

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: P836899

Luminaire Tested: **ARCH3-90-730-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836899
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: ARCH3-90-730-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

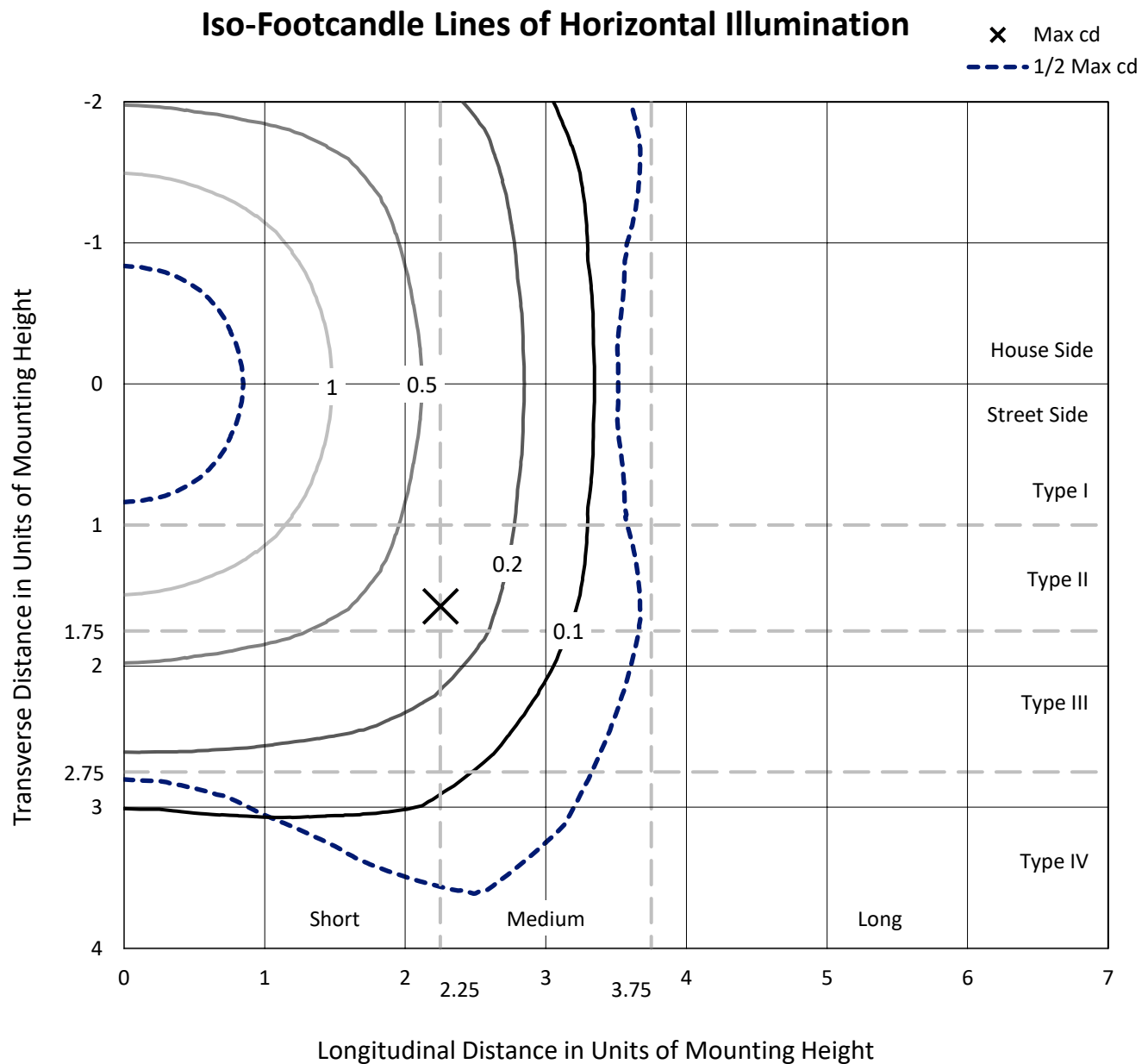
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14380 lumens
Efficiency: N/A
Efficacy: 154.5 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): 93.1
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



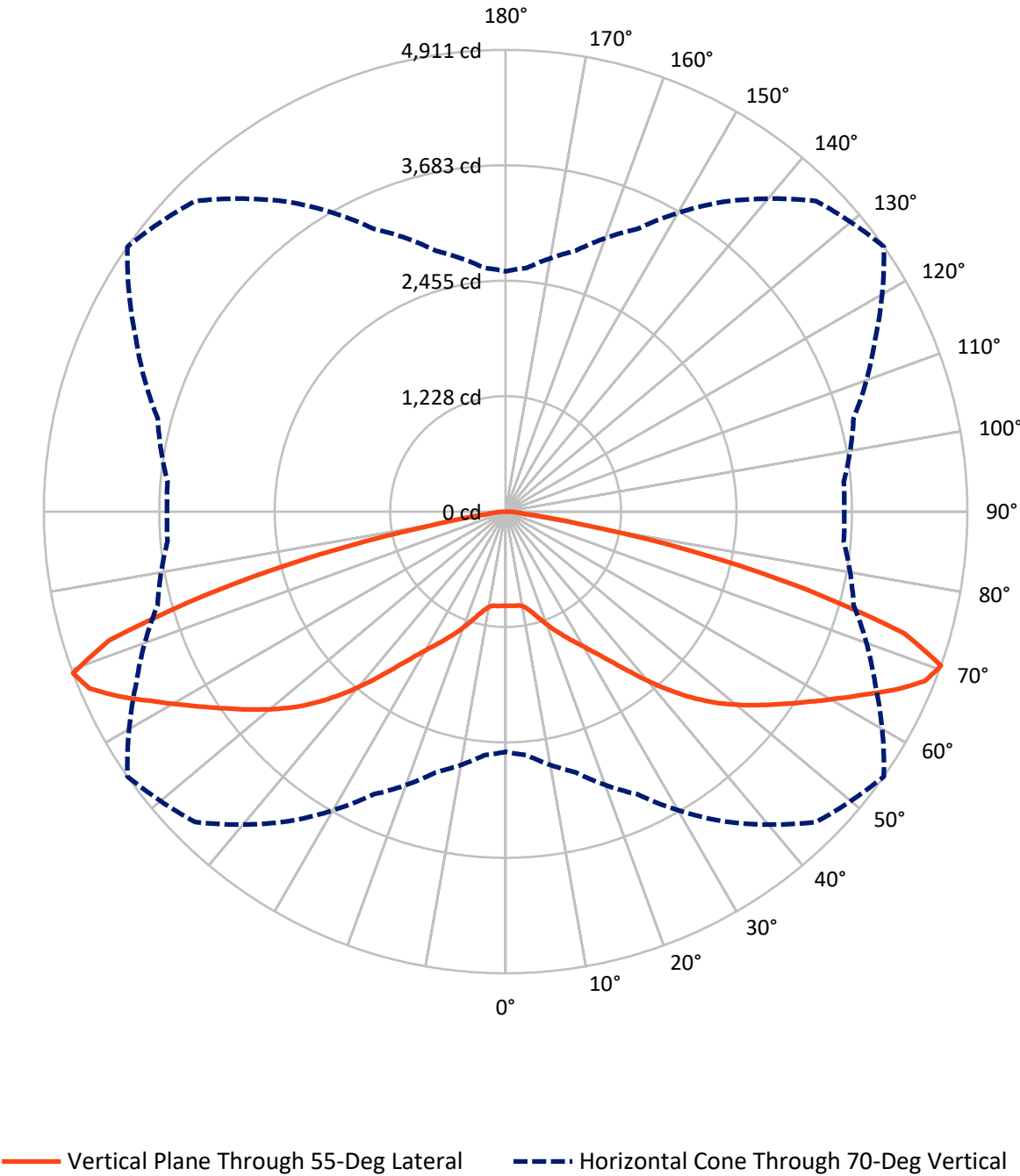
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Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7190.0	0.0	7190.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7190.0	0.0	7190.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14380.0	0.0	14380.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	0.7
10°-20°	329.4	2.3
20°-30°	684.4	4.8
30°-40°	1264.0	8.8
40°-50°	2220.5	15.4
50°-60°	3202.5	22.3
60°-70°	3919.6	27.3
70°-80°	2494.1	17.3
80°-90°	168.8	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°	14380.0	100.0
0°-180°	14380.0	100.0

Coefficient of Utilization



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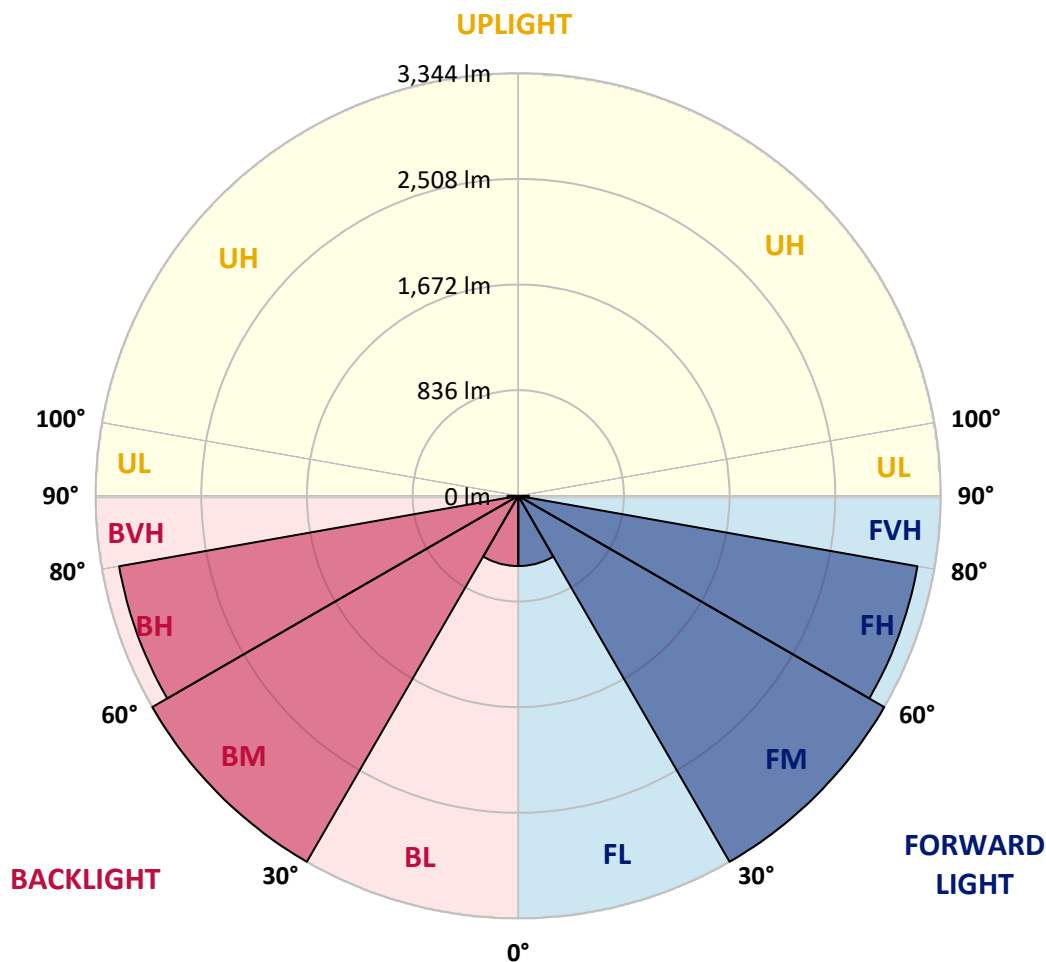
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	555.2	3.9			
FM	(30°-60°)	3343.5	23.3			
FH	(60°-80°)	3206.8	22.3			G2/5000
FVH	(80°-90°)	84.4	0.6			G1/100
BL	(0°-30°)	555.2	3.9	B2/1000		
BM	(30°-60°)	3343.5	23.3	B3/5000		
BH	(60°-80°)	3206.8	22.3	B4/5000		G2/5000
BVH	(80°-90°)	84.4	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°	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4	1002.4
2.5°	1015.8	1015.8	1013.1	1013.1	1007.8	1005.1	1002.4	1002.4	999.7	999.7	997.1
5°	1021.1	1021.1	1021.1	1018.5	1015.8	1013.1	1007.8	1002.4	999.7	997.1	994.4
7.5°	1023.8	1023.8	1021.1	1021.1	1018.5	1015.8	1007.8	999.7	997.1	994.4	994.4
10°	1045.2	1042.5	1039.8	1034.5	1034.5	1034.5	1023.8	1015.8	1013.1	1013.1	1013.1
12.5°	1096.0	1093.3	1088.0	1079.9	1079.9	1082.6	1066.6	1055.9	1055.9	1053.2	1053.2
15°	1170.8	1168.2	1162.8	1149.4	1146.8	1152.1	1128.1	1117.4	1117.4	1117.4	1114.7
17.5°	1253.7	1248.3	1240.3	1229.6	1229.6	1229.6	1205.6	1192.2	1184.2	1184.2	1181.5
20°	1323.2	1320.5	1320.5	1317.9	1325.9	1325.9	1293.8	1272.4	1253.7	1243.0	1240.3
22.5°	1384.7	1382.0	1387.4	1398.0	1414.1	1419.4	1382.0	1349.9	1320.5	1299.1	1293.8
25°	1467.5	1464.9	1462.2	1478.2	1505.0	1513.0	1472.9	1432.8	1403.4	1392.7	1387.4
27.5°	1555.8	1558.4	1561.1	1577.1	1598.5	1611.9	1571.8	1534.4	1510.3	1494.3	1488.9
30°	1654.7	1660.0	1668.0	1692.1	1708.1	1713.5	1678.7	1652.0	1630.6	1617.2	1609.2
32.5°	1780.3	1791.0	1801.7	1823.1	1831.1	1825.7	1809.7	1791.0	1775.0	1756.2	1753.6
35°	1967.4	1978.1	1975.4	1983.5	1986.1	1980.8	1972.8	1962.1	1954.1	1930.0	1927.3
37.5°	2202.7	2213.3	2197.3	2189.3	2170.6	2173.3	2170.6	2178.6	2181.3	2157.2	2154.5
40°	2440.6	2451.3	2429.9	2408.5	2389.8	2381.8	2395.1	2421.9	2421.9	2405.8	2405.8
42.5°	2694.5	2702.5	2667.8	2641.0	2617.0	2611.6	2619.7	2651.7	2659.8	2657.1	2657.1
45°	2948.5	2943.1	2897.7	2870.9	2849.6	2836.2	2838.9	2862.9	2879.0	2887.0	2887.0
47.5°	3143.6	3135.6	3098.2	3076.8	3063.4	3044.7	3044.7	3058.1	3066.1	3068.7	3068.7
50°	3298.6	3290.6	3253.2	3250.5	3250.5	3242.5	3234.5	3231.8	3226.5	3229.1	3229.1
52.5°	3432.3	3421.6	3394.9	3400.2	3424.3	3429.6	3418.9	3397.5	3376.2	3368.1	3370.8
55°	3576.6	3560.6	3539.2	3555.3	3603.4	3624.8	3608.7	3565.9	3528.5	3504.5	3504.5
57.5°	3691.6	3672.9	3672.9	3718.3	3806.5	3849.3	3814.5	3734.4	3670.2	3643.5	3646.1
60°	3611.4	3595.4	3659.5	3860.0	4025.7	4097.9	4039.1	3897.4	3793.2	3761.1	3766.4
62.5°	3453.7	3443.0	3523.2	3833.3	4223.5	4373.2	4285.0	4081.9	3926.8	3889.4	3889.4
65°	3221.1	3218.4	3330.7	3713.0	4269.0	4637.9	4563.0	4282.3	4081.9	4031.1	4041.8
67.5°	2980.5	2980.5	3082.1	3507.1	4215.5	4750.1	4809.0	4464.1	4156.7	4031.1	4033.7
70°	2555.5	2601.0	2870.9	3317.3	4020.4	4669.9	4910.5	4335.8	3830.6	3608.7	3600.7
72.5°	1684.1	1742.9	2280.2	2985.9	3827.9	4378.6	4432.0	3809.2	3181.0	2921.7	2908.4
75°	1015.8	1066.6	1478.2	2331.0	3365.5	3525.9	3290.6	2985.9	2376.4	2173.3	2173.3
77.5°	299.4	334.1	681.6	1478.2	2328.3	2317.6	2028.9	1758.9	1406.1	1194.9	1210.9
80°	176.4	181.8	221.9	673.6	965.0	1015.8	783.2	489.2	489.2	363.5	352.9
82.5°	136.3	136.3	141.7	168.4	232.6	259.3	197.8	168.4	192.5	163.1	155.0
85°	96.2	96.2	96.2	98.9	101.6	104.3	109.6	112.3	123.0	101.6	96.2
87.5°	29.4	32.1	34.8	40.1	48.1	50.8	53.5	48.1	48.1	45.4	42.8
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)