

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: P836674

Luminaire Tested: **ARCH3-60-727-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836674
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: ARCH3-60-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9886 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

Input Watts (W): 63.2
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

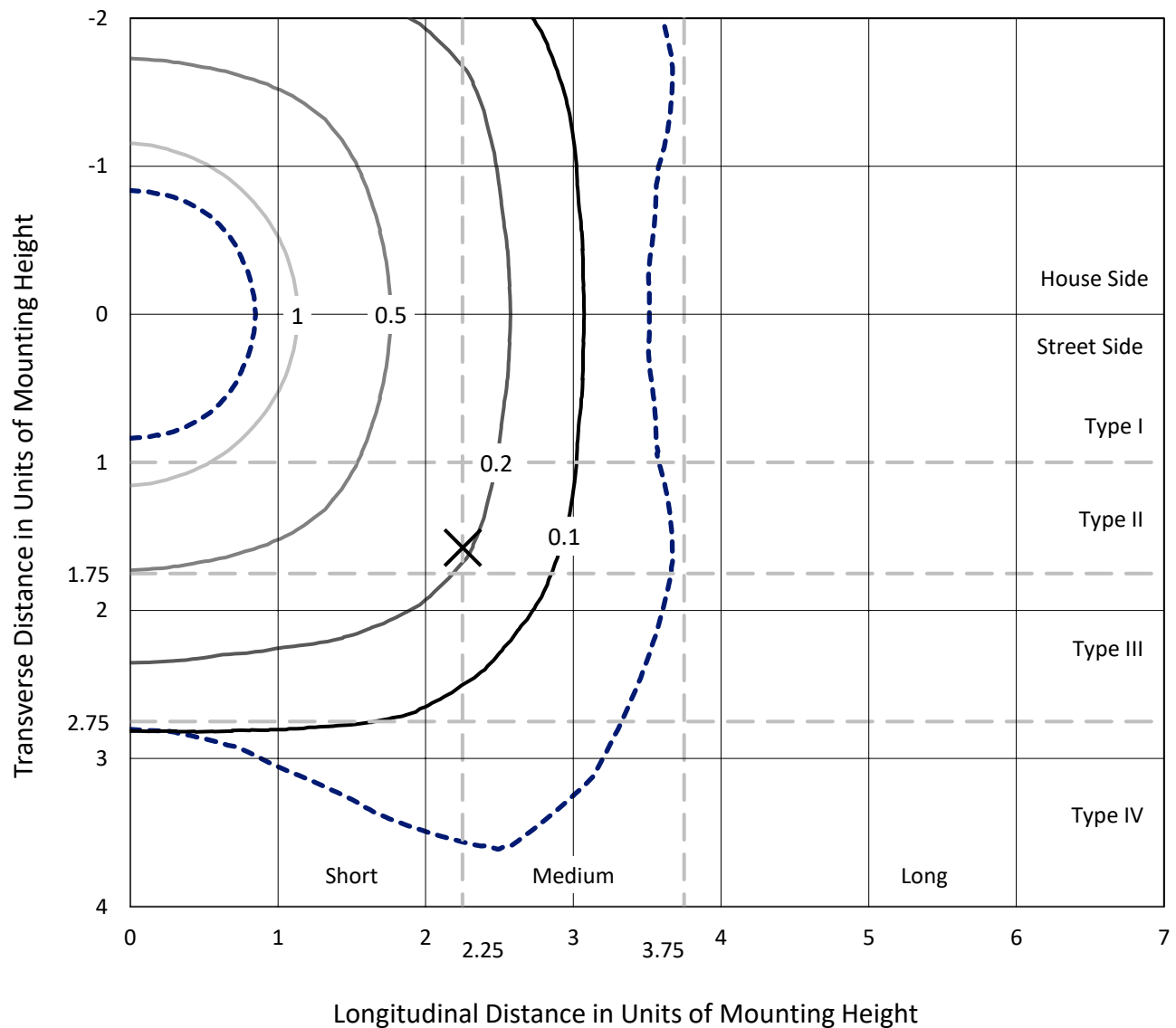


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Iso-Footcandle Lines of Horizontal Illumination

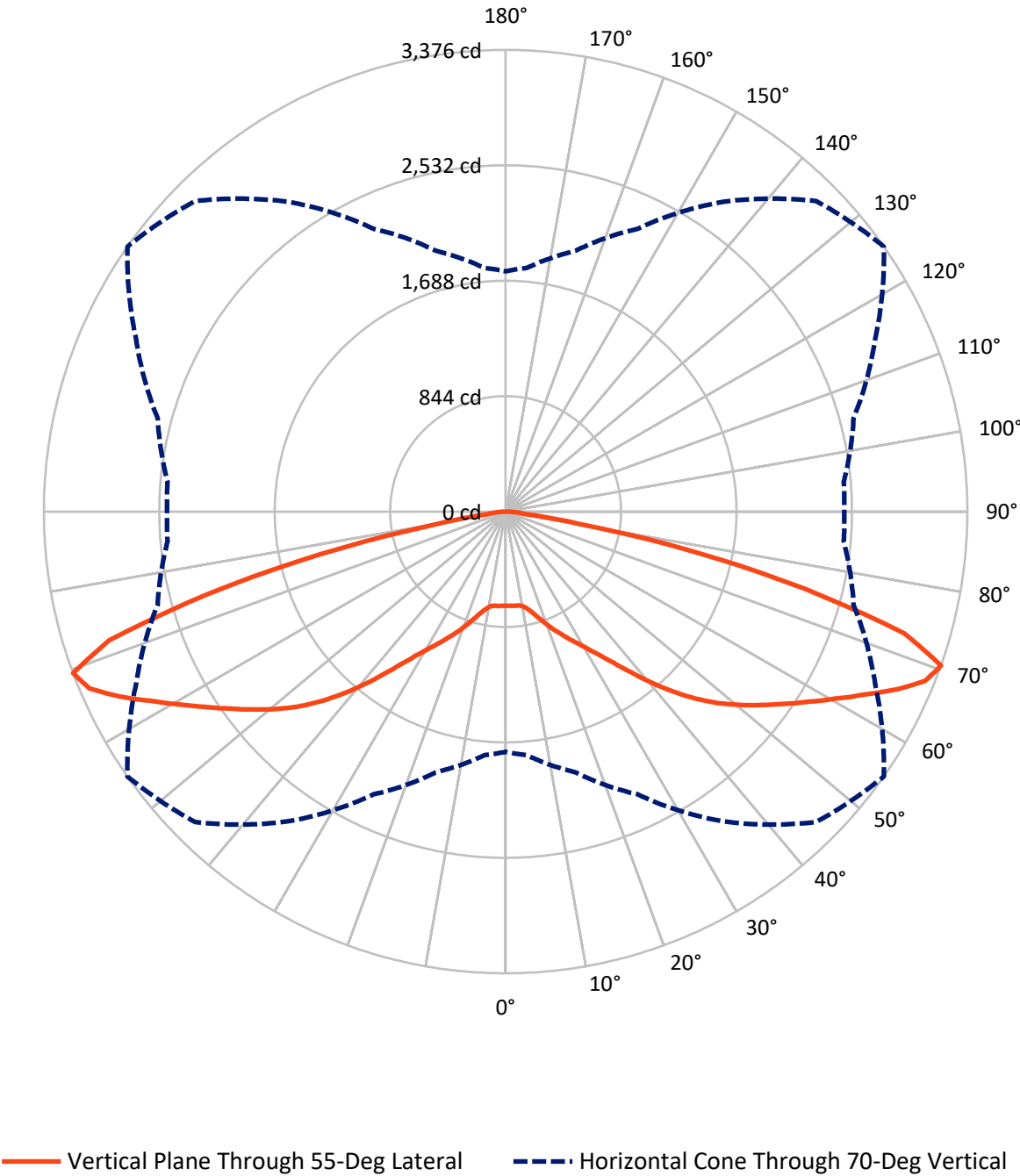
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type V - Medium - N/A

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Luminous Intensity Polar Plot



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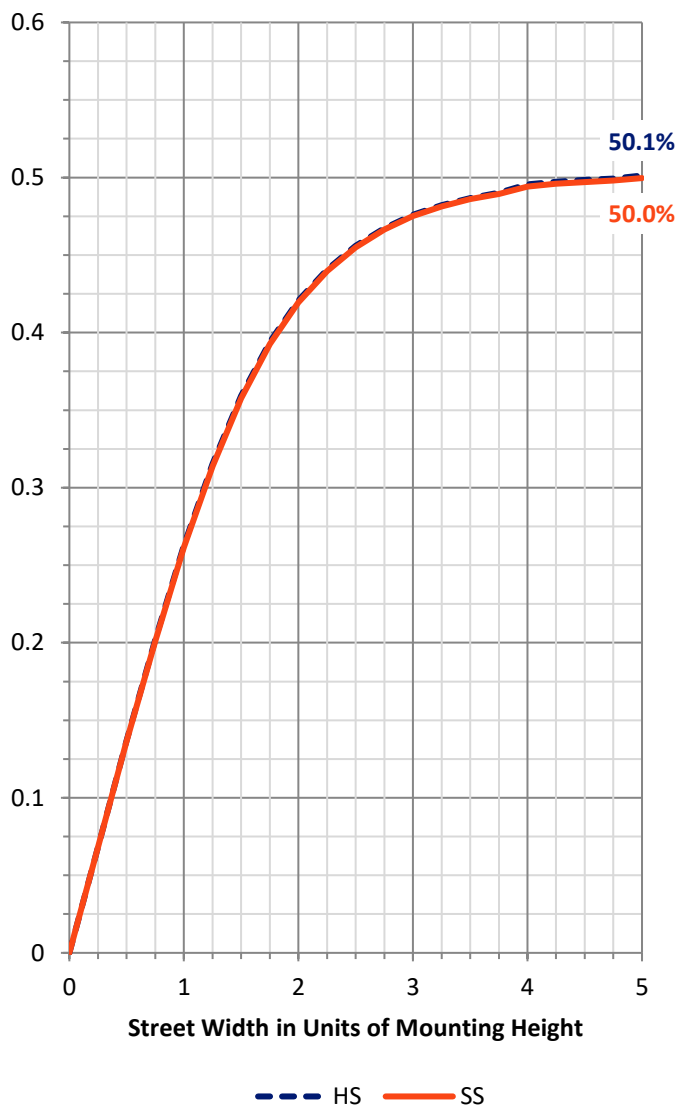
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4943.0	0.0	4943.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4943.0	0.0	4943.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9886.0	0.0	9886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	0.7
10°-20°	226.4	2.3
20°-30°	470.5	4.8
30°-40°	869.0	8.8
40°-50°	1526.6	15.4
50°-60°	2201.7	22.3
60°-70°	2694.6	27.3
70°-80°	1714.7	17.3
80°-90°	116.0	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°	9886.0	100.0
0°-180°	9886.0	100.0

Coefficient of Utilization



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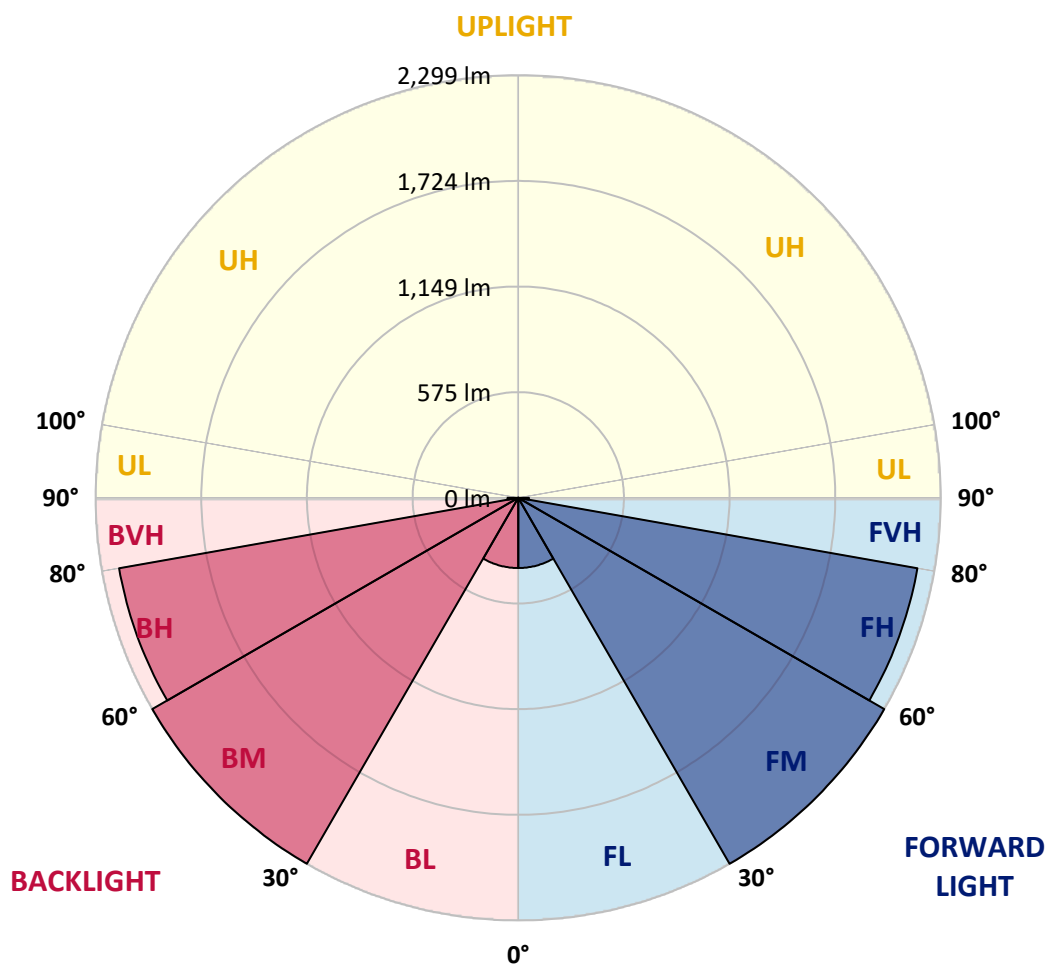
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	381.7	3.9			
FM	(30°-60°)	2298.6	23.3			
FH	(60°-80°)	2204.6	22.3			G2/5000
FVH	(80°-90°)	58.0	0.6			G1/100
BL	(0°-30°)	381.7	3.9	B1/500		
BM	(30°-60°)	2298.6	23.3	B2/2500		
BH	(60°-80°)	2204.6	22.3	B3/2500		G2/5000
BVH	(80°-90°)	58.0	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-G2

Type V Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1
2.5°	698.3	698.3	696.5	696.5	692.8	691.0	689.1	689.1	687.3	687.3	685.5
5°	702.0	702.0	702.0	700.2	698.3	696.5	692.8	689.1	687.3	685.5	683.6
7.5°	703.8	703.8	702.0	702.0	700.2	698.3	692.8	687.3	685.5	683.6	683.6
10°	718.6	716.7	714.9	711.2	711.2	711.2	703.8	698.3	696.5	696.5	696.5
12.5°	753.5	751.6	748.0	742.4	742.4	744.3	733.3	725.9	725.9	724.1	724.1
15°	804.9	803.1	799.4	790.2	788.4	792.1	775.5	768.2	768.2	768.2	766.3
17.5°	861.9	858.2	852.7	845.4	845.4	845.4	828.8	819.6	814.1	814.1	812.3
20°	909.7	907.8	907.8	906.0	911.5	911.5	889.5	874.8	861.9	854.5	852.7
22.5°	951.9	950.1	953.8	961.1	972.2	975.8	950.1	928.1	907.8	893.1	889.5
25°	1008.9	1007.1	1005.2	1016.3	1034.6	1040.2	1012.6	985.0	964.8	957.5	953.8
27.5°	1069.6	1071.4	1073.2	1084.3	1099.0	1108.1	1080.6	1054.9	1038.3	1027.3	1023.6
30°	1137.6	1141.2	1146.7	1163.3	1174.3	1178.0	1154.1	1135.7	1121.0	1111.8	1106.3
32.5°	1223.9	1231.3	1238.6	1253.3	1258.8	1255.2	1244.1	1231.3	1220.3	1207.4	1205.5
35°	1352.6	1359.9	1358.1	1363.6	1365.4	1361.8	1356.2	1348.9	1343.4	1326.8	1325.0
37.5°	1514.3	1521.6	1510.6	1505.1	1492.2	1494.1	1492.2	1497.7	1499.6	1483.0	1481.2
40°	1677.8	1685.2	1670.5	1655.8	1642.9	1637.4	1646.6	1665.0	1665.0	1654.0	1654.0
42.5°	1852.4	1857.9	1834.1	1815.7	1799.1	1795.5	1801.0	1823.0	1828.5	1826.7	1826.7
45°	2027.0	2023.3	1992.1	1973.7	1959.0	1949.8	1951.7	1968.2	1979.2	1984.7	1984.7
47.5°	2161.2	2155.7	2129.9	2115.2	2106.0	2093.2	2093.2	2102.4	2107.9	2109.7	2109.7
50°	2267.8	2262.2	2236.5	2234.7	2234.7	2229.2	2223.6	2221.8	2218.1	2220.0	2220.0
52.5°	2359.6	2352.3	2333.9	2337.6	2354.1	2357.8	2350.5	2335.8	2321.0	2315.5	2317.4
55°	2458.9	2447.9	2433.1	2444.2	2477.3	2492.0	2480.9	2451.5	2425.8	2409.3	2409.3
57.5°	2537.9	2525.0	2525.0	2556.3	2616.9	2646.3	2622.4	2567.3	2523.2	2504.8	2506.7
60°	2482.8	2471.7	2515.8	2653.7	2767.6	2817.2	2776.8	2679.4	2607.7	2585.7	2589.4
62.5°	2374.3	2367.0	2422.1	2635.3	2903.6	3006.5	2945.9	2806.2	2699.6	2673.9	2673.9
65°	2214.5	2212.6	2289.8	2552.6	2934.8	3188.5	3137.0	2944.0	2806.2	2771.3	2778.6
67.5°	2049.1	2049.1	2118.9	2411.1	2898.1	3265.6	3306.1	3069.0	2857.7	2771.3	2773.1
70°	1756.9	1788.1	1973.7	2280.6	2763.9	3210.5	3375.9	2980.8	2633.5	2480.9	2475.4
72.5°	1157.8	1198.2	1567.6	2052.7	2631.6	3010.2	3047.0	2618.8	2186.9	2008.6	1999.4
75°	698.3	733.3	1016.3	1602.5	2313.7	2424.0	2262.2	2052.7	1633.7	1494.1	1494.1
77.5°	205.8	229.7	468.6	1016.3	1600.7	1593.3	1394.8	1209.2	966.6	821.5	832.5
80°	121.3	125.0	152.5	463.1	663.4	698.3	538.5	336.3	336.3	249.9	242.6
82.5°	93.7	93.7	97.4	115.8	159.9	178.3	136.0	115.8	132.3	112.1	106.6
85°	66.2	66.2	66.2	68.0	69.8	71.7	75.3	77.2	84.5	69.8	66.2
87.5°	20.2	22.1	23.9	27.6	33.1	34.9	36.8	33.1	33.1	31.2	29.4
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)