

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: P798831

Luminaire Tested: **ARCH1-40-722-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798831
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: ARCH1-40-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4924 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G1

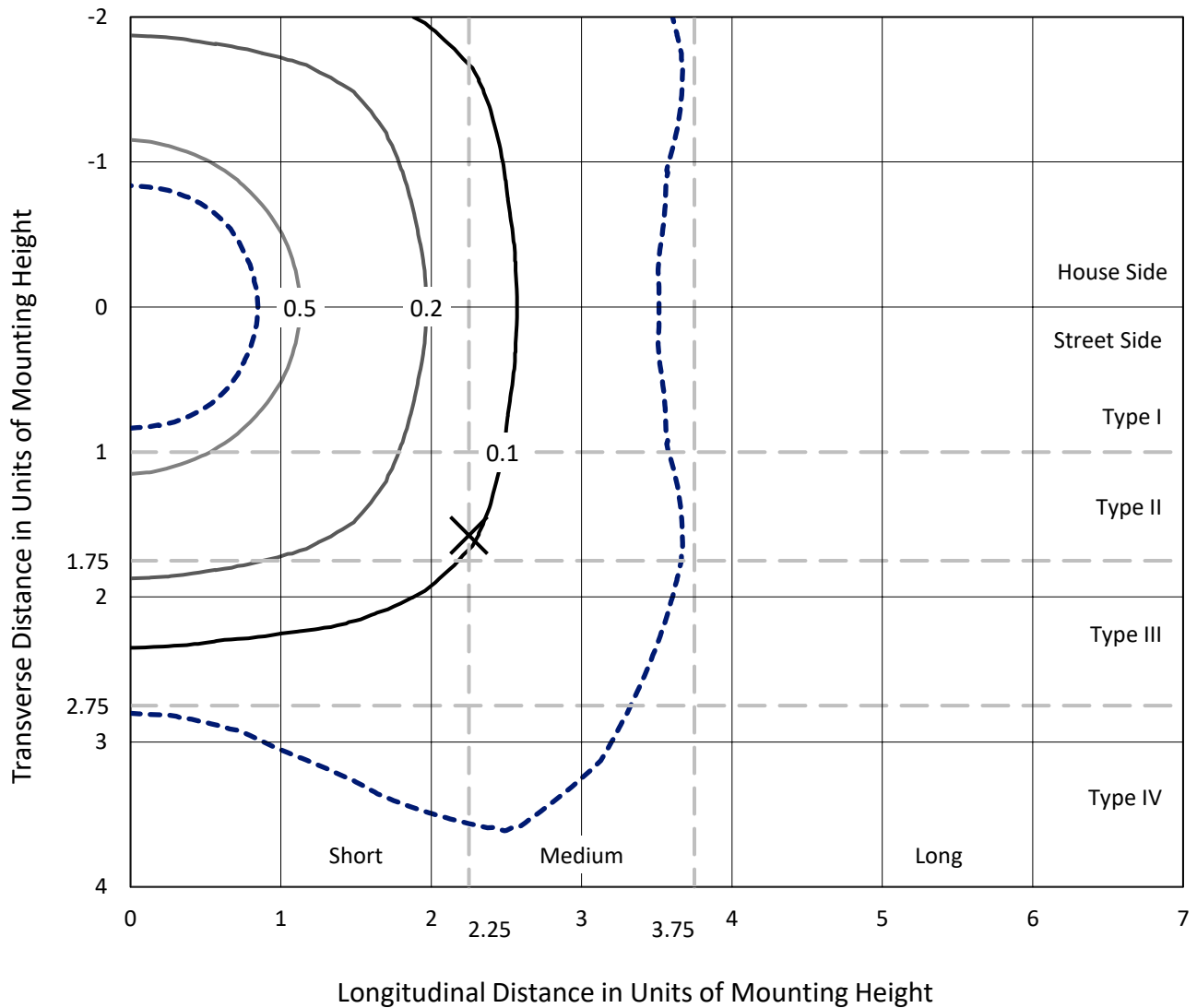
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

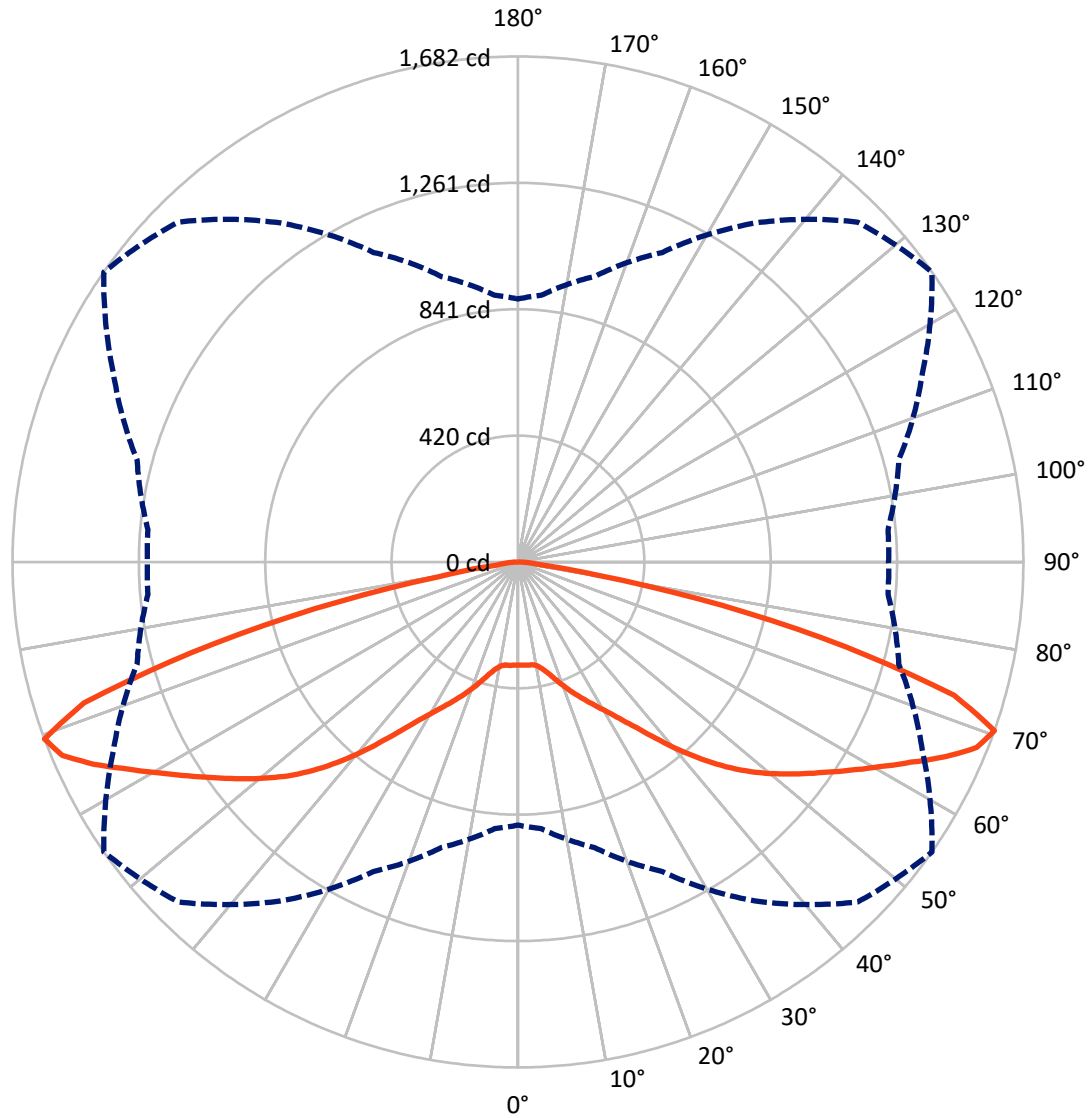
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type V - Medium - N/A

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CATALOG NUMBER: ARCH1-40-722-U-5WQ

Luminous Intensity Polar Plot



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

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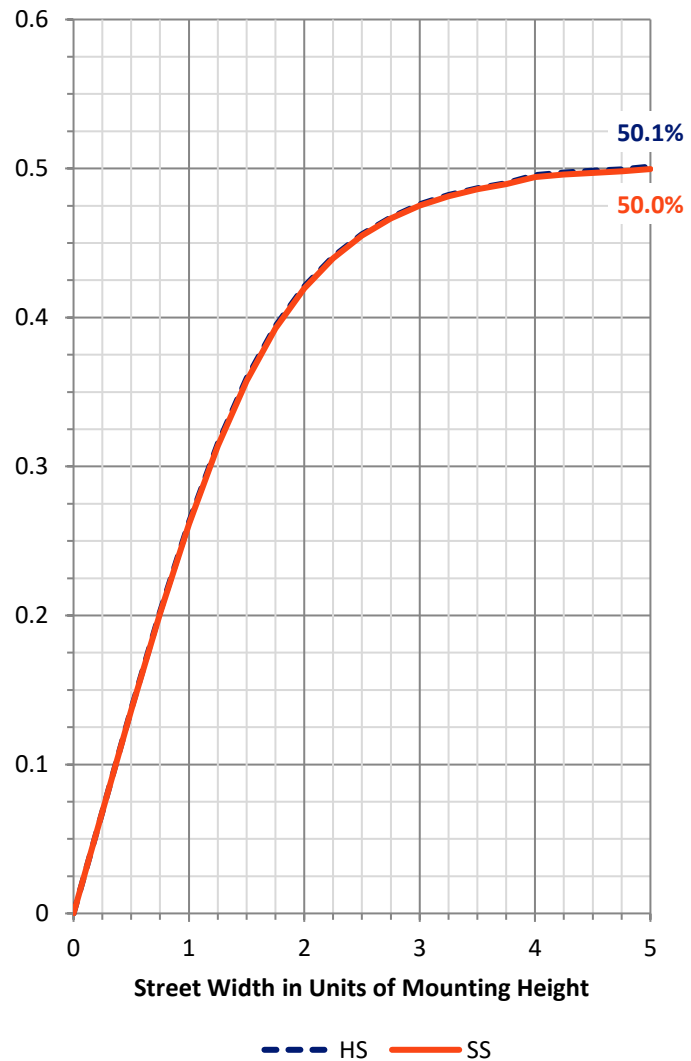
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2462.0	0.0	2462.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2462.0	0.0	2462.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4924.0	0.0	4924.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	0.7
10°-20°	112.8	2.3
20°-30°	234.3	4.8
30°-40°	432.8	8.8
40°-50°	760.4	15.4
50°-60°	1096.6	22.3
60°-70°	1342.1	27.3
70°-80°	854.0	17.3
80°-90°	57.8	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°	4924.0	100.0
0°-180°	4924.0	100.0



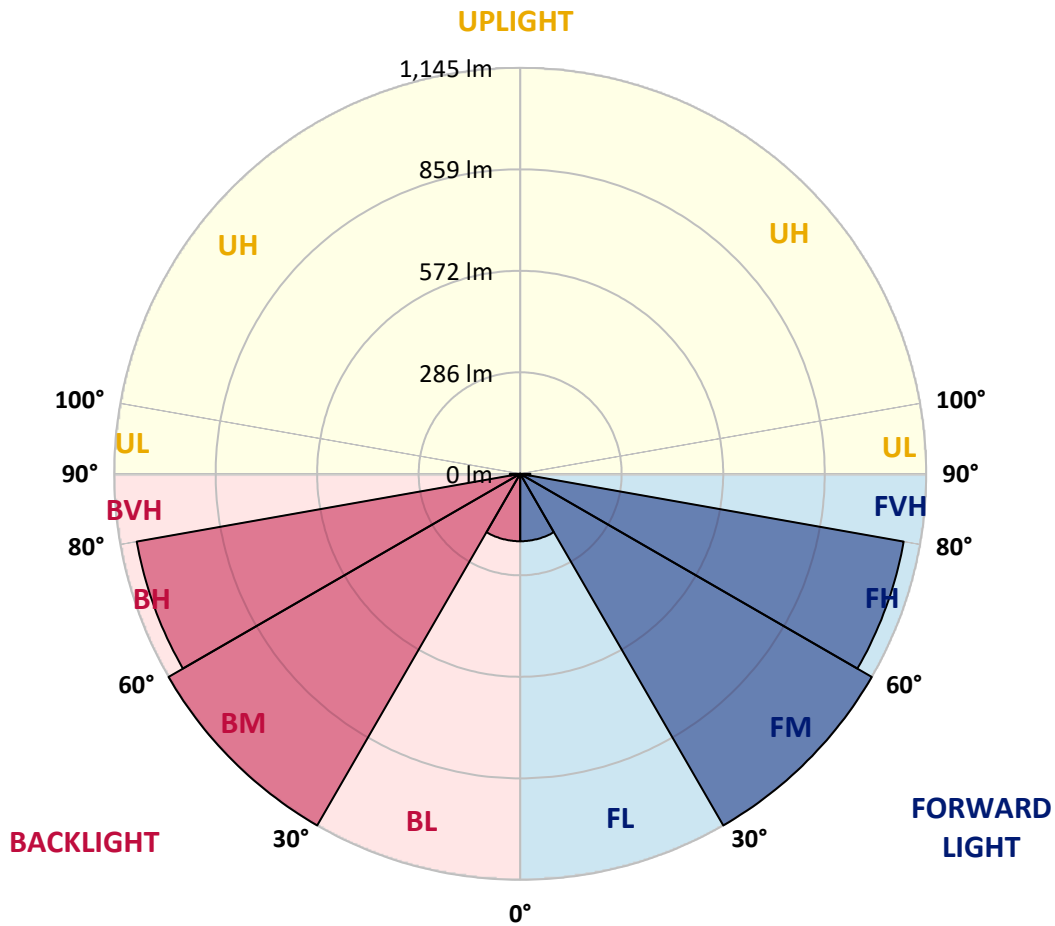
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 CATALOG NUMBER: ARCH1-40-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	190.1	3.9			
FM (30°-60°)	1144.9	23.3			
FH (60°-80°)	1098.1	22.3			G1/1800
FVH (80°-90°)	28.9	0.6			G1/100
BL (0°-30°)	190.1	3.9	B1/500		
BM (30°-60°)	1144.9	23.3	B2/2500		
BH (60°-80°)	1098.1	22.3	B3/2500		G1/1800
BVH (80°-90°)	28.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2	343.2
2.5°	347.8	347.8	346.9	346.9	345.1	344.2	343.2	343.2	342.3	342.3	341.4
5°	349.7	349.7	349.7	348.7	347.8	346.9	345.1	343.2	342.3	341.4	340.5
7.5°	350.6	350.6	349.7	349.7	348.7	347.8	345.1	342.3	341.4	340.5	340.5
10°	357.9	357.0	356.1	354.2	354.2	354.2	350.6	347.8	346.9	346.9	346.9
12.5°	375.3	374.4	372.5	369.8	369.8	370.7	365.2	361.6	361.6	360.6	360.6
15°	400.9	400.0	398.2	393.6	392.7	394.5	386.3	382.6	382.6	382.6	381.7
17.5°	429.3	427.5	424.7	421.1	421.1	421.1	412.8	408.2	405.5	405.5	404.6
20°	453.1	452.2	452.2	451.3	454.0	454.0	443.0	435.7	429.3	425.6	424.7
22.5°	474.1	473.2	475.1	478.7	484.2	486.0	473.2	462.2	452.2	444.9	443.0
25°	502.5	501.6	500.7	506.2	515.3	518.1	504.3	490.6	480.5	476.9	475.1
27.5°	532.7	533.6	534.6	540.0	547.4	551.9	538.2	525.4	517.2	511.7	509.8
30°	566.6	568.4	571.2	579.4	584.9	586.7	574.8	565.7	558.4	553.8	551.0
32.5°	609.6	613.3	616.9	624.3	627.0	625.2	619.7	613.3	607.8	601.4	600.5
35°	673.7	677.3	676.4	679.2	680.1	678.3	675.5	671.9	669.1	660.9	660.0
37.5°	754.2	757.9	752.4	749.7	743.2	744.2	743.2	746.0	746.9	738.7	737.8
40°	835.7	839.4	832.0	824.7	818.3	815.6	820.1	829.3	829.3	823.8	823.8
42.5°	922.7	925.4	913.5	904.3	896.1	894.3	897.0	908.0	910.8	909.8	909.8
45°	1009.6	1007.8	992.2	983.1	975.7	971.2	972.1	980.3	985.8	988.6	988.6
47.5°	1076.4	1073.7	1060.9	1053.5	1049.0	1042.6	1042.6	1047.1	1049.9	1050.8	1050.8
50°	1129.5	1126.8	1114.0	1113.0	1113.0	1110.3	1107.6	1106.6	1104.8	1105.7	1105.7
52.5°	1175.3	1171.6	1162.5	1164.3	1172.5	1174.4	1170.7	1163.4	1156.1	1153.3	1154.2
55°	1224.7	1219.2	1211.9	1217.4	1233.9	1241.2	1235.7	1221.1	1208.2	1200.0	1200.0
57.5°	1264.1	1257.7	1257.7	1273.2	1303.4	1318.1	1306.2	1278.7	1256.7	1247.6	1248.5
60°	1236.6	1231.1	1253.1	1321.7	1378.5	1403.2	1383.1	1334.6	1298.9	1287.9	1289.7
62.5°	1182.6	1178.9	1206.4	1312.6	1446.2	1497.5	1467.3	1397.7	1344.6	1331.8	1331.8
65°	1103.0	1102.1	1140.5	1271.4	1461.8	1588.1	1562.5	1466.4	1397.7	1380.3	1384.0
67.5°	1020.6	1020.6	1055.4	1200.9	1443.5	1626.5	1646.7	1528.6	1423.3	1380.3	1381.2
70°	875.1	890.6	983.1	1135.9	1376.7	1599.1	1681.5	1484.7	1311.7	1235.7	1233.0
72.5°	576.7	596.8	780.8	1022.4	1310.8	1499.3	1517.6	1304.3	1089.2	1000.5	995.9
75°	347.8	365.2	506.2	798.2	1152.4	1207.3	1126.8	1022.4	813.7	744.2	744.2
77.5°	102.5	114.4	233.4	506.2	797.3	793.6	694.7	602.3	481.5	409.2	414.6
80°	60.4	62.2	76.0	230.7	330.4	347.8	268.2	167.5	167.5	124.5	120.8
82.5°	46.7	46.7	48.5	57.7	79.6	88.8	67.7	57.7	65.9	55.8	53.1
85°	33.0	33.0	33.0	33.9	34.8	35.7	37.5	38.4	42.1	34.8	33.0
87.5°	10.1	11.0	11.9	13.7	16.5	17.4	18.3	16.5	16.5	15.6	14.6
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)