

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: P836854

Luminaire Tested: **ARCH3-80-750-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836854
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: ARCH3-80-750-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

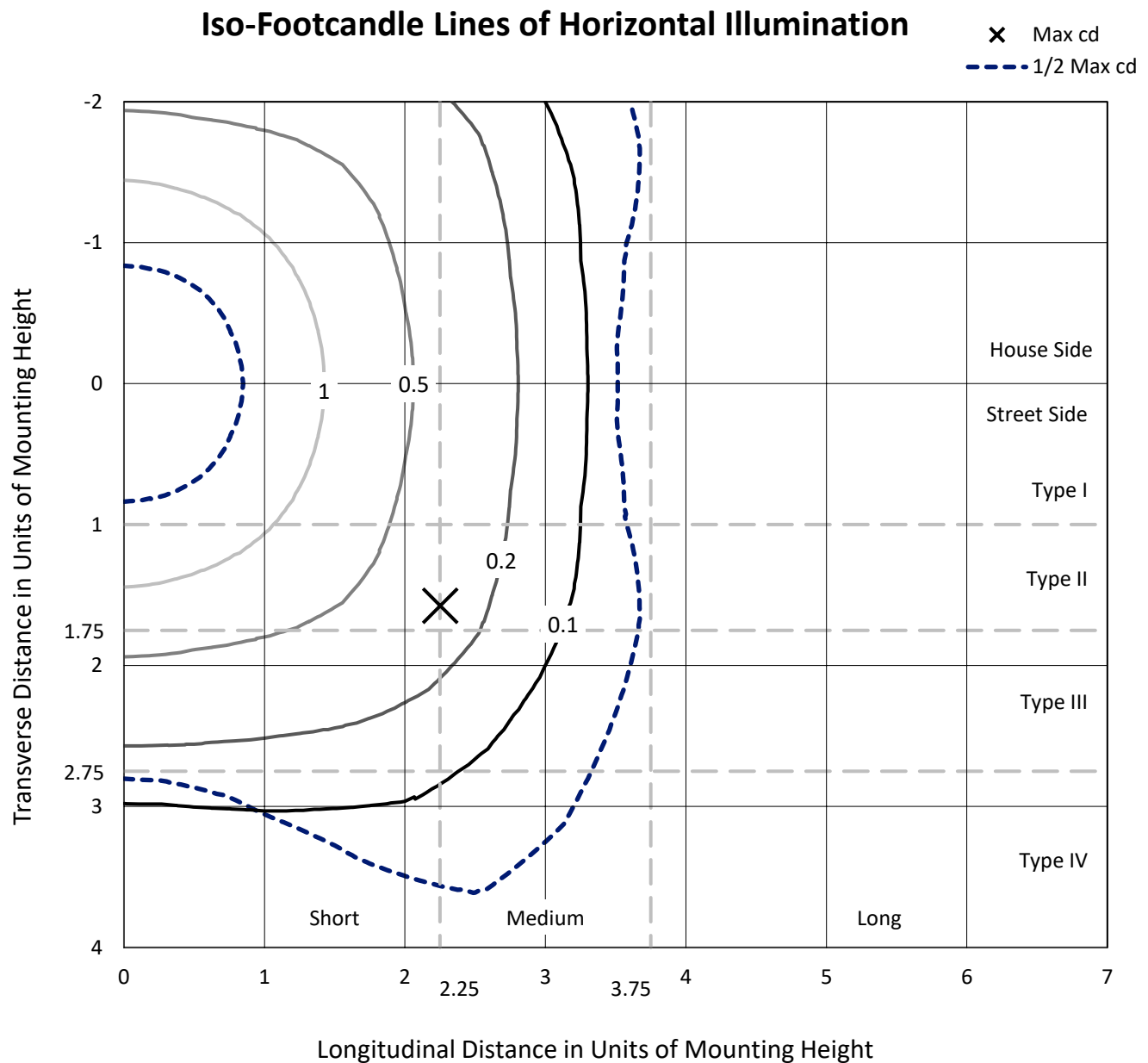
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13542 lumens
Efficiency: N/A
Efficacy: 165.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B4 - U0 - G2

Input Watts (W): 81.9
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



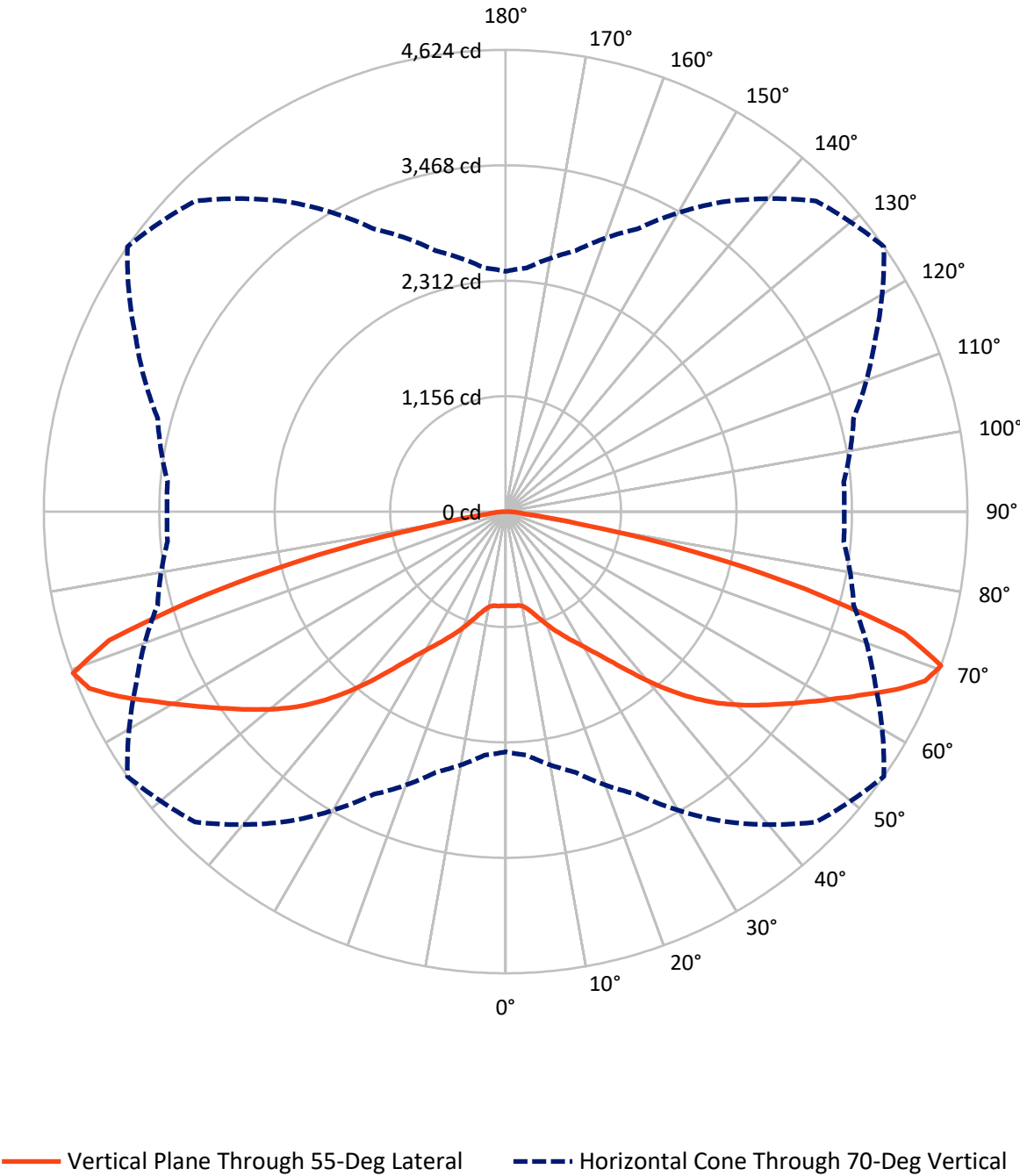
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Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6771.0	0.0	6771.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6771.0	0.0	6771.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13542.0	0.0	13542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	0.7
10°-20°	310.2	2.3
20°-30°	644.5	4.8
30°-40°	1190.3	8.8
40°-50°	2091.1	15.4
50°-60°	3015.9	22.3
60°-70°	3691.2	27.3
70°-80°	2348.8	17.3
80°-90°	158.9	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°	13542.0	100.0
0°-180°	13542.0	100.0

Coefficient of Utilization



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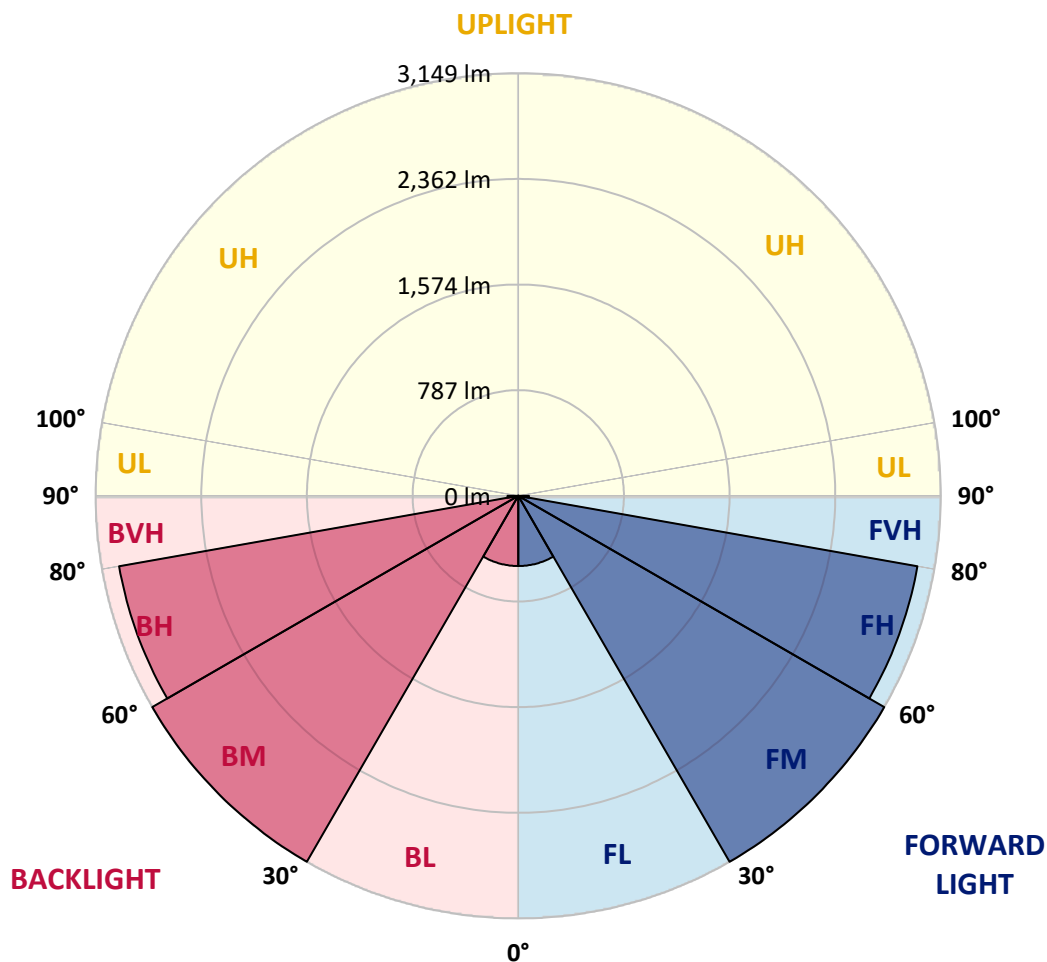
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	522.9	3.9			
FM	(30°-60°)	3148.7	23.3			
FH	(60°-80°)	3020.0	22.3			G2/5000
FVH	(80°-90°)	79.5	0.6			G1/100
BL	(0°-30°)	522.9	3.9	B2/1000		
BM	(30°-60°)	3148.7	23.3	B3/5000		
BH	(60°-80°)	3020.0	22.3	B4/5000		G2/5000
BVH	(80°-90°)	79.5	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°	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0	944.0
2.5°	956.6	956.6	954.1	954.1	949.0	946.5	944.0	944.0	941.5	941.5	939.0
5°	961.6	961.6	961.6	959.1	956.6	954.1	949.0	944.0	941.5	939.0	936.5
7.5°	964.1	964.1	961.6	961.6	959.1	956.6	949.0	941.5	939.0	936.5	936.5
10°	984.3	981.8	979.2	974.2	974.2	974.2	964.1	956.6	954.1	954.1	954.1
12.5°	1032.1	1029.6	1024.6	1017.0	1017.0	1019.5	1004.4	994.4	994.4	991.8	991.8
15°	1102.6	1100.1	1095.0	1082.5	1079.9	1085.0	1062.3	1052.3	1052.3	1052.3	1049.7
17.5°	1180.6	1175.6	1168.0	1158.0	1158.0	1158.0	1135.3	1122.7	1115.2	1115.2	1112.7
20°	1246.1	1243.6	1243.6	1241.1	1248.6	1248.6	1218.4	1198.3	1180.6	1170.6	1168.0
22.5°	1304.0	1301.5	1306.5	1316.6	1331.7	1336.7	1301.5	1271.3	1243.6	1223.4	1218.4
25°	1382.0	1379.5	1377.0	1392.1	1417.3	1424.8	1387.1	1349.3	1321.6	1311.5	1306.5
27.5°	1465.1	1467.6	1470.1	1485.2	1505.4	1518.0	1480.2	1445.0	1422.3	1407.2	1402.2
30°	1558.2	1563.3	1570.8	1593.5	1608.6	1613.6	1580.9	1555.7	1535.6	1523.0	1515.4
32.5°	1676.6	1686.6	1696.7	1716.8	1724.4	1719.3	1704.2	1686.6	1671.5	1653.9	1651.4
35°	1852.8	1862.8	1860.3	1867.9	1870.4	1865.4	1857.8	1847.7	1840.2	1817.5	1815.0
37.5°	2074.3	2084.4	2069.3	2061.7	2044.1	2046.6	2044.1	2051.6	2054.2	2031.5	2029.0
40°	2298.3	2308.4	2288.3	2268.1	2250.5	2243.0	2255.5	2280.7	2280.7	2265.6	2265.6
42.5°	2537.5	2545.0	2512.3	2487.1	2464.5	2459.4	2467.0	2497.2	2504.8	2502.2	2502.2
45°	2776.6	2771.6	2728.8	2703.6	2683.5	2670.9	2673.4	2696.1	2711.2	2718.7	2718.7
47.5°	2960.4	2952.8	2917.6	2897.5	2884.9	2867.3	2867.3	2879.8	2887.4	2889.9	2889.9
50°	3106.4	3098.9	3063.6	3061.1	3061.1	3053.5	3046.0	3043.5	3038.4	3041.0	3041.0
52.5°	3232.3	3222.2	3197.0	3202.1	3224.7	3229.8	3219.7	3199.5	3179.4	3171.9	3174.4
55°	3368.2	3353.1	3333.0	3348.1	3393.4	3413.5	3398.4	3358.1	3322.9	3300.2	3300.2
57.5°	3476.5	3458.8	3458.8	3501.6	3584.7	3625.0	3592.3	3516.7	3456.3	3431.1	3433.7
60°	3400.9	3385.8	3446.2	3635.0	3791.1	3859.1	3803.7	3670.3	3572.1	3541.9	3546.9
62.5°	3252.4	3242.3	3317.9	3609.9	3977.4	4118.4	4035.3	3844.0	3698.0	3662.7	3662.7
65°	3033.4	3030.9	3136.6	3496.6	4020.2	4367.6	4297.1	4032.8	3844.0	3796.2	3806.2
67.5°	2806.8	2806.8	2902.5	3302.8	3969.9	4473.3	4528.7	4204.0	3914.5	3796.2	3798.7
70°	2406.6	2449.4	2703.6	3124.0	3786.1	4397.8	4624.4	4083.1	3607.4	3398.4	3390.9
72.5°	1585.9	1641.3	2147.3	2811.9	3604.8	4123.4	4173.8	3587.2	2995.6	2751.5	2738.9
75°	956.6	1004.4	1392.1	2195.1	3169.3	3320.4	3098.9	2811.9	2237.9	2046.6	2046.6
77.5°	281.9	314.7	641.9	1392.1	2192.6	2182.5	1910.7	1656.4	1324.1	1125.3	1140.4
80°	166.1	171.2	208.9	634.4	908.8	956.6	737.6	460.7	460.7	342.4	332.3
82.5°	128.4	128.4	133.4	158.6	219.0	244.2	186.3	158.6	181.2	153.6	146.0
85°	90.6	90.6	90.6	93.1	95.7	98.2	103.2	105.7	115.8	95.7	90.6
87.5°	27.7	30.2	32.7	37.8	45.3	47.8	50.3	45.3	45.3	42.8	40.3
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)