

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: P960925

Luminaire Tested: **NVN-SB1D-750-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960925  
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-750-U-5WQ  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 5000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11165.3 lumens  
Efficiency: N/A  
Efficacy: 140.3 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

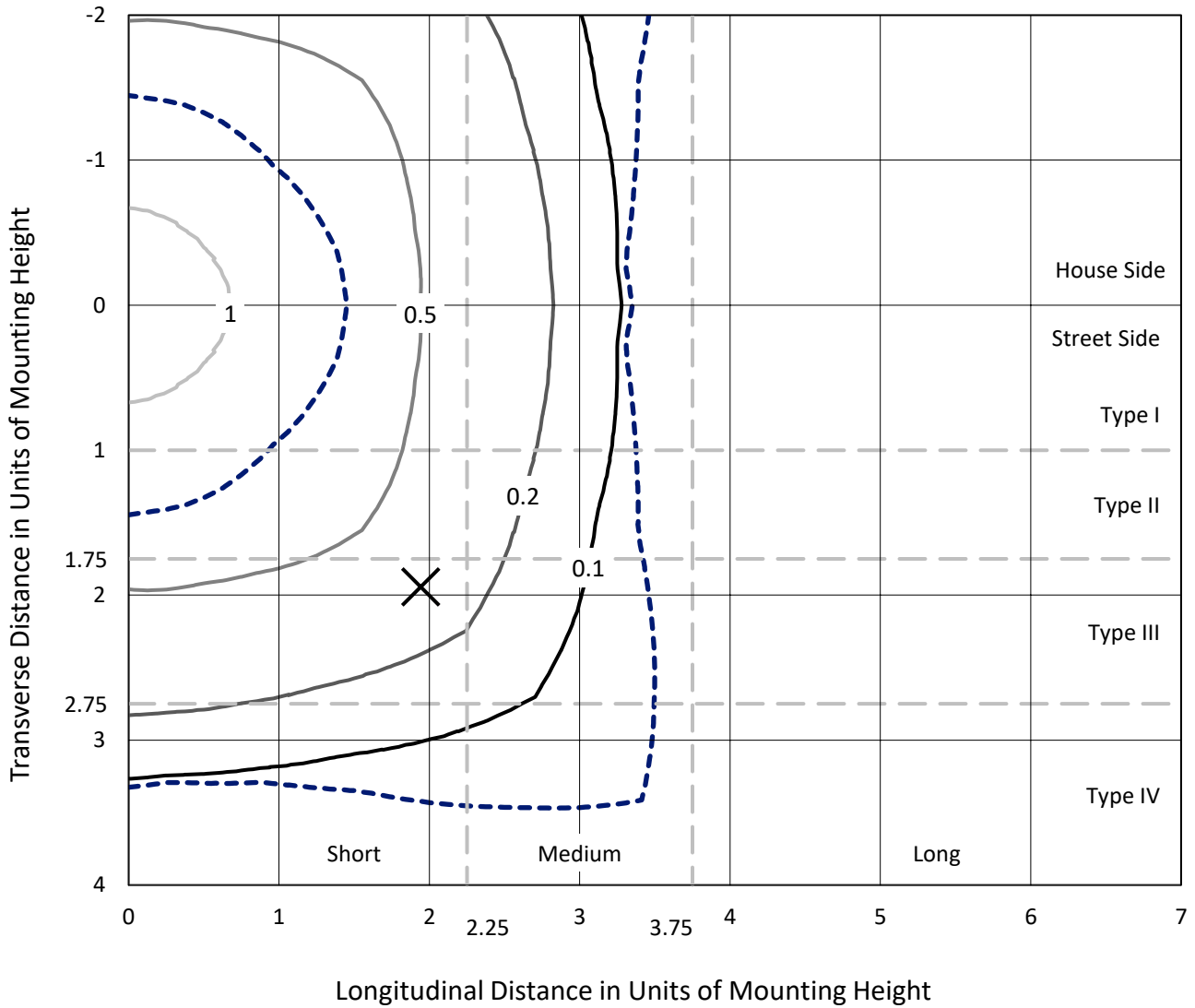
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

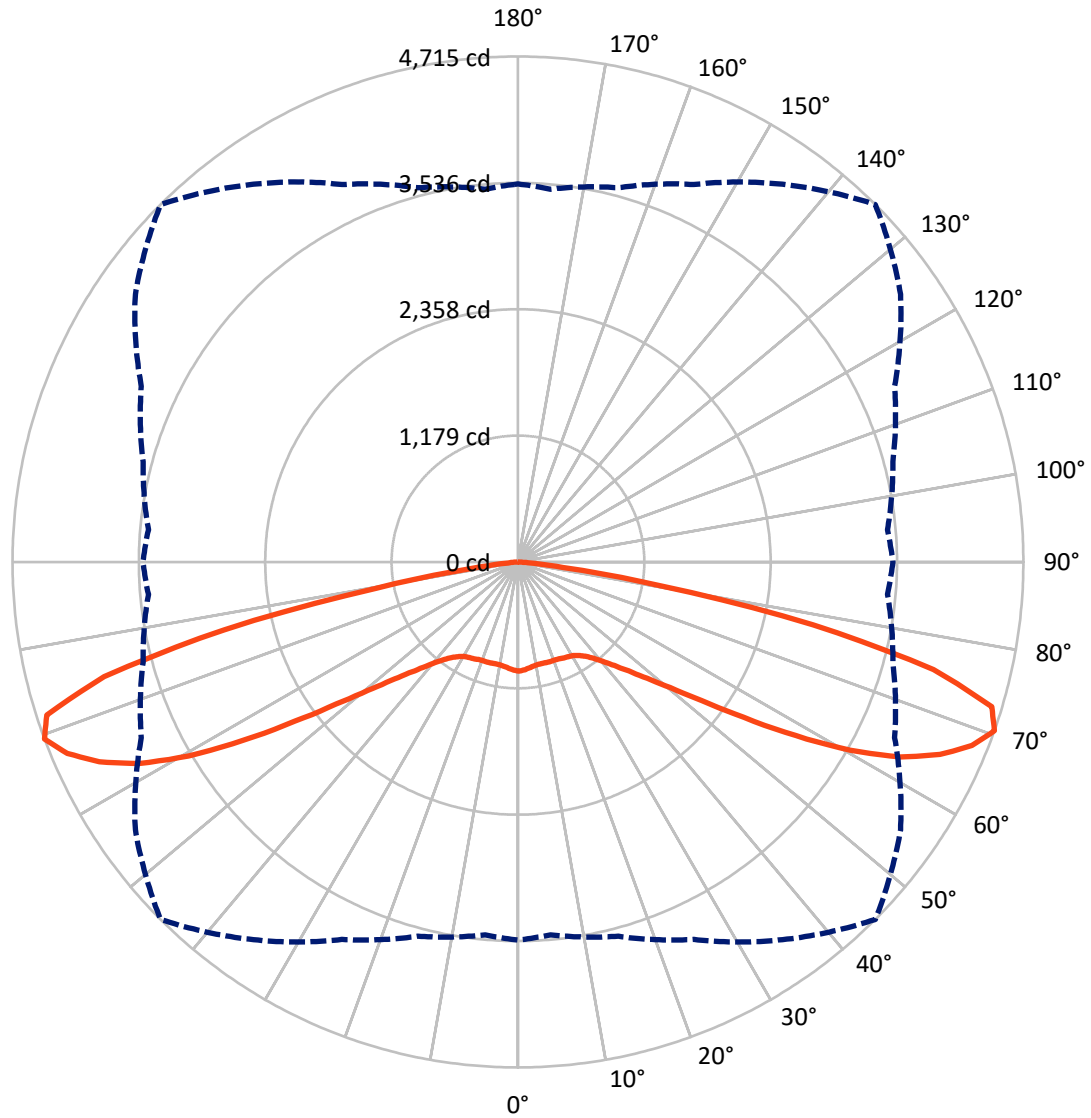
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5582.7   | 0.0    | 5582.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5582.7   | 0.0    | 5582.7  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 11165.3  | 0.0    | 11165.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 94.7    | 0.8       |
| 10°-20°   | 278.2   | 2.5       |
| 20°-30°   | 463.0   | 4.1       |
| 30°-40°   | 700.1   | 6.3       |
| 40°-50°   | 1163.4  | 10.4      |
| 50°-60°   | 2195.4  | 19.7      |
| 60°-70°   | 3707.0  | 33.2      |
| 70°-80°   | 2435.9  | 21.8      |
| 80°-90°   | 127.6   | 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°    | 11165.3 | 100.0     |
| 0°-180°   | 11165.3 | 100.0     |

**Coefficient of Utilization**



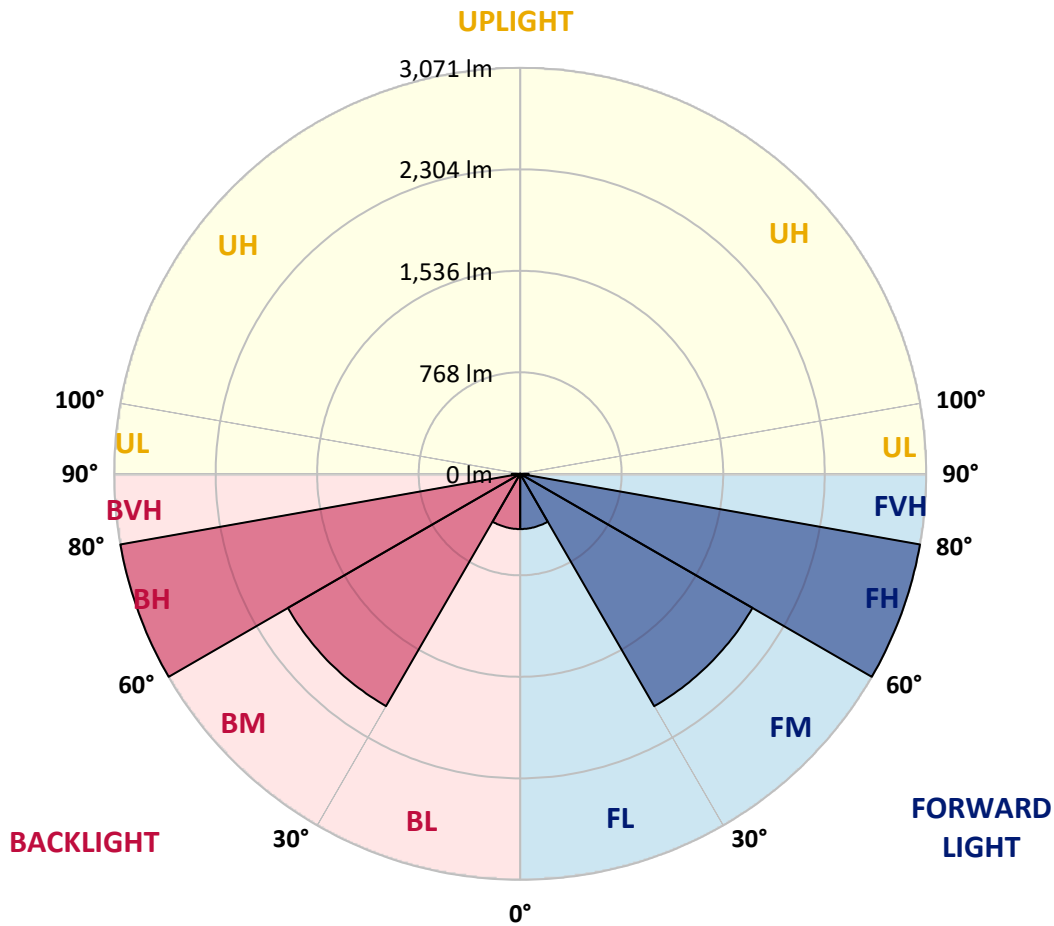
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 417.9  | 3.7       |                         |      |         |
| FM (30°-60°)   | 2029.5 | 18.2      |                         |      |         |
| FH (60°-80°)   | 3071.4 | 27.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 63.8   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 417.9  | 3.7       | B1/500                  |      |         |
| BM (30°-60°)   | 2029.5 | 18.2      | B2/2500                 |      |         |
| BH (60°-80°)   | 3071.4 | 27.5      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 63.8   | 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°    | 1018.5 | 1018.5 | 1018.5 | 1018.5 | 1018.5 | 1018.5 | 1018.5 | 1018.5 | 1018.5 | 1018.5 | 1018.5 |
| 2.5°  | 1012.1 | 1015.1 | 1013.8 | 1011.6 | 1011.6 | 1009.8 | 1011.6 | 1012.7 | 1014.4 | 1015.6 | 1015.1 |
| 5°    | 998.8  | 1001.1 | 1000.5 | 998.8  | 999.4  | 997.6  | 998.8  | 1000.5 | 1001.6 | 1002.2 | 1002.2 |
| 7.5°  | 987.2  | 989.5  | 988.3  | 985.4  | 985.4  | 983.7  | 984.3  | 986.0  | 987.8  | 988.3  | 988.3  |
| 10°   | 984.3  | 986.6  | 983.1  | 978.5  | 976.7  | 974.4  | 975.0  | 976.7  | 980.2  | 982.0  | 982.0  |
| 12.5° | 985.4  | 987.2  | 983.7  | 976.7  | 975.0  | 972.6  | 972.6  | 974.4  | 979.1  | 981.3  | 982.0  |
| 15°   | 988.9  | 990.7  | 985.4  | 977.8  | 976.1  | 974.4  | 973.9  | 976.1  | 981.3  | 985.4  | 986.0  |
| 17.5° | 995.3  | 997.0  | 988.9  | 978.5  | 976.1  | 976.7  | 976.1  | 977.8  | 986.0  | 993.5  | 993.5  |
| 20°   | 1001.1 | 1002.2 | 991.3  | 978.5  | 976.1  | 976.7  | 976.1  | 979.6  | 990.0  | 1000.5 | 1001.1 |
| 22.5° | 1002.9 | 1004.0 | 993.5  | 982.6  | 980.8  | 981.3  | 980.8  | 984.3  | 994.1  | 1004.6 | 1004.6 |
| 25°   | 1003.4 | 1005.1 | 997.0  | 988.3  | 991.3  | 992.4  | 991.3  | 991.8  | 999.4  | 1008.6 | 1008.1 |
| 27.5° | 1012.1 | 1014.4 | 1006.9 | 999.4  | 1001.1 | 1000.5 | 1002.2 | 1004.0 | 1009.8 | 1019.1 | 1016.8 |
| 30°   | 1030.1 | 1031.9 | 1025.5 | 1017.9 | 1016.8 | 1012.7 | 1017.9 | 1023.8 | 1030.1 | 1038.2 | 1036.5 |
| 32.5° | 1059.7 | 1063.2 | 1055.0 | 1046.9 | 1041.7 | 1039.4 | 1043.4 | 1053.3 | 1062.0 | 1070.7 | 1067.2 |
| 35°   | 1109.0 | 1111.4 | 1103.8 | 1088.8 | 1079.4 | 1079.4 | 1082.9 | 1095.7 | 1109.7 | 1120.6 | 1116.5 |
| 37.5° | 1178.6 | 1181.6 | 1168.2 | 1150.3 | 1136.3 | 1136.3 | 1140.9 | 1154.3 | 1175.2 | 1190.8 | 1185.1 |
| 40°   | 1263.4 | 1267.5 | 1250.6 | 1232.0 | 1218.7 | 1216.4 | 1222.2 | 1237.3 | 1257.1 | 1276.7 | 1270.4 |
| 42.5° | 1365.5 | 1370.2 | 1348.2 | 1331.9 | 1321.4 | 1321.4 | 1324.3 | 1338.2 | 1356.3 | 1380.7 | 1378.9 |
| 45°   | 1496.1 | 1504.3 | 1474.1 | 1457.9 | 1447.9 | 1450.3 | 1452.0 | 1464.2 | 1480.4 | 1508.3 | 1507.2 |
| 47.5° | 1651.7 | 1659.8 | 1627.9 | 1611.0 | 1609.2 | 1620.3 | 1613.4 | 1622.1 | 1630.8 | 1662.7 | 1653.4 |
| 50°   | 1828.1 | 1842.0 | 1820.0 | 1818.8 | 1822.2 | 1842.5 | 1826.3 | 1831.0 | 1821.1 | 1841.4 | 1829.2 |
| 52.5° | 2044.0 | 2064.2 | 2060.2 | 2067.2 | 2106.1 | 2147.9 | 2110.7 | 2094.5 | 2057.3 | 2063.7 | 2042.2 |
| 55°   | 2305.7 | 2336.5 | 2342.2 | 2384.0 | 2472.3 | 2557.6 | 2478.7 | 2413.1 | 2334.1 | 2319.7 | 2297.0 |
| 57.5° | 2603.4 | 2627.8 | 2655.7 | 2741.0 | 2905.8 | 3057.3 | 2905.8 | 2760.7 | 2636.5 | 2606.9 | 2586.0 |
| 60°   | 2923.8 | 2953.9 | 2980.6 | 3106.6 | 3351.4 | 3564.4 | 3346.8 | 3116.4 | 2952.2 | 2912.1 | 2877.4 |
| 62.5° | 3267.9 | 3306.8 | 3325.4 | 3465.2 | 3750.8 | 4005.0 | 3754.8 | 3475.7 | 3293.4 | 3250.5 | 3215.7 |
| 65°   | 3598.2 | 3630.0 | 3650.9 | 3800.1 | 4072.8 | 4327.7 | 4091.4 | 3816.4 | 3628.9 | 3572.6 | 3544.8 |
| 67.5° | 3751.9 | 3769.3 | 3820.4 | 3989.3 | 4277.1 | 4567.9 | 4325.9 | 4007.2 | 3797.7 | 3699.1 | 3700.2 |
| 70°   | 3526.7 | 3491.4 | 3614.4 | 3884.9 | 4301.5 | 4715.3 | 4357.2 | 3876.7 | 3620.2 | 3460.0 | 3498.3 |
| 72.5° | 2725.3 | 2664.4 | 2877.9 | 3340.5 | 4022.9 | 4621.3 | 4050.8 | 3366.6 | 3010.8 | 2685.8 | 2766.5 |
| 75°   | 1482.8 | 1413.7 | 1708.6 | 2293.5 | 3208.1 | 4005.5 | 3281.8 | 2359.1 | 1902.4 | 1471.8 | 1567.5 |
| 77.5° | 418.4  | 392.3  | 630.3  | 1109.7 | 1929.7 | 2812.3 | 2003.9 | 1134.0 | 747.5  | 443.4  | 492.7  |
| 80°   | 128.2  | 124.2  | 168.3  | 334.3  | 819.5  | 1347.0 | 787.5  | 338.4  | 214.1  | 135.2  | 142.8  |
| 82.5° | 76.1   | 69.6   | 83.5   | 121.9  | 208.9  | 423.1  | 203.2  | 127.1  | 102.1  | 68.5   | 74.3   |
| 85°   | 43.6   | 40.6   | 49.3   | 59.2   | 70.2   | 90.0   | 58.6   | 60.4   | 54.5   | 36.6   | 38.3   |
| 87.5° | 18.0   | 16.3   | 19.2   | 18.6   | 16.3   | 20.9   | 15.7   | 18.6   | 22.0   | 14.6   | 13.3   |
| 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)