

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: P798863

Luminaire Tested: **ARCH1-40-730-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798863
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: ARCH1-40-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5628 lumens
Efficiency: N/A
Efficacy: 130.9 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

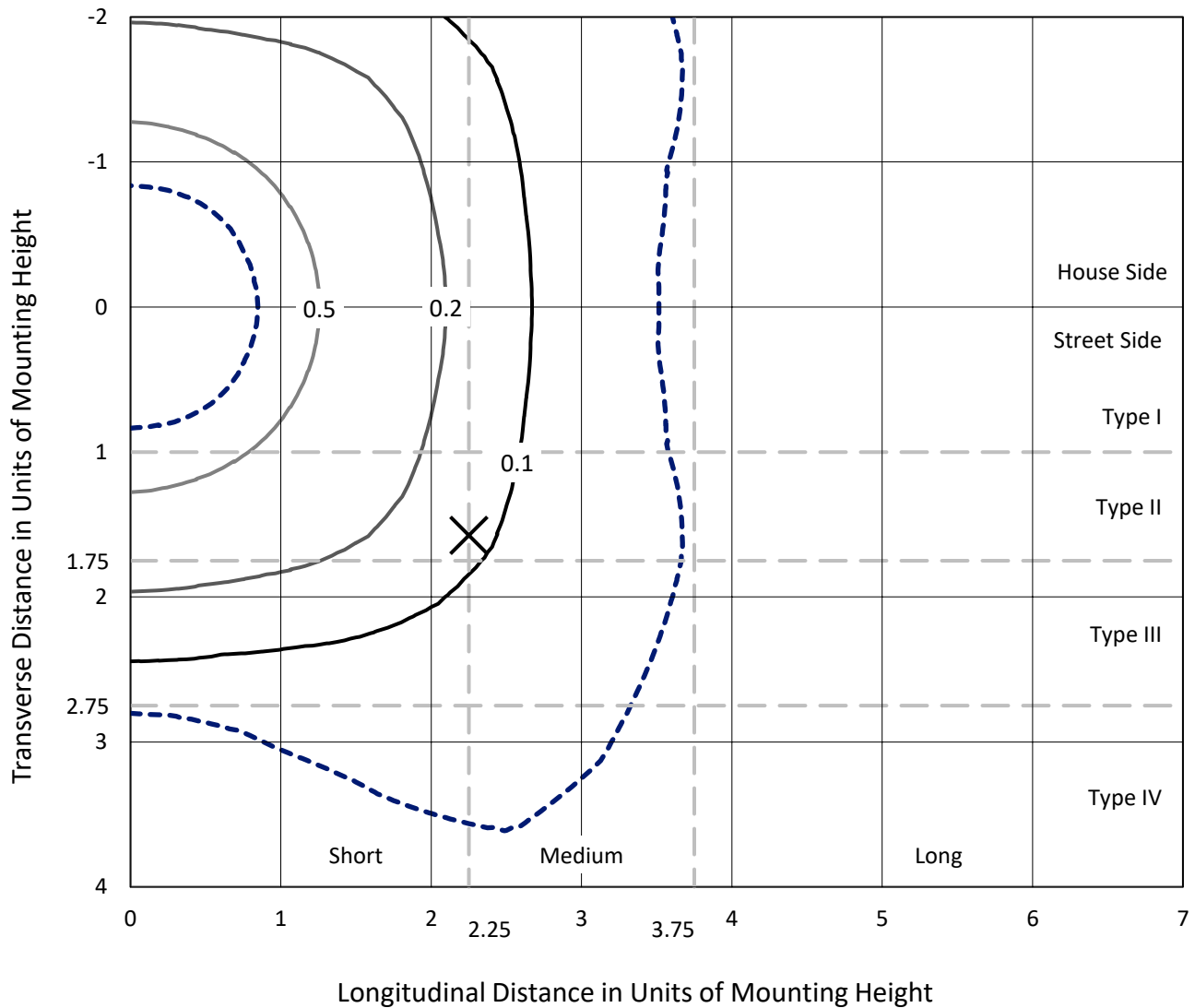
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

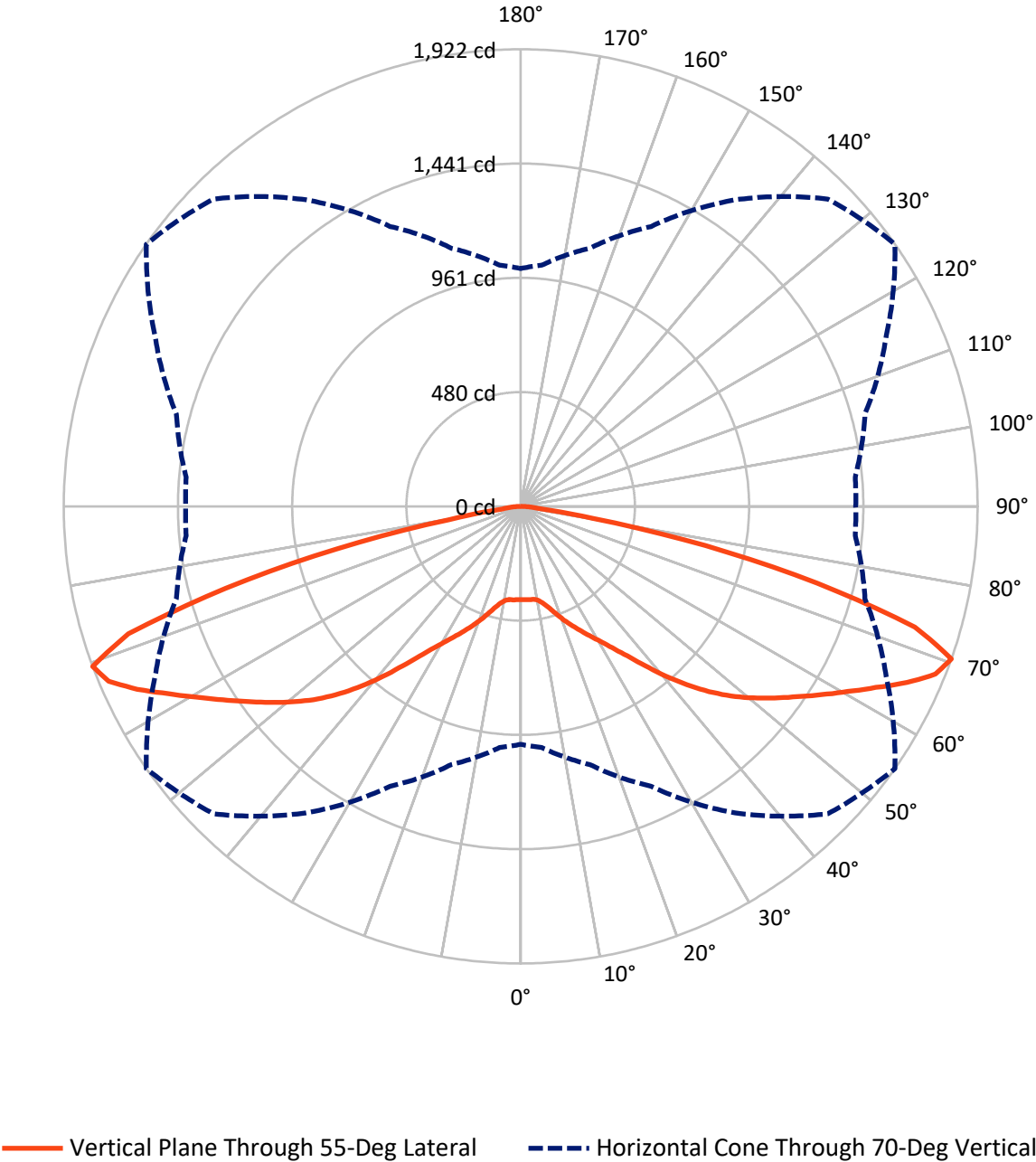
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



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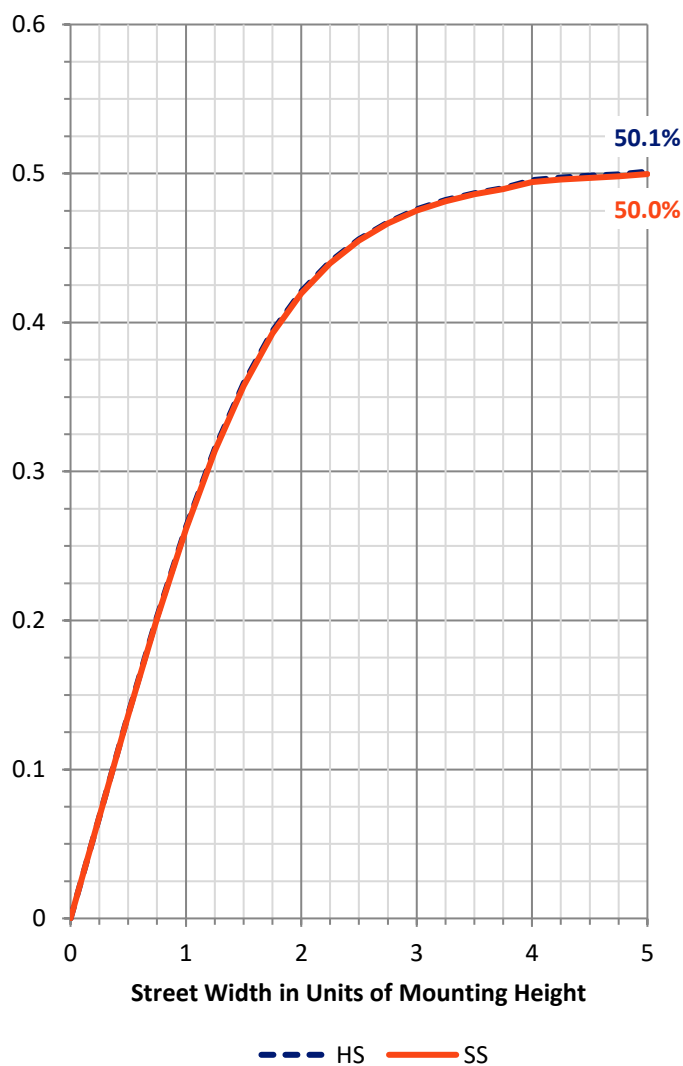
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2814.0	0.0	2814.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2814.0	0.0	2814.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5628.0	0.0	5628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	0.7
10°-20°	128.9	2.3
20°-30°	267.8	4.8
30°-40°	494.7	8.8
40°-50°	869.1	15.4
50°-60°	1253.4	22.3
60°-70°	1534.0	27.3
70°-80°	976.1	17.3
80°-90°	66.0	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°	5628.0	100.0
0°-180°	5628.0	100.0

Coefficient of Utilization



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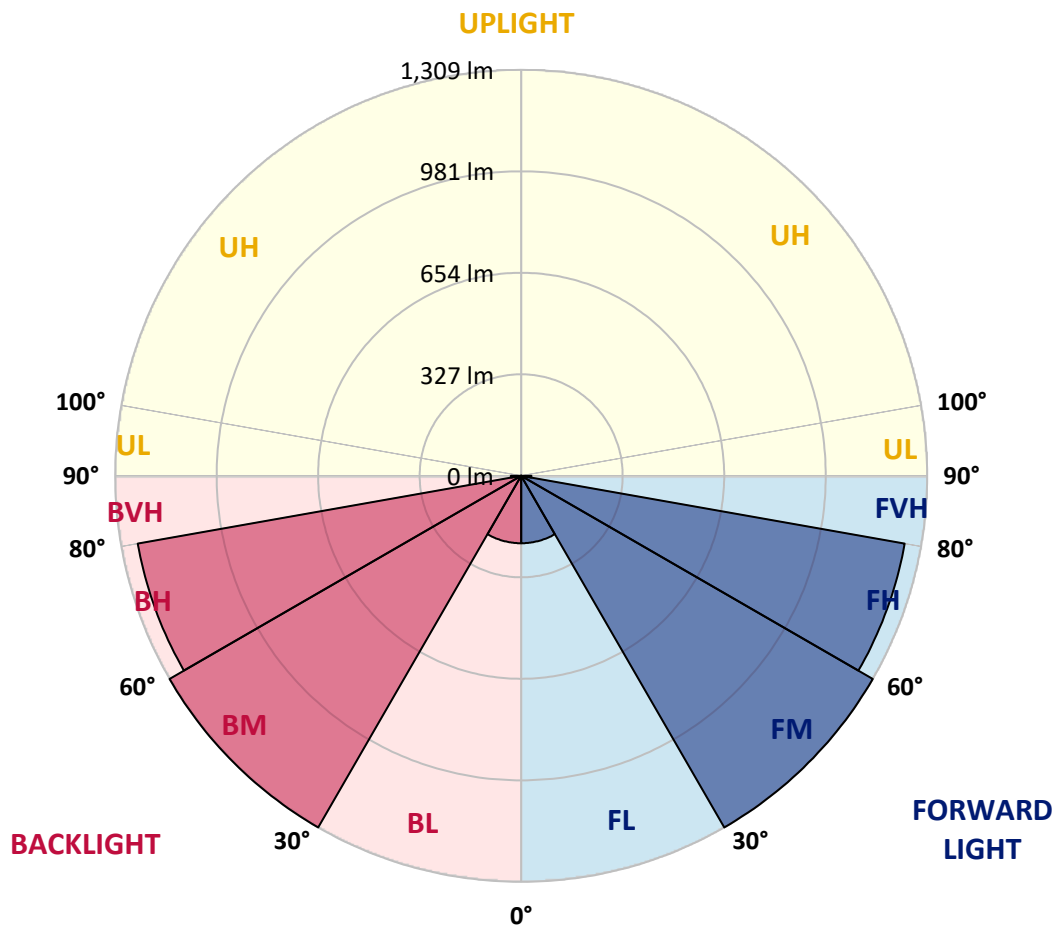
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.3	3.9			
FM	(30°-60°)	1308.6	23.3			
FH	(60°-80°)	1255.1	22.3			G1/1800
FVH	(80°-90°)	33.0	0.6			G1/100
BL	(0°-30°)	217.3	3.9	B1/500		
BM	(30°-60°)	1308.6	23.3	B2/2500		
BH	(60°-80°)	1255.1	22.3	B3/2500		G1/1800
BVH	(80°-90°)	33.0	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°	392.3	392.3	392.3	392.3	392.3	392.3	392.3	392.3	392.3	392.3	392.3
2.5°	397.6	397.6	396.5	396.5	394.4	393.4	392.3	392.3	391.3	391.3	390.2
5°	399.6	399.6	399.6	398.6	397.6	396.5	394.4	392.3	391.3	390.2	389.2
7.5°	400.7	400.7	399.6	399.6	398.6	397.6	394.4	391.3	390.2	389.2	389.2
10°	409.1	408.0	407.0	404.9	404.9	404.9	400.7	397.6	396.5	396.5	396.5
12.5°	428.9	427.9	425.8	422.7	422.7	423.7	417.4	413.2	413.2	412.2	412.2
15°	458.2	457.2	455.1	449.9	448.8	450.9	441.5	437.3	437.3	437.3	436.3
17.5°	490.7	488.6	485.4	481.3	481.3	481.3	471.8	466.6	463.5	463.5	462.4
20°	517.9	516.8	516.8	515.8	518.9	518.9	506.4	498.0	490.7	486.5	485.4
22.5°	541.9	540.9	543.0	547.2	553.4	555.5	540.9	528.3	516.8	508.5	506.4
25°	574.4	573.3	572.3	578.5	589.0	592.1	576.5	560.8	549.3	545.1	543.0
27.5°	608.9	609.9	611.0	617.3	625.6	630.9	615.2	600.5	591.1	584.8	582.7
30°	647.6	649.7	652.8	662.2	668.5	670.6	657.0	646.6	638.2	633.0	629.8
32.5°	696.8	701.0	705.1	713.5	716.6	714.6	708.3	701.0	694.7	687.4	686.3
35°	770.0	774.2	773.1	776.3	777.3	775.2	772.1	767.9	764.8	755.4	754.3
37.5°	862.1	866.3	860.0	856.8	849.5	850.6	849.5	852.7	853.7	844.3	843.2
40°	955.2	959.4	951.0	942.6	935.3	932.2	937.4	947.9	947.9	941.6	941.6
42.5°	1054.6	1057.7	1044.1	1033.6	1024.2	1022.1	1025.3	1037.8	1041.0	1039.9	1039.9
45°	1154.0	1151.9	1134.1	1123.6	1115.2	1110.0	1111.1	1120.5	1126.8	1129.9	1129.9
47.5°	1230.3	1227.2	1212.5	1204.2	1198.9	1191.6	1191.6	1196.9	1200.0	1201.0	1201.0
50°	1291.0	1287.9	1273.2	1272.2	1272.2	1269.0	1265.9	1264.9	1262.8	1263.8	1263.8
52.5°	1343.3	1339.1	1328.7	1330.8	1340.2	1342.3	1338.1	1329.7	1321.3	1318.2	1319.3
55°	1399.8	1393.5	1385.2	1391.4	1410.3	1418.6	1412.4	1395.6	1381.0	1371.6	1371.6
57.5°	1444.8	1437.5	1437.5	1455.3	1489.8	1506.5	1492.9	1461.5	1436.4	1426.0	1427.0
60°	1413.4	1407.1	1432.2	1510.7	1575.6	1603.8	1580.8	1525.4	1484.6	1472.0	1474.1
62.5°	1351.7	1347.5	1378.9	1500.2	1653.0	1711.6	1677.1	1597.5	1536.9	1522.2	1522.2
65°	1260.7	1259.6	1303.6	1453.2	1670.8	1815.2	1785.9	1676.0	1597.5	1577.7	1581.9
67.5°	1166.5	1166.5	1206.3	1372.6	1649.9	1859.1	1882.1	1747.2	1626.8	1577.7	1578.7
70°	1000.2	1018.0	1123.6	1298.3	1573.5	1827.7	1921.9	1696.9	1499.2	1412.4	1409.2
72.5°	659.1	682.1	892.4	1168.6	1498.2	1713.7	1734.6	1490.8	1245.0	1143.5	1138.3
75°	397.6	417.4	578.5	912.3	1317.2	1379.9	1287.9	1168.6	930.1	850.6	850.6
77.5°	117.2	130.8	266.8	578.5	911.2	907.1	794.1	688.4	550.3	467.7	473.9
80°	69.0	71.1	86.8	263.6	377.7	397.6	306.5	191.5	191.5	142.3	138.1
82.5°	53.4	53.4	55.4	65.9	91.0	101.5	77.4	65.9	75.3	63.8	60.7
85°	37.7	37.7	37.7	38.7	39.8	40.8	42.9	43.9	48.1	39.8	37.7
87.5°	11.5	12.6	13.6	15.7	18.8	19.9	20.9	18.8	18.8	17.8	16.7
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)