

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: P230951

Luminaire Tested: **ARCH-M-AF48-100-D-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230951
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-M-AF48-100-D-U-5WQ-7030
Description: ARCHEON-M ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 660mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12098 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 101
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

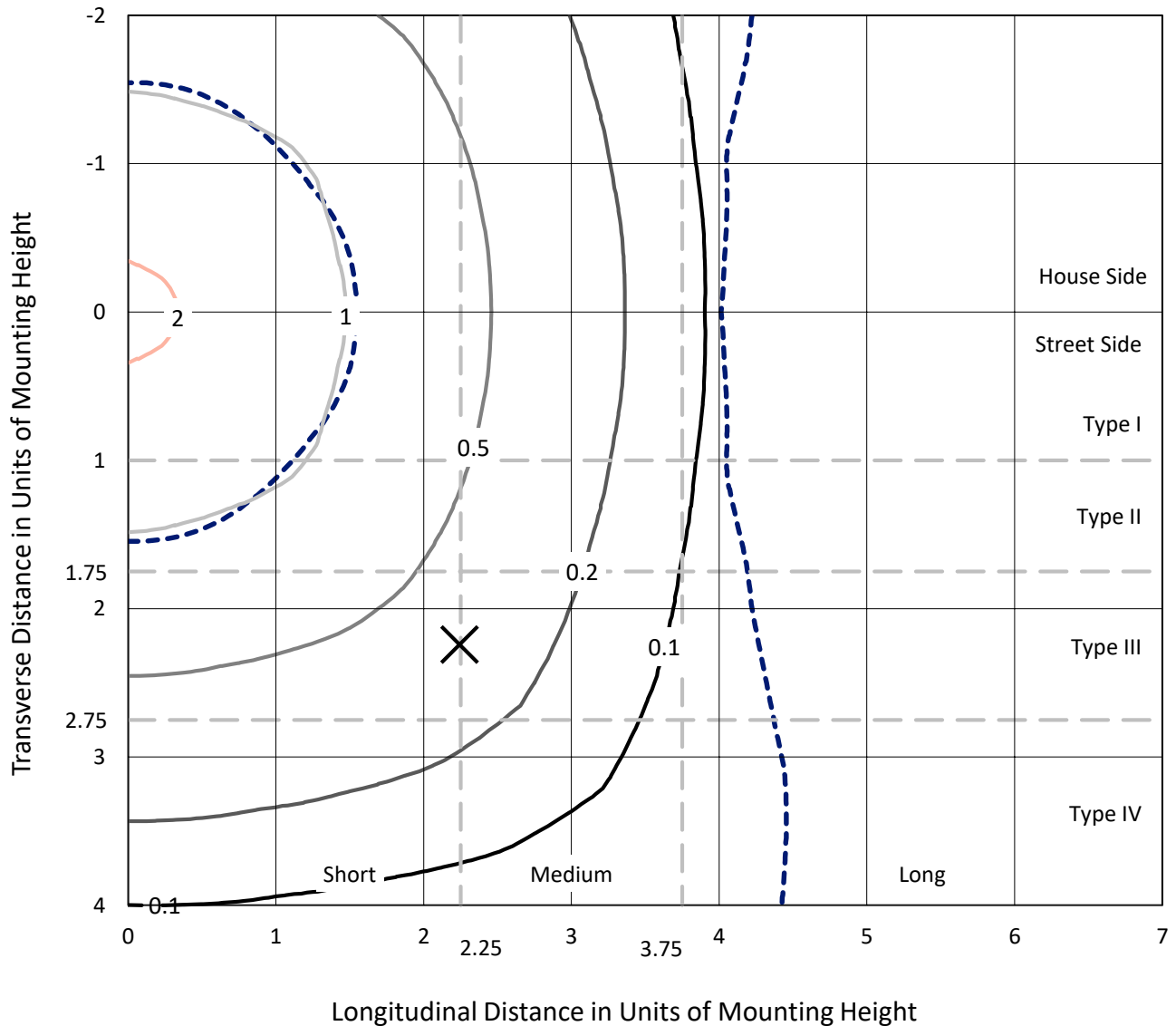


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

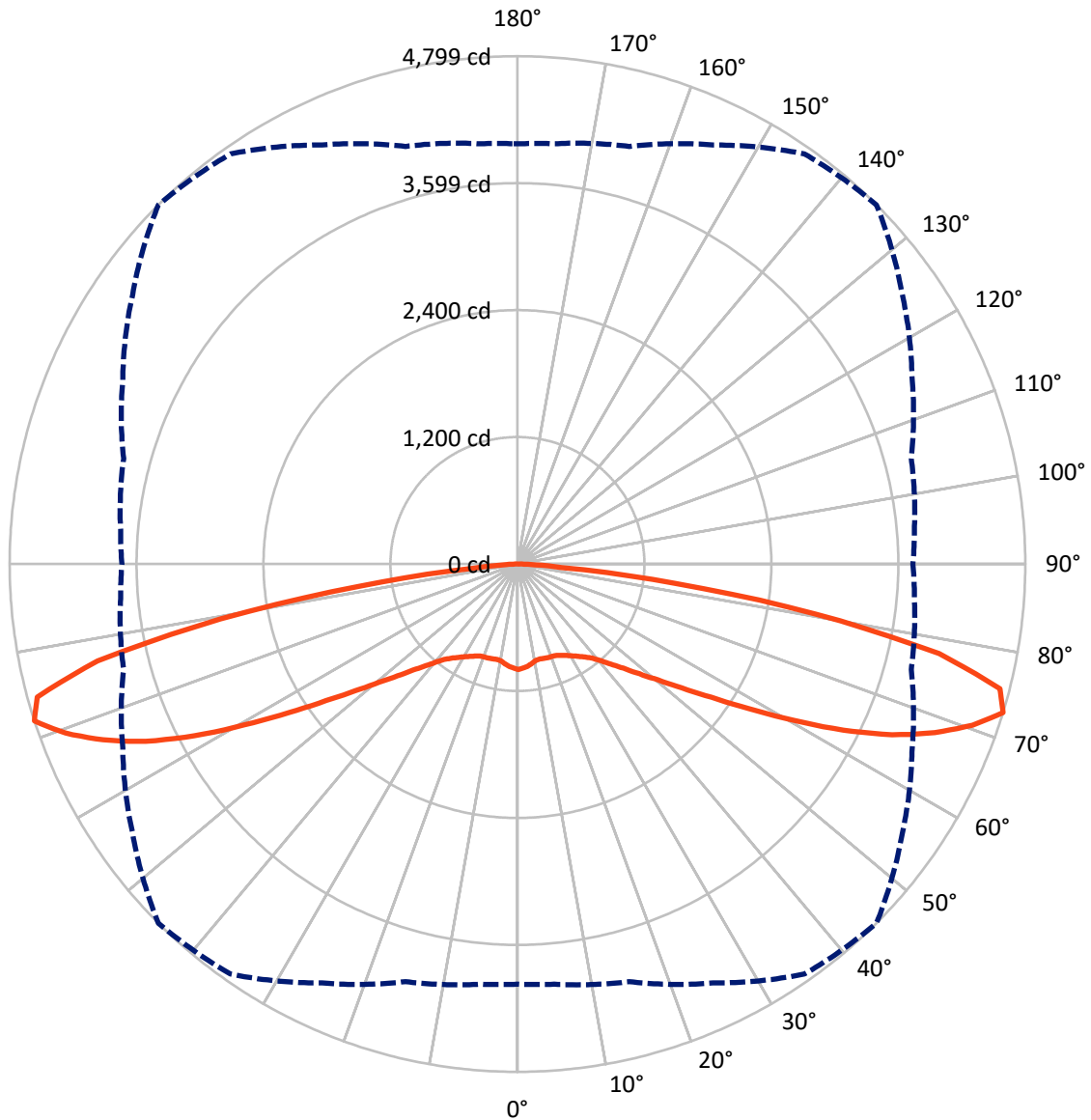


Based on 20 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - Non-Cutoff

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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	6049.0	0.0	6049.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6049.0	0.0	6049.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12098.0	0.0	12098.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	0.8
10°-20°	264.7	2.2
20°-30°	443.0	3.7
30°-40°	680.7	5.6
40°-50°	1127.0	9.3
50°-60°	2003.7	16.6
60°-70°	3505.4	29.0
70°-80°	3566.4	29.5
80°-90°	415.3	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°	12098.0	100.0
0°-180°	12098.0	100.0



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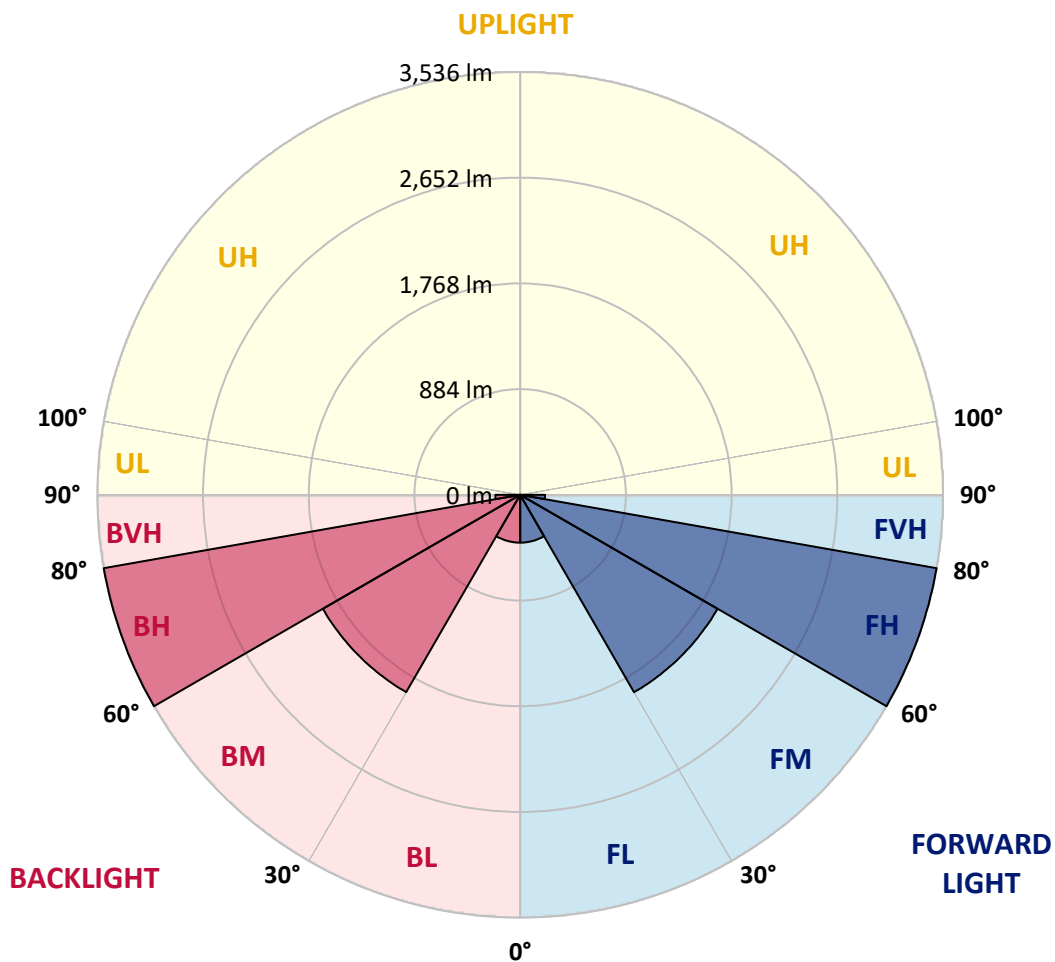
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	399.7	3.3			
FM	(30°-60°)	1905.7	15.8			
FH	(60°-80°)	3535.9	29.2			G2/5000
FVH	(80°-90°)	207.6	1.7			G2/225
BL	(0°-30°)	399.7	3.3	B1/500		
BM	(30°-60°)	1905.7	15.8	B2/2500		
BH	(60°-80°)	3535.9	29.2	B4/5000		G2/5000
BVH	(80°-90°)	207.6	1.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2	997.2
2.5°	987.9	990.2	985.6	985.6	985.6	983.3	985.6	983.3	985.6	987.9	987.9
5°	978.7	978.7	974.1	974.1	974.1	971.8	974.1	974.1	976.4	978.7	978.7
7.5°	958.0	958.0	955.7	953.4	951.1	951.1	953.4	953.4	955.7	958.0	958.0
10°	946.5	944.2	939.6	932.7	930.4	928.1	932.7	937.3	944.2	951.1	948.8
12.5°	941.9	939.6	930.4	923.5	918.9	921.2	925.8	930.4	941.9	948.8	946.5
15°	946.5	941.9	930.4	918.9	921.2	925.8	930.4	930.4	944.2	951.1	951.1
17.5°	946.5	944.2	930.4	921.2	923.5	930.4	932.7	930.4	941.9	953.4	953.4
20°	948.8	948.8	930.4	923.5	925.8	932.7	935.0	932.7	941.9	955.7	955.7
22.5°	953.4	951.1	932.7	928.1	932.7	937.3	939.6	937.3	946.5	958.0	960.3
25°	962.6	958.0	941.9	939.6	948.8	955.7	955.7	951.1	955.7	967.2	967.2
27.5°	974.1	971.8	953.4	953.4	964.9	978.7	971.8	962.6	967.2	978.7	978.7
30°	994.9	992.6	974.1	974.1	990.2	1006.4	990.2	978.7	985.6	997.2	999.5
32.5°	1024.8	1024.8	1008.7	1004.1	1031.7	1038.6	1031.7	1008.7	1013.3	1029.4	1029.4
35°	1075.5	1070.8	1054.7	1052.4	1080.1	1077.8	1075.5	1054.7	1059.3	1077.8	1077.8
37.5°	1142.2	1139.9	1126.1	1119.2	1133.0	1123.8	1128.4	1119.2	1130.7	1144.5	1146.8
40°	1227.4	1225.1	1213.6	1204.4	1209.0	1195.2	1199.8	1204.4	1215.9	1225.1	1227.4
42.5°	1333.4	1333.4	1321.9	1305.7	1298.8	1291.9	1291.9	1301.1	1312.7	1324.2	1324.2
45°	1464.6	1464.6	1450.8	1434.7	1414.0	1402.5	1407.1	1416.3	1430.1	1443.9	1448.5
47.5°	1618.9	1618.9	1600.5	1584.4	1563.7	1549.9	1549.9	1554.5	1575.2	1586.7	1593.6
50°	1791.7	1784.7	1766.3	1750.2	1738.7	1720.3	1722.6	1720.3	1738.7	1754.8	1759.4
52.5°	1971.3	1969.0	1950.6	1946.0	1952.9	1943.6	1943.6	1920.6	1927.5	1936.7	1934.4
55°	2194.7	2187.8	2171.6	2180.8	2208.5	2222.3	2217.7	2180.8	2160.1	2164.7	2162.4
57.5°	2438.8	2431.9	2427.3	2454.9	2517.1	2574.6	2563.1	2477.9	2438.8	2441.1	2443.4
60°	2687.5	2687.5	2701.3	2770.4	2904.0	2998.4	2963.8	2821.1	2752.0	2738.1	2733.5
62.5°	2943.1	2950.0	2980.0	3095.1	3300.1	3456.7	3369.1	3166.5	3062.9	3035.2	3026.0
65°	3240.2	3247.1	3290.8	3433.6	3705.4	3891.9	3742.2	3551.1	3406.0	3348.4	3339.2
67.5°	3670.8	3675.4	3710.0	3848.1	4103.8	4253.5	4099.2	3928.7	3772.2	3705.4	3700.8
70°	4057.7	4062.3	4092.3	4274.2	4509.1	4562.0	4391.6	4175.2	4011.7	3958.7	3949.5
72.5°	3970.2	3986.3	4085.3	4368.6	4730.2	4799.2	4440.0	4115.3	3852.8	3765.2	3737.6
75°	3330.0	3355.3	3511.9	3938.0	4513.7	4709.4	4154.4	3558.0	3166.5	2998.4	2954.6
77.5°	1943.6	2038.1	2307.5	2853.3	3675.4	4073.8	3422.1	2604.6	1946.0	1669.6	1577.5
80°	532.0	582.6	778.4	1312.7	2305.2	2853.3	2183.2	1195.2	644.8	483.6	449.1
82.5°	168.1	223.4	283.3	377.7	905.0	1503.8	810.6	352.3	276.3	228.0	202.7
85°	89.8	96.7	158.9	184.2	271.7	421.4	251.0	184.2	165.8	122.1	115.1
87.5°	46.1	48.4	89.8	89.8	119.8	99.0	108.2	99.0	94.4	59.9	53.0
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)