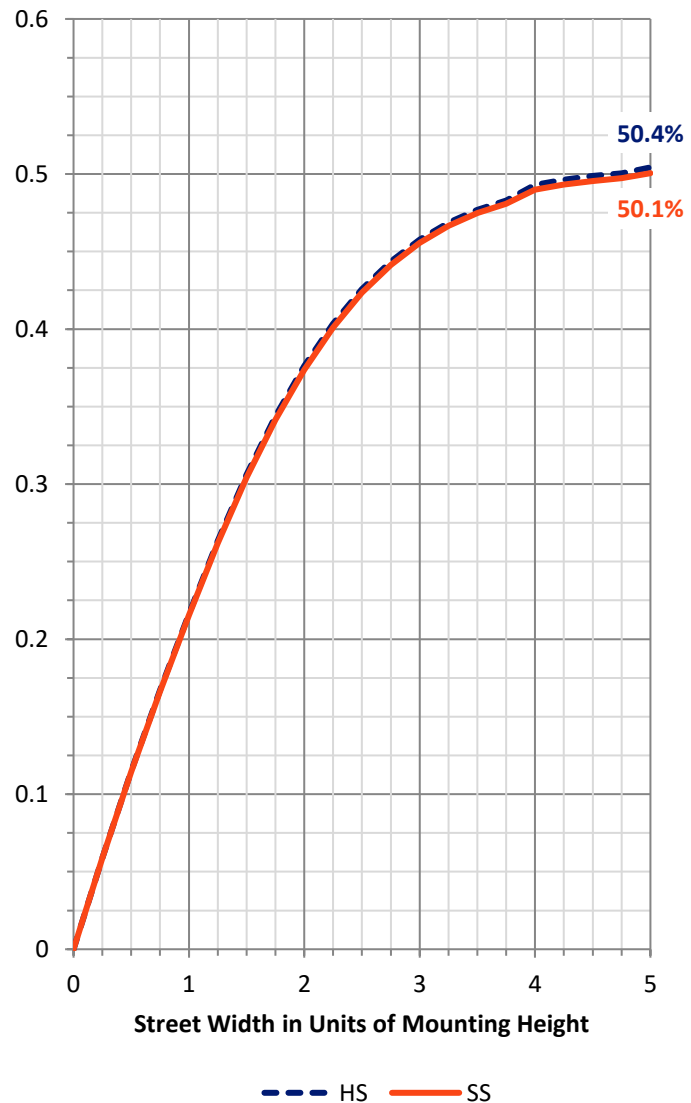
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1544.0	0.0	1544.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1544.0	0.0	1544.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3088.0	0.0	3088.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	0.8
10°-20°	69.3	2.2
20°-30°	118.1	3.8
30°-40°	184.6	6.0
40°-50°	312.8	10.1
50°-60°	570.5	18.5
60°-70°	982.1	31.8
70°-80°	769.8	24.9
80°-90°	57.1	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°	3088.0	100.0
0°-180°	3088.0	100.0



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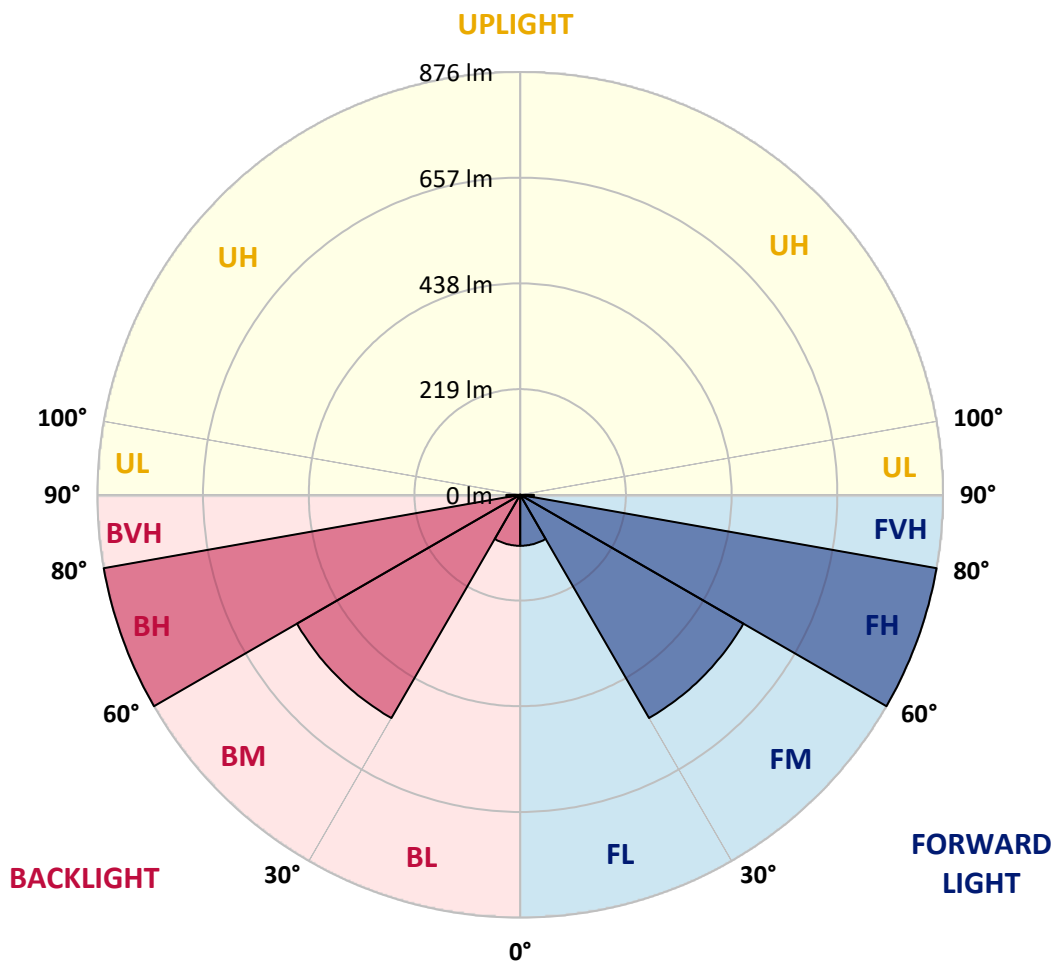
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	105.6	3.4			
FM	(30°-60°)	533.9	17.3			
FH	(60°-80°)	876.0	28.4			G1/1800
FVH	(80°-90°)	28.5	0.9			G1/100
BL	(0°-30°)	105.6	3.4	B0/110		
BM	(30°-60°)	533.9	17.3	B1/1000		
BH	(60°-80°)	876.0	28.4	B2/1000		G1/1800
BVH	(80°-90°)	28.5	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	254.1	254.1	254.1	254.1	254.1	254.1	254.1	254.1	254.1	254.1	254.1
2.5°	253.0	253.3	253.0	253.2	252.7	252.9	252.9	252.9	252.8	252.9	252.7
5°	250.8	251.0	250.6	250.8	250.5	250.8	250.9	250.8	250.6	250.7	250.3
7.5°	247.4	247.6	247.3	247.6	247.2	247.7	247.6	247.3	247.0	247.0	246.6
10°	245.6	245.7	244.8	244.5	243.6	243.8	244.1	244.4	244.7	245.4	245.3
12.5°	245.7	245.7	244.4	243.1	241.8	242.1	242.6	243.7	244.9	246.1	246.2
15°	246.7	246.6	244.7	242.6	241.7	242.6	242.9	243.6	245.6	247.5	247.6
17.5°	247.4	247.4	244.5	242.1	242.0	243.4	243.3	243.6	245.8	248.6	248.7
20°	248.7	248.7	245.1	242.4	242.4	243.9	244.0	244.5	246.7	249.9	250.4
22.5°	251.7	251.8	247.9	245.8	246.0	246.9	247.2	248.0	250.0	253.4	254.0
25°	255.9	256.1	252.1	250.9	251.6	253.3	253.1	253.7	255.9	259.3	259.9
27.5°	261.7	261.2	257.5	257.0	257.7	258.9	258.8	258.9	260.7	263.7	264.5
30°	269.3	269.1	266.4	266.7	266.4	266.0	266.1	266.9	267.8	270.3	271.0
32.5°	276.6	276.8	275.2	276.7	279.0	280.5	278.1	275.9	274.9	276.2	276.8
35°	289.9	290.4	287.9	286.8	289.9	294.4	287.7	284.1	286.1	287.9	288.4
37.5°	312.5	312.8	308.5	304.4	302.2	306.4	299.8	300.1	307.3	310.5	310.4
40°	338.2	338.3	335.5	331.9	328.0	329.0	326.4	327.2	331.9	334.8	335.7
42.5°	368.9	368.5	364.1	358.9	357.8	358.8	354.3	353.7	359.2	364.5	364.6
45°	408.6	407.9	402.1	396.4	391.0	388.8	387.6	390.6	398.1	403.0	403.1
47.5°	451.4	449.4	446.4	441.9	437.2	434.9	433.1	434.5	439.9	441.9	442.1
50°	495.4	495.8	496.4	494.7	493.0	492.2	487.4	484.7	486.3	482.7	482.2
52.5°	547.6	548.4	554.4	559.4	562.3	563.9	554.8	545.3	540.0	533.0	531.0
55°	609.2	610.5	619.2	633.1	647.4	655.0	638.5	620.7	604.3	591.3	587.1
57.5°	677.9	680.2	692.2	718.8	748.1	766.0	738.2	705.9	674.2	655.5	652.2
60°	758.3	760.6	777.1	815.3	862.8	889.7	847.6	794.8	755.3	737.4	731.4
62.5°	854.2	854.4	874.7	919.3	982.0	1019.4	962.4	891.8	851.1	829.5	823.7
65°	957.2	957.7	978.8	1027.0	1091.9	1132.5	1068.2	994.6	944.8	913.0	908.5
67.5°	1030.1	1032.2	1054.4	1112.4	1173.1	1209.7	1143.1	1060.0	1002.4	964.5	960.7
70°	1018.4	1026.8	1052.8	1120.6	1204.9	1257.2	1155.3	1052.2	976.2	931.5	928.3
72.5°	888.2	904.2	938.9	1027.8	1162.7	1234.8	1089.0	942.4	856.4	818.3	812.6
75°	604.8	630.9	683.3	811.5	993.4	1069.1	916.8	751.4	670.5	617.8	613.9
77.5°	269.7	275.6	342.0	489.6	685.5	767.7	666.1	491.5	369.0	294.3	278.6
80°	75.2	76.1	101.5	182.3	343.1	451.1	368.3	191.5	107.7	75.9	71.5
82.5°	23.9	25.9	31.7	47.3	115.3	205.8	118.4	51.1	36.4	29.0	26.1
85°	11.6	11.5	16.0	19.2	29.4	45.6	31.4	23.7	20.7	13.8	12.5
87.5°	4.9	5.0	7.5	6.7	8.6	7.4	10.1	10.6	11.1	6.1	5.3
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)