

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: P214531

Luminaire Tested: **ARCH-AF24-20-D-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-AF24-20-D-U-5WQ-7050
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2905 lumens
Efficiency: N/A
Efficacy: 138.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 21
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

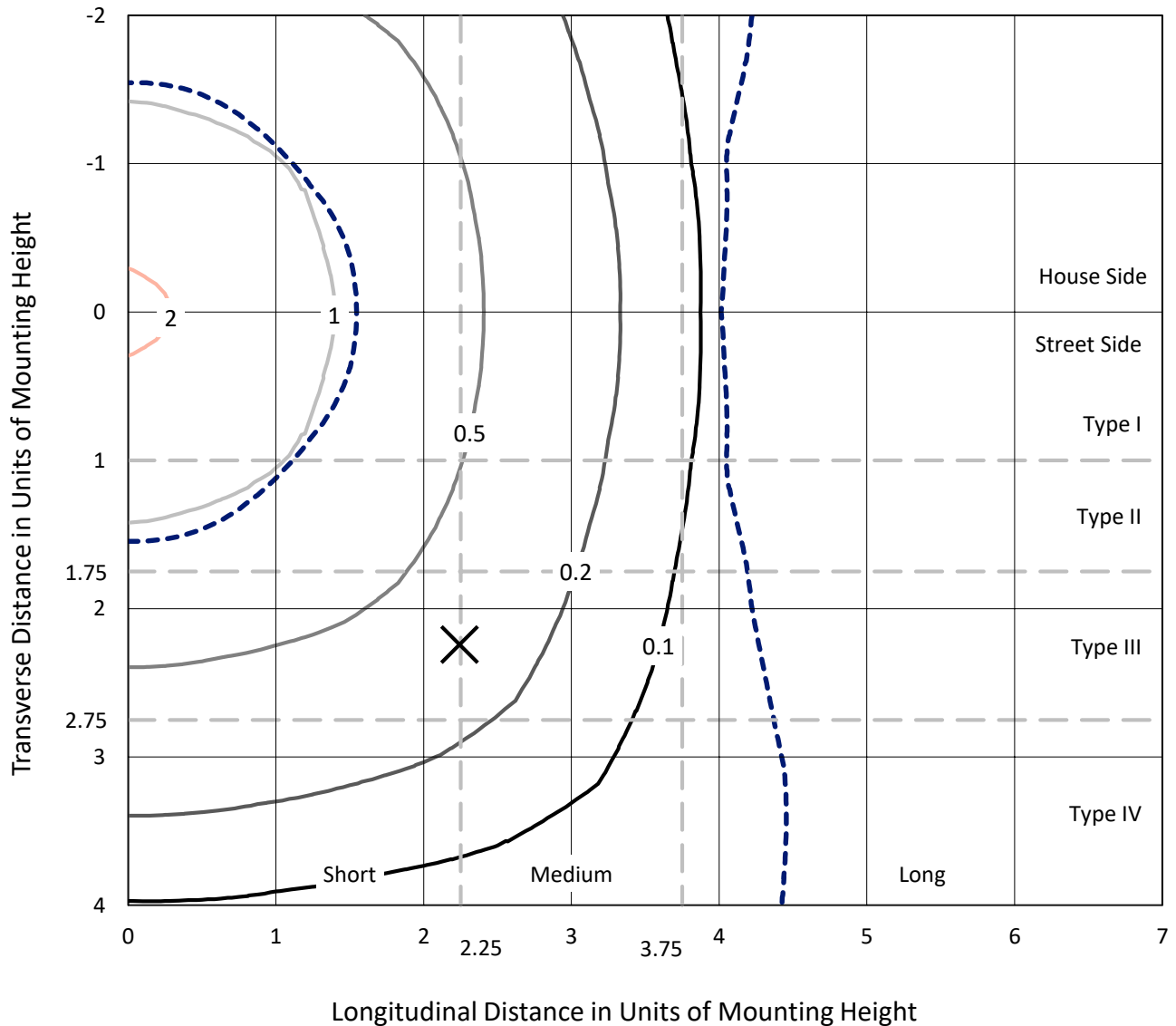


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

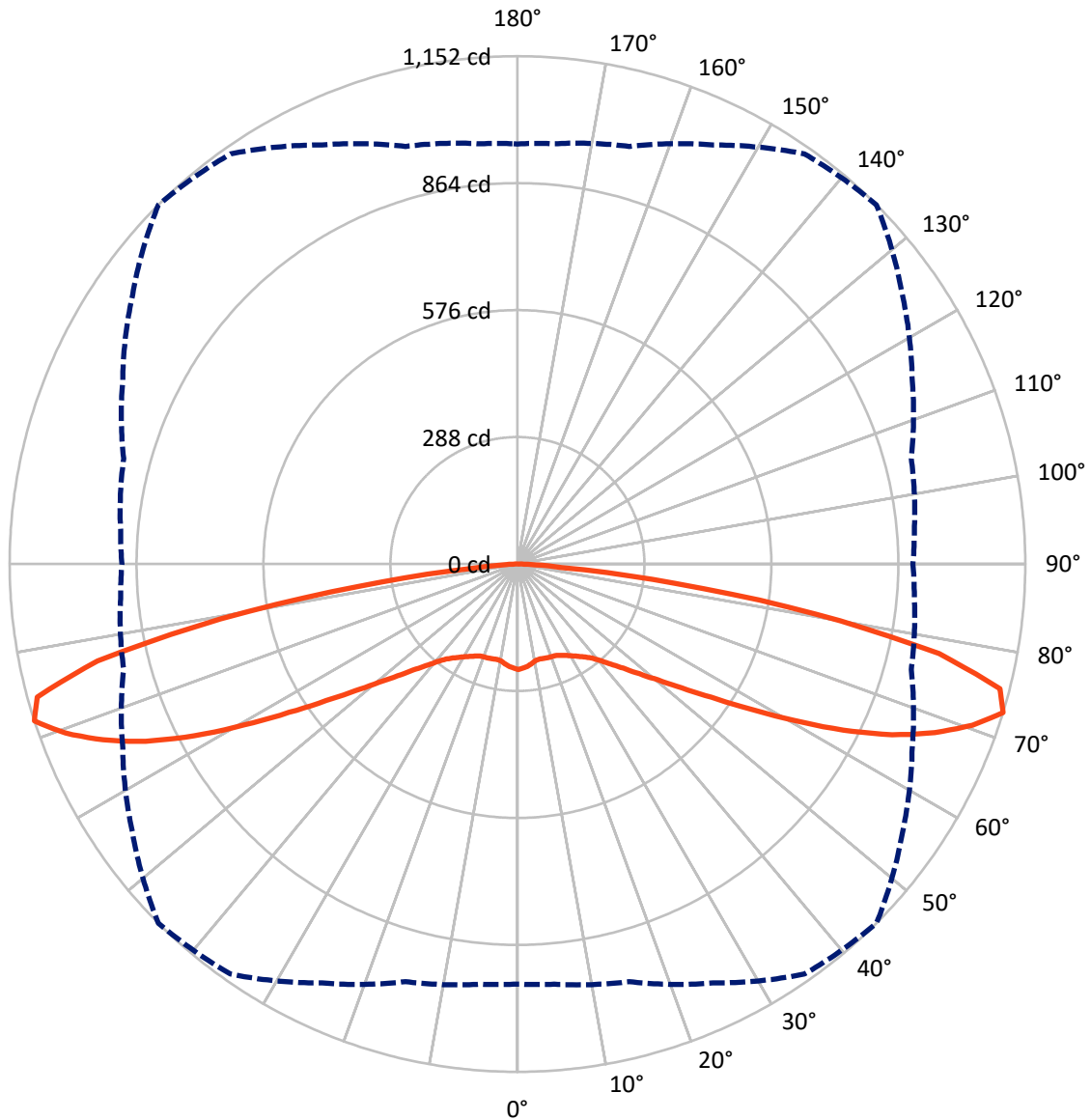


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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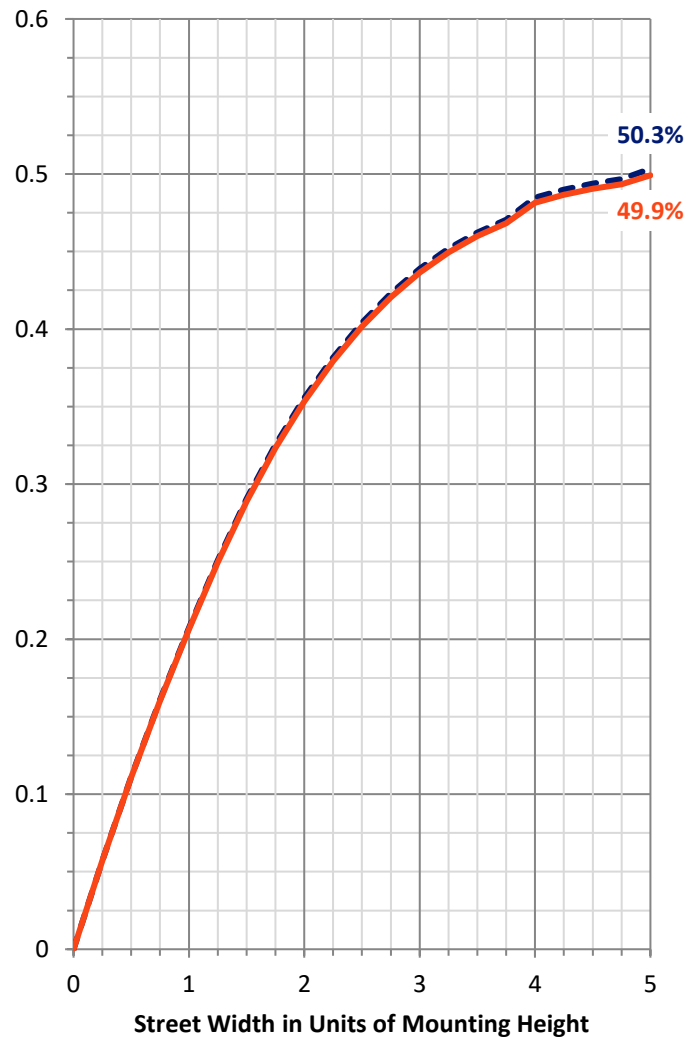
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1452.5	0.0	1452.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1452.5	0.0	1452.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2905.0	0.0	2905.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	0.8
10°-20°	63.6	2.2
20°-30°	106.4	3.7
30°-40°	163.4	5.6
40°-50°	270.6	9.3
50°-60°	481.1	16.6
60°-70°	841.7	29.0
70°-80°	856.4	29.5
80°-90°	99.7	3.4
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°	2905.0	100.0
0°-180°	2905.0	100.0



--- HS — SS

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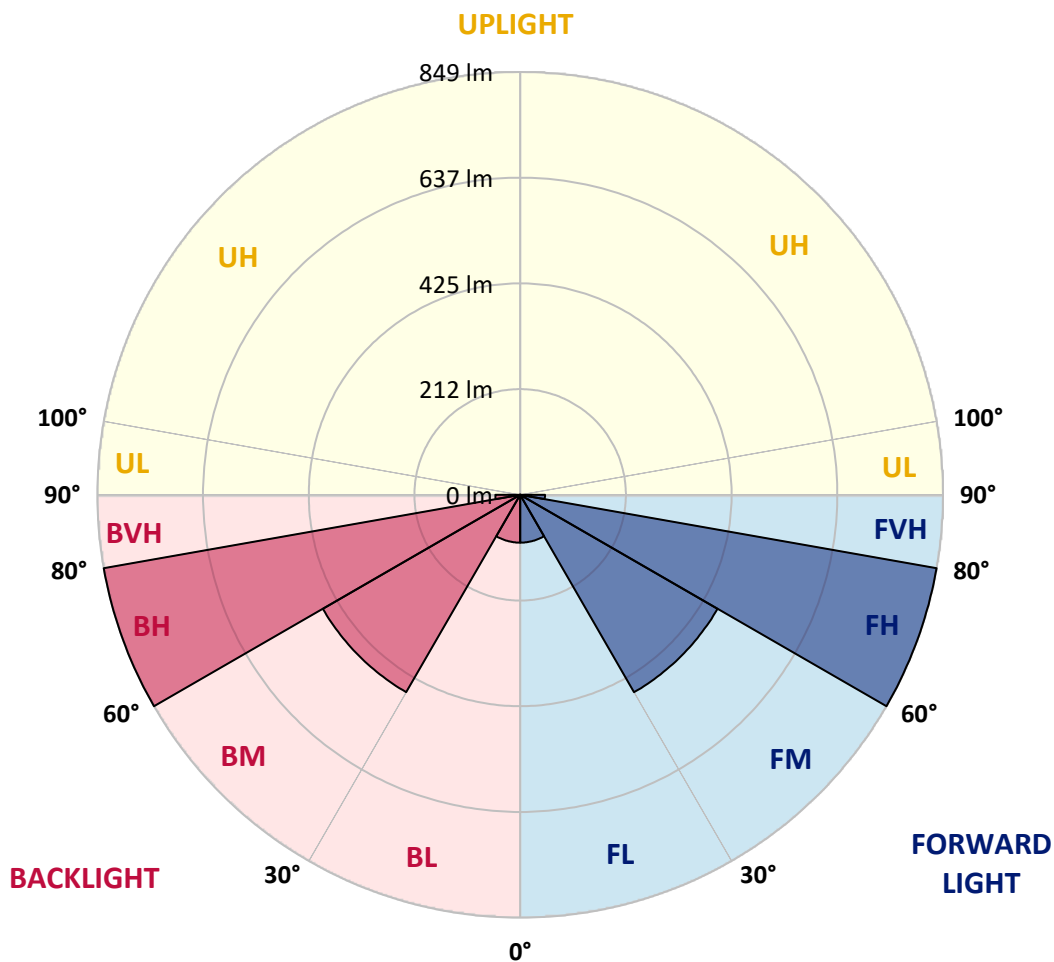
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	96.0	3.3			
FM	(30°-60°)	457.6	15.8			
FH	(60°-80°)	849.0	29.2			G1/1800
FVH	(80°-90°)	49.9	1.7			G1/100
BL	(0°-30°)	96.0	3.3	B0/110		
BM	(30°-60°)	457.6	15.8	B1/1000		
BH	(60°-80°)	849.0	29.2	B2/1000		G1/1800
BVH	(80°-90°)	49.9	1.7			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°	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4	239.4
2.5°	237.2	237.8	236.7	236.7	236.7	236.1	236.7	236.1	236.7	237.2	237.2
5°	235.0	235.0	233.9	233.9	233.9	233.4	233.9	233.9	234.5	235.0	235.0
7.5°	230.0	230.0	229.5	228.9	228.4	228.4	228.9	228.9	229.5	230.0	230.0
10°	227.3	226.7	225.6	224.0	223.4	222.9	224.0	225.1	226.7	228.4	227.8
12.5°	226.2	225.6	223.4	221.7	220.6	221.2	222.3	223.4	226.2	227.8	227.3
15°	227.3	226.2	223.4	220.6	221.2	222.3	223.4	223.4	226.7	228.4	228.4
17.5°	227.3	226.7	223.4	221.2	221.7	223.4	224.0	223.4	226.2	228.9	228.9
20°	227.8	227.8	223.4	221.7	222.3	224.0	224.5	224.0	226.2	229.5	229.5
22.5°	228.9	228.4	224.0	222.9	224.0	225.1	225.6	225.1	227.3	230.0	230.6
25°	231.1	230.0	226.2	225.6	227.8	229.5	229.5	228.4	229.5	232.3	232.3
27.5°	233.9	233.4	228.9	228.9	231.7	235.0	233.4	231.1	232.3	235.0	235.0
30°	238.9	238.3	233.9	233.9	237.8	241.7	237.8	235.0	236.7	239.4	240.0
32.5°	246.1	246.1	242.2	241.1	247.7	249.4	247.7	242.2	243.3	247.2	247.2
35°	258.2	257.1	253.3	252.7	259.3	258.8	258.2	253.3	254.4	258.8	258.8
37.5°	274.3	273.7	270.4	268.7	272.1	269.9	271.0	268.7	271.5	274.8	275.4
40°	294.7	294.2	291.4	289.2	290.3	287.0	288.1	289.2	292.0	294.2	294.7
42.5°	320.2	320.2	317.4	313.5	311.9	310.2	310.2	312.4	315.2	318.0	318.0
45°	351.7	351.7	348.4	344.5	339.5	336.8	337.9	340.1	343.4	346.7	347.8
47.5°	388.7	388.7	384.3	380.4	375.5	372.2	372.2	373.3	378.2	381.0	382.7
50°	430.2	428.6	424.1	420.3	417.5	413.1	413.6	413.1	417.5	421.4	422.5
52.5°	473.3	472.8	468.4	467.3	468.9	466.7	466.7	461.2	462.8	465.1	464.5
55°	527.0	525.3	521.5	523.7	530.3	533.6	532.5	523.7	518.7	519.8	519.2
57.5°	585.6	583.9	582.8	589.5	604.4	618.2	615.5	595.0	585.6	586.2	586.7
60°	645.3	645.3	648.6	665.2	697.3	720.0	711.7	677.4	660.8	657.5	656.4
62.5°	706.7	708.4	715.6	743.2	792.4	830.0	809.0	760.3	735.5	728.8	726.6
65°	778.0	779.7	790.2	824.5	889.7	934.5	898.6	852.7	817.9	804.0	801.8
67.5°	881.4	882.6	890.8	924.0	985.4	1021.4	984.3	943.4	905.8	889.7	888.6
70°	974.3	975.5	982.6	1026.3	1082.7	1095.4	1054.5	1002.5	963.3	950.6	948.4
72.5°	953.3	957.2	981.0	1049.0	1135.8	1152.4	1066.1	988.2	925.1	904.1	897.5
75°	799.6	805.7	843.3	945.6	1083.8	1130.8	997.6	854.4	760.3	720.0	709.5
77.5°	466.7	489.4	554.1	685.1	882.6	978.2	821.7	625.4	467.3	400.9	378.8
80°	127.7	139.9	186.9	315.2	553.5	685.1	524.2	287.0	154.8	116.1	107.8
82.5°	40.4	53.6	68.0	90.7	217.3	361.1	194.6	84.6	66.4	54.7	48.7
85°	21.6	23.2	38.2	44.2	65.3	101.2	60.3	44.2	39.8	29.3	27.6
87.5°	11.1	11.6	21.6	21.6	28.8	23.8	26.0	23.8	22.7	14.4	12.7
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)