

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: P842701

Luminaire Tested: **ARCH4-80-750-U-5WQ**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842701
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: ARCH4-80-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14890 lumens
Efficiency: N/A
Efficacy: 178.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

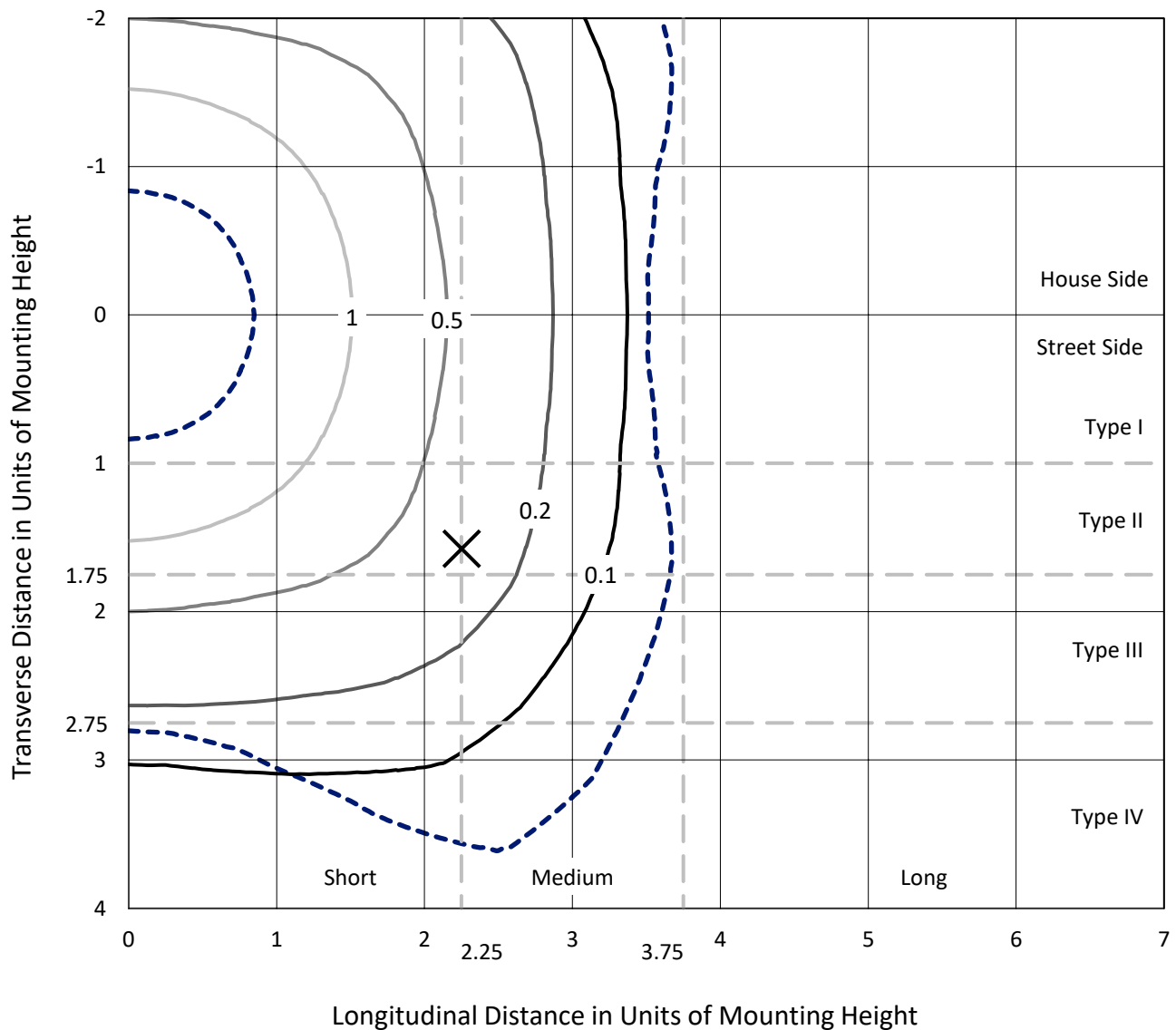
Input Watts (W): 83.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

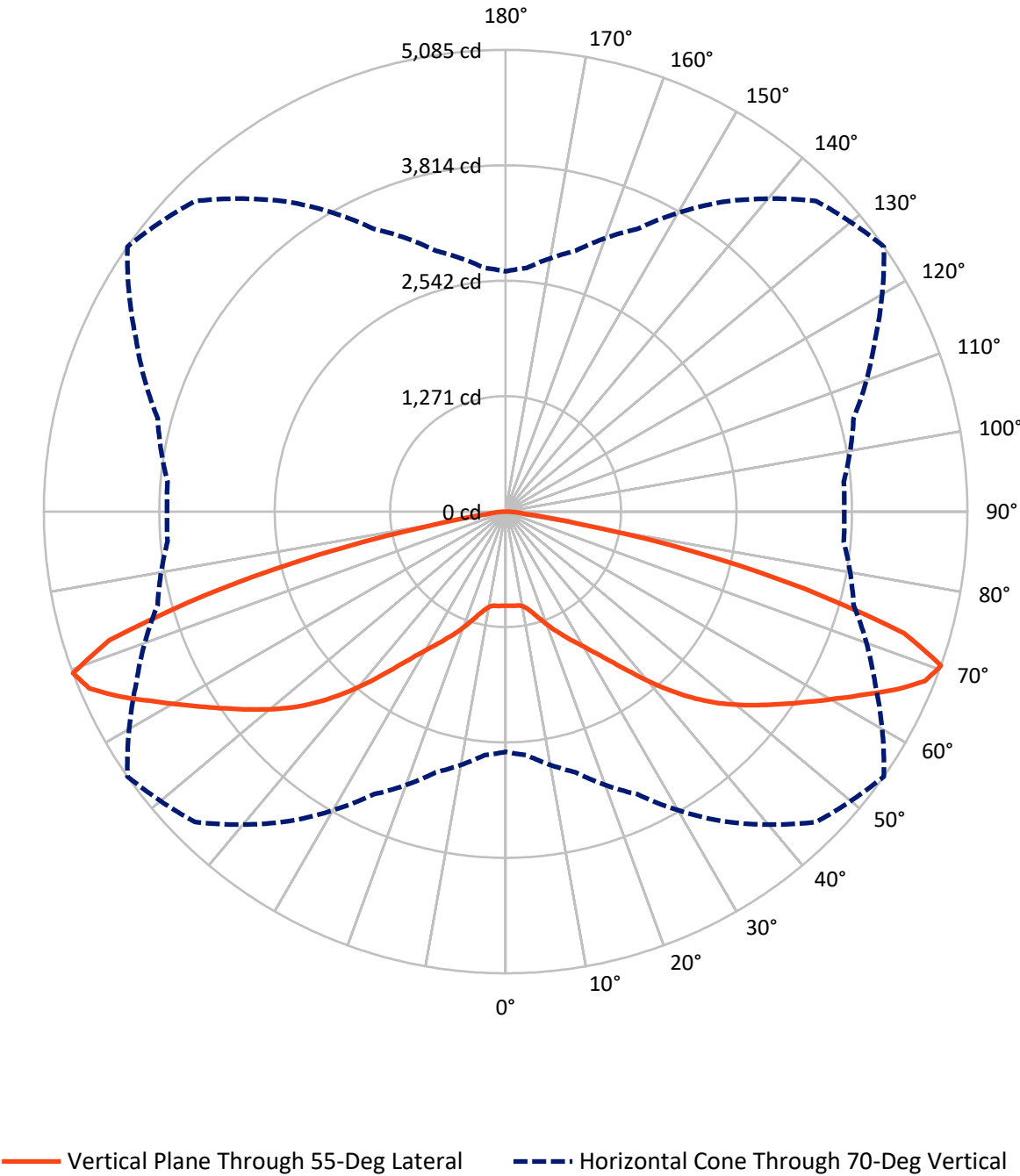
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	7445.0	0.0	7445.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7445.0	0.0	7445.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14890.0	0.0	14890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	0.7
10°-20°	341.0	2.3
20°-30°	708.6	4.8
30°-40°	1308.8	8.8
40°-50°	2299.3	15.4
50°-60°	3316.1	22.3
60°-70°	4058.6	27.3
70°-80°	2582.6	17.3
80°-90°	174.7	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°	14890.0	100.0
0°-180°	14890.0	100.0

Coefficient of Utilization



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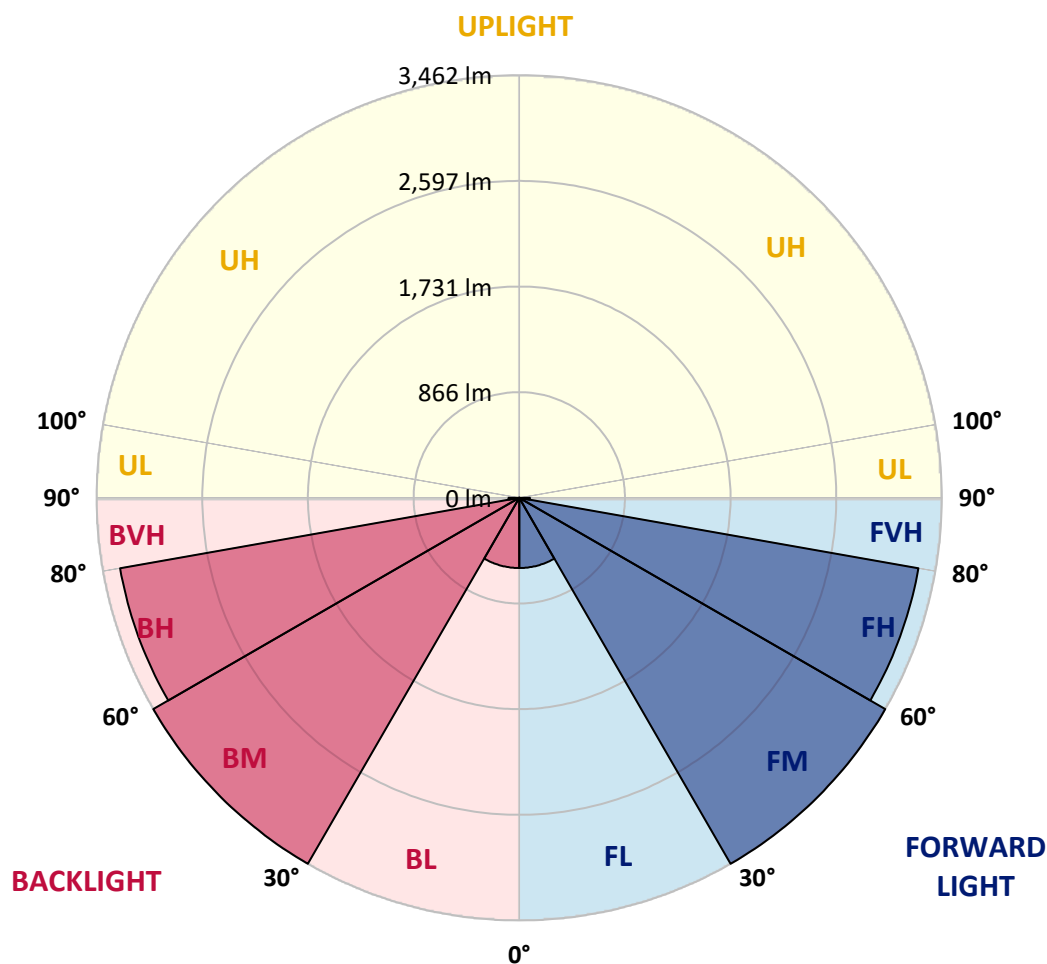
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	574.9	3.9			
FM	(30°-60°)	3462.1	23.3			
FH	(60°-80°)	3320.6	22.3			G2/5000
FVH	(80°-90°)	87.4	0.6			G1/100
BL	(0°-30°)	574.9	3.9	B2/1000		
BM	(30°-60°)	3462.1	23.3	B3/5000		
BH	(60°-80°)	3320.6	22.3	B4/5000		G2/5000
BVH	(80°-90°)	87.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0
2.5°	1051.8	1051.8	1049.0	1049.0	1043.5	1040.7	1038.0	1038.0	1035.2	1035.2	1032.4
5°	1057.3	1057.3	1057.3	1054.6	1051.8	1049.0	1043.5	1038.0	1035.2	1032.4	1029.7
7.5°	1060.1	1060.1	1057.3	1057.3	1054.6	1051.8	1043.5	1035.2	1032.4	1029.7	1029.7
10°	1082.3	1079.5	1076.7	1071.2	1071.2	1071.2	1060.1	1051.8	1049.0	1049.0	1049.0
12.5°	1134.9	1132.1	1126.5	1118.2	1118.2	1121.0	1104.4	1093.3	1093.3	1090.6	1090.6
15°	1212.4	1209.6	1204.0	1190.2	1187.4	1193.0	1168.1	1157.0	1157.0	1157.0	1154.2
17.5°	1298.2	1292.6	1284.3	1273.2	1273.2	1273.2	1248.3	1234.5	1226.2	1226.2	1223.4
20°	1370.1	1367.4	1367.4	1364.6	1372.9	1372.9	1339.7	1317.5	1298.2	1287.1	1284.3
22.5°	1433.8	1431.0	1436.6	1447.6	1464.2	1469.8	1431.0	1397.8	1367.4	1345.2	1339.7
25°	1519.6	1516.8	1514.1	1530.7	1558.3	1566.6	1525.1	1483.6	1453.2	1442.1	1436.6
27.5°	1610.9	1613.7	1616.5	1633.1	1655.2	1669.1	1627.5	1588.8	1563.9	1547.3	1541.7
30°	1713.3	1718.9	1727.2	1752.1	1768.7	1774.2	1738.3	1710.6	1688.4	1674.6	1666.3
32.5°	1843.4	1854.5	1865.6	1887.7	1896.0	1890.5	1873.9	1854.5	1837.9	1818.5	1815.8
35°	2037.2	2048.3	2045.5	2053.8	2056.6	2051.0	2042.7	2031.7	2023.4	1998.4	1995.7
37.5°	2280.8	2291.8	2275.2	2266.9	2247.6	2250.3	2247.6	2255.9	2258.6	2233.7	2231.0
40°	2527.1	2538.2	2516.0	2493.9	2474.5	2466.2	2480.1	2507.7	2507.7	2491.1	2491.1
42.5°	2790.1	2798.4	2762.4	2734.7	2709.8	2704.3	2712.6	2745.8	2754.1	2751.3	2751.3
45°	3053.0	3047.5	3000.4	2972.8	2950.6	2936.8	2939.5	2964.5	2981.1	2989.4	2989.4
47.5°	3255.1	3246.8	3208.0	3185.9	3172.0	3152.7	3152.7	3166.5	3174.8	3177.6	3177.6
50°	3415.6	3407.3	3368.6	3365.8	3365.8	3357.5	3349.2	3346.4	3340.9	3343.7	3343.7
52.5°	3554.0	3542.9	3515.3	3520.8	3545.7	3551.3	3540.2	3518.0	3495.9	3487.6	3490.4
55°	3703.5	3686.9	3664.7	3681.3	3731.2	3753.3	3736.7	3692.4	3653.7	3628.8	3628.8
57.5°	3822.5	3803.1	3803.1	3850.2	3941.5	3985.8	3949.8	3866.8	3800.4	3772.7	3775.5
60°	3739.5	3722.9	3789.3	3996.9	4168.5	4243.2	4182.3	4035.6	3927.7	3894.5	3900.0
62.5°	3576.2	3565.1	3648.1	3969.2	4373.3	4528.3	4437.0	4226.6	4066.1	4027.3	4027.3
65°	3335.4	3332.6	3448.8	3844.7	4420.4	4802.4	4724.9	4434.2	4226.6	4174.0	4185.1
67.5°	3086.2	3086.2	3191.4	3631.5	4365.0	4918.6	4979.5	4622.4	4304.1	4174.0	4176.8
70°	2646.1	2693.2	2972.8	3435.0	4163.0	4835.6	5084.7	4489.6	3966.4	3736.7	3728.4
72.5°	1743.8	1804.7	2361.0	3091.8	3963.7	4533.9	4589.2	3944.3	3293.8	3025.3	3011.5
75°	1051.8	1104.4	1530.7	2413.6	3484.8	3650.9	3407.3	3091.8	2460.7	2250.3	2250.3
77.5°	310.0	346.0	705.8	1530.7	2410.9	2399.8	2100.9	1821.3	1455.9	1237.3	1253.9
80°	182.7	188.2	229.7	697.5	999.2	1051.8	811.0	506.5	506.5	376.4	365.4
82.5°	141.2	141.2	146.7	174.4	240.8	268.5	204.8	174.4	199.3	168.8	160.5
85°	99.6	99.6	99.6	102.4	105.2	107.9	113.5	116.3	127.3	105.2	99.6
87.5°	30.4	33.2	36.0	41.5	49.8	52.6	55.4	49.8	49.8	47.1	44.3
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)