

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: P836701

Luminaire Tested: **ARCH3-60-740-U-5WQ**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836701
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: ARCH3-60-740-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10757 lumens
Efficiency: N/A
Efficacy: 170.2 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

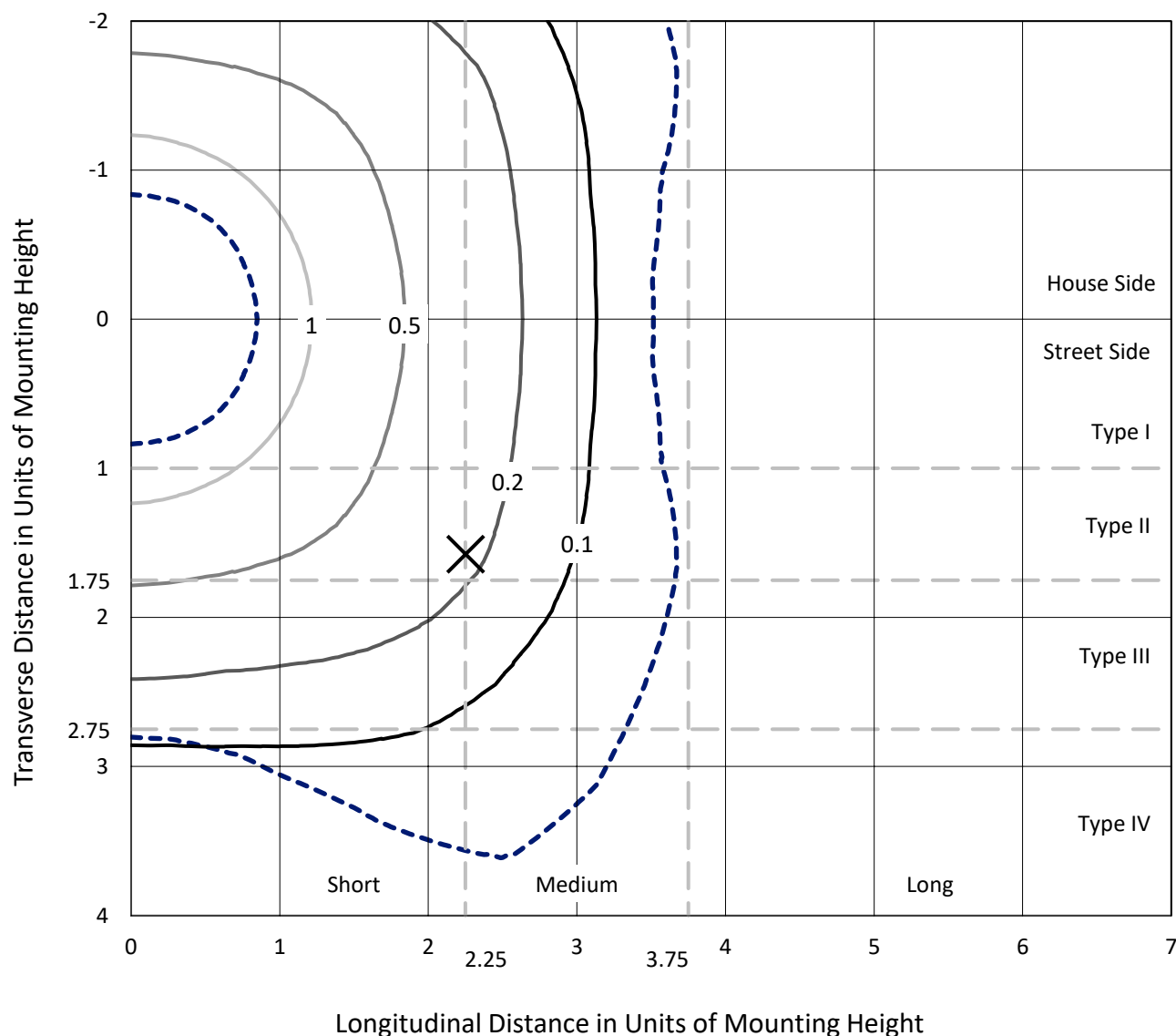
Input Watts (W): 63.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

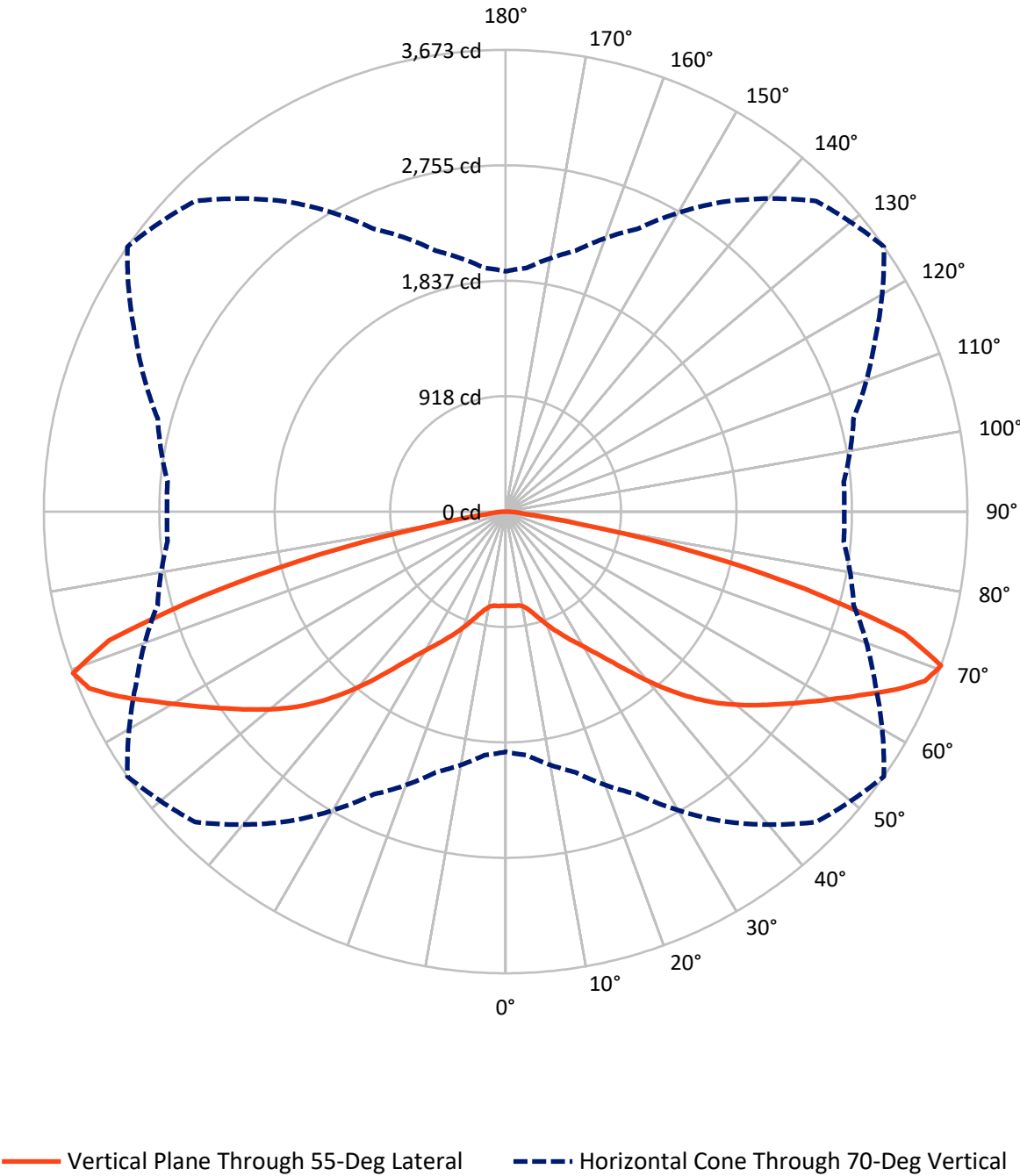
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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	5378.5	0.0	5378.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5378.5	0.0	5378.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10757.0	0.0	10757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	0.7
10°-20°	246.4	2.3
20°-30°	511.9	4.8
30°-40°	945.5	8.8
40°-50°	1661.1	15.4
50°-60°	2395.7	22.3
60°-70°	2932.0	27.3
70°-80°	1865.7	17.3
80°-90°	126.3	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°	10757.0	100.0
0°-180°	10757.0	100.0

Coefficient of Utilization



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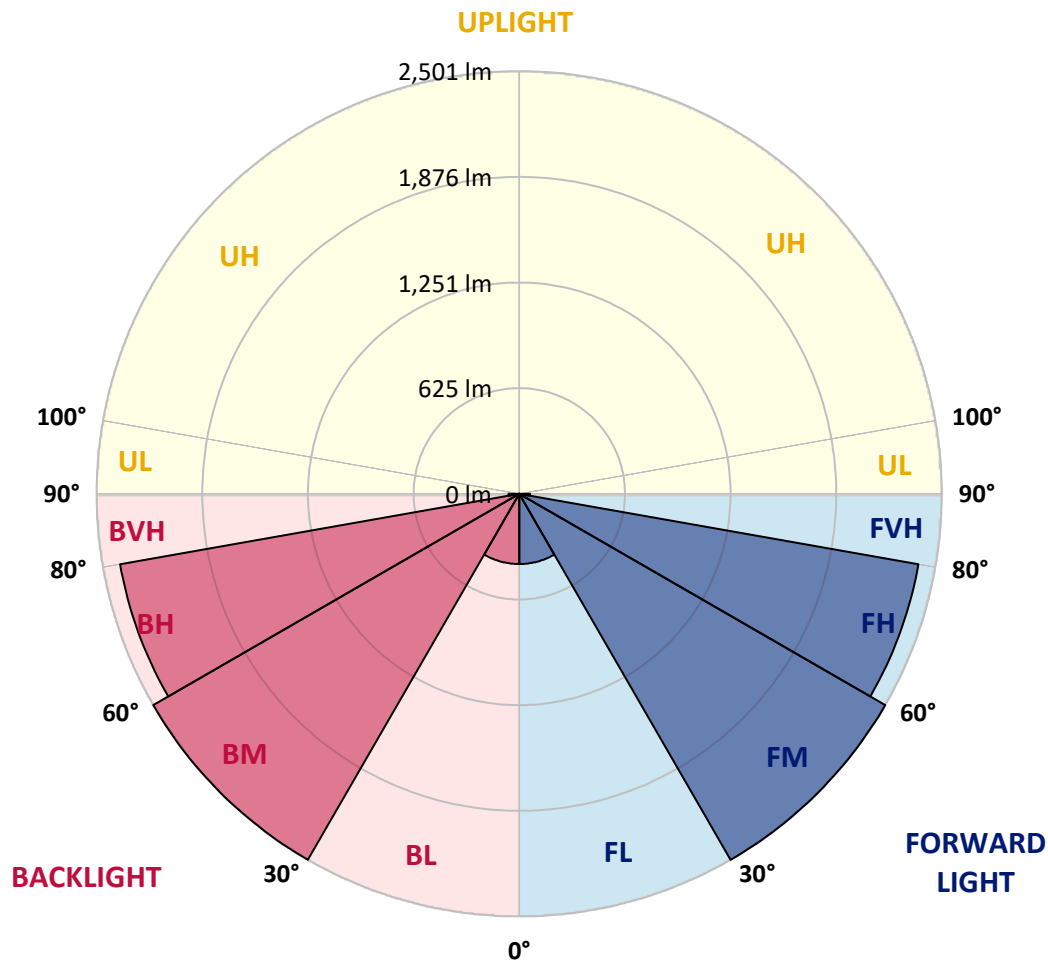
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	415.4	3.9			
FM	(30°-60°)	2501.1	23.3			
FH	(60°-80°)	2398.9	22.3			G2/5000
FVH	(80°-90°)	63.1	0.6			G1/100
BL	(0°-30°)	415.4	3.9	B1/500		
BM	(30°-60°)	2501.1	23.3	B3/5000		
BH	(60°-80°)	2398.9	22.3	B3/2500		G2/5000
BVH	(80°-90°)	63.1	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°	749.9	749.9	749.9	749.9	749.9	749.9	749.9	749.9	749.9	749.9	749.9
2.5°	759.9	759.9	757.9	757.9	753.9	751.9	749.9	749.9	747.9	747.9	745.9
5°	763.9	763.9	763.9	761.9	759.9	757.9	753.9	749.9	747.9	745.9	743.9
7.5°	765.9	765.9	763.9	763.9	761.9	759.9	753.9	747.9	745.9	743.9	743.9
10°	781.9	779.9	777.9	773.9	773.9	773.9	765.9	759.9	757.9	757.9	757.9
12.5°	819.9	817.9	813.9	807.9	807.9	809.9	797.9	789.9	789.9	787.9	787.9
15°	875.8	873.8	869.8	859.8	857.8	861.8	843.8	835.8	835.8	835.8	833.8
17.5°	937.8	933.8	927.8	919.8	919.8	919.8	901.8	891.8	885.8	885.8	883.8
20°	989.8	987.8	987.8	985.8	991.8	991.8	967.8	951.8	937.8	929.8	927.8
22.5°	1035.8	1033.8	1037.8	1045.8	1057.8	1061.8	1033.8	1009.8	987.8	971.8	967.8
25°	1097.8	1095.8	1093.8	1105.8	1125.8	1131.8	1101.8	1071.8	1049.8	1041.8	1037.8
27.5°	1163.8	1165.8	1167.8	1179.8	1195.8	1205.8	1175.8	1147.8	1129.8	1117.8	1113.8
30°	1237.8	1241.8	1247.8	1265.8	1277.8	1281.8	1255.8	1235.8	1219.8	1209.8	1203.8
32.5°	1331.8	1339.8	1347.8	1363.8	1369.8	1365.8	1353.8	1339.8	1327.8	1313.8	1311.8
35°	1471.7	1479.7	1477.7	1483.7	1485.7	1481.7	1475.7	1467.7	1461.7	1443.7	1441.7
37.5°	1647.7	1655.7	1643.7	1637.7	1623.7	1625.7	1623.7	1629.7	1631.7	1613.7	1611.7
40°	1825.7	1833.7	1817.7	1801.7	1787.7	1781.7	1791.7	1811.7	1811.7	1799.7	1799.7
42.5°	2015.6	2021.6	1995.6	1975.6	1957.6	1953.6	1959.6	1983.6	1989.6	1987.6	1987.6
45°	2205.6	2201.6	2167.6	2147.6	2131.6	2121.6	2123.6	2141.6	2153.6	2159.6	2159.6
47.5°	2351.6	2345.6	2317.6	2301.6	2291.6	2277.6	2277.6	2287.6	2293.6	2295.6	2295.6
50°	2467.6	2461.6	2433.6	2431.6	2431.6	2425.6	2419.6	2417.6	2413.6	2415.6	2415.6
52.5°	2567.5	2559.5	2539.5	2543.5	2561.5	2565.5	2557.5	2541.5	2525.5	2519.5	2521.5
55°	2675.5	2663.5	2647.5	2659.5	2695.5	2711.5	2699.5	2667.5	2639.5	2621.5	2621.5
57.5°	2761.5	2747.5	2747.5	2781.5	2847.5	2879.5	2853.5	2793.5	2745.5	2725.5	2727.5
60°	2701.5	2689.5	2737.5	2887.5	3011.5	3065.4	3021.5	2915.5	2837.5	2813.5	2817.5
62.5°	2583.5	2575.5	2635.5	2867.5	3159.4	3271.4	3205.4	3053.4	2937.5	2909.5	2909.5
65°	2409.6	2407.6	2491.5	2777.5	3193.4	3469.4	3413.4	3203.4	3053.4	3015.5	3023.5
67.5°	2229.6	2229.6	2305.6	2623.5	3153.4	3553.4	3597.3	3339.4	3109.4	3015.5	3017.5
70°	1911.7	1945.6	2147.6	2481.6	3007.5	3493.4	3673.3	3243.4	2865.5	2699.5	2693.5
72.5°	1259.8	1303.8	1705.7	2233.6	2863.5	3275.4	3315.4	2849.5	2379.6	2185.6	2175.6
75°	759.9	797.9	1105.8	1743.7	2517.5	2637.5	2461.6	2233.6	1777.7	1625.7	1625.7
77.5°	224.0	250.0	509.9	1105.8	1741.7	1733.7	1517.7	1315.8	1051.8	893.8	905.8
80°	132.0	136.0	166.0	503.9	721.9	759.9	585.9	365.9	365.9	272.0	264.0
82.5°	102.0	102.0	106.0	126.0	174.0	194.0	148.0	126.0	144.0	122.0	116.0
85°	72.0	72.0	72.0	74.0	76.0	78.0	82.0	84.0	92.0	76.0	72.0
87.5°	22.0	24.0	26.0	30.0	36.0	38.0	40.0	36.0	36.0	34.0	32.0
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)