

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: P836593

Luminaire Tested: **ARCH3-50-722-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7648 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G1

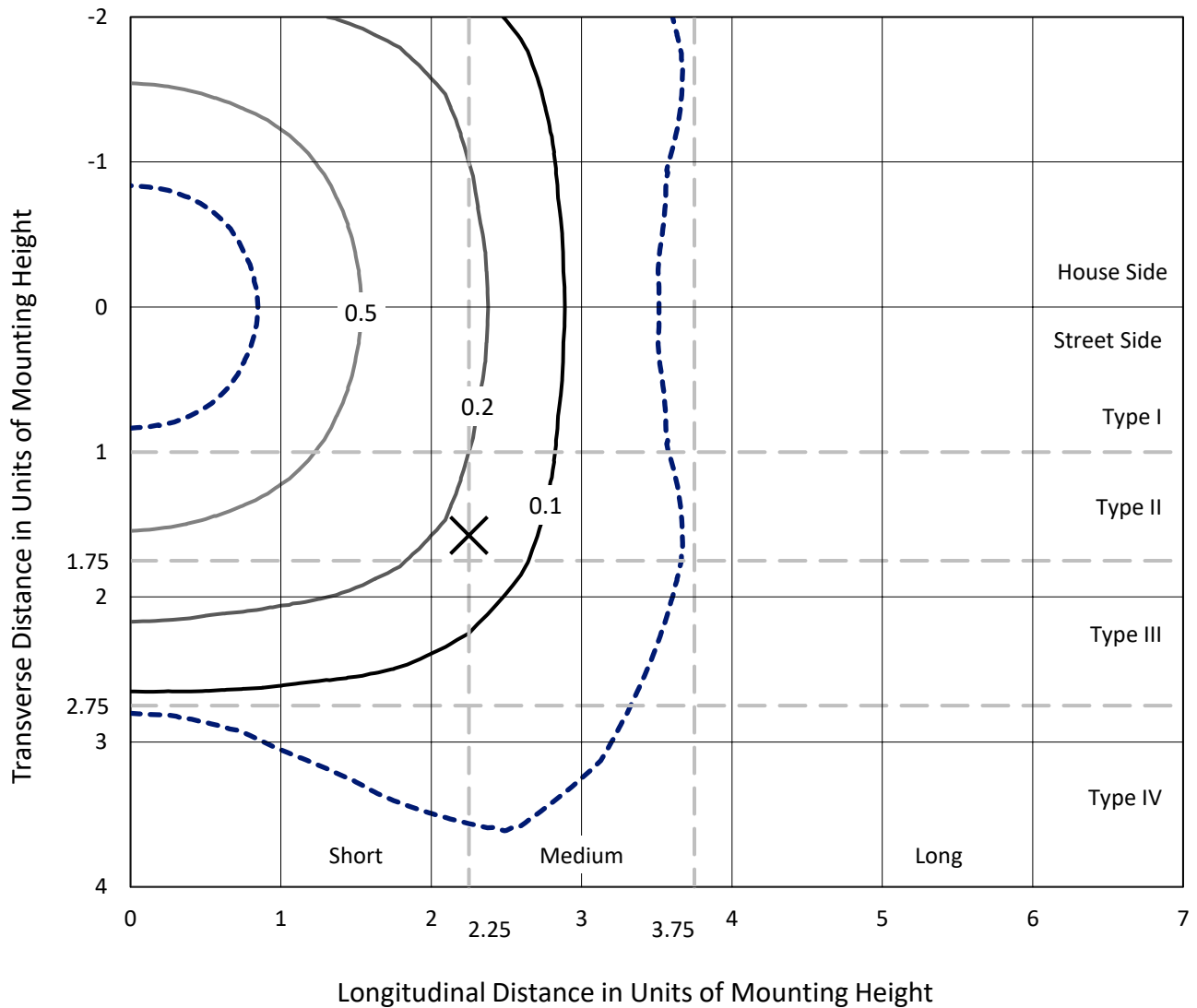
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

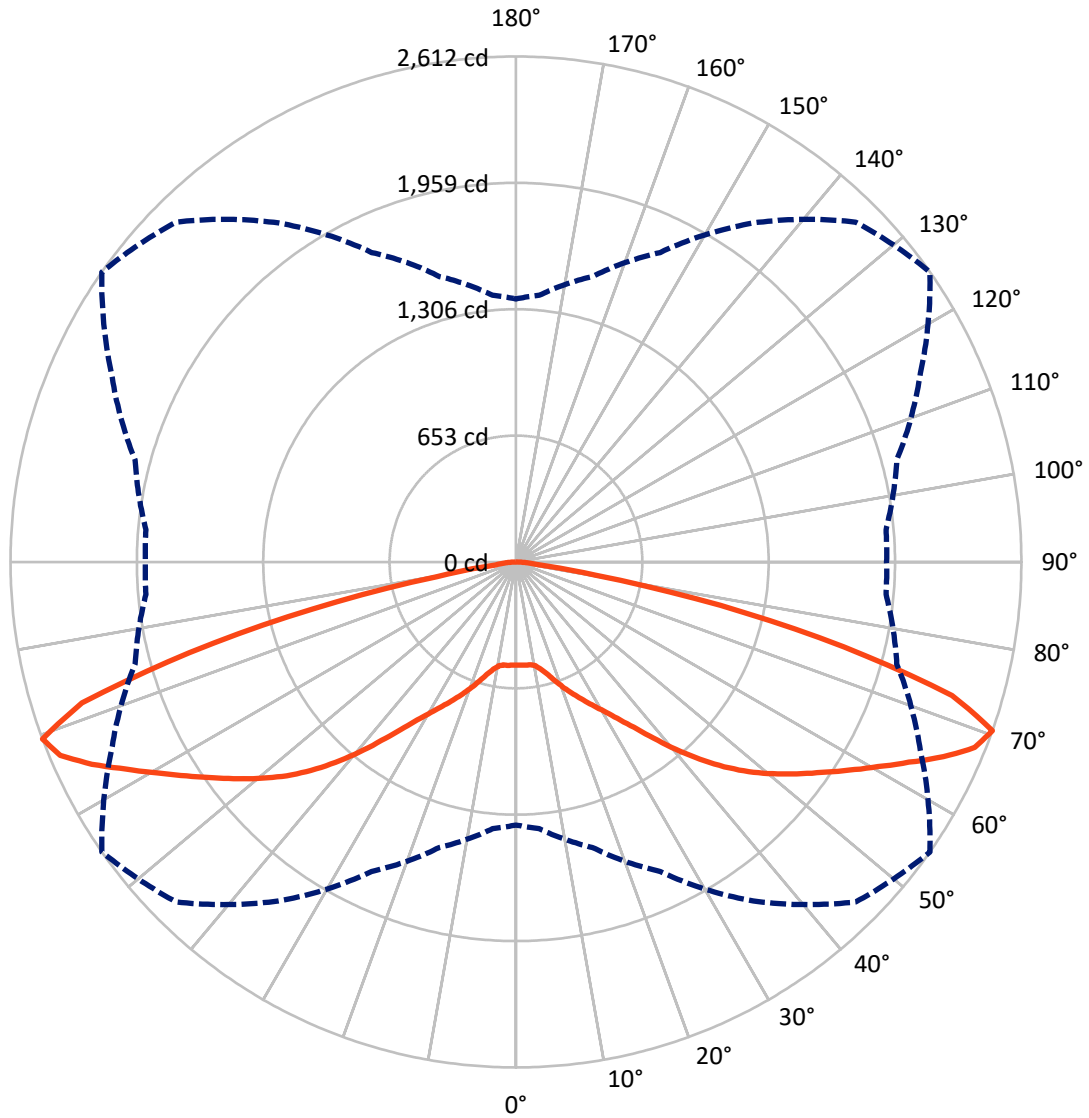
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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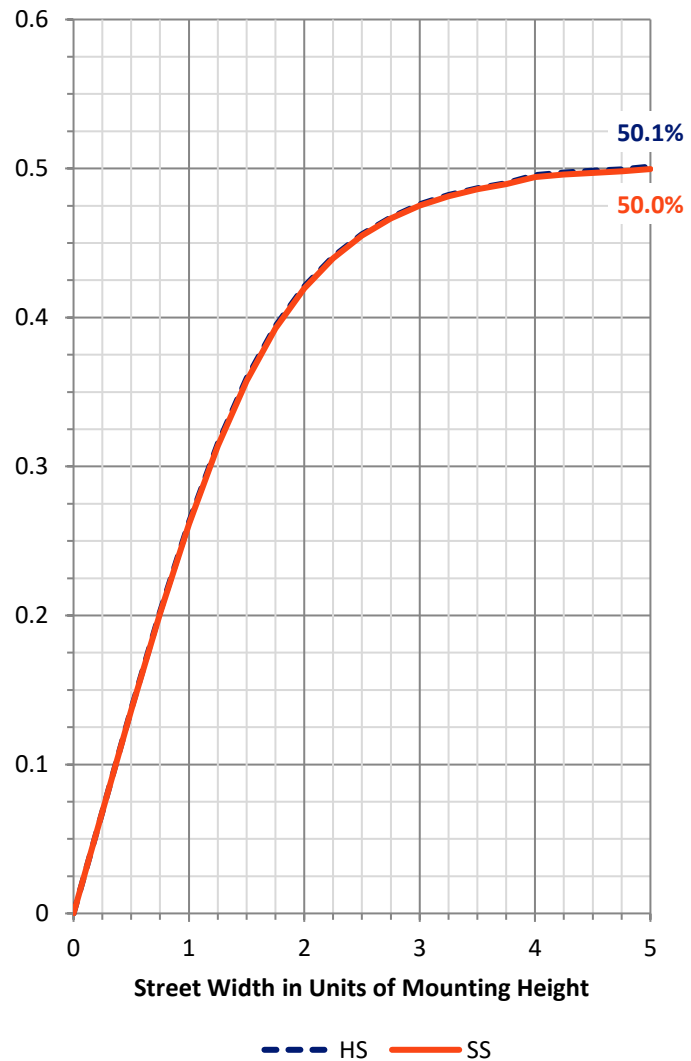
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3824.0	0.0	3824.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3824.0	0.0	3824.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7648.0	0.0	7648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	0.7
10°-20°	175.2	2.3
20°-30°	364.0	4.8
30°-40°	672.2	8.8
40°-50°	1181.0	15.4
50°-60°	1703.3	22.3
60°-70°	2084.6	27.3
70°-80°	1326.5	17.3
80°-90°	89.8	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°	7648.0	100.0
0°-180°	7648.0	100.0

Coefficient of Utilization



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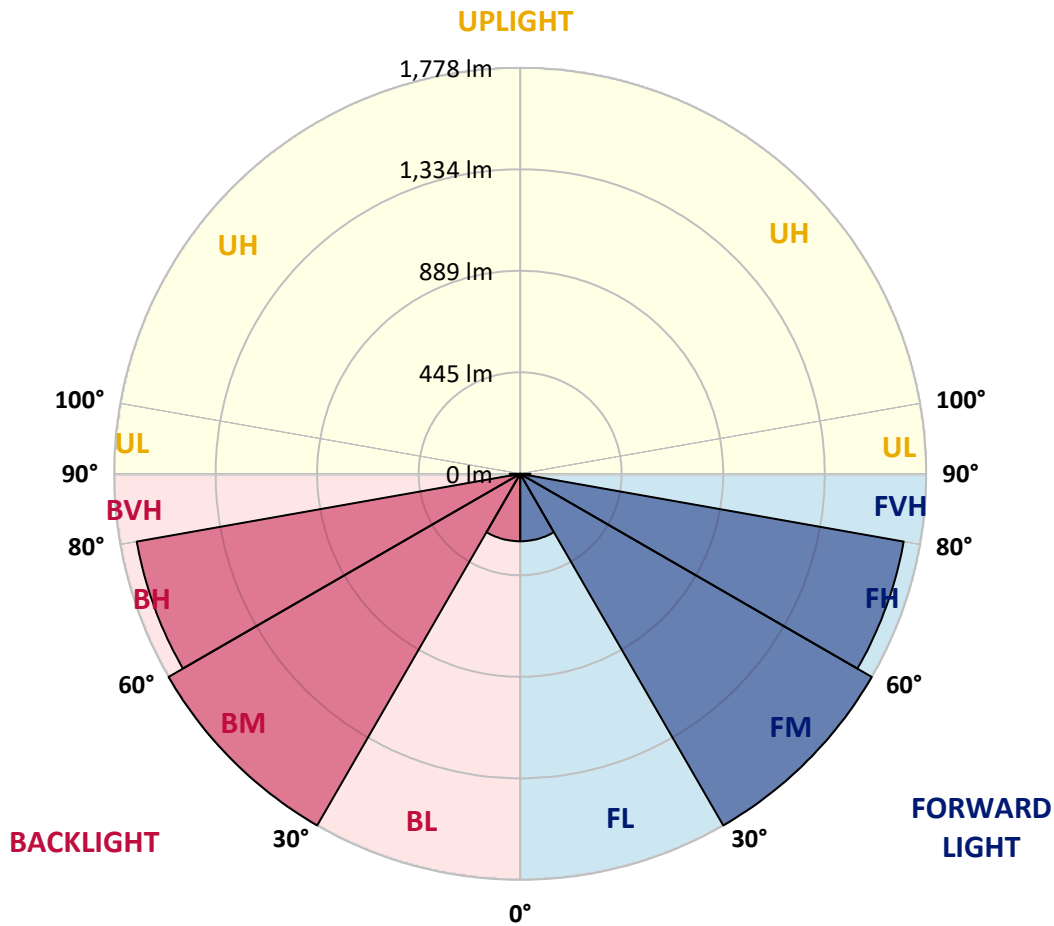
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.3	3.9			
FM (30°-60°)	1778.3	23.3			
FH (60°-80°)	1705.5	22.3			G1/1800
FVH (80°-90°)	44.9	0.6			G1/100
BL (0°-30°)	295.3	3.9	B1/500		
BM (30°-60°)	1778.3	23.3	B2/2500		
BH (60°-80°)	1705.5	22.3	B3/2500		G1/1800
BVH (80°-90°)	44.9	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°	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1	533.1
2.5°	540.2	540.2	538.8	538.8	536.0	534.6	533.1	533.1	531.7	531.7	530.3
5°	543.1	543.1	543.1	541.7	540.2	538.8	536.0	533.1	531.7	530.3	528.9
7.5°	544.5	544.5	543.1	543.1	541.7	540.2	536.0	531.7	530.3	528.9	528.9
10°	555.9	554.5	553.0	550.2	550.2	550.2	544.5	540.2	538.8	538.8	538.8
12.5°	582.9	581.5	578.6	574.4	574.4	575.8	567.3	561.6	561.6	560.2	560.2
15°	622.7	621.3	618.4	611.3	609.9	612.8	600.0	594.3	594.3	594.3	592.8
17.5°	666.8	663.9	659.7	654.0	654.0	654.0	641.2	634.1	629.8	629.8	628.4
20°	703.7	702.3	702.3	700.9	705.2	705.2	688.1	676.7	666.8	661.1	659.7
22.5°	736.4	735.0	737.9	743.5	752.1	754.9	735.0	718.0	702.3	690.9	688.1
25°	780.5	779.1	777.7	786.2	800.4	804.7	783.4	762.0	746.4	740.7	737.9
27.5°	827.4	828.9	830.3	838.8	850.2	857.3	836.0	816.1	803.3	794.7	791.9
30°	880.0	882.9	887.1	899.9	908.5	911.3	892.8	878.6	867.2	860.1	855.9
32.5°	946.9	952.5	958.2	969.6	973.9	971.0	962.5	952.5	944.0	934.1	932.6
35°	1046.4	1052.1	1050.6	1054.9	1056.3	1053.5	1049.2	1043.5	1039.3	1026.5	1025.0
37.5°	1171.5	1177.2	1168.6	1164.4	1154.4	1155.8	1154.4	1158.7	1160.1	1147.3	1145.9
40°	1298.0	1303.7	1292.3	1281.0	1271.0	1266.7	1273.8	1288.1	1288.1	1279.5	1279.5
42.5°	1433.1	1437.3	1418.9	1404.6	1391.8	1389.0	1393.3	1410.3	1414.6	1413.2	1413.2
45°	1568.1	1565.3	1541.1	1526.9	1515.5	1508.4	1509.8	1522.6	1531.2	1535.4	1535.4
47.5°	1671.9	1667.7	1647.8	1636.4	1629.3	1619.3	1619.3	1626.4	1630.7	1632.1	1632.1
50°	1754.4	1750.1	1730.2	1728.8	1728.8	1724.5	1720.3	1718.8	1716.0	1717.4	1717.4
52.5°	1825.5	1819.8	1805.6	1808.4	1821.2	1824.0	1818.4	1807.0	1795.6	1791.3	1792.8
55°	1902.2	1893.7	1882.3	1890.9	1916.5	1927.8	1919.3	1896.5	1876.6	1863.8	1863.8
57.5°	1963.4	1953.4	1953.4	1977.6	2024.5	2047.2	2028.8	1986.1	1952.0	1937.8	1939.2
60°	1920.7	1912.2	1946.3	2052.9	2141.1	2179.5	2148.2	2072.8	2017.4	2000.3	2003.2
62.5°	1836.8	1831.2	1873.8	2038.7	2246.3	2325.9	2279.0	2170.9	2088.5	2068.6	2068.6
65°	1713.1	1711.7	1771.4	1974.7	2270.5	2466.7	2426.8	2277.6	2170.9	2143.9	2149.6
67.5°	1585.2	1585.2	1639.2	1865.3	2242.0	2526.4	2557.6	2374.2	2210.7	2143.9	2145.3
70°	1359.1	1383.3	1526.9	1764.3	2138.2	2483.7	2611.7	2306.0	2037.3	1919.3	1915.0
72.5°	895.7	926.9	1212.7	1588.0	2035.9	2328.7	2357.2	2025.9	1691.8	1553.9	1546.8
75°	540.2	567.3	786.2	1239.7	1789.9	1875.2	1750.1	1588.0	1263.9	1155.8	1155.8
77.5°	159.2	177.7	362.5	786.2	1238.3	1232.6	1079.1	935.5	747.8	635.5	644.0
80°	93.8	96.7	118.0	358.3	513.2	540.2	416.6	260.2	260.2	193.4	187.7
82.5°	72.5	72.5	75.4	89.6	123.7	137.9	105.2	89.6	102.4	86.7	82.5
85°	51.2	51.2	51.2	52.6	54.0	55.4	58.3	59.7	65.4	54.0	51.2
87.5°	15.6	17.1	18.5	21.3	25.6	27.0	28.4	25.6	25.6	24.2	22.7
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)