

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: P798719

Luminaire Tested: **ARCH1-30-727-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-30-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4397 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B2 - U0 - G1

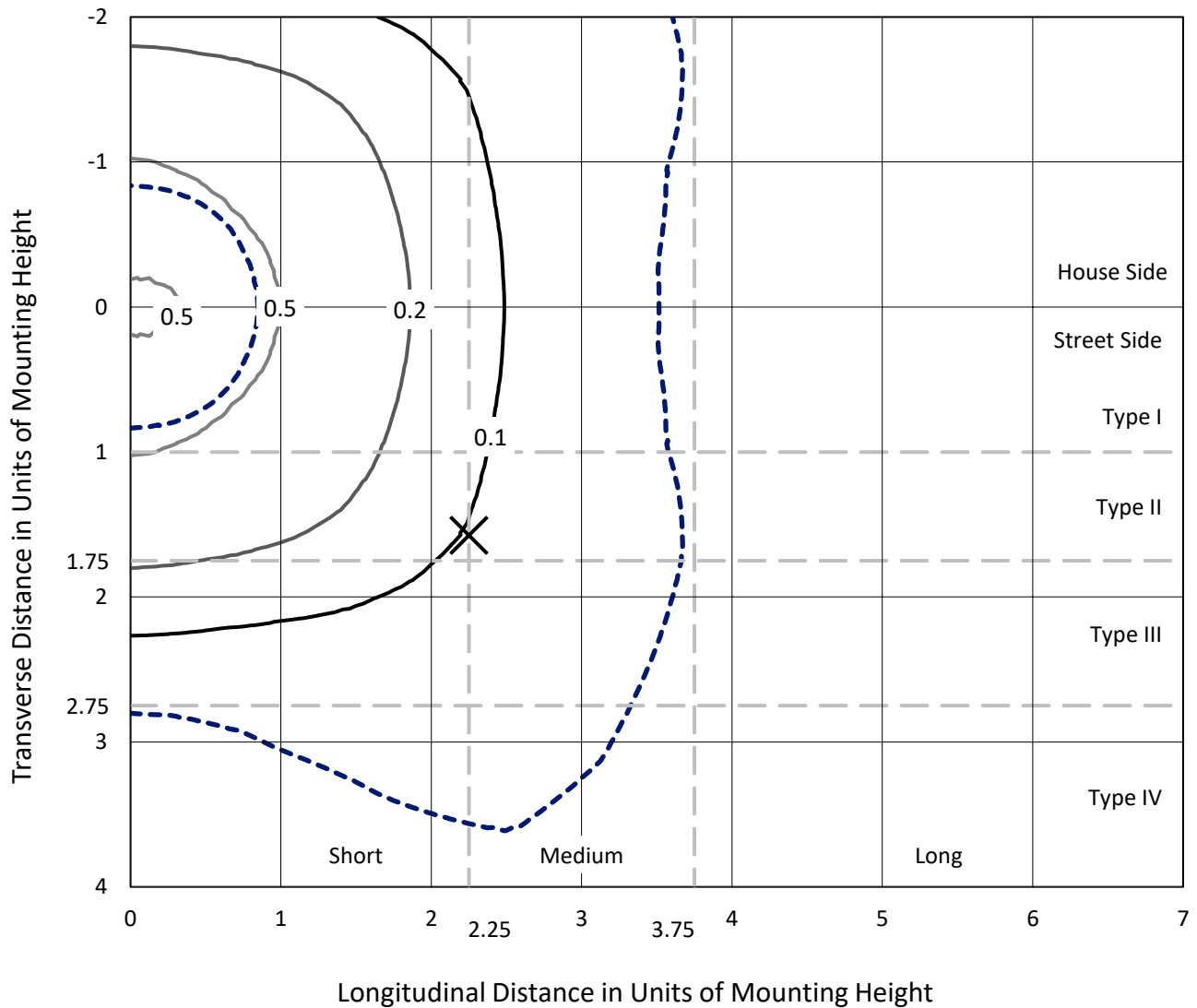
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

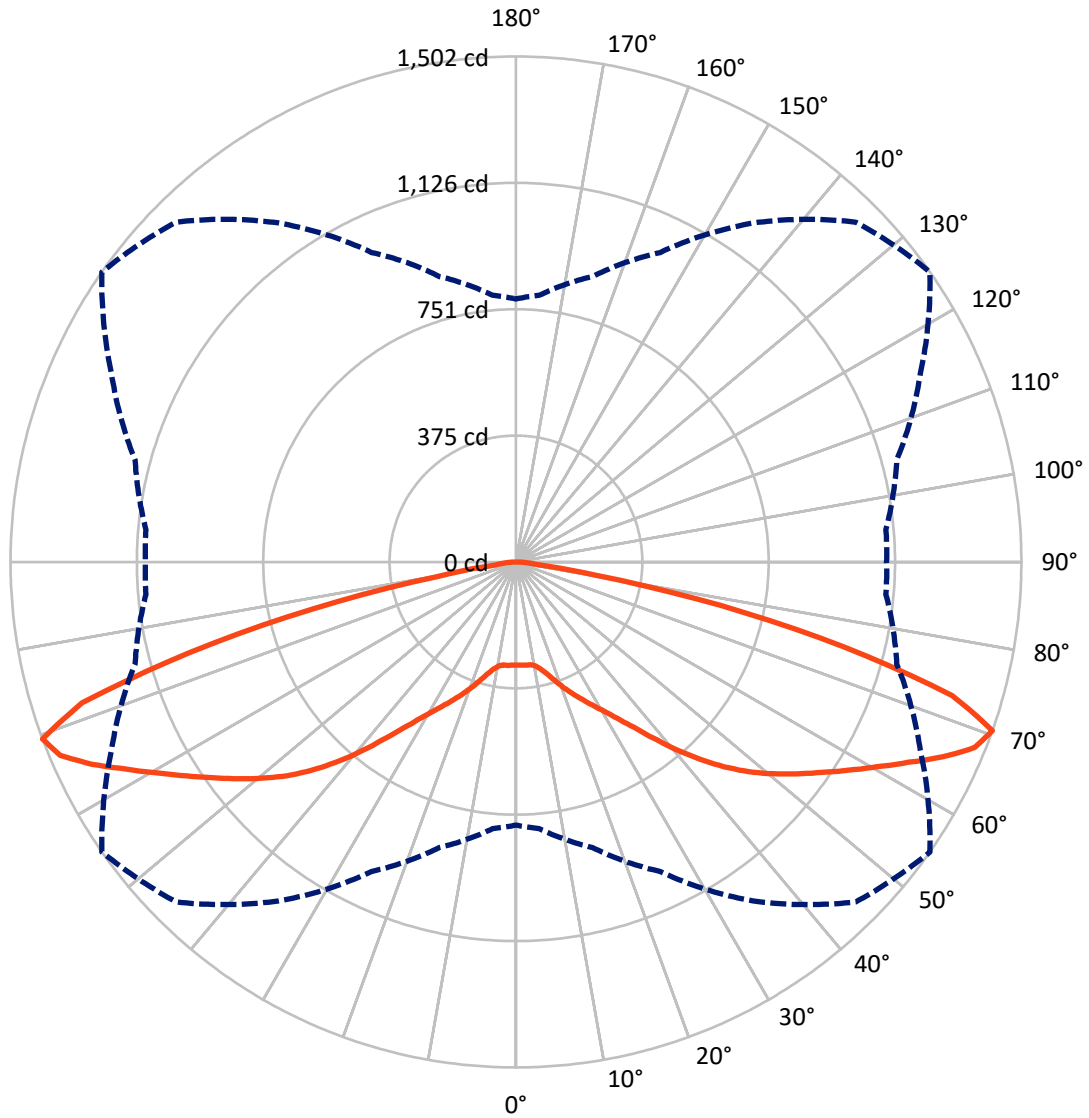
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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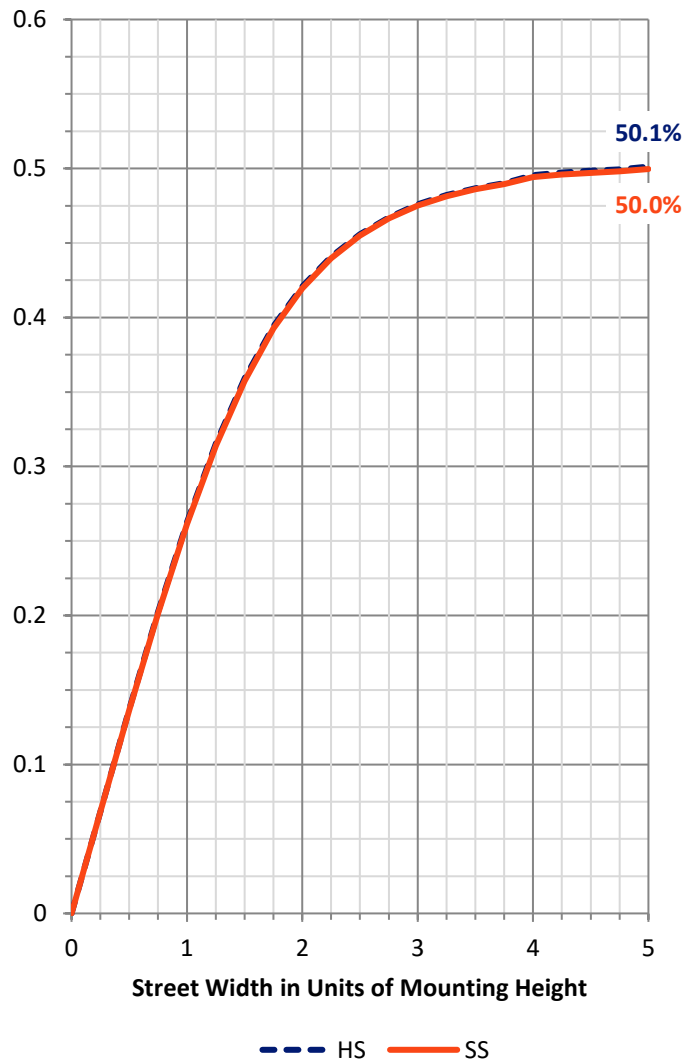
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2198.5	0.0	2198.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2198.5	0.0	2198.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4397.0	0.0	4397.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.6	0.7
10°-20°	100.7	2.3
20°-30°	209.3	4.8
30°-40°	386.5	8.8
40°-50°	679.0	15.4
50°-60°	979.3	22.3
60°-70°	1198.5	27.3
70°-80°	762.6	17.3
80°-90°	51.6	1.2
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°	4397.0	100.0
0°-180°	4397.0	100.0

Coefficient of Utilization



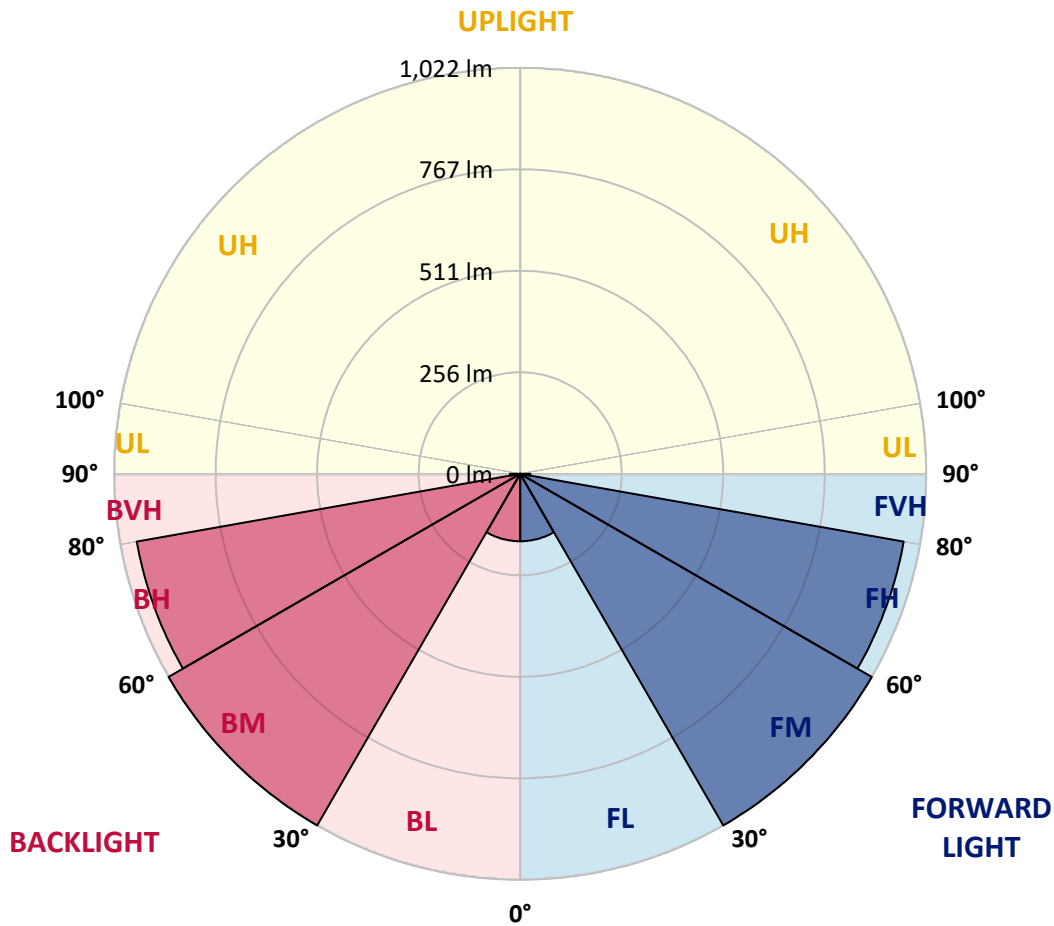
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	169.8	3.9			
FM (30°-60°)	1022.4	23.3			
FH (60°-80°)	980.6	22.3			G1/1800
FVH (80°-90°)	25.8	0.6			G1/100
BL (0°-30°)	169.8	3.9	B1/500		
BM (30°-60°)	1022.4	23.3	B2/2500		
BH (60°-80°)	980.6	22.3	B2/1000		G1/1800
BVH (80°-90°)	25.8	0.6			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5	306.5
2.5°	310.6	310.6	309.8	309.8	308.1	307.3	306.5	306.5	305.7	305.7	304.9
5°	312.2	312.2	312.2	311.4	310.6	309.8	308.1	306.5	305.7	304.9	304.1
7.5°	313.1	313.1	312.2	312.2	311.4	310.6	308.1	305.7	304.9	304.1	304.1
10°	319.6	318.8	318.0	316.3	316.3	316.3	313.1	310.6	309.8	309.8	309.8
12.5°	335.1	334.3	332.7	330.2	330.2	331.0	326.1	322.9	322.9	322.0	322.0
15°	358.0	357.2	355.6	351.5	350.7	352.3	344.9	341.7	341.7	341.7	340.8
17.5°	383.3	381.7	379.3	376.0	376.0	376.0	368.6	364.5	362.1	362.1	361.3
20°	404.6	403.8	403.8	403.0	405.4	405.4	395.6	389.1	383.3	380.1	379.3
22.5°	423.4	422.6	424.2	427.5	432.4	434.0	422.6	412.8	403.8	397.2	395.6
25°	448.7	447.9	447.1	452.0	460.2	462.6	450.4	438.1	429.1	425.8	424.2
27.5°	475.7	476.5	477.3	482.2	488.8	492.9	480.6	469.2	461.8	456.9	455.3
30°	505.9	507.6	510.0	517.4	522.3	523.9	513.3	505.1	498.6	494.5	492.1
32.5°	544.4	547.6	550.9	557.4	559.9	558.3	553.4	547.6	542.7	537.0	536.2
35°	601.6	604.9	604.0	606.5	607.3	605.7	603.2	599.9	597.5	590.1	589.3
37.5°	673.5	676.8	671.9	669.4	663.7	664.5	663.7	666.2	667.0	659.6	658.8
40°	746.3	749.5	743.0	736.4	730.7	728.3	732.4	740.5	740.5	735.6	735.6
42.5°	823.9	826.4	815.7	807.6	800.2	798.6	801.0	810.8	813.3	812.5	812.5
45°	901.6	899.9	886.0	877.9	871.3	867.2	868.0	875.4	880.3	882.8	882.8
47.5°	961.2	958.8	947.3	940.8	936.7	931.0	931.0	935.1	937.5	938.3	938.3
50°	1008.6	1006.2	994.7	993.9	993.9	991.5	989.0	988.2	986.6	987.4	987.4
52.5°	1049.5	1046.2	1038.1	1039.7	1047.0	1048.7	1045.4	1038.9	1032.3	1029.9	1030.7
55°	1093.6	1088.7	1082.2	1087.1	1101.8	1108.3	1103.4	1090.4	1078.9	1071.6	1071.6
57.5°	1128.8	1123.1	1123.1	1137.0	1163.9	1177.0	1166.4	1141.9	1122.2	1114.1	1114.9
60°	1104.3	1099.4	1119.0	1180.3	1231.0	1253.0	1235.0	1191.7	1159.8	1150.0	1151.7
62.5°	1056.0	1052.8	1077.3	1172.1	1291.4	1337.2	1310.2	1248.1	1200.7	1189.3	1189.3
65°	984.9	984.1	1018.4	1135.3	1305.3	1418.1	1395.2	1309.4	1248.1	1232.6	1235.9
67.5°	911.4	911.4	942.4	1072.4	1289.0	1452.5	1470.4	1365.0	1271.0	1232.6	1233.4
70°	781.4	795.3	877.9	1014.4	1229.3	1427.9	1501.5	1325.8	1171.3	1103.4	1101.0
72.5°	514.9	532.9	697.2	913.0	1170.5	1338.8	1355.2	1164.7	972.7	893.4	889.3
75°	310.6	326.1	452.0	712.7	1029.1	1078.1	1006.2	913.0	726.6	664.5	664.5
77.5°	91.5	102.2	208.4	452.0	711.9	708.7	620.4	537.8	429.9	365.4	370.3
80°	53.9	55.6	67.8	206.0	295.1	310.6	239.5	149.6	149.6	111.2	107.9
82.5°	41.7	41.7	43.3	51.5	71.1	79.3	60.5	51.5	58.9	49.9	47.4
85°	29.4	29.4	29.4	30.2	31.1	31.9	33.5	34.3	37.6	31.1	29.4
87.5°	9.0	9.8	10.6	12.3	14.7	15.5	16.3	14.7	14.7	13.9	13.1
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)