

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: P965668

Luminaire Tested: **NVN-SB4A-750-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965668
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-SB4A-750-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19720 lumens
Efficiency: N/A
Efficacy: 173.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

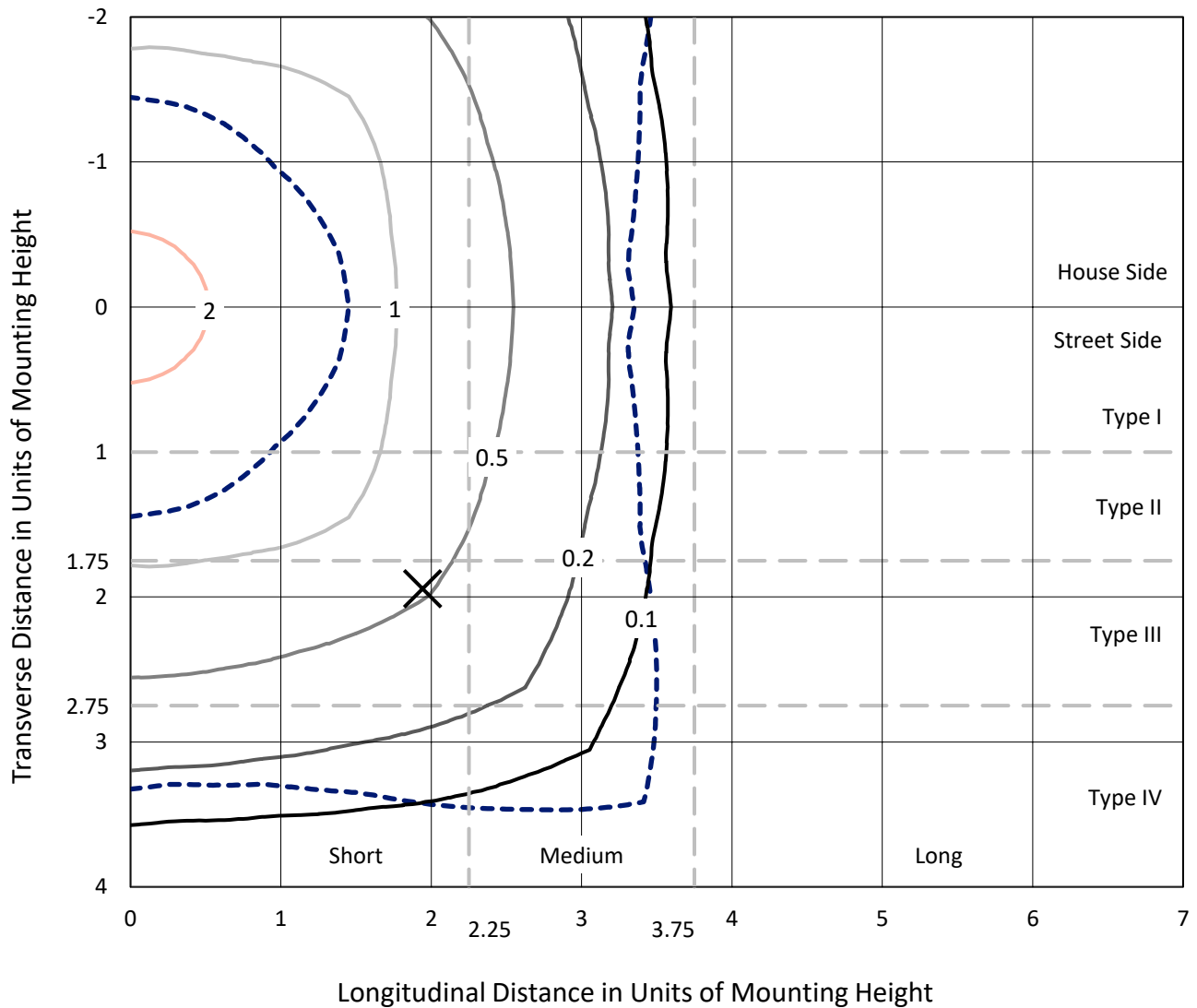
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

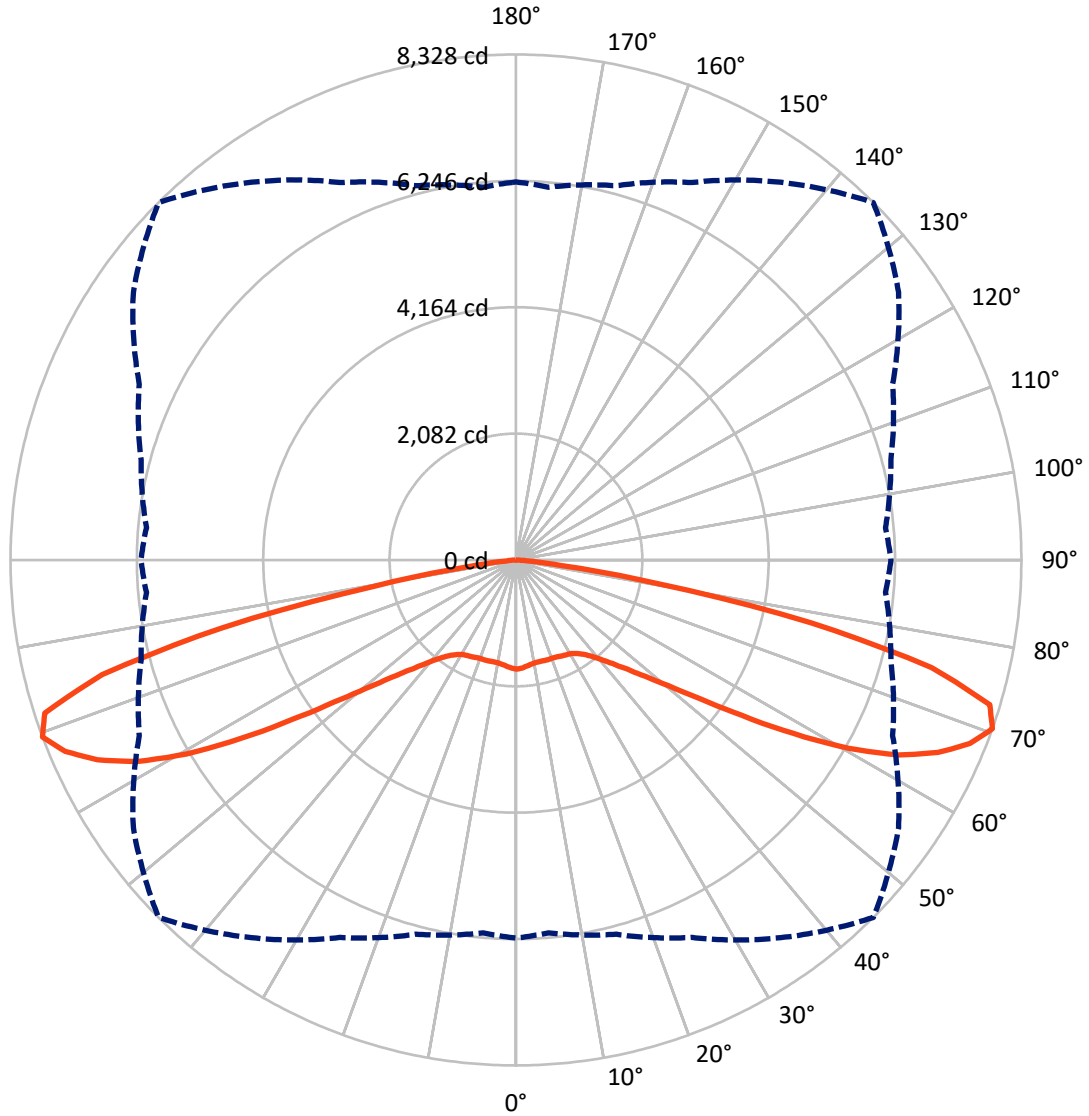
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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 | 9860.0 | 0.0 | 9860.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9860.0 | 0.0 | 9860.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19720.0 | 0.0 | 19720.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 167.3 | 0.8 |
| 10°-20° | 491.3 | 2.5 |
| 20°-30° | 817.7 | 4.1 |
| 30°-40° | 1236.6 | 6.3 |
| 40°-50° | 2054.9 | 10.4 |
| 50°-60° | 3877.5 | 19.7 |
| 60°-70° | 6547.2 | 33.2 |
| 70°-80° | 4302.2 | 21.8 |
| 80°-90° | 225.4 | 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° | 19720.0 | 100.0 |
| 0°-180° | 19720.0 | 100.0 |



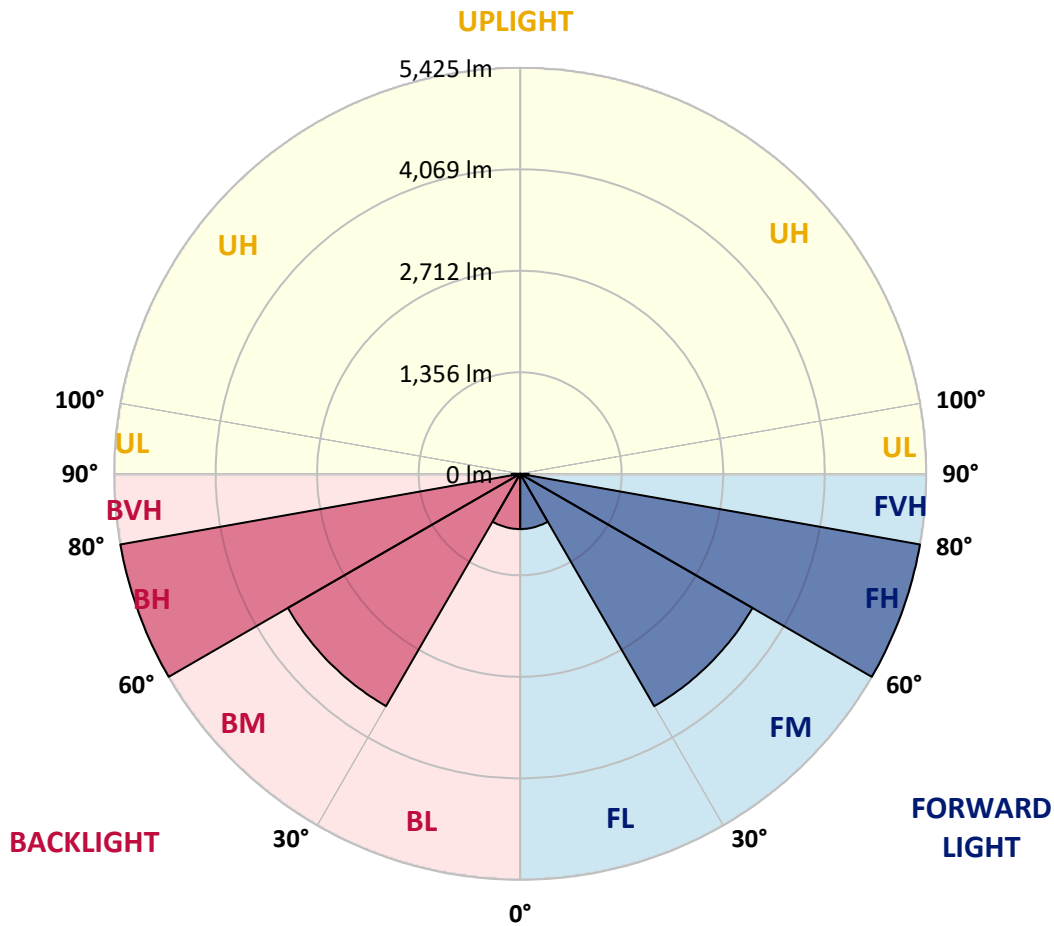
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 738.2 | 3.7 | | | |
| FM (30°-60°) | 3584.4 | 18.2 | | | |
| FH (60°-80°) | 5424.7 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 112.7 | 0.6 | | | G2/225 |
| BL (0°-30°) | 738.2 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 3584.4 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 5424.7 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 112.7 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 | 1798.9 |
| 2.5° | 1787.6 | 1792.7 | 1790.7 | 1786.6 | 1786.6 | 1783.5 | 1786.6 | 1788.6 | 1791.7 | 1793.7 | 1792.7 |
| 5° | 1764.0 | 1768.1 | 1767.1 | 1764.0 | 1765.0 | 1762.0 | 1764.0 | 1767.1 | 1769.2 | 1770.2 | 1770.2 |
| 7.5° | 1743.5 | 1747.6 | 1745.6 | 1740.4 | 1740.4 | 1737.4 | 1738.4 | 1741.5 | 1744.6 | 1745.6 | 1745.6 |
| 10° | 1738.4 | 1742.5 | 1736.4 | 1728.2 | 1725.1 | 1721.0 | 1722.0 | 1725.1 | 1731.2 | 1734.3 | 1734.3 |
| 12.5° | 1740.4 | 1743.5 | 1737.4 | 1725.1 | 1722.0 | 1717.9 | 1717.9 | 1721.0 | 1729.2 | 1733.3 | 1734.3 |
| 15° | 1746.6 | 1749.7 | 1740.4 | 1727.1 | 1724.0 | 1721.0 | 1720.0 | 1724.0 | 1733.3 | 1740.4 | 1741.5 |
| 17.5° | 1757.9 | 1761.0 | 1746.6 | 1728.2 | 1724.0 | 1725.1 | 1724.0 | 1727.1 | 1741.5 | 1754.8 | 1754.8 |
| 20° | 1768.1 | 1770.2 | 1750.7 | 1728.2 | 1724.0 | 1725.1 | 1724.0 | 1730.2 | 1748.6 | 1767.1 | 1768.1 |
| 22.5° | 1771.2 | 1773.2 | 1754.8 | 1735.3 | 1732.2 | 1733.3 | 1732.2 | 1738.4 | 1755.8 | 1774.3 | 1774.3 |
| 25° | 1772.2 | 1775.3 | 1761.0 | 1745.6 | 1750.7 | 1752.7 | 1750.7 | 1751.7 | 1765.0 | 1781.4 | 1780.4 |
| 27.5° | 1787.6 | 1791.7 | 1778.4 | 1765.0 | 1768.1 | 1767.1 | 1770.2 | 1773.2 | 1783.5 | 1799.9 | 1795.8 |
| 30° | 1819.4 | 1822.4 | 1811.2 | 1797.8 | 1795.8 | 1788.6 | 1797.8 | 1808.1 | 1819.4 | 1833.7 | 1830.6 |
| 32.5° | 1871.6 | 1877.8 | 1863.4 | 1849.1 | 1839.9 | 1835.8 | 1843.0 | 1860.4 | 1875.7 | 1891.1 | 1885.0 |
| 35° | 1958.8 | 1962.9 | 1949.5 | 1922.9 | 1906.5 | 1906.5 | 1912.6 | 1935.2 | 1959.8 | 1979.3 | 1972.1 |
| 37.5° | 2081.8 | 2086.9 | 2063.3 | 2031.5 | 2007.0 | 2007.0 | 2015.2 | 2038.7 | 2075.6 | 2103.3 | 2093.0 |
| 40° | 2231.4 | 2238.6 | 2208.9 | 2176.1 | 2152.5 | 2148.4 | 2158.6 | 2185.3 | 2220.1 | 2255.0 | 2243.7 |
| 42.5° | 2411.8 | 2420.0 | 2381.1 | 2352.4 | 2333.9 | 2333.9 | 2339.0 | 2363.6 | 2395.4 | 2438.5 | 2435.4 |
| 45° | 2642.4 | 2656.8 | 2603.5 | 2574.8 | 2557.4 | 2561.5 | 2564.5 | 2586.1 | 2614.8 | 2664.0 | 2661.9 |
| 47.5° | 2917.1 | 2931.5 | 2875.1 | 2845.4 | 2842.3 | 2861.8 | 2849.5 | 2864.9 | 2880.2 | 2936.6 | 2920.2 |
| 50° | 3228.7 | 3253.4 | 3214.4 | 3212.4 | 3218.5 | 3254.4 | 3225.7 | 3233.9 | 3216.4 | 3252.3 | 3230.8 |
| 52.5° | 3610.0 | 3645.9 | 3638.7 | 3651.0 | 3719.7 | 3793.5 | 3727.9 | 3699.2 | 3633.6 | 3644.9 | 3607.0 |
| 55° | 4072.3 | 4126.6 | 4136.9 | 4210.7 | 4366.5 | 4517.2 | 4377.8 | 4262.0 | 4122.5 | 4096.9 | 4057.0 |
| 57.5° | 4598.2 | 4641.2 | 4690.4 | 4841.1 | 5132.2 | 5399.7 | 5132.2 | 4875.9 | 4656.6 | 4604.3 | 4567.4 |
| 60° | 5164.0 | 5217.2 | 5264.4 | 5486.8 | 5919.3 | 6295.4 | 5911.1 | 5504.2 | 5214.2 | 5143.4 | 5082.0 |
| 62.5° | 5771.7 | 5840.3 | 5873.1 | 6120.2 | 6624.5 | 7073.4 | 6631.6 | 6138.6 | 5816.8 | 5740.9 | 5679.4 |
| 65° | 6354.9 | 6411.3 | 6448.2 | 6711.6 | 7193.3 | 7643.3 | 7226.1 | 6740.3 | 6409.2 | 6309.8 | 6260.6 |
| 67.5° | 6626.5 | 6657.3 | 6747.5 | 7045.7 | 7554.1 | 8067.7 | 7640.2 | 7077.5 | 6707.5 | 6533.2 | 6535.3 |
| 70° | 6228.8 | 6166.3 | 6383.6 | 6861.2 | 7597.2 | 8328.0 | 7695.6 | 6846.9 | 6393.8 | 6110.9 | 6178.6 |
| 72.5° | 4813.4 | 4705.8 | 5083.0 | 5899.8 | 7105.2 | 8162.0 | 7154.4 | 5945.9 | 5317.7 | 4743.7 | 4886.2 |
| 75° | 2618.9 | 2496.9 | 3017.6 | 4050.8 | 5666.2 | 7074.4 | 5796.3 | 4166.6 | 3360.0 | 2599.4 | 2768.5 |
| 77.5° | 739.0 | 692.9 | 1113.1 | 1959.8 | 3408.1 | 4967.2 | 3539.3 | 2002.8 | 1320.2 | 783.1 | 870.2 |
| 80° | 226.5 | 219.4 | 297.2 | 590.4 | 1447.3 | 2379.0 | 1390.9 | 597.6 | 378.2 | 238.8 | 252.2 |
| 82.5° | 134.3 | 123.0 | 147.6 | 215.2 | 369.0 | 747.2 | 358.7 | 224.5 | 180.4 | 121.0 | 131.2 |
| 85° | 76.9 | 71.8 | 87.1 | 104.6 | 124.0 | 158.9 | 103.5 | 106.6 | 96.4 | 64.6 | 67.6 |
| 87.5° | 31.8 | 28.7 | 33.8 | 32.8 | 28.7 | 36.9 | 27.7 | 32.8 | 38.9 | 25.6 | 23.6 |
| 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)