

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: P842413

Luminaire Tested: **ARCH4-40-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842413
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: ARCH4-40-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7877 lumens
Efficiency: N/A
Efficacy: 179.8 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): 43.8
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



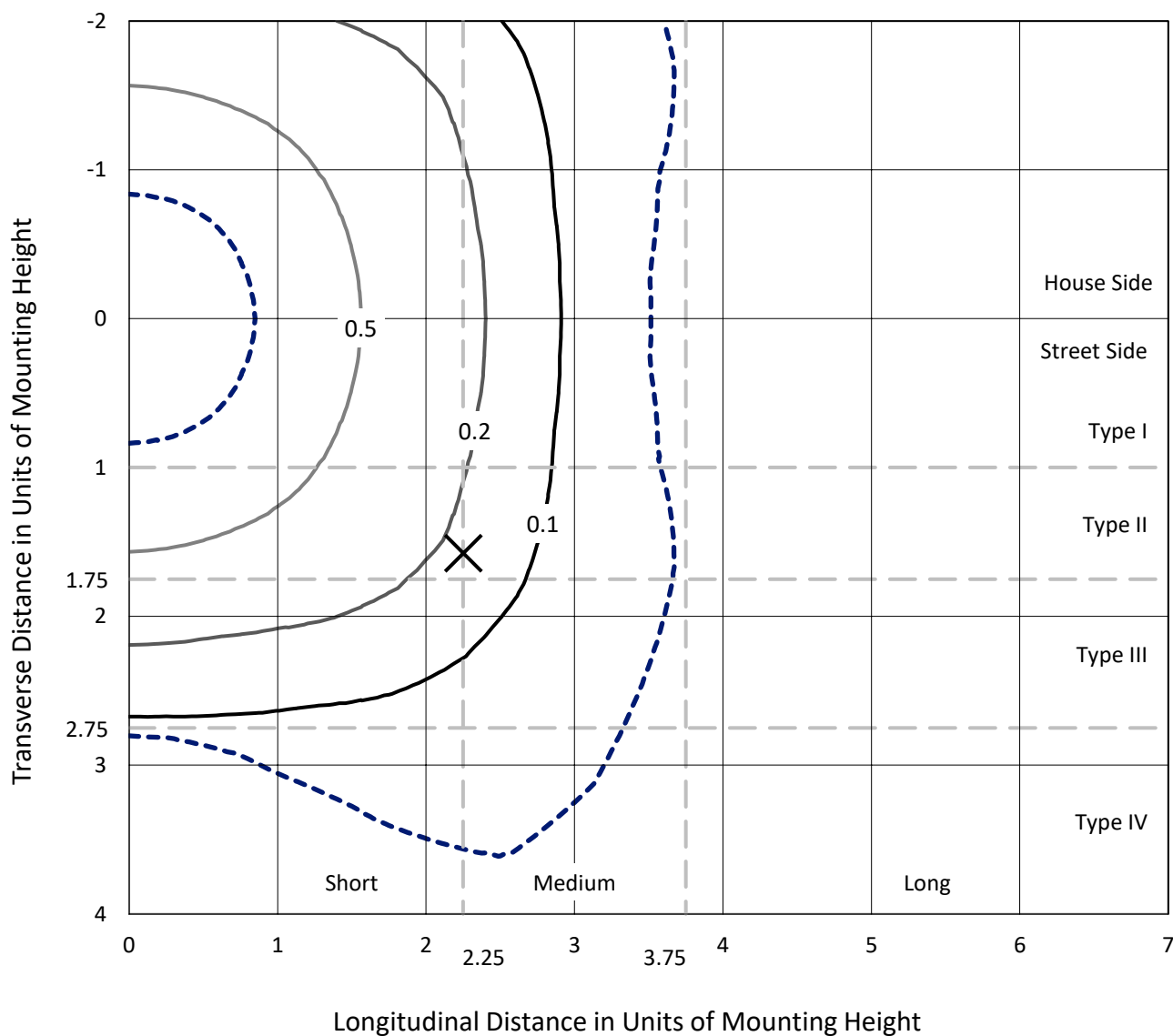
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

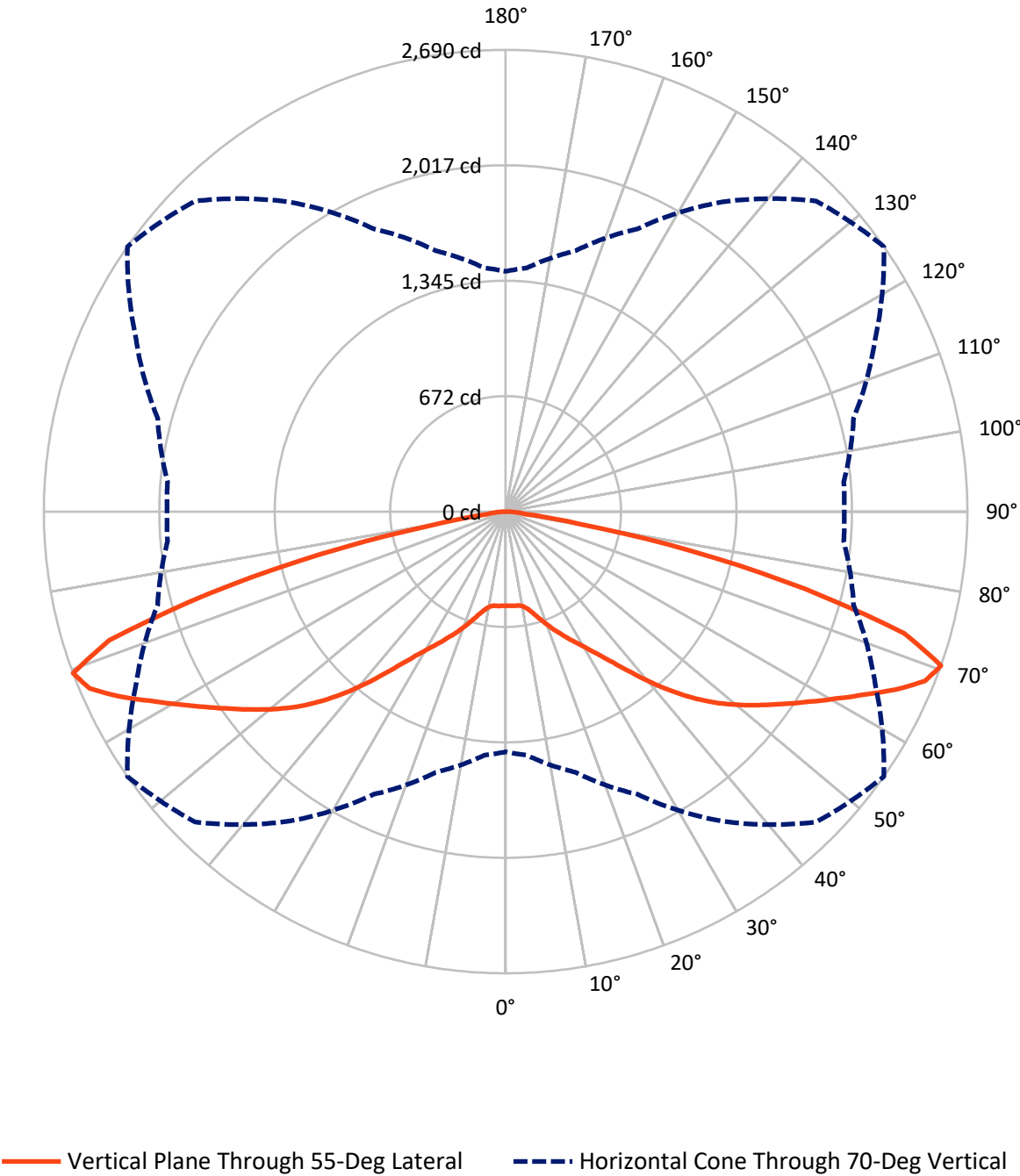


Based on 25 foot mounting height. Maximum calculated value = 1 fc

Type V - Medium - N/A

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Luminous Intensity Polar Plot



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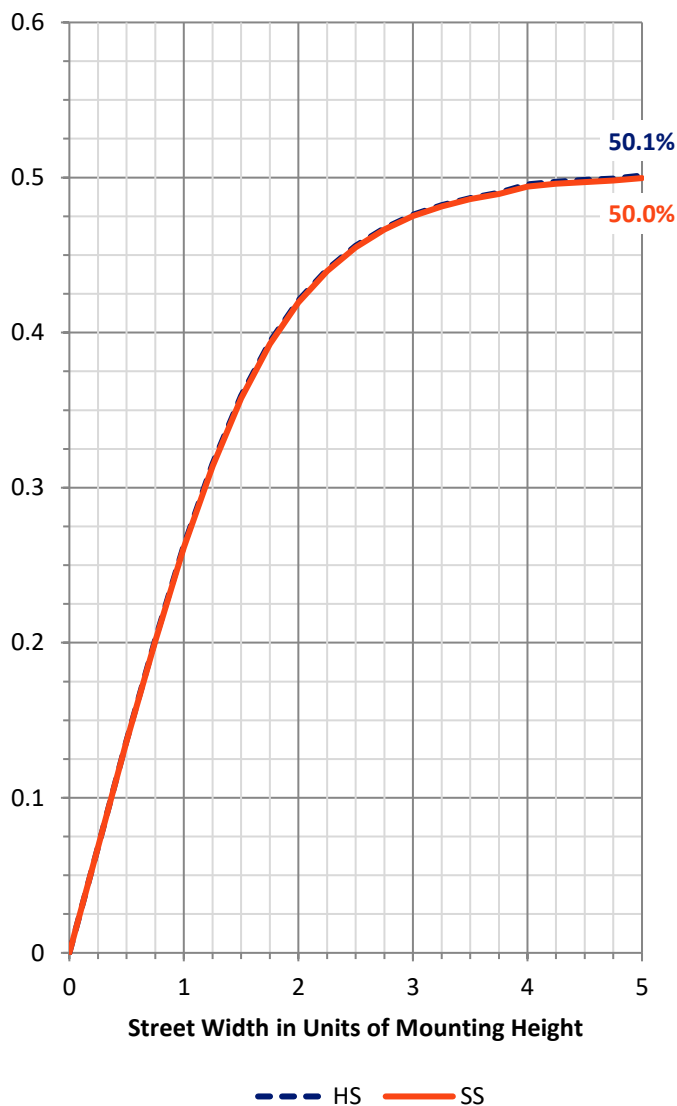
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3938.5	0.0	3938.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3938.5	0.0	3938.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7877.0	0.0	7877.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	0.7
10°-20°	180.4	2.3
20°-30°	374.9	4.8
30°-40°	692.4	8.8
40°-50°	1216.4	15.4
50°-60°	1754.3	22.3
60°-70°	2147.0	27.3
70°-80°	1366.2	17.3
80°-90°	92.4	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°	7877.0	100.0
0°-180°	7877.0	100.0

Coefficient of Utilization



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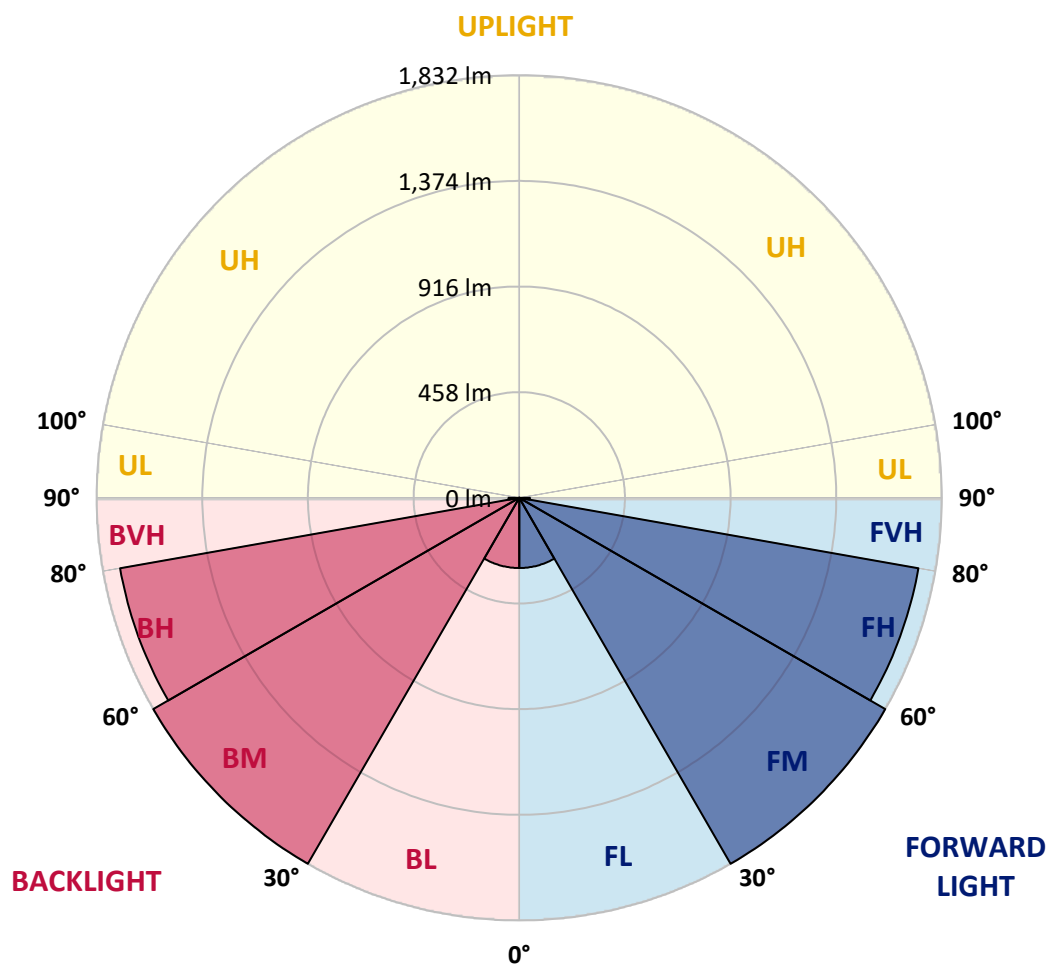
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	304.2	3.9			
FM	(30°-60°)	1831.5	23.3			
FH	(60°-80°)	1756.6	22.3			G1/1800
FVH	(80°-90°)	46.2	0.6			G1/100
BL	(0°-30°)	304.2	3.9	B1/500		
BM	(30°-60°)	1831.5	23.3	B2/2500		
BH	(60°-80°)	1756.6	22.3	B3/2500		G1/1800
BVH	(80°-90°)	46.2	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°	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1
2.5°	556.4	556.4	555.0	555.0	552.0	550.6	549.1	549.1	547.6	547.6	546.2
5°	559.4	559.4	559.4	557.9	556.4	555.0	552.0	549.1	547.6	546.2	544.7
7.5°	560.8	560.8	559.4	559.4	557.9	556.4	552.0	547.6	546.2	544.7	544.7
10°	572.5	571.1	569.6	566.7	566.7	566.7	560.8	556.4	555.0	555.0	555.0
12.5°	600.4	598.9	596.0	591.6	591.6	593.0	584.2	578.4	578.4	576.9	576.9
15°	641.4	639.9	637.0	629.6	628.2	631.1	617.9	612.1	612.1	612.1	610.6
17.5°	686.7	683.8	679.4	673.6	673.6	673.6	660.4	653.1	648.7	648.7	647.2
20°	724.8	723.3	723.3	721.9	726.3	726.3	708.7	697.0	686.7	680.9	679.4
22.5°	758.5	757.0	760.0	765.8	774.6	777.5	757.0	739.5	723.3	711.6	708.7
25°	803.9	802.4	801.0	809.7	824.4	828.8	806.8	784.8	768.7	762.9	760.0
27.5°	852.2	853.7	855.1	863.9	875.6	883.0	861.0	840.5	827.3	818.5	815.6
30°	906.4	909.3	913.7	926.9	935.7	938.6	919.6	904.9	893.2	885.9	881.5
32.5°	975.2	981.1	986.9	998.6	1003.0	1000.1	991.3	981.1	972.3	962.0	960.6
35°	1077.7	1083.6	1082.1	1086.5	1088.0	1085.0	1080.6	1074.8	1070.4	1057.2	1055.7
37.5°	1206.6	1212.4	1203.6	1199.2	1189.0	1190.5	1189.0	1193.4	1194.8	1181.7	1180.2
40°	1336.9	1342.7	1331.0	1319.3	1309.1	1304.7	1312.0	1326.6	1326.6	1317.8	1317.8
42.5°	1476.0	1480.4	1461.3	1446.7	1433.5	1430.6	1435.0	1452.6	1456.9	1455.5	1455.5
45°	1615.1	1612.2	1587.3	1572.6	1560.9	1553.6	1555.1	1568.2	1577.0	1581.4	1581.4
47.5°	1722.0	1717.6	1697.1	1685.4	1678.1	1667.8	1667.8	1675.1	1679.5	1681.0	1681.0
50°	1806.9	1802.5	1782.0	1780.6	1780.6	1776.2	1771.8	1770.3	1767.4	1768.8	1768.8
52.5°	1880.1	1874.3	1859.6	1862.6	1875.7	1878.7	1872.8	1861.1	1849.4	1845.0	1846.4
55°	1959.2	1950.4	1938.7	1947.5	1973.8	1985.5	1976.8	1953.3	1932.8	1919.7	1919.7
57.5°	2022.2	2011.9	2011.9	2036.8	2085.1	2108.5	2089.5	2045.6	2010.4	1995.8	1997.3
60°	1978.2	1969.4	2004.6	2114.4	2205.2	2244.7	2212.5	2134.9	2077.8	2060.2	2063.2
62.5°	1891.8	1886.0	1929.9	2099.8	2313.5	2395.5	2347.2	2235.9	2151.0	2130.5	2130.5
65°	1764.4	1763.0	1824.5	2033.9	2338.4	2540.5	2499.5	2345.8	2235.9	2208.1	2214.0
67.5°	1632.7	1632.7	1688.3	1921.1	2309.2	2602.0	2634.2	2445.3	2276.9	2208.1	2209.6
70°	1399.8	1424.7	1572.6	1817.2	2202.3	2558.1	2689.9	2375.0	2098.3	1976.8	1972.4
72.5°	922.5	954.7	1249.0	1635.6	2096.8	2398.5	2427.8	2086.6	1742.5	1600.4	1593.1
75°	556.4	584.2	809.7	1276.8	1843.5	1931.4	1802.5	1635.6	1301.7	1190.5	1190.5
77.5°	164.0	183.0	373.4	809.7	1275.4	1269.5	1111.4	963.5	770.2	654.5	663.3
80°	96.6	99.6	121.5	369.0	528.6	556.4	429.0	268.0	268.0	199.1	193.3
82.5°	74.7	74.7	77.6	92.2	127.4	142.0	108.4	92.2	105.4	89.3	84.9
85°	52.7	52.7	52.7	54.2	55.6	57.1	60.0	61.5	67.4	55.6	52.7
87.5°	16.1	17.6	19.0	22.0	26.4	27.8	29.3	26.4	26.4	24.9	23.4
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)