

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: P842440

Luminaire Tested: **ARCH4-50-722-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-50-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8028 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G1

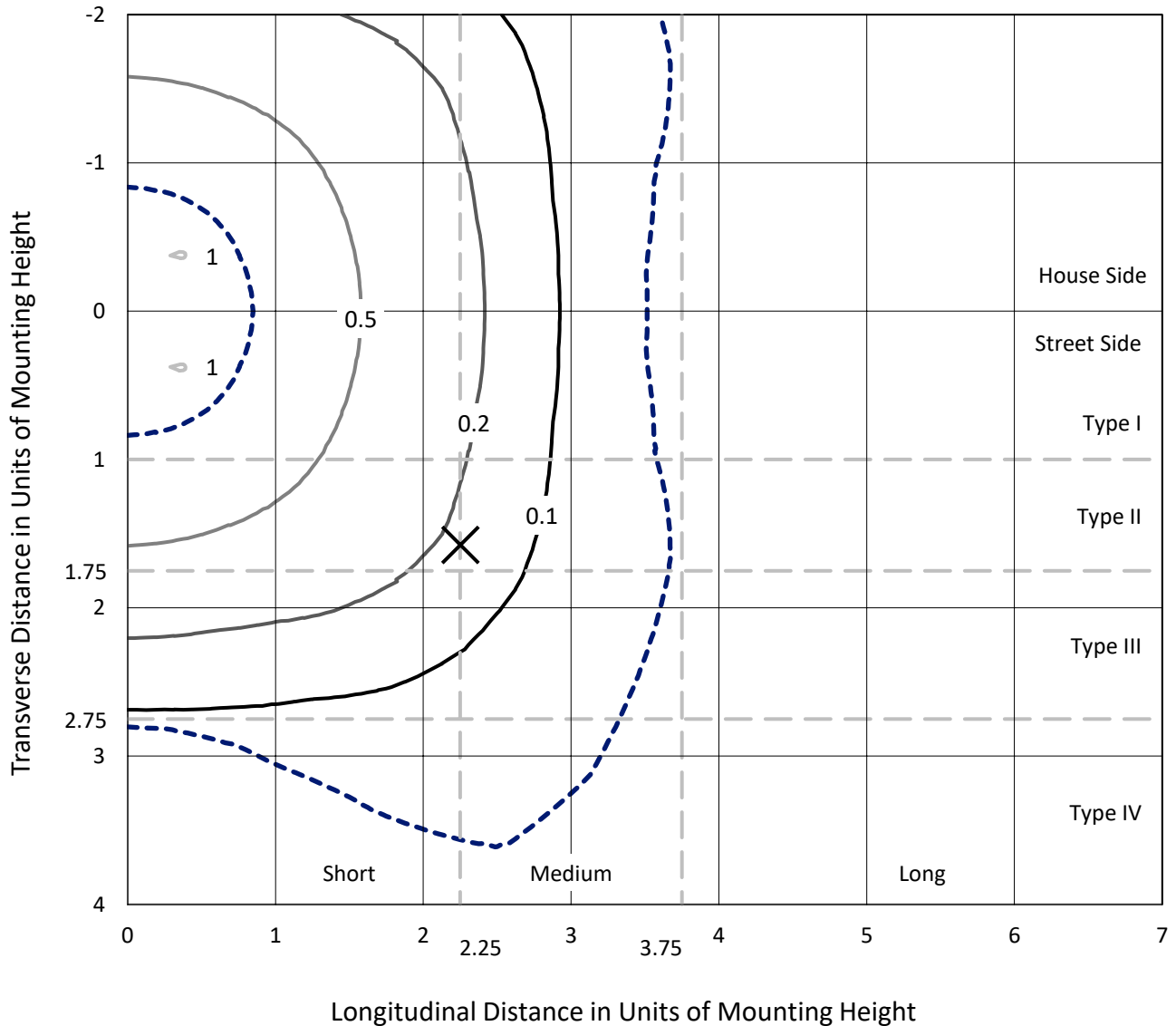
Input Watts (W): 53.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P842440
 CATALOG NUMBER: ARCH4-50-722-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

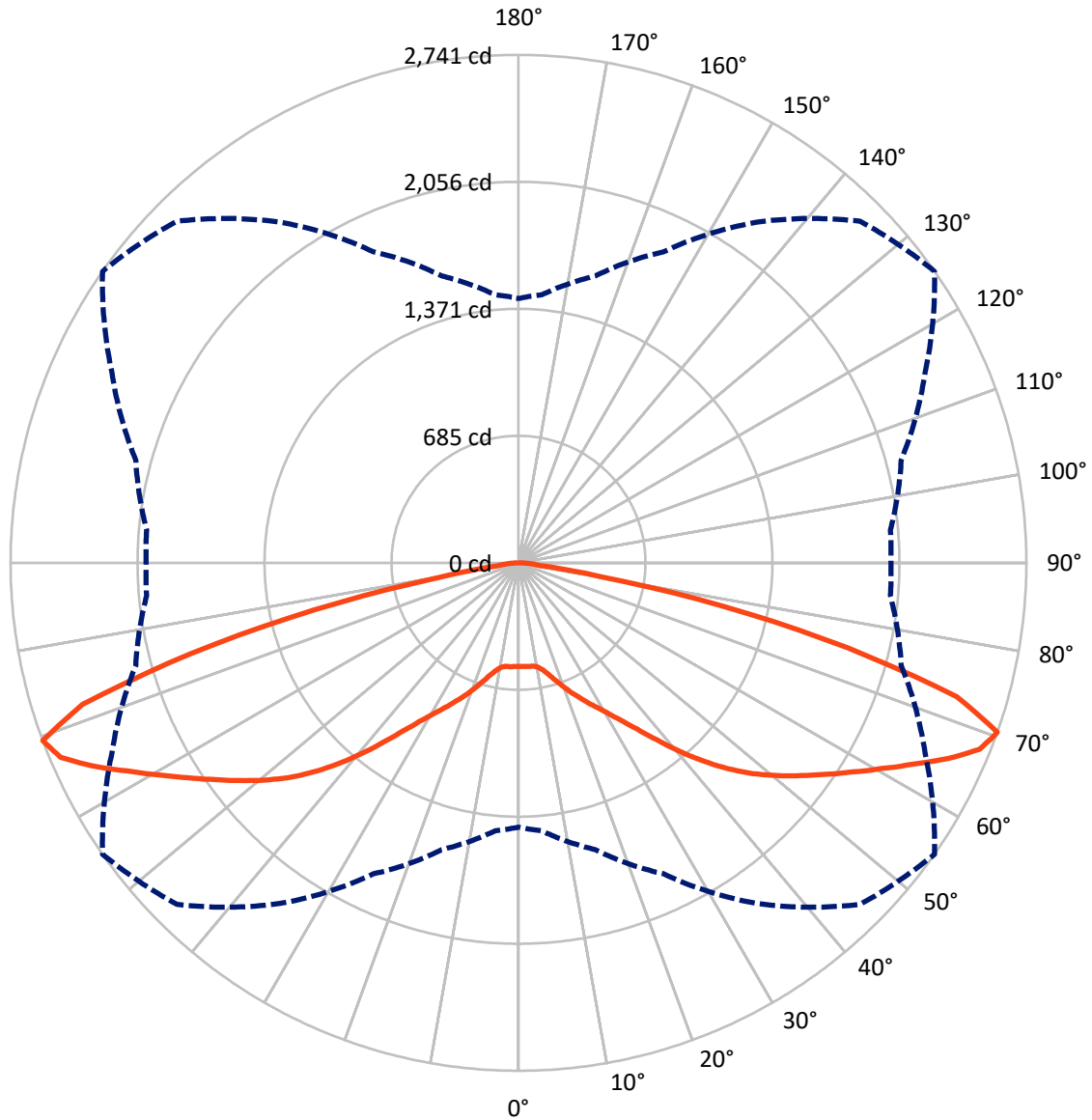
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type V - Medium - N/A

REPORT NUMBER: P842440
CATALOG NUMBER: ARCH4-50-722-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P842440
 CATALOG NUMBER: ARCH4-50-722-U-5WQ

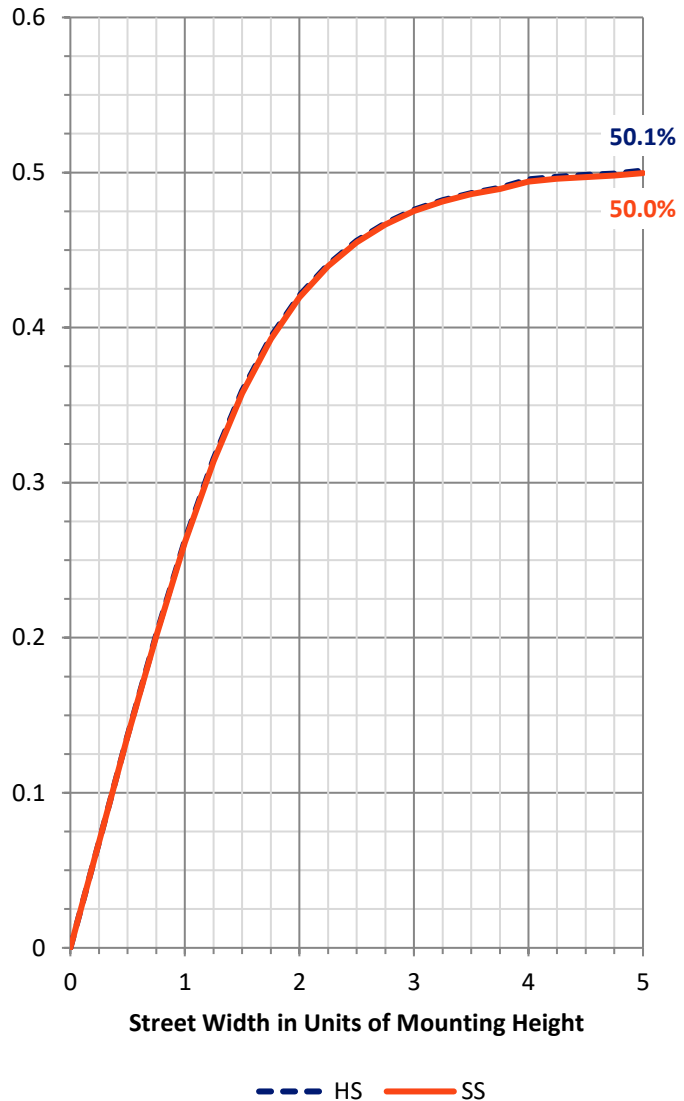
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4014.0	0.0	4014.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4014.0	0.0	4014.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8028.0	0.0	8028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	0.7
10°-20°	183.9	2.3
20°-30°	382.1	4.8
30°-40°	705.7	8.8
40°-50°	1239.7	15.4
50°-60°	1787.9	22.3
60°-70°	2188.2	27.3
70°-80°	1392.4	17.3
80°-90°	94.2	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°	8028.0	100.0
0°-180°	8028.0	100.0

Coefficient of Utilization



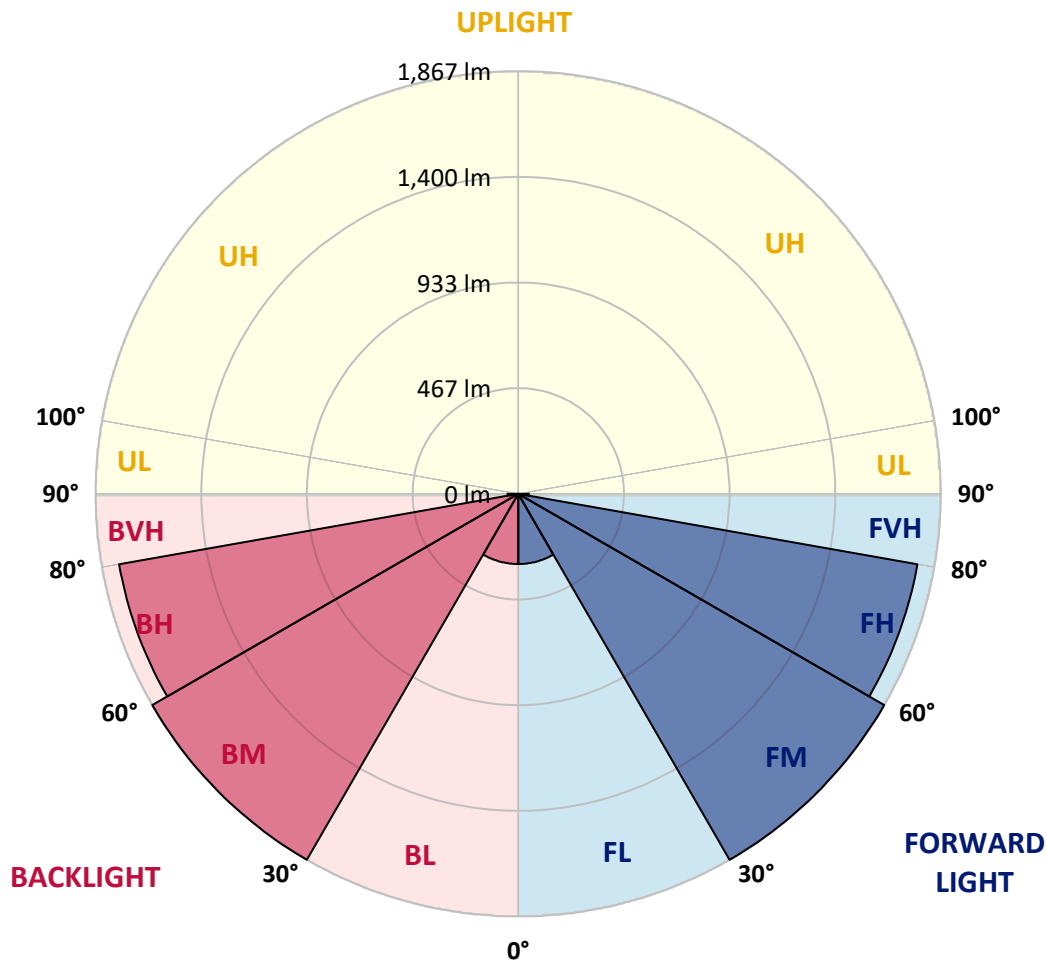
REPORT NUMBER: P842440
 CATALOG NUMBER: ARCH4-50-722-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	310.0	3.9			
FM (30°-60°)	1866.6	23.3			
FH (60°-80°)	1790.3	22.3			G1/1800
FVH (80°-90°)	47.1	0.6			G1/100
BL (0°-30°)	310.0	3.9	B1/500		
BM (30°-60°)	1866.6	23.3	B2/2500		
BH (60°-80°)	1790.3	22.3	B3/2500		G1/1800
BVH (80°-90°)	47.1	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



REPORT NUMBER: P842440
 CATALOG NUMBER: ARCH4-50-722-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	559.6	559.6	559.6	559.6	559.6	559.6	559.6	559.6	559.6	559.6	559.6
2.5°	567.1	567.1	565.6	565.6	562.6	561.1	559.6	559.6	558.1	558.1	556.6
5°	570.1	570.1	570.1	568.6	567.1	565.6	562.6	559.6	558.1	556.6	555.2
7.5°	571.6	571.6	570.1	570.1	568.6	567.1	562.6	558.1	556.6	555.2	555.2
10°	583.5	582.0	580.5	577.5	577.5	577.5	571.6	567.1	565.6	565.6	565.6
12.5°	611.9	610.4	607.4	602.9	602.9	604.4	595.4	589.5	589.5	588.0	588.0
15°	653.6	652.2	649.2	641.7	640.2	643.2	629.8	623.8	623.8	623.8	622.3
17.5°	699.9	696.9	692.4	686.5	686.5	686.5	673.0	665.6	661.1	661.1	659.6
20°	738.7	737.2	737.2	735.7	740.2	740.2	722.3	710.4	699.9	693.9	692.4
22.5°	773.0	771.5	774.5	780.5	789.4	792.4	771.5	753.6	737.2	725.3	722.3
25°	819.3	817.8	816.3	825.3	840.2	844.7	822.3	799.9	783.5	777.5	774.5
27.5°	868.5	870.0	871.5	880.5	892.4	899.9	877.5	856.6	843.2	834.2	831.2
30°	923.8	926.7	931.2	944.7	953.6	956.6	937.2	922.3	910.3	902.9	898.4
32.5°	993.9	999.9	1005.8	1017.8	1022.3	1019.3	1010.3	999.9	990.9	980.5	979.0
35°	1098.4	1104.3	1102.8	1107.3	1108.8	1105.8	1101.3	1095.4	1090.9	1077.5	1076.0
37.5°	1229.7	1235.7	1226.7	1222.2	1211.8	1213.3	1211.8	1216.3	1217.7	1204.3	1202.8
40°	1362.5	1368.5	1356.5	1344.6	1334.2	1329.7	1337.1	1352.1	1352.1	1343.1	1343.1
42.5°	1504.3	1508.8	1489.4	1474.4	1461.0	1458.0	1462.5	1480.4	1484.9	1483.4	1483.4
45°	1646.1	1643.1	1617.7	1602.8	1590.8	1583.4	1584.9	1598.3	1607.2	1611.7	1611.7
47.5°	1755.0	1750.5	1729.6	1717.7	1710.2	1699.8	1699.8	1707.2	1711.7	1713.2	1713.2
50°	1841.5	1837.1	1816.2	1814.7	1814.7	1810.2	1805.7	1804.2	1801.3	1802.7	1802.7
52.5°	1916.2	1910.2	1895.3	1898.3	1911.7	1914.7	1908.7	1896.8	1884.8	1880.3	1881.8
55°	1996.8	1987.8	1975.9	1984.8	2011.7	2023.6	2014.7	1990.8	1969.9	1956.5	1956.5
57.5°	2060.9	2050.5	2050.5	2075.8	2125.1	2149.0	2129.6	2084.8	2049.0	2034.1	2035.6
60°	2016.2	2007.2	2043.0	2154.9	2247.5	2287.8	2254.9	2175.8	2117.6	2099.7	2102.7
62.5°	1928.1	1922.1	1966.9	2140.0	2357.9	2441.5	2392.2	2278.8	2192.2	2171.4	2171.4
65°	1798.3	1796.8	1859.5	2072.9	2383.3	2589.2	2547.4	2390.7	2278.8	2250.4	2256.4
67.5°	1664.0	1664.0	1720.7	1957.9	2353.4	2651.9	2684.7	2492.2	2320.6	2250.4	2251.9
70°	1426.7	1452.0	1602.8	1852.0	2244.5	2607.1	2741.4	2420.6	2138.5	2014.7	2010.2
72.5°	940.2	973.0	1273.0	1666.9	2137.0	2444.5	2474.3	2126.6	1775.9	1631.1	1623.7
75°	567.1	595.4	825.3	1301.3	1878.9	1968.4	1837.1	1666.9	1326.7	1213.3	1213.3
77.5°	167.1	186.5	380.5	825.3	1299.8	1293.9	1132.7	982.0	785.0	667.1	676.0
80°	98.5	101.5	123.9	376.1	538.7	567.1	437.3	273.1	273.1	203.0	197.0
82.5°	76.1	76.1	79.1	94.0	129.8	144.8	110.4	94.0	107.4	91.0	86.6
85°	53.7	53.7	53.7	55.2	56.7	58.2	61.2	62.7	68.6	56.7	53.7
87.5°	16.4	17.9	19.4	22.4	26.9	28.4	29.8	26.9	26.9	25.4	23.9
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)