

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: P835873

Luminaire Tested: **ARCH3-110-722-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835873
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: ARCH3-110-722-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14647 lumens
Efficiency: N/A
Efficacy: 130.9 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): 111.9
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

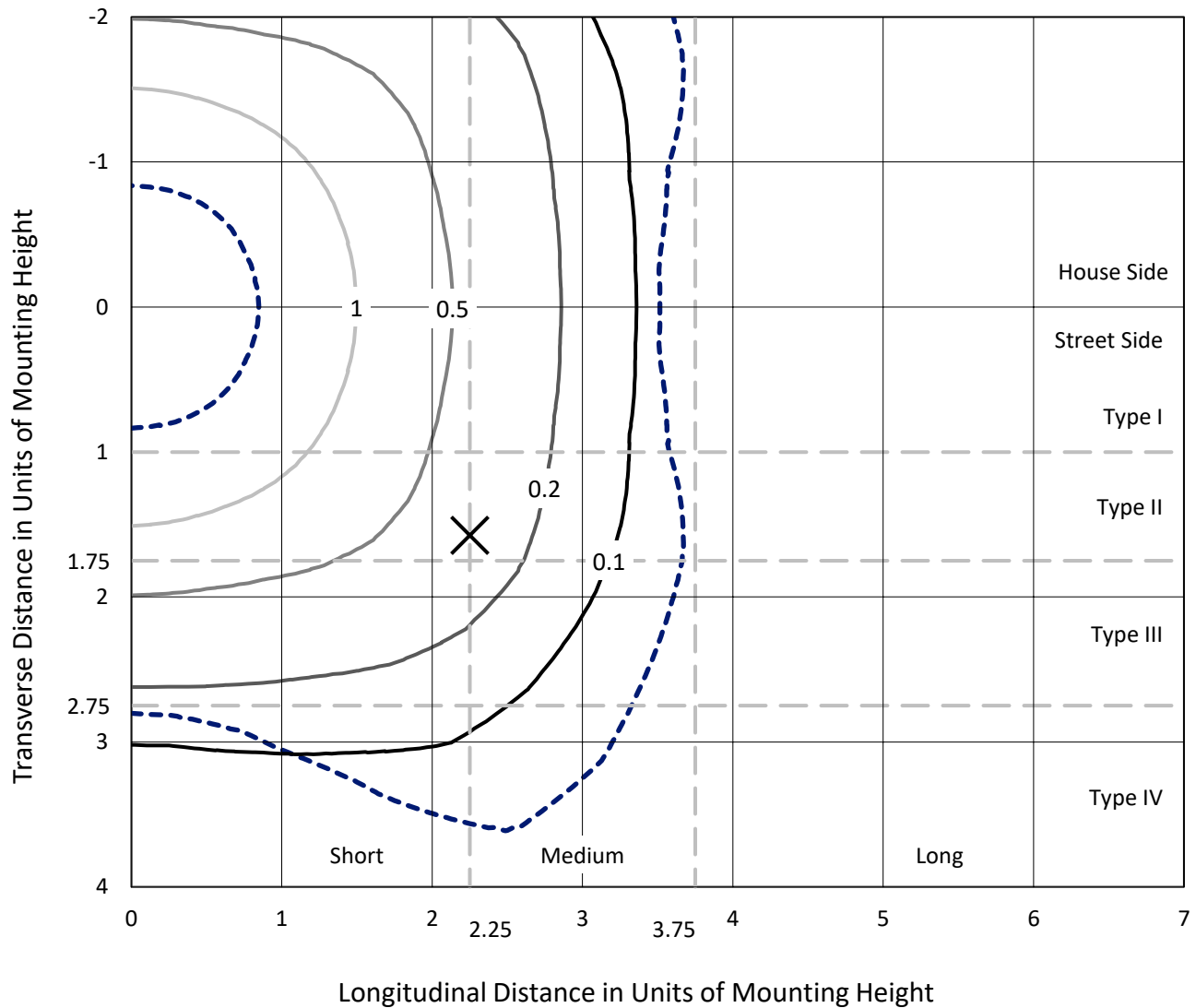


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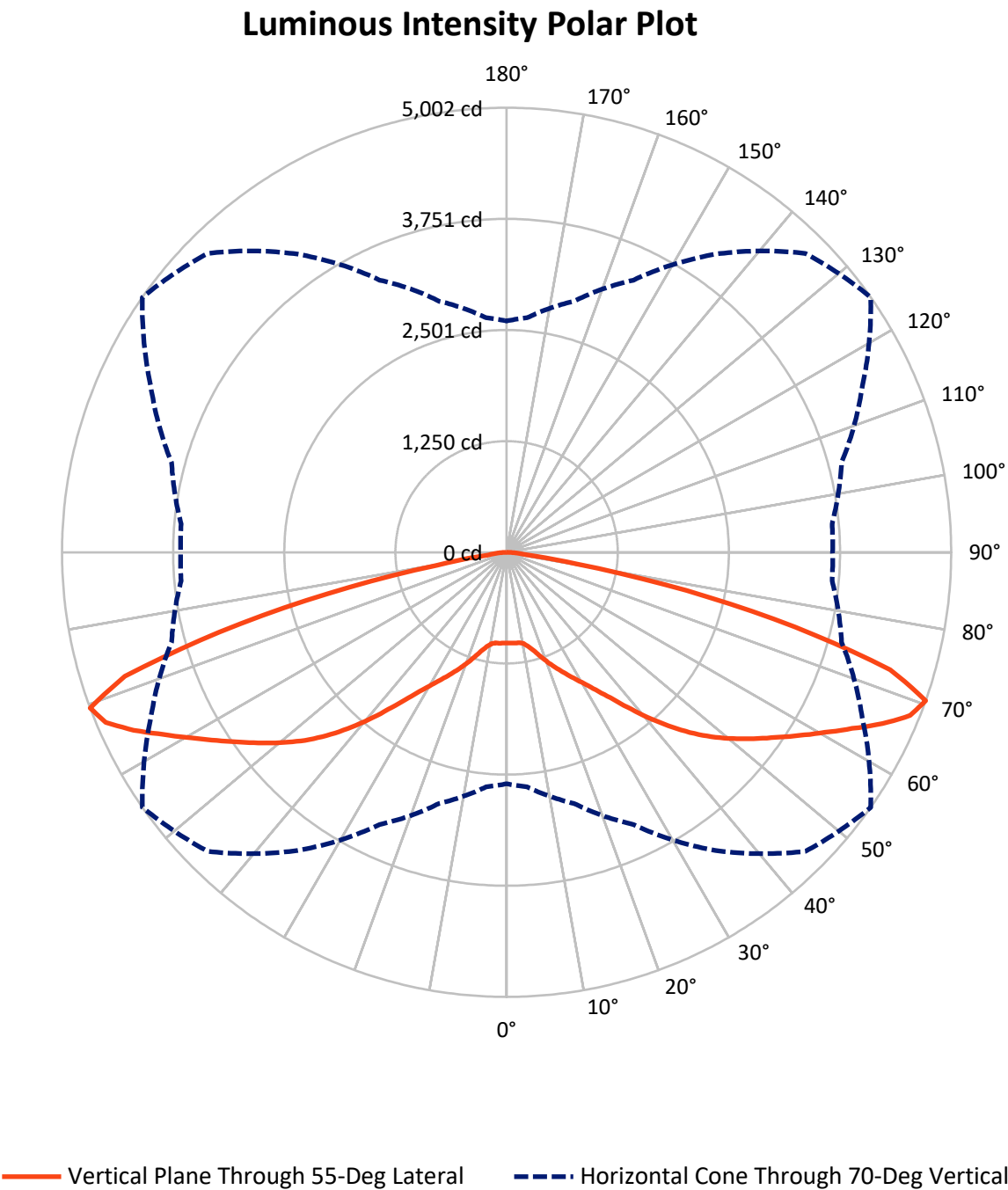
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type V - Medium - N/A

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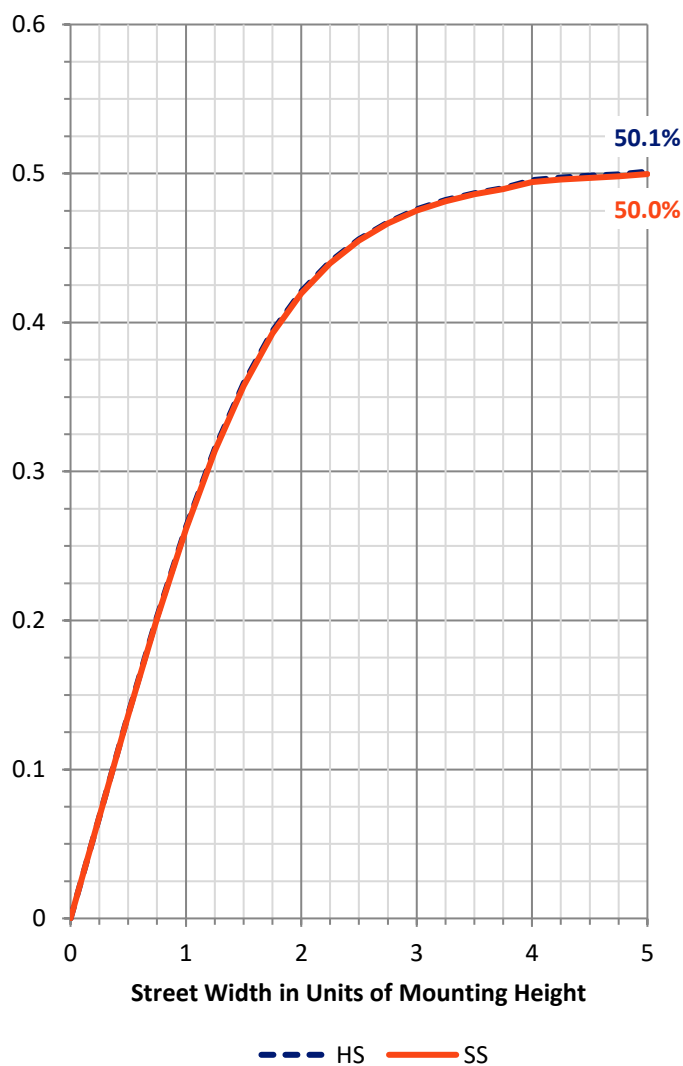
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7323.5	0.0	7323.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7323.5	0.0	7323.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14647.0	0.0	14647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	0.7
10°-20°	335.5	2.3
20°-30°	697.1	4.8
30°-40°	1287.4	8.8
40°-50°	2261.8	15.4
50°-60°	3262.0	22.3
60°-70°	3992.3	27.3
70°-80°	2540.4	17.3
80°-90°	171.9	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°	14647.0	100.0
0°-180°	14647.0	100.0

Coefficient of Utilization



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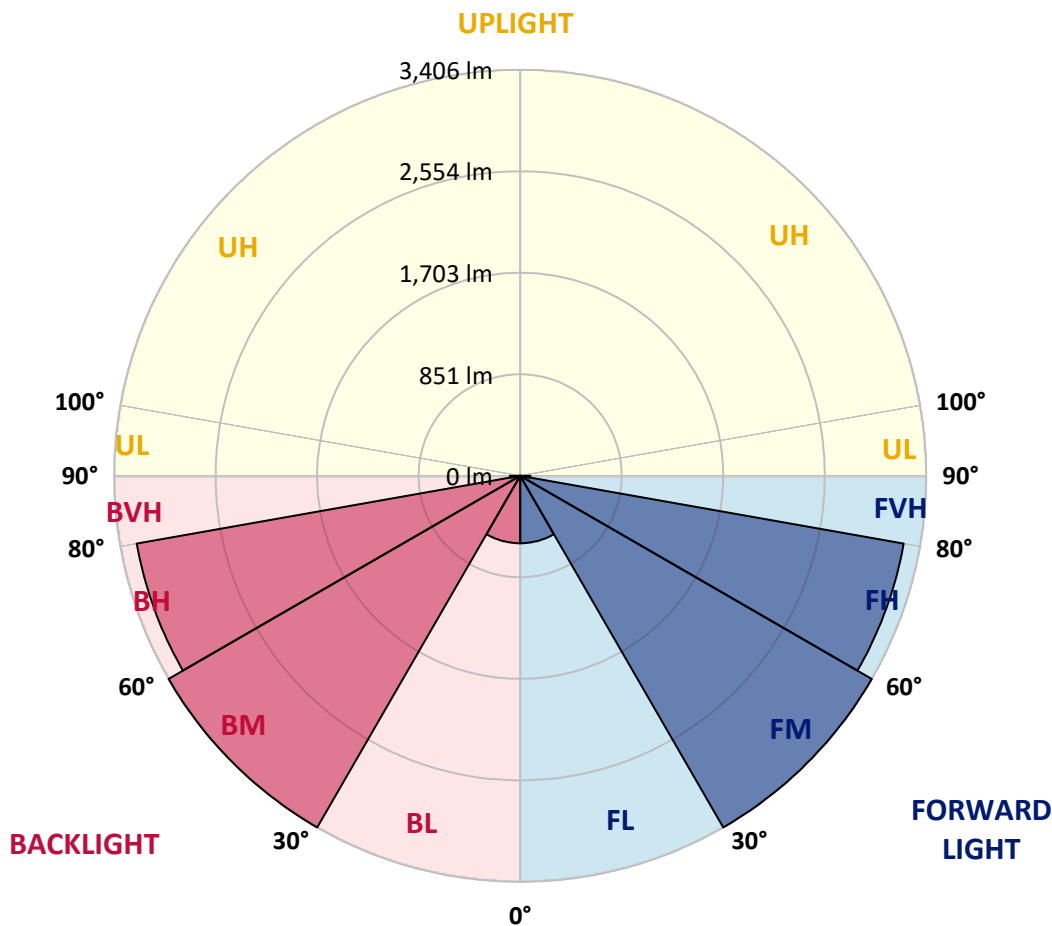
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	565.6	3.9			
FM	(30°-60°)	3405.6	23.3			
FH	(60°-80°)	3266.4	22.3			G2/5000
FVH	(80°-90°)	85.9	0.6			G1/100
BL	(0°-30°)	565.6	3.9	B2/1000		
BM	(30°-60°)	3405.6	23.3	B3/5000		
BH	(60°-80°)	3266.4	22.3	B4/5000		G2/5000
BVH	(80°-90°)	85.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0	1021.0
2.5°	1034.6	1034.6	1031.9	1031.9	1026.5	1023.8	1021.0	1021.0	1018.3	1018.3	1015.6
5°	1040.1	1040.1	1040.1	1037.4	1034.6	1031.9	1026.5	1021.0	1018.3	1015.6	1012.9
7.5°	1042.8	1042.8	1040.1	1040.1	1037.4	1034.6	1026.5	1018.3	1015.6	1012.9	1012.9
10°	1064.6	1061.9	1059.2	1053.7	1053.7	1053.7	1042.8	1034.6	1031.9	1031.9	1031.9
12.5°	1116.3	1113.6	1108.2	1100.0	1100.0	1102.7	1086.4	1075.5	1075.5	1072.8	1072.8
15°	1192.6	1189.8	1184.4	1170.8	1168.1	1173.5	1149.0	1138.1	1138.1	1138.1	1135.4
17.5°	1277.0	1271.5	1263.4	1252.5	1252.5	1252.5	1228.0	1214.3	1206.2	1206.2	1203.5
20°	1347.8	1345.0	1345.0	1342.3	1350.5	1350.5	1317.8	1296.0	1277.0	1266.1	1263.4
22.5°	1410.4	1407.7	1413.1	1424.0	1440.3	1445.8	1407.7	1375.0	1345.0	1323.3	1317.8
25°	1494.8	1492.1	1489.3	1505.7	1532.9	1541.1	1500.2	1459.4	1429.4	1418.6	1413.1
27.5°	1584.6	1587.4	1590.1	1606.4	1628.2	1641.8	1601.0	1562.9	1538.4	1522.0	1516.6
30°	1685.4	1690.8	1699.0	1723.5	1739.8	1745.3	1709.9	1682.7	1660.9	1647.3	1639.1
32.5°	1813.4	1824.2	1835.1	1856.9	1865.1	1859.6	1843.3	1824.2	1807.9	1788.9	1786.1
35°	2003.9	2014.8	2012.1	2020.3	2023.0	2017.6	2009.4	1998.5	1990.3	1965.8	1963.1
37.5°	2243.6	2254.4	2238.1	2229.9	2210.9	2213.6	2210.9	2219.0	2221.8	2197.3	2194.5
40°	2485.9	2496.8	2475.0	2453.2	2434.1	2426.0	2439.6	2466.8	2466.8	2450.5	2450.5
42.5°	2744.5	2752.7	2717.3	2690.1	2665.6	2660.1	2668.3	2701.0	2709.1	2706.4	2706.4
45°	3003.2	2997.8	2951.5	2924.2	2902.5	2888.8	2891.6	2916.1	2932.4	2940.6	2940.6
47.5°	3202.0	3193.8	3155.7	3133.9	3120.3	3101.2	3101.2	3114.8	3123.0	3125.7	3125.7
50°	3359.9	3351.7	3313.6	3310.9	3310.9	3302.7	3294.5	3291.8	3286.4	3289.1	3289.1
52.5°	3496.0	3485.1	3457.9	3463.3	3487.9	3493.3	3482.4	3460.6	3438.8	3430.7	3433.4
55°	3643.0	3626.7	3604.9	3621.3	3670.3	3692.1	3675.7	3632.2	3594.0	3569.5	3569.5
57.5°	3760.1	3741.1	3741.1	3787.4	3877.2	3920.8	3885.4	3803.7	3738.3	3711.1	3713.8
60°	3678.4	3662.1	3727.5	3931.7	4100.5	4174.0	4114.1	3969.8	3863.6	3830.9	3836.4
62.5°	3517.8	3506.9	3588.6	3904.4	4302.0	4454.4	4364.6	4157.7	3999.7	3961.6	3961.6
65°	3280.9	3278.2	3392.6	3781.9	4348.2	4724.0	4647.7	4361.9	4157.7	4105.9	4116.8
67.5°	3035.9	3035.9	3139.3	3572.3	4293.8	4838.3	4898.2	4547.0	4233.9	4105.9	4108.6
70°	2603.0	2649.2	2924.2	3378.9	4095.0	4756.7	5001.7	4416.3	3901.7	3675.7	3667.6
72.5°	1715.3	1775.2	2322.5	3041.3	3899.0	4459.9	4514.3	3879.9	3240.1	2976.0	2962.4
75°	1034.6	1086.4	1505.7	2374.2	3428.0	3591.3	3351.7	3041.3	2420.5	2213.6	2213.6
77.5°	304.9	340.3	694.3	1505.7	2371.5	2360.6	2066.6	1791.6	1432.2	1217.1	1233.4
80°	179.7	185.1	226.0	686.1	982.9	1034.6	797.8	498.3	498.3	370.3	359.4
82.5°	138.9	138.9	144.3	171.5	236.9	264.1	201.5	171.5	196.0	166.1	157.9
85°	98.0	98.0	98.0	100.7	103.5	106.2	111.6	114.4	125.2	103.5	98.0
87.5°	30.0	32.7	35.4	40.8	49.0	51.7	54.5	49.0	49.0	46.3	43.6
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)