

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: P960863

Luminaire Tested: **NVN-SB1D-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-735-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10554.4 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

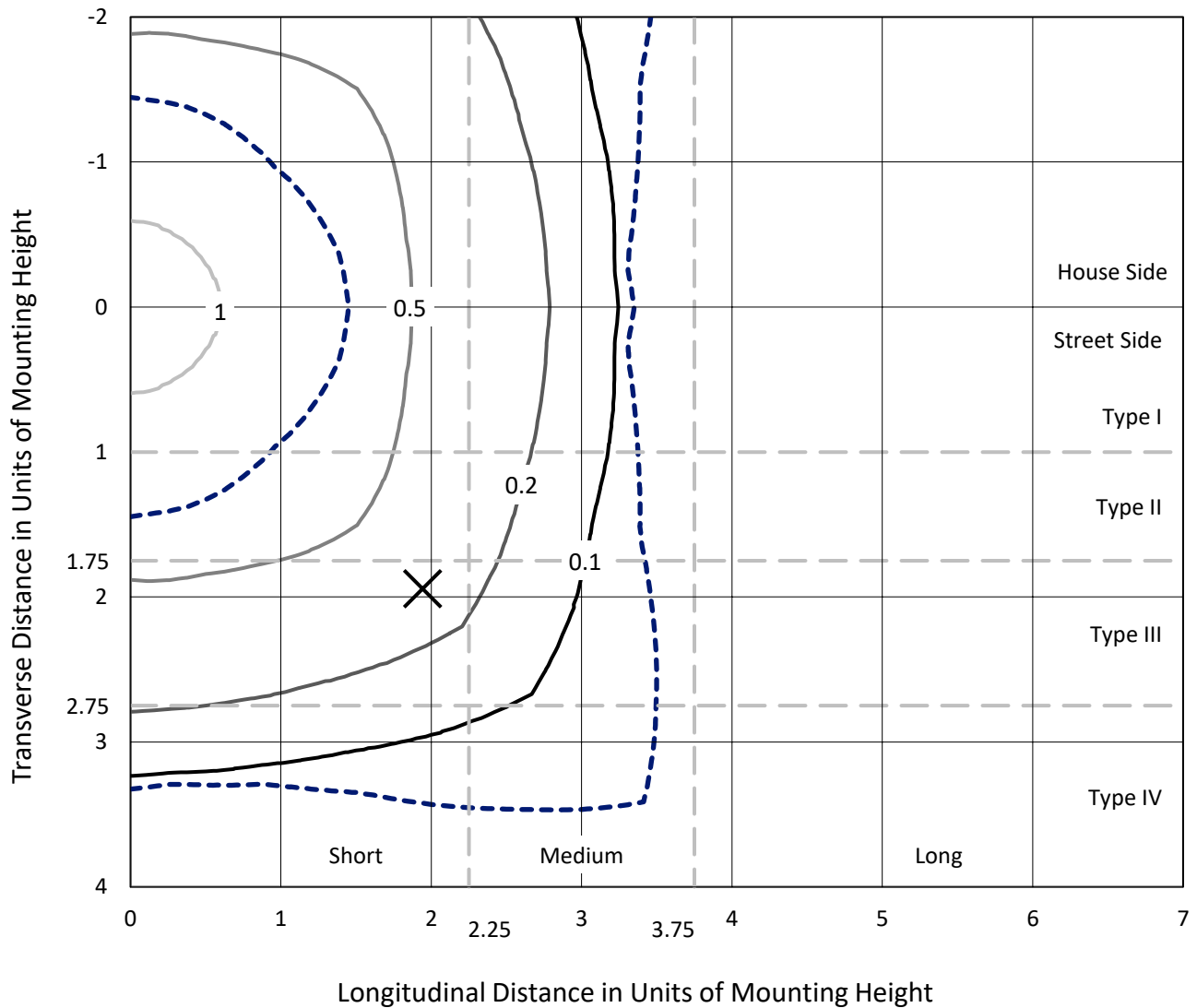
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

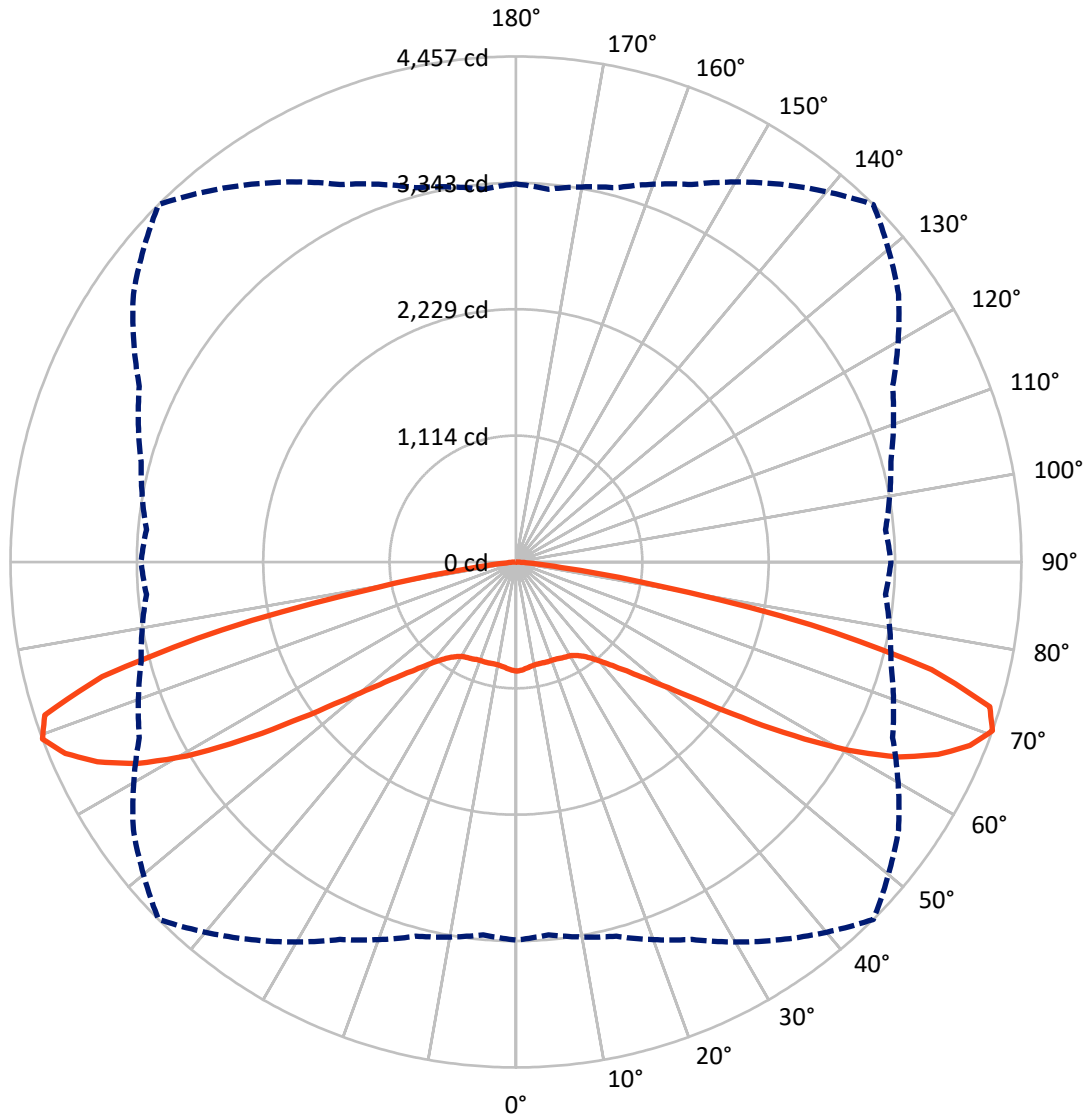
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5277.2 | 0.0 | 5277.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5277.2 | 0.0 | 5277.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10554.4 | 0.0 | 10554.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 89.6 | 0.8 |
| 10°-20° | 263.0 | 2.5 |
| 20°-30° | 437.6 | 4.1 |
| 30°-40° | 661.8 | 6.3 |
| 40°-50° | 1099.8 | 10.4 |
| 50°-60° | 2075.3 | 19.7 |
| 60°-70° | 3504.2 | 33.2 |
| 70°-80° | 2302.6 | 21.8 |
| 80°-90° | 120.6 | 1.1 |
| 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° | 10554.4 | 100.0 |
| 0°-180° | 10554.4 | 100.0 |

Coefficient of Utilization



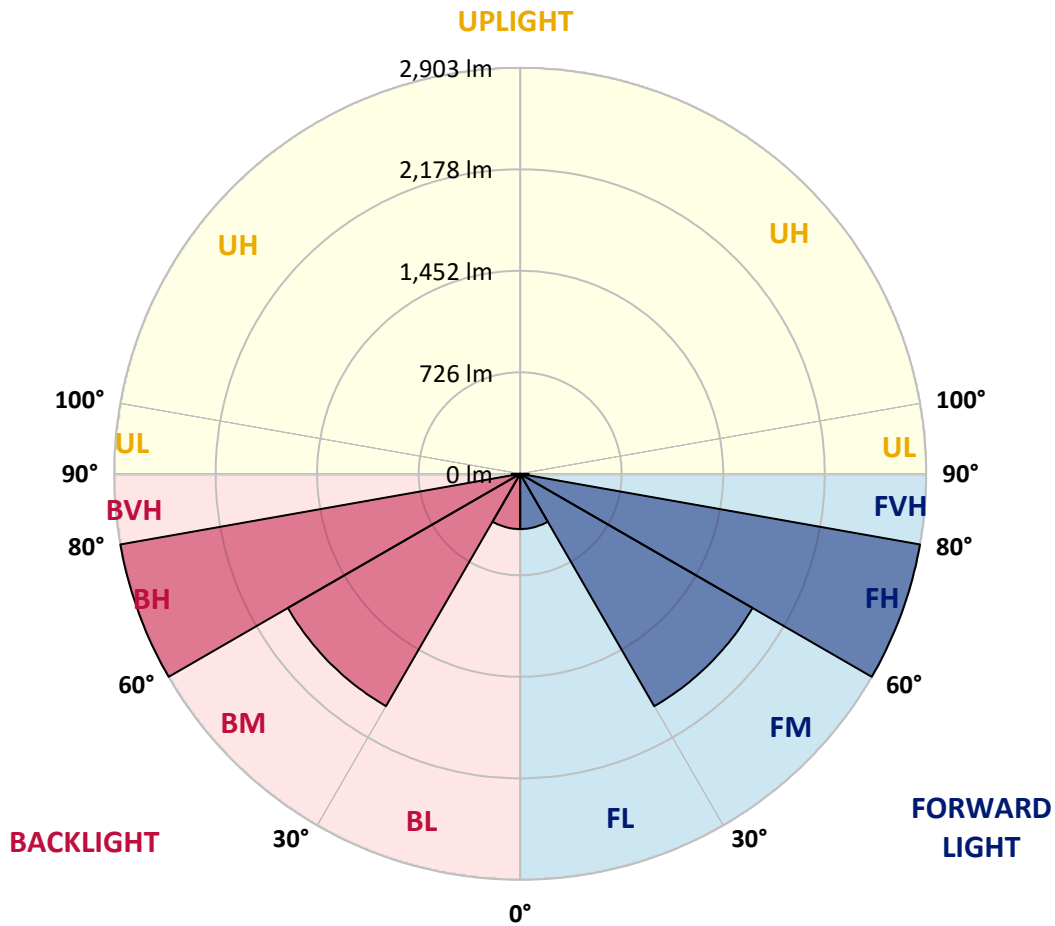
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 395.1 | 3.7 | | | |
| FM (30°-60°) | 1918.4 | 18.2 | | | |
| FH (60°-80°) | 2903.4 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 60.3 | 0.6 | | | G1/100 |
| BL (0°-30°) | 395.1 | 3.7 | B1/500 | | |
| BM (30°-60°) | 1918.4 | 18.2 | B2/2500 | | |
| BH (60°-80°) | 2903.4 | 27.5 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 60.3 | 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 Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 962.8 | 962.8 | 962.8 | 962.8 | 962.8 | 962.8 | 962.8 | 962.8 | 962.8 | 962.8 | 962.8 |
| 2.5° | 956.7 | 959.5 | 958.4 | 956.2 | 956.2 | 954.6 | 956.2 | 957.2 | 958.9 | 960.0 | 959.5 |
| 5° | 944.1 | 946.3 | 945.8 | 944.1 | 944.6 | 943.0 | 944.1 | 945.8 | 946.9 | 947.4 | 947.4 |
| 7.5° | 933.2 | 935.3 | 934.3 | 931.5 | 931.5 | 929.9 | 930.4 | 932.0 | 933.7 | 934.3 | 934.3 |
| 10° | 930.4 | 932.6 | 929.3 | 925.0 | 923.3 | 921.1 | 921.7 | 923.3 | 926.6 | 928.2 | 928.2 |
| 12.5° | 931.5 | 933.2 | 929.9 | 923.3 | 921.7 | 919.4 | 919.4 | 921.1 | 925.5 | 927.6 | 928.2 |
| 15° | 934.8 | 936.4 | 931.5 | 924.3 | 922.7 | 921.1 | 920.6 | 922.7 | 927.6 | 931.5 | 932.0 |
| 17.5° | 940.8 | 942.5 | 934.8 | 925.0 | 922.7 | 923.3 | 922.7 | 924.3 | 932.0 | 939.2 | 939.2 |
| 20° | 946.3 | 947.4 | 937.0 | 925.0 | 922.7 | 923.3 | 922.7 | 926.0 | 935.9 | 945.8 | 946.3 |
| 22.5° | 947.9 | 949.0 | 939.2 | 928.8 | 927.1 | 927.6 | 927.1 | 930.4 | 939.7 | 949.6 | 949.6 |
| 25° | 948.5 | 950.2 | 942.5 | 934.3 | 937.0 | 938.1 | 937.0 | 937.6 | 944.6 | 953.5 | 952.9 |
| 27.5° | 956.7 | 958.9 | 951.8 | 944.6 | 946.3 | 945.8 | 947.4 | 949.0 | 954.6 | 963.3 | 961.1 |
| 30° | 973.7 | 975.4 | 969.3 | 962.3 | 961.1 | 957.2 | 962.3 | 967.7 | 973.7 | 981.4 | 979.8 |
| 32.5° | 1001.7 | 1005.0 | 997.3 | 989.6 | 984.7 | 982.6 | 986.4 | 995.7 | 1003.9 | 1012.2 | 1008.9 |
| 35° | 1048.4 | 1050.5 | 1043.4 | 1029.2 | 1020.4 | 1020.4 | 1023.7 | 1035.8 | 1048.9 | 1059.3 | 1055.4 |
| 37.5° | 1114.2 | 1116.9 | 1104.3 | 1087.3 | 1074.1 | 1074.1 | 1078.5 | 1091.1 | 1110.9 | 1125.8 | 1120.2 |
| 40° | 1194.3 | 1198.1 | 1182.2 | 1164.7 | 1152.0 | 1149.8 | 1155.4 | 1169.6 | 1188.3 | 1206.9 | 1200.9 |
| 42.5° | 1290.8 | 1295.2 | 1274.4 | 1259.0 | 1249.2 | 1249.2 | 1251.8 | 1265.1 | 1282.1 | 1305.1 | 1303.5 |
| 45° | 1414.3 | 1422.0 | 1393.4 | 1378.0 | 1368.7 | 1370.9 | 1372.6 | 1384.1 | 1399.4 | 1425.8 | 1424.6 |
| 47.5° | 1561.3 | 1569.0 | 1538.8 | 1522.8 | 1521.2 | 1531.7 | 1525.1 | 1533.3 | 1541.5 | 1571.7 | 1562.9 |
| 50° | 1728.0 | 1741.3 | 1720.4 | 1719.2 | 1722.6 | 1741.8 | 1726.4 | 1730.8 | 1721.5 | 1740.7 | 1729.2 |
| 52.5° | 1932.1 | 1951.3 | 1947.5 | 1954.1 | 1990.9 | 2030.3 | 1995.3 | 1979.9 | 1944.7 | 1950.8 | 1930.5 |
| 55° | 2179.6 | 2208.7 | 2214.1 | 2253.6 | 2337.0 | 2417.7 | 2343.0 | 2281.0 | 2206.4 | 2192.7 | 2171.4 |
| 57.5° | 2461.0 | 2484.0 | 2510.3 | 2591.0 | 2746.8 | 2890.0 | 2746.8 | 2609.6 | 2492.3 | 2464.3 | 2444.5 |
| 60° | 2763.8 | 2792.3 | 2817.5 | 2936.6 | 3168.1 | 3369.5 | 3163.8 | 2946.0 | 2790.7 | 2752.8 | 2719.9 |
| 62.5° | 3089.1 | 3125.8 | 3143.5 | 3275.6 | 3545.6 | 3785.8 | 3549.4 | 3285.5 | 3113.2 | 3072.6 | 3039.7 |
| 65° | 3401.3 | 3431.4 | 3451.2 | 3592.2 | 3850.0 | 4090.9 | 3867.5 | 3607.5 | 3430.4 | 3377.2 | 3350.8 |
| 67.5° | 3546.6 | 3563.1 | 3611.4 | 3771.0 | 4043.1 | 4317.9 | 4089.2 | 3788.0 | 3590.0 | 3496.7 | 3497.8 |
| 70° | 3333.8 | 3300.3 | 3416.6 | 3672.3 | 4066.2 | 4457.3 | 4118.9 | 3664.6 | 3422.1 | 3270.7 | 3306.9 |
| 72.5° | 2576.1 | 2518.5 | 2720.5 | 3157.7 | 3802.9 | 4368.4 | 3829.2 | 3182.4 | 2846.1 | 2538.9 | 2615.1 |
| 75° | 1401.7 | 1336.4 | 1615.1 | 2168.1 | 3032.6 | 3786.3 | 3102.3 | 2230.0 | 1798.3 | 1391.2 | 1481.7 |
| 77.5° | 395.5 | 370.8 | 595.7 | 1048.9 | 1824.1 | 2658.4 | 1894.3 | 1071.9 | 706.6 | 419.1 | 465.8 |
| 80° | 121.3 | 117.4 | 159.1 | 316.0 | 774.6 | 1273.3 | 744.5 | 319.8 | 202.4 | 127.8 | 135.0 |
| 82.5° | 71.9 | 65.8 | 79.0 | 115.2 | 197.5 | 400.0 | 192.0 | 120.1 | 96.6 | 64.8 | 70.2 |
| 85° | 41.1 | 38.4 | 46.6 | 56.0 | 66.4 | 85.1 | 55.5 | 57.1 | 51.6 | 34.5 | 36.2 |
| 87.5° | 17.0 | 15.4 | 18.1 | 17.5 | 15.4 | 19.8 | 14.9 | 17.5 | 20.8 | 13.7 | 12.6 |
| 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)