

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: P348710

Luminaire Tested: **ARCH-N-PA1-20-740-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348710
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-PA1-20-740-U-5WQ
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3497 lumens
Efficiency: N/A
Efficacy: 145.7 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

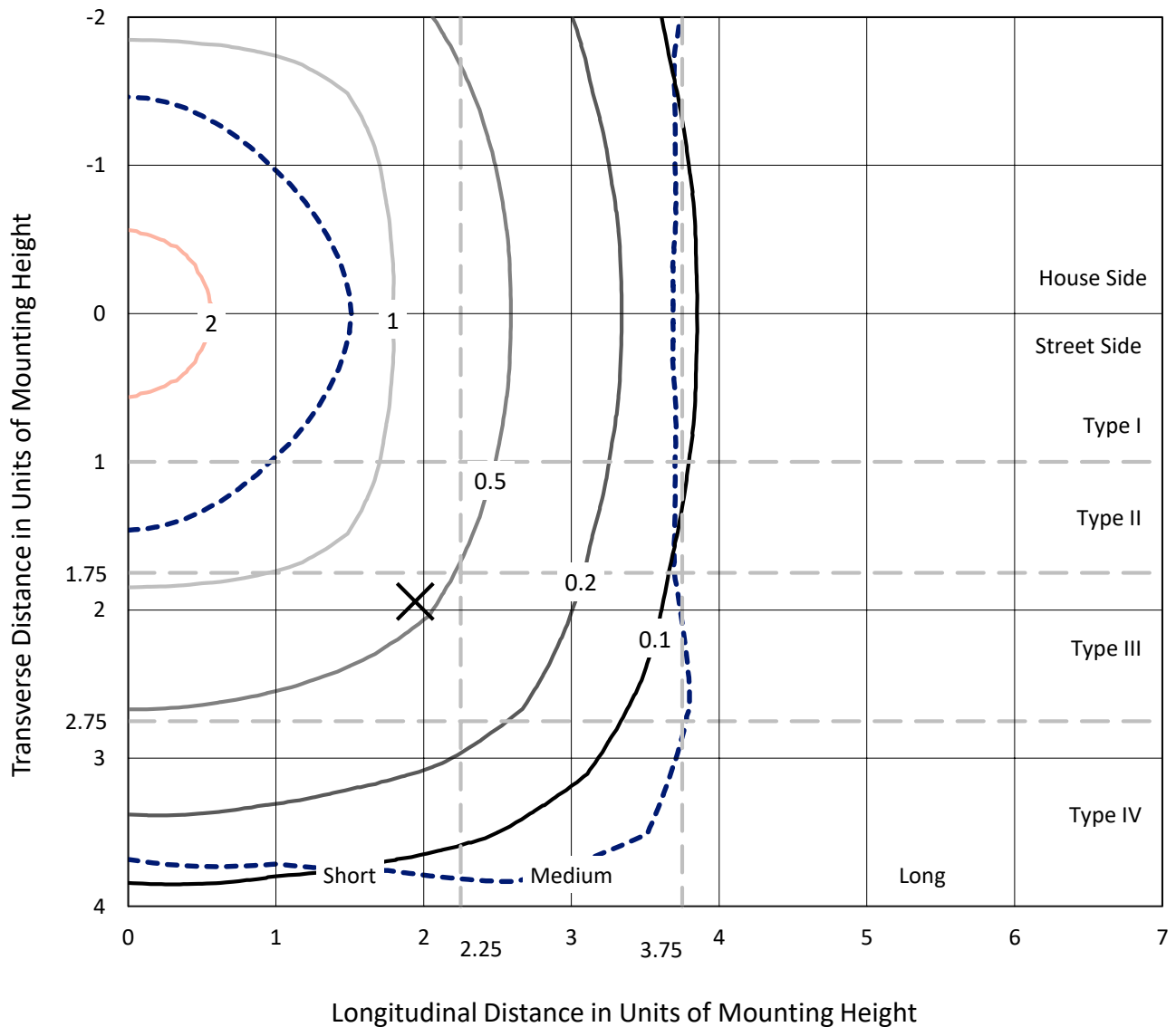
Input Watts (W): 24
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P348710
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Iso-Footcandle Lines of Horizontal Illumination

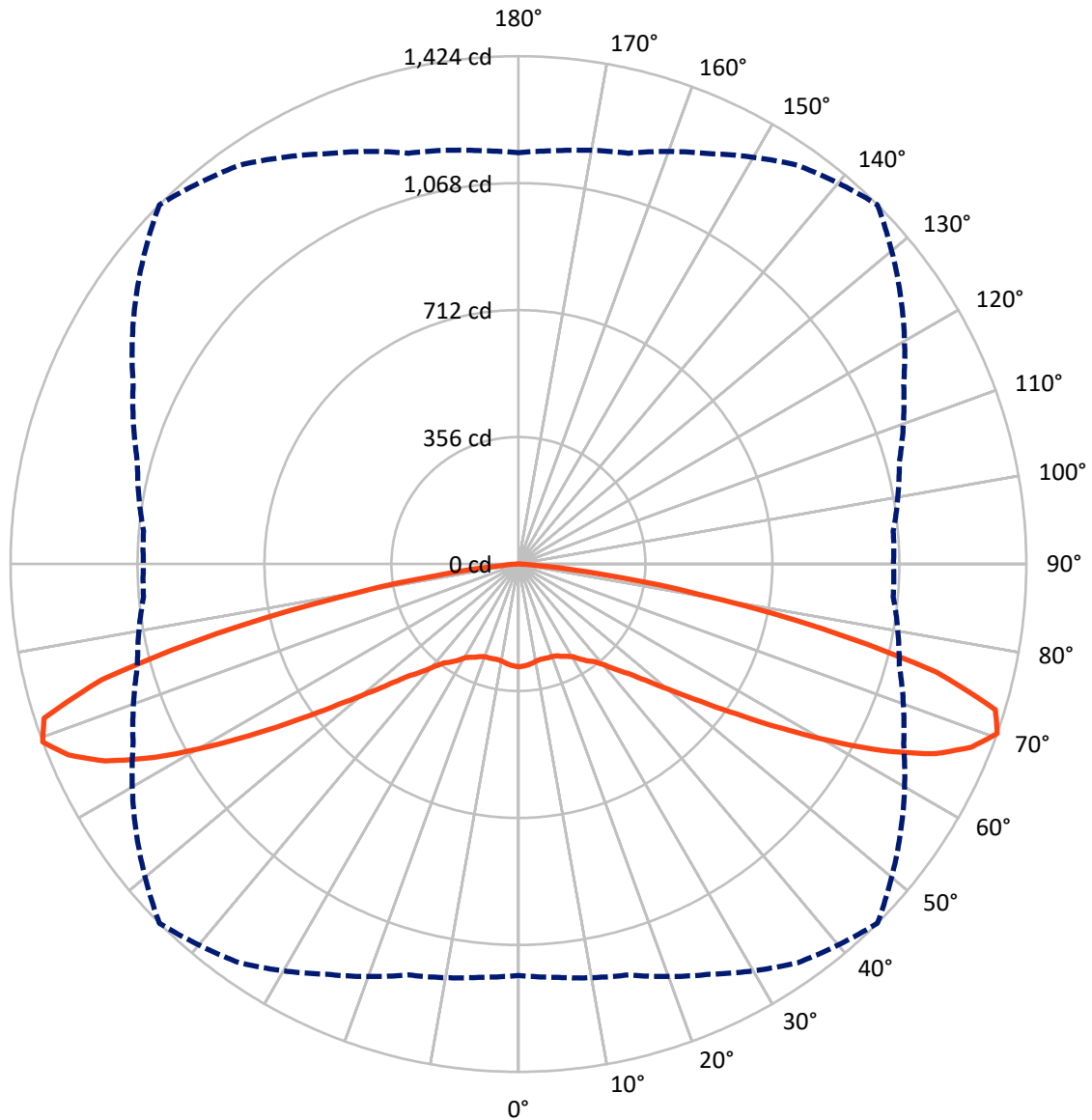
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

REPORT NUMBER: P348710
CATALOG NUMBER: ARCH-N-PA1-20-740-U-5WQ

Luminous Intensity Polar Plot



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

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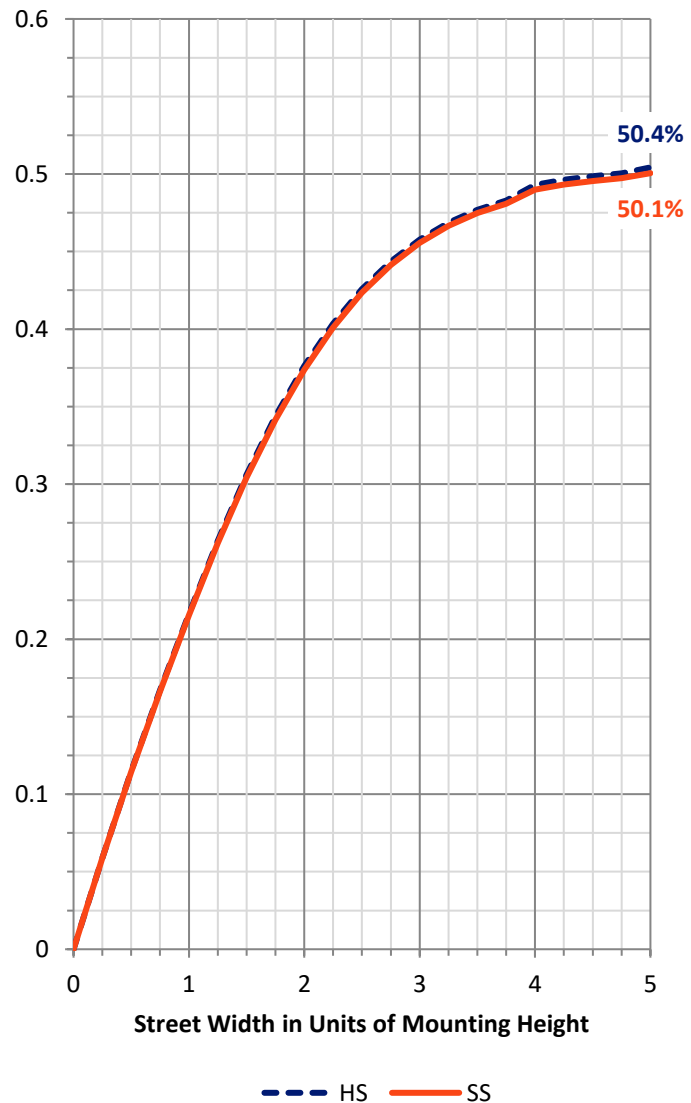
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1748.5	0.0	1748.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1748.5	0.0	1748.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	3497.0	0.0	3497.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.9	0.8
10°-20°	78.5	2.2
20°-30°	133.8	3.8
30°-40°	209.0	6.0
40°-50°	354.3	10.1
50°-60°	646.0	18.5
60°-70°	1112.2	31.8
70°-80°	871.8	24.9
80°-90°	64.6	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°	3497.0	100.0
0°-180°	3497.0	100.0



REPORT NUMBER: P348710

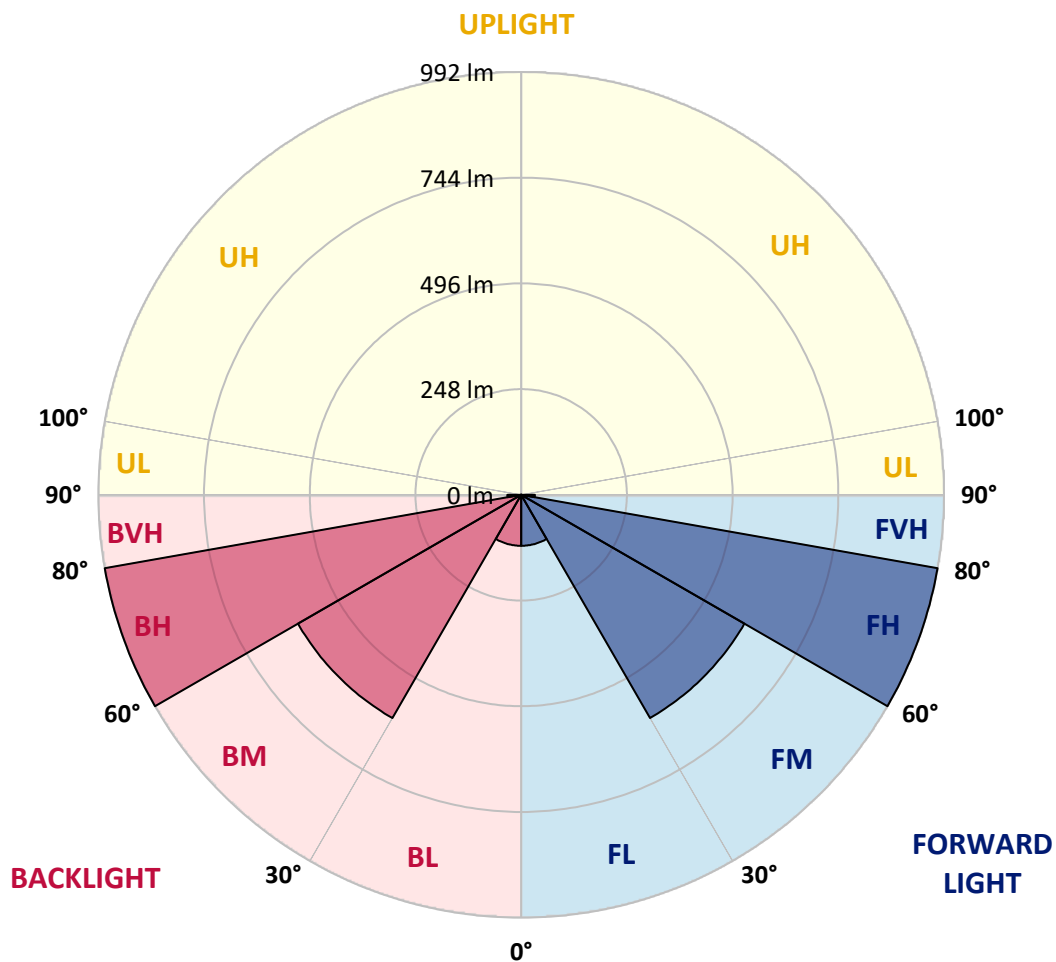
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	119.6	3.4			
FM	(30°-60°)	604.7	17.3			
FH	(60°-80°)	992.0	28.4			G1/1800
FVH	(80°-90°)	32.3	0.9			G1/100
BL	(0°-30°)	119.6	3.4	B1/500		
BM	(30°-60°)	604.7	17.3	B1/1000		
BH	(60°-80°)	992.0	28.4	B2/1000		G1/1800
BVH	(80°-90°)	32.3	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





REPORT NUMBER: P348710

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	287.8	287.8	287.8	287.8	287.8	287.8	287.8	287.8	287.8	287.8	287.8
2.5°	286.5	286.9	286.5	286.8	286.2	286.4	286.4	286.4	286.3	286.4	286.2
5°	284.0	284.2	283.8	284.0	283.6	284.0	284.1	284.0	283.8	283.9	283.4
7.5°	280.2	280.4	280.1	280.4	279.9	280.5	280.4	280.1	279.7	279.7	279.2
10°	278.1	278.2	277.3	276.9	275.9	276.1	276.5	276.8	277.2	277.9	277.7
12.5°	278.2	278.2	276.8	275.3	273.8	274.2	274.7	276.0	277.4	278.7	278.8
15°	279.4	279.2	277.2	274.7	273.7	274.7	275.1	275.9	278.1	280.3	280.4
17.5°	280.2	280.2	276.9	274.2	274.0	275.7	275.5	275.9	278.3	281.6	281.7
20°	281.7	281.7	277.5	274.5	274.5	276.2	276.4	276.9	279.4	282.9	283.5
22.5°	285.0	285.1	280.7	278.3	278.5	279.6	279.9	280.9	283.1	287.0	287.7
25°	289.8	290.0	285.5	284.1	284.9	286.9	286.6	287.3	289.8	293.6	294.3
27.5°	296.4	295.8	291.6	291.0	291.9	293.2	293.1	293.2	295.2	298.7	299.5
30°	304.9	304.7	301.7	302.0	301.7	301.2	301.3	302.3	303.3	306.1	306.9
32.5°	313.3	313.5	311.6	313.4	315.9	317.6	315.0	312.4	311.3	312.8	313.5
35°	328.3	328.9	326.0	324.8	328.3	333.4	325.9	321.7	324.0	326.0	326.6
37.5°	353.9	354.2	349.3	344.7	342.2	347.0	339.5	339.9	348.0	351.7	351.5
40°	383.0	383.1	379.9	375.8	371.4	372.6	369.6	370.5	375.8	379.2	380.1
42.5°	417.7	417.4	412.3	406.5	405.2	406.4	401.3	400.6	406.7	412.7	412.9
45°	462.7	461.9	455.3	448.9	442.8	440.3	439.0	442.3	450.8	456.3	456.5
47.5°	511.2	509.0	505.5	500.4	495.1	492.6	490.5	492.1	498.2	500.4	500.6
50°	561.0	561.5	562.2	560.2	558.3	557.4	552.0	548.9	550.7	546.7	546.1
52.5°	620.1	621.1	627.8	633.4	636.8	638.5	628.2	617.5	611.5	603.6	601.3
55°	689.9	691.4	701.2	717.0	733.2	741.7	723.1	703.0	684.3	669.7	664.9
57.5°	767.6	770.3	783.8	814.0	847.2	867.5	836.0	799.4	763.5	742.3	738.6
60°	858.8	861.3	880.1	923.3	977.1	1007.5	959.9	900.1	855.3	835.1	828.2
62.5°	967.3	967.5	990.5	1041.1	1112.1	1154.5	1089.9	1010.0	963.8	939.4	932.8
65°	1084.0	1084.6	1108.4	1163.0	1236.5	1282.5	1209.6	1126.3	1069.9	1033.9	1028.8
67.5°	1166.5	1168.9	1194.0	1259.7	1328.4	1370.0	1294.5	1200.4	1135.1	1092.2	1087.9
70°	1153.3	1162.8	1192.3	1269.0	1364.5	1423.7	1308.3	1191.6	1105.5	1054.9	1051.3
72.5°	1005.8	1024.0	1063.3	1163.9	1316.7	1398.3	1233.2	1067.2	969.8	926.7	920.2
75°	684.9	714.4	773.8	918.9	1125.0	1210.7	1038.2	850.9	759.3	699.6	695.2
77.5°	305.4	312.1	387.3	554.4	776.3	869.4	754.3	556.6	417.8	333.3	315.5
80°	85.1	86.2	115.0	206.5	388.6	510.8	417.1	216.9	121.9	85.9	81.0
82.5°	27.1	29.4	35.9	53.6	130.6	233.1	134.1	57.8	41.2	32.9	29.6
85°	13.2	13.1	18.2	21.7	33.3	51.6	35.5	26.8	23.5	15.6	14.1
87.5°	5.6	5.7	8.4	7.6	9.7	8.3	11.5	12.0	12.6	6.9	6.0
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)