

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: P214506

Luminaire Tested: **ARCH-AF24-50-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P214506
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-AF24-50-D-U-5WQ-7030
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5989 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

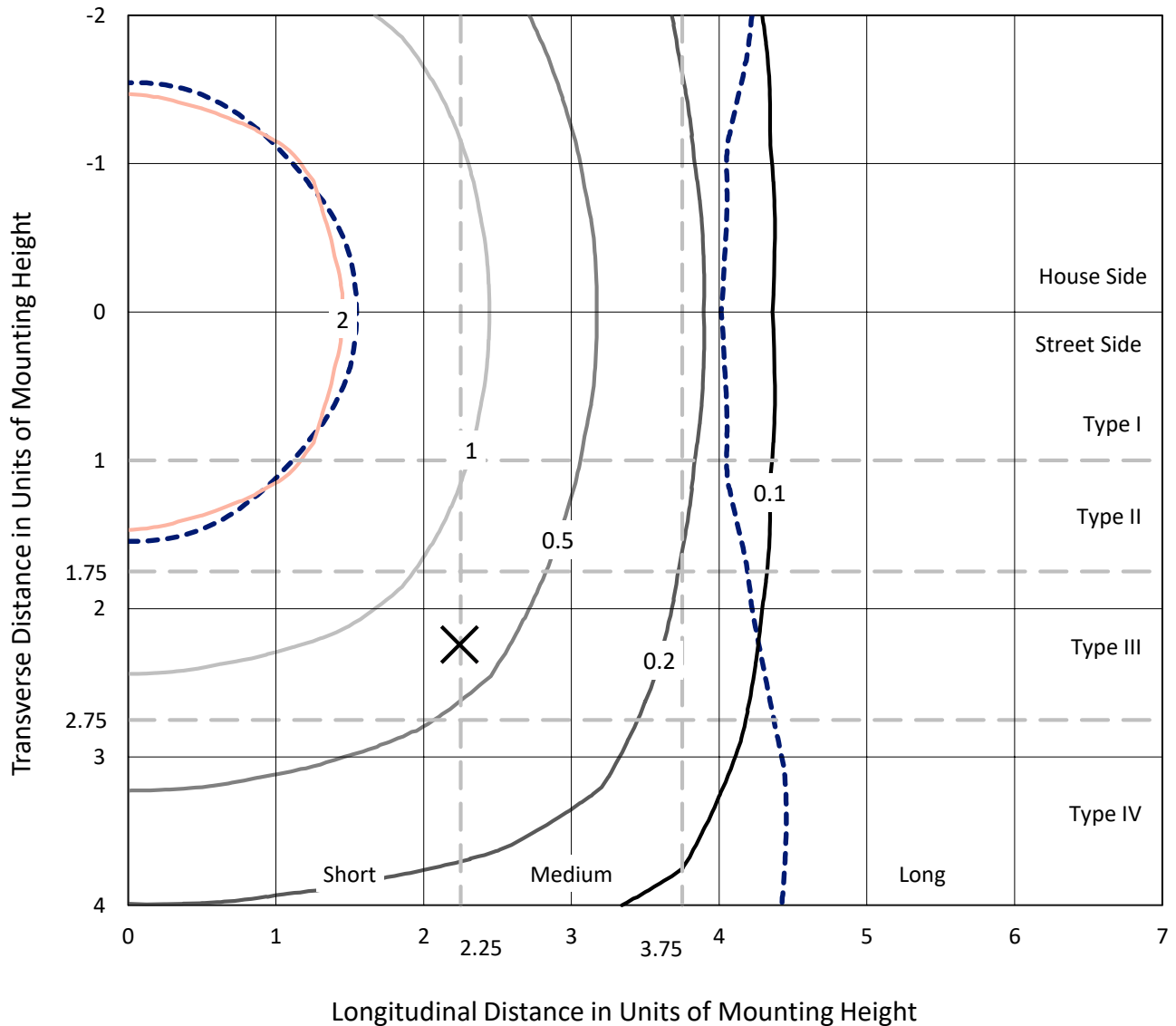
Input Watts (W): 54
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

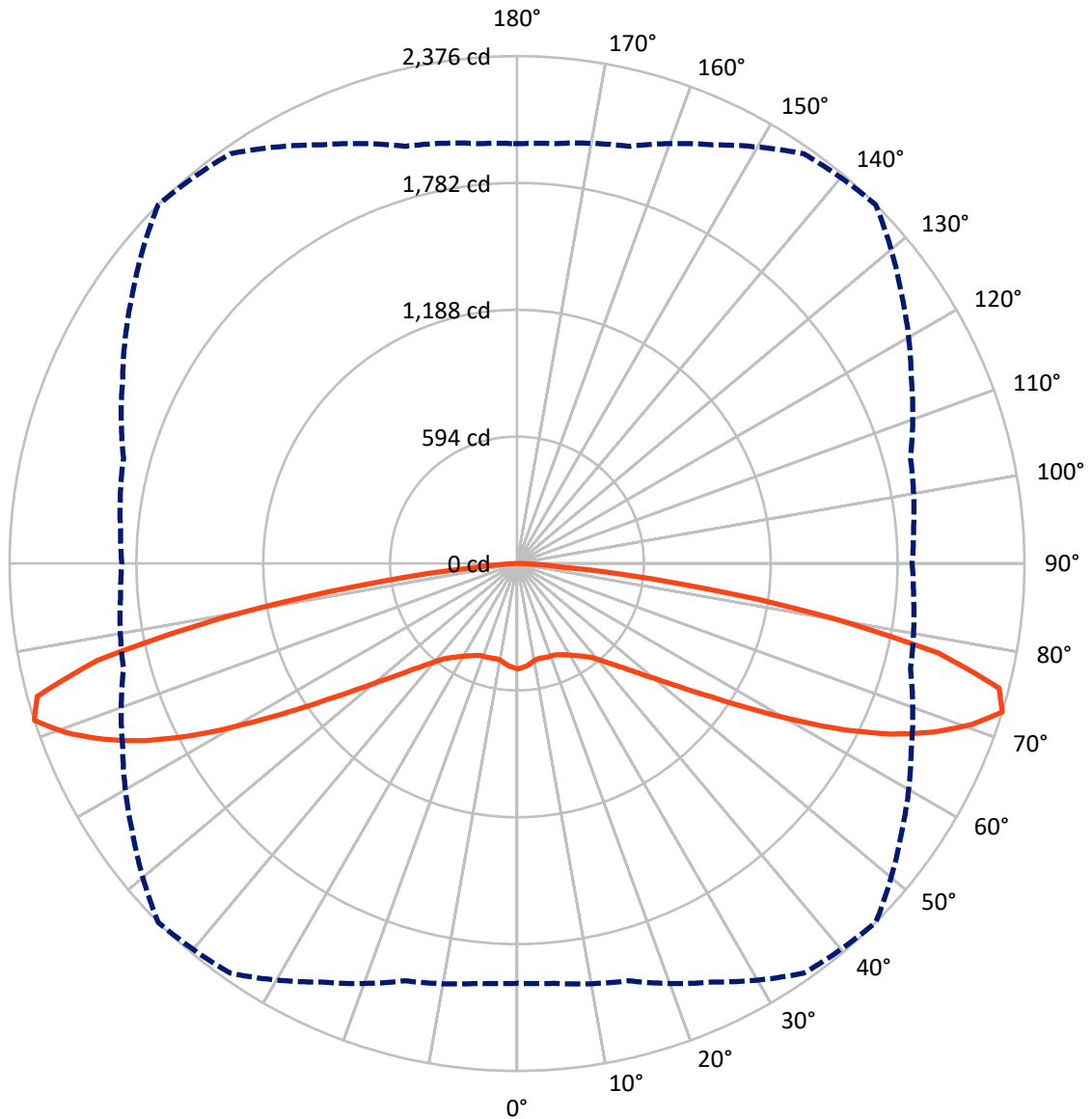


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - Non-Cutoff

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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	2994.5	0.0	2994.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2994.5	0.0	2994.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5989.0	0.0	5989.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	0.8
10°-20°	131.1	2.2
20°-30°	219.3	3.7
30°-40°	337.0	5.6
40°-50°	557.9	9.3
50°-60°	991.9	16.6
60°-70°	1735.3	29.0
70°-80°	1765.5	29.5
80°-90°	205.6	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°	5989.0	100.0
0°-180°	5989.0	100.0



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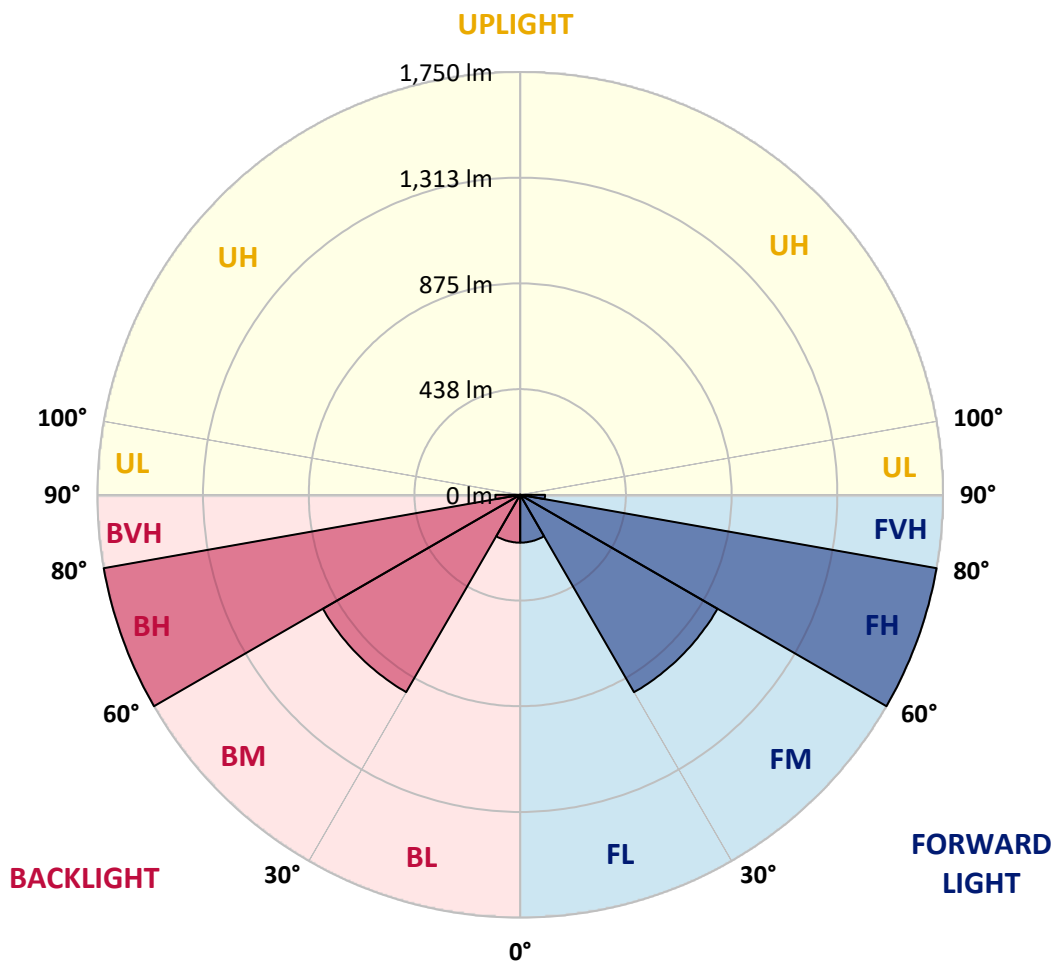
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	197.9	3.3			
FM (30°-60°)	943.4	15.8			
FH (60°-80°)	1750.4	29.2			G1/1800
FVH (80°-90°)	102.8	1.7			G2/225
BL (0°-30°)	197.9	3.3	B1/500		
BM (30°-60°)	943.4	15.8	B1/1000		
BH (60°-80°)	1750.4	29.2	B3/2500		G1/1800
BVH (80°-90°)	102.8	1.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6
2.5°	489.1	490.2	487.9	487.9	487.9	486.8	487.9	486.8	487.9	489.1	489.1
5°	484.5	484.5	482.2	482.2	482.2	481.1	482.2	482.2	483.4	484.5	484.5
7.5°	474.3	474.3	473.1	472.0	470.8	470.8	472.0	472.0	473.1	474.3	474.3
10°	468.6	467.4	465.1	461.7	460.6	459.4	461.7	464.0	467.4	470.8	469.7
12.5°	466.3	465.1	460.6	457.2	454.9	456.0	458.3	460.6	466.3	469.7	468.6
15°	468.6	466.3	460.6	454.9	456.0	458.3	460.6	460.6	467.4	470.8	470.8
17.5°	468.6	467.4	460.6	456.0	457.2	460.6	461.7	460.6	466.3	472.0	472.0
20°	469.7	469.7	460.6	457.2	458.3	461.7	462.9	461.7	466.3	473.1	473.1
22.5°	472.0	470.8	461.7	459.4	461.7	464.0	465.1	464.0	468.6	474.3	475.4
25°	476.5	474.3	466.3	465.1	469.7	473.1	473.1	470.8	473.1	478.8	478.8
27.5°	482.2	481.1	472.0	472.0	477.7	484.5	481.1	476.5	478.8	484.5	484.5
30°	492.5	491.4	482.2	482.2	490.2	498.2	490.2	484.5	487.9	493.6	494.8
32.5°	507.3	507.3	499.3	497.1	510.7	514.2	510.7	499.3	501.6	509.6	509.6
35°	532.4	530.1	522.1	521.0	534.7	533.5	532.4	522.1	524.4	533.5	533.5
37.5°	565.5	564.3	557.5	554.1	560.9	556.3	558.6	554.1	559.8	566.6	567.7
40°	607.6	606.5	600.8	596.2	598.5	591.7	594.0	596.2	601.9	606.5	607.6
42.5°	660.1	660.1	654.4	646.4	643.0	639.6	639.6	644.1	649.8	655.5	655.5
45°	725.1	725.1	718.2	710.2	700.0	694.3	696.6	701.1	708.0	714.8	717.1
47.5°	801.4	801.4	792.3	784.3	774.1	767.2	767.2	769.5	779.8	785.5	788.9
50°	886.9	883.5	874.4	866.4	860.7	851.6	852.7	851.6	860.7	868.7	871.0
52.5°	975.9	974.7	965.6	963.3	966.7	962.2	962.2	950.8	954.2	958.8	957.6
55°	1086.4	1083.0	1075.0	1079.6	1093.3	1100.1	1097.8	1079.6	1069.3	1071.6	1070.5
57.5°	1207.3	1203.9	1201.6	1215.3	1246.1	1274.6	1268.9	1226.7	1207.3	1208.4	1209.6
60°	1330.4	1330.4	1337.3	1371.5	1437.6	1484.3	1467.2	1396.5	1362.3	1355.5	1353.2
62.5°	1457.0	1460.4	1475.2	1532.2	1633.7	1711.2	1667.9	1567.5	1516.2	1502.6	1498.0
65°	1604.0	1607.4	1629.1	1699.8	1834.3	1926.6	1852.5	1757.9	1686.1	1657.6	1653.0
67.5°	1817.2	1819.5	1836.6	1905.0	2031.5	2105.6	2029.3	1944.9	1867.4	1834.3	1832.0
70°	2008.7	2011.0	2025.8	2115.9	2232.2	2258.4	2174.0	2066.9	1985.9	1959.7	1955.2
72.5°	1965.4	1973.4	2022.4	2162.6	2341.6	2375.8	2198.0	2037.2	1907.3	1863.9	1850.3
75°	1648.5	1661.0	1738.5	1949.5	2234.5	2331.4	2056.6	1761.3	1567.5	1484.3	1462.7
77.5°	962.2	1008.9	1142.3	1412.5	1819.5	2016.7	1694.1	1289.4	963.3	826.5	780.9
80°	263.3	288.4	385.3	649.8	1141.2	1412.5	1080.7	591.7	319.2	239.4	222.3
82.5°	83.2	110.6	140.2	187.0	448.0	744.4	401.3	174.4	136.8	112.9	100.3
85°	44.5	47.9	78.7	91.2	134.5	208.6	124.3	91.2	82.1	60.4	57.0
87.5°	22.8	23.9	44.5	44.5	59.3	49.0	53.6	49.0	46.7	29.6	26.2
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)