

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: P798911

Luminaire Tested: **ARCH1-40-750-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798911
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: ARCH1-40-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5909 lumens
Efficiency: N/A
Efficacy: 137.4 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

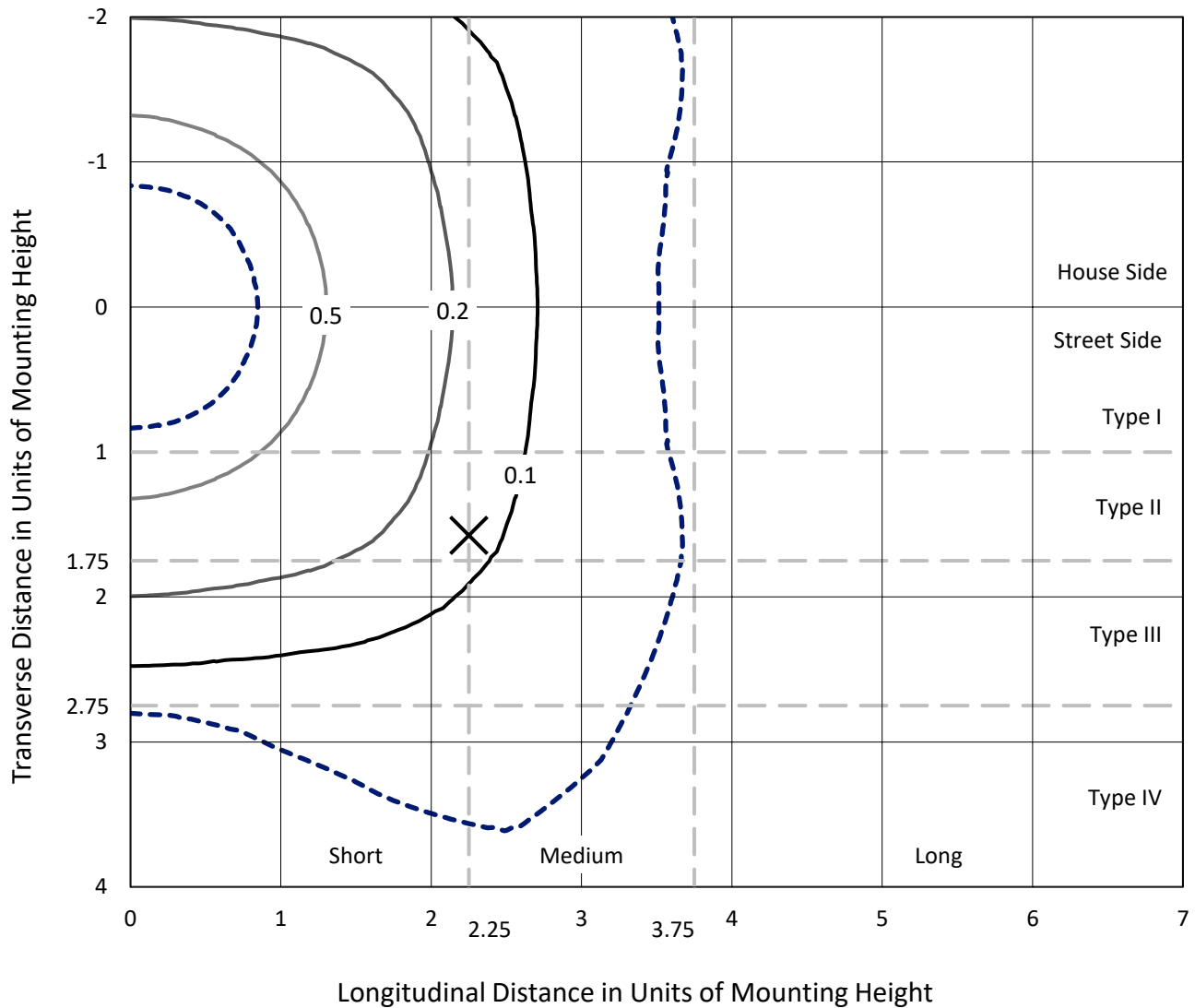


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

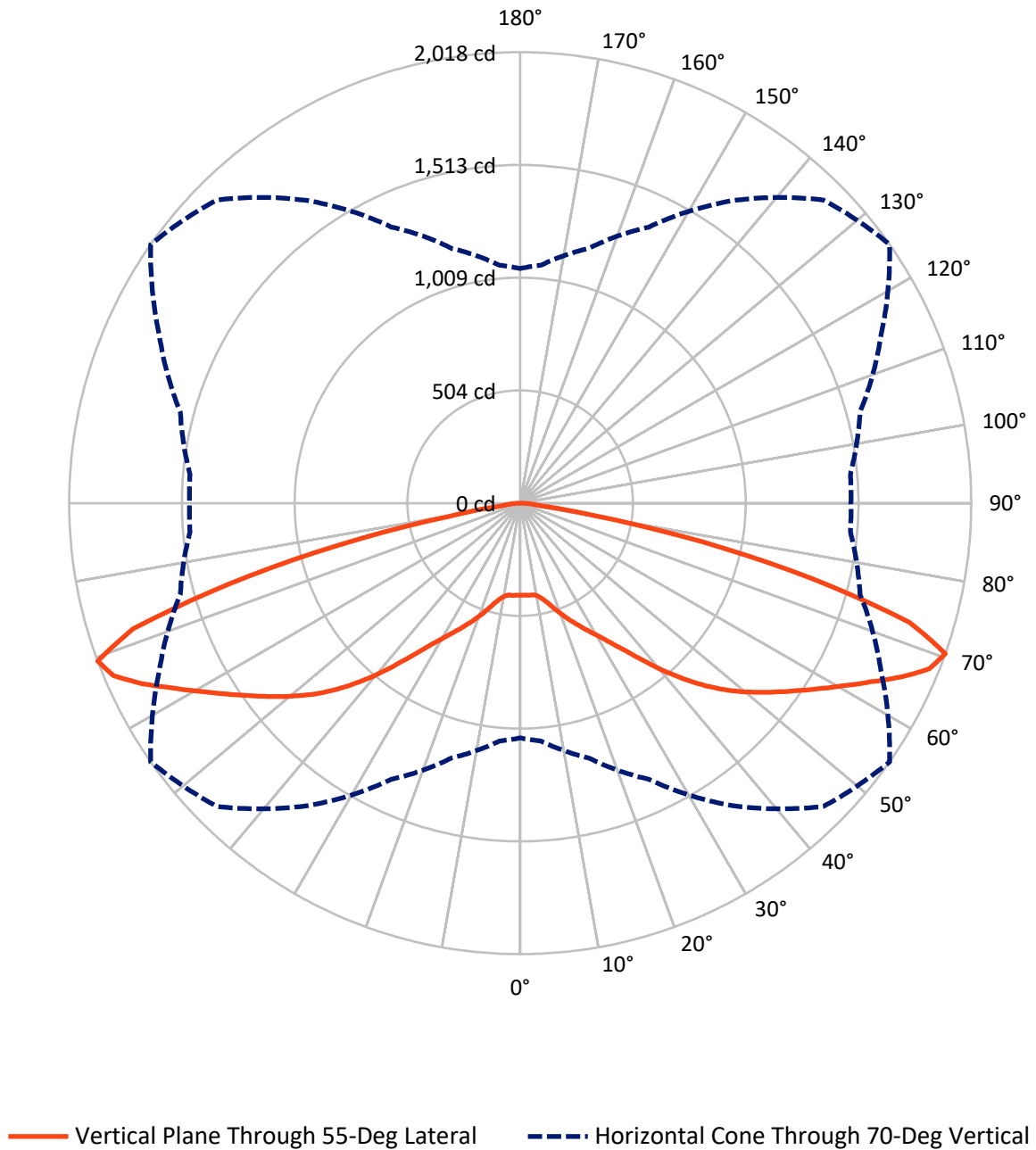


Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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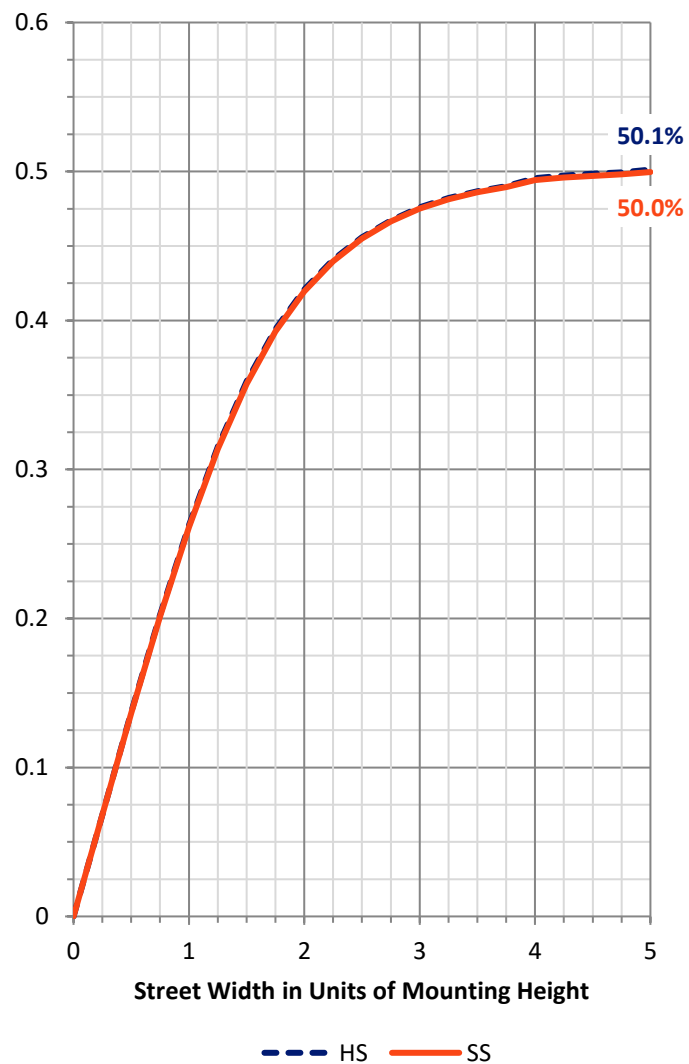
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2954.5	0.0	2954.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2954.5	0.0	2954.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5909.0	0.0	5909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	0.7
10°-20°	135.3	2.3
20°-30°	281.2	4.8
30°-40°	519.4	8.8
40°-50°	912.5	15.4
50°-60°	1316.0	22.3
60°-70°	1610.6	27.3
70°-80°	1024.9	17.3
80°-90°	69.3	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°	5909.0	100.0
0°-180°	5909.0	100.0

Coefficient of Utilization



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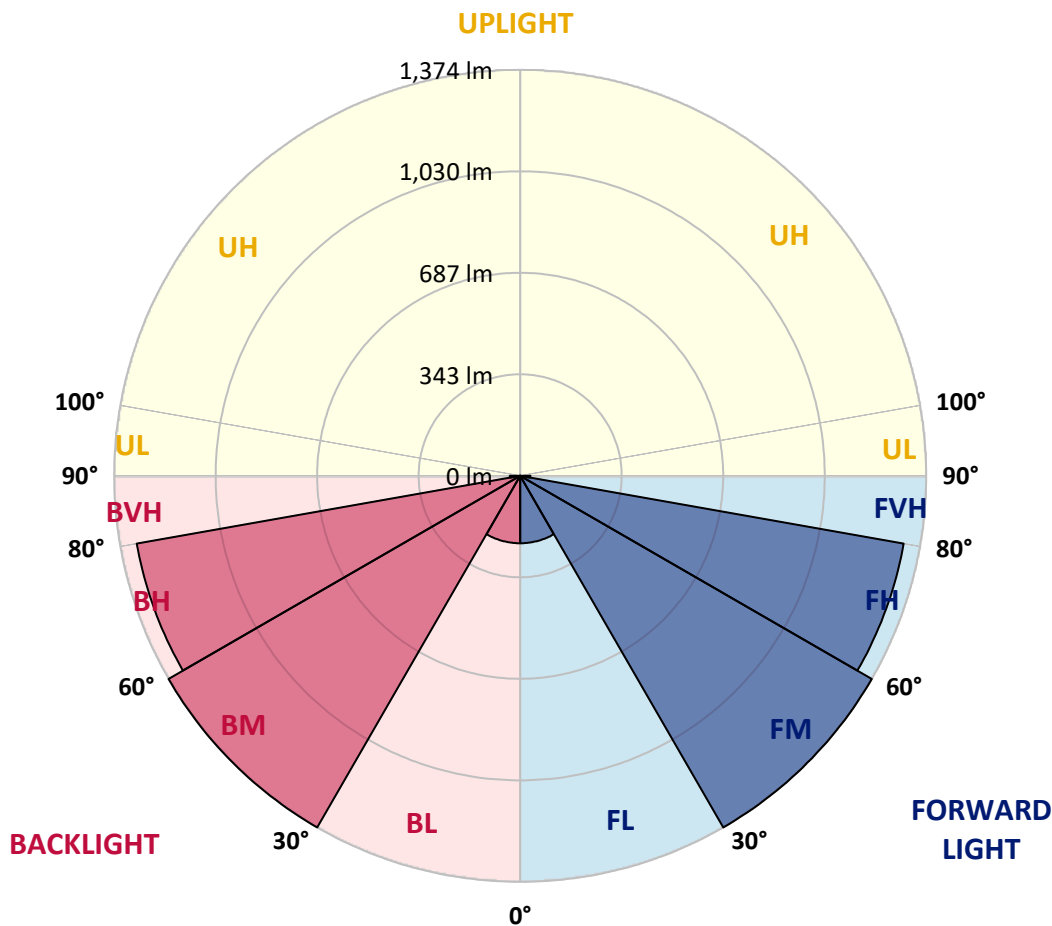
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.2	3.9			
FM	(30°-60°)	1373.9	23.3			
FH	(60°-80°)	1317.7	22.3			G1/1800
FVH	(80°-90°)	34.7	0.6			G1/100
BL	(0°-30°)	228.2	3.9	B1/500		
BM	(30°-60°)	1373.9	23.3	B2/2500		
BH	(60°-80°)	1317.7	22.3	B3/2500		G1/1800
BVH	(80°-90°)	34.7	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°	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9
2.5°	417.4	417.4	416.3	416.3	414.1	413.0	411.9	411.9	410.8	410.8	409.7
5°	419.6	419.6	419.6	418.5	417.4	416.3	414.1	411.9	410.8	409.7	408.6
7.5°	420.7	420.7	419.6	419.6	418.5	417.4	414.1	410.8	409.7	408.6	408.6
10°	429.5	428.4	427.3	425.1	425.1	425.1	420.7	417.4	416.3	416.3	416.3
12.5°	450.4	449.3	447.1	443.8	443.8	444.9	438.3	433.9	433.9	432.8	432.8
15°	481.1	480.0	477.8	472.3	471.2	473.4	463.5	459.1	459.1	459.1	458.0
17.5°	515.2	513.0	509.7	505.3	505.3	505.3	495.4	489.9	486.6	486.6	485.5
20°	543.7	542.6	542.6	541.5	544.8	544.8	531.6	522.9	515.2	510.8	509.7
22.5°	569.0	567.9	570.1	574.5	581.1	583.3	567.9	554.7	542.6	533.8	531.6
25°	603.0	601.9	600.8	607.4	618.4	621.7	605.2	588.8	576.7	572.3	570.1
27.5°	639.3	640.4	641.5	648.1	656.9	662.4	645.9	630.5	620.6	614.0	611.8
30°	679.9	682.1	685.4	695.3	701.9	704.1	689.8	678.8	670.0	664.6	661.3
32.5°	731.6	736.0	740.3	749.1	752.4	750.2	743.6	736.0	729.4	721.7	720.6
35°	808.4	812.8	811.7	815.0	816.1	813.9	810.6	806.3	803.0	793.1	792.0
37.5°	905.1	909.5	902.9	899.6	891.9	893.0	891.9	895.2	896.3	886.4	885.3
40°	1002.9	1007.3	998.5	989.7	982.0	978.7	984.2	995.2	995.2	988.6	988.6
42.5°	1107.2	1110.5	1096.2	1085.3	1075.4	1073.2	1076.5	1089.6	1092.9	1091.8	1091.8
45°	1211.6	1209.4	1190.7	1179.7	1170.9	1165.4	1166.5	1176.4	1183.0	1186.3	1186.3
47.5°	1291.8	1288.5	1273.1	1264.3	1258.8	1251.1	1251.1	1256.6	1259.9	1261.0	1261.0
50°	1355.5	1352.2	1336.8	1335.7	1335.7	1332.4	1329.1	1328.0	1325.8	1326.9	1326.9
52.5°	1410.4	1406.0	1395.0	1397.2	1407.1	1409.3	1404.9	1396.1	1387.3	1384.0	1385.1
55°	1469.7	1463.1	1454.3	1460.9	1480.7	1489.5	1482.9	1465.3	1449.9	1440.0	1440.0
57.5°	1516.9	1509.2	1509.2	1527.9	1564.2	1581.7	1567.5	1534.5	1508.2	1497.2	1498.3
60°	1484.0	1477.4	1503.8	1586.1	1654.2	1683.9	1659.7	1601.5	1558.7	1545.5	1547.7
62.5°	1419.2	1414.8	1447.7	1575.2	1735.5	1797.0	1760.8	1677.3	1613.6	1598.2	1598.2
65°	1323.6	1322.5	1368.6	1525.7	1754.2	1905.8	1875.0	1759.7	1677.3	1656.4	1660.8
67.5°	1224.8	1224.8	1266.5	1441.1	1732.2	1951.9	1976.1	1834.4	1708.1	1656.4	1657.5
70°	1050.1	1068.8	1179.7	1363.2	1652.0	1919.0	2017.8	1781.7	1574.1	1482.9	1479.6
72.5°	692.0	716.2	937.0	1227.0	1573.0	1799.2	1821.2	1565.3	1307.1	1200.6	1195.1
75°	417.4	438.3	607.4	957.8	1382.9	1448.8	1352.2	1227.0	976.5	893.0	893.0
77.5°	123.0	137.3	280.1	607.4	956.7	952.3	833.7	722.8	577.8	491.0	497.6
80°	72.5	74.7	91.2	276.8	396.5	417.4	321.8	201.0	201.0	149.4	145.0
82.5°	56.0	56.0	58.2	69.2	95.6	106.5	81.3	69.2	79.1	67.0	63.7
85°	39.5	39.5	39.5	40.6	41.7	42.8	45.0	46.1	50.5	41.7	39.5
87.5°	12.1	13.2	14.3	16.5	19.8	20.9	22.0	19.8	19.8	18.7	17.6
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)