

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: P962475

Luminaire Tested: **NVN-SB2C-740-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962475
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-SB2C-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16427.7 lumens
Efficiency: N/A
Efficacy: 162.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

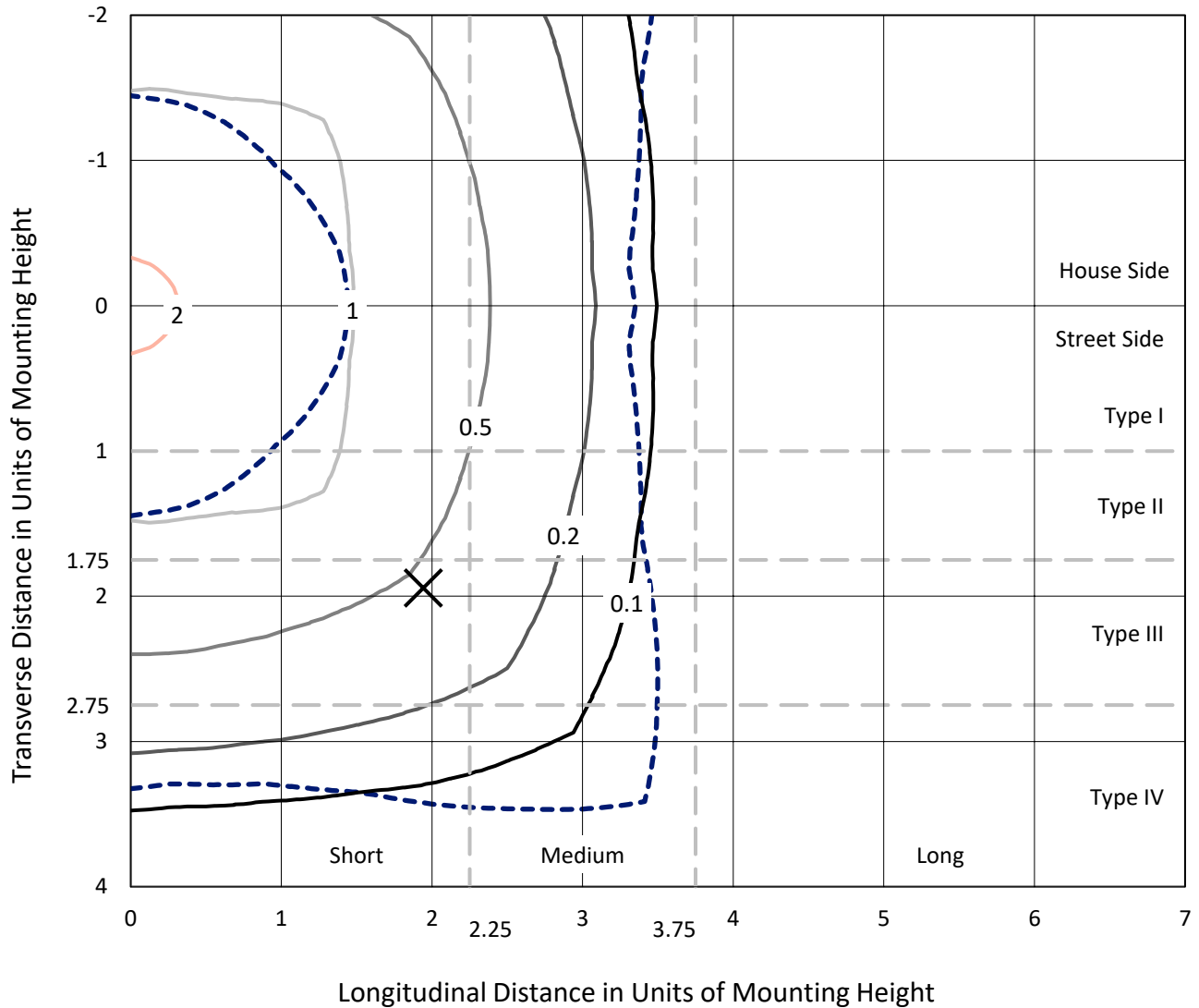
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

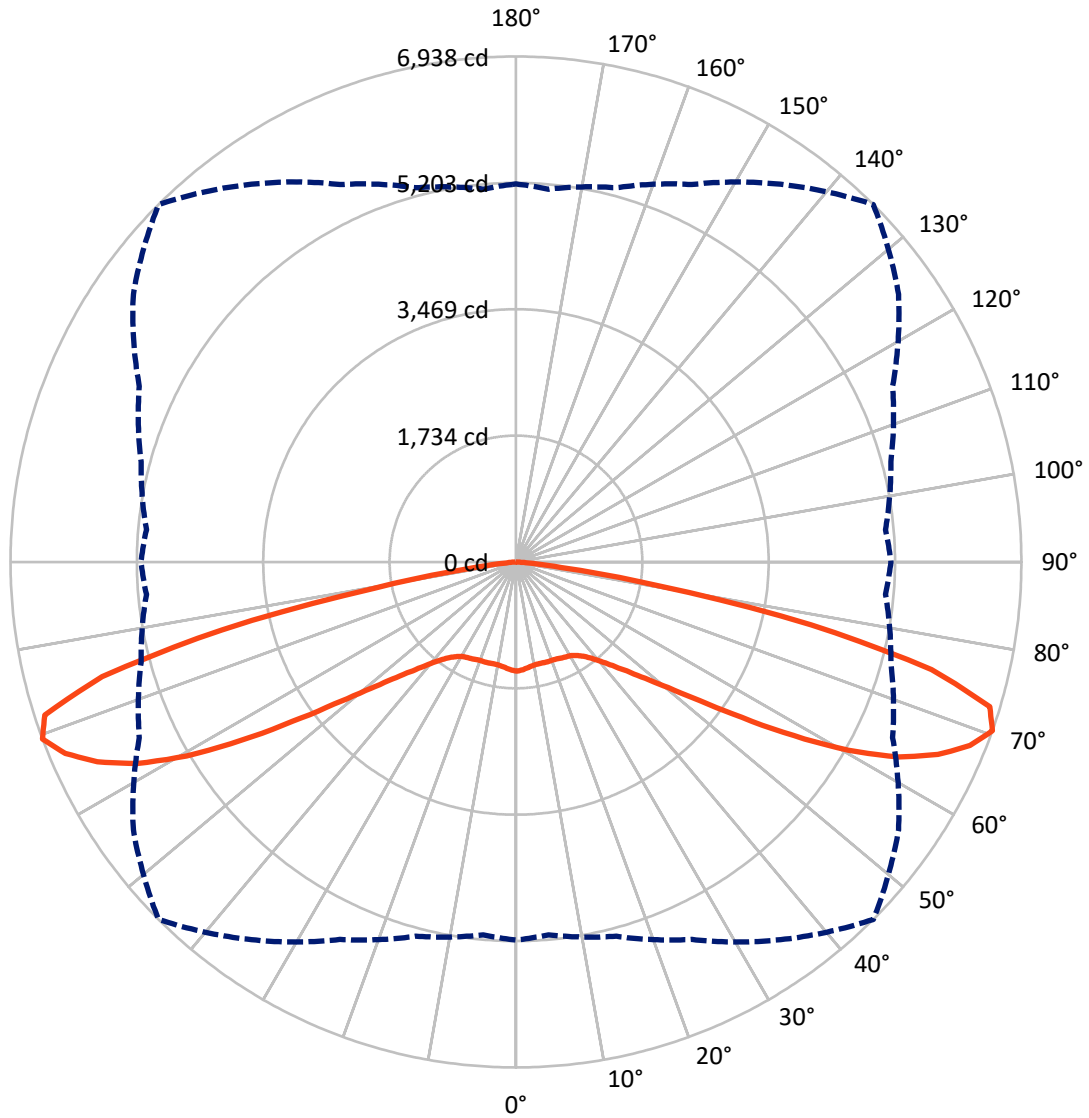
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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 | 8213.9 | 0.0 | 8213.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8213.9 | 0.0 | 8213.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16427.7 | 0.0 | 16427.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 139.4 | 0.8 |
| 10°-20° | 409.3 | 2.5 |
| 20°-30° | 681.2 | 4.1 |
| 30°-40° | 1030.1 | 6.3 |
| 40°-50° | 1711.8 | 10.4 |
| 50°-60° | 3230.1 | 19.7 |
| 60°-70° | 5454.1 | 33.2 |
| 70°-80° | 3583.9 | 21.8 |
| 80°-90° | 187.8 | 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° | 16427.7 | 100.0 |
| 0°-180° | 16427.7 | 100.0 |

Coefficient of Utilization



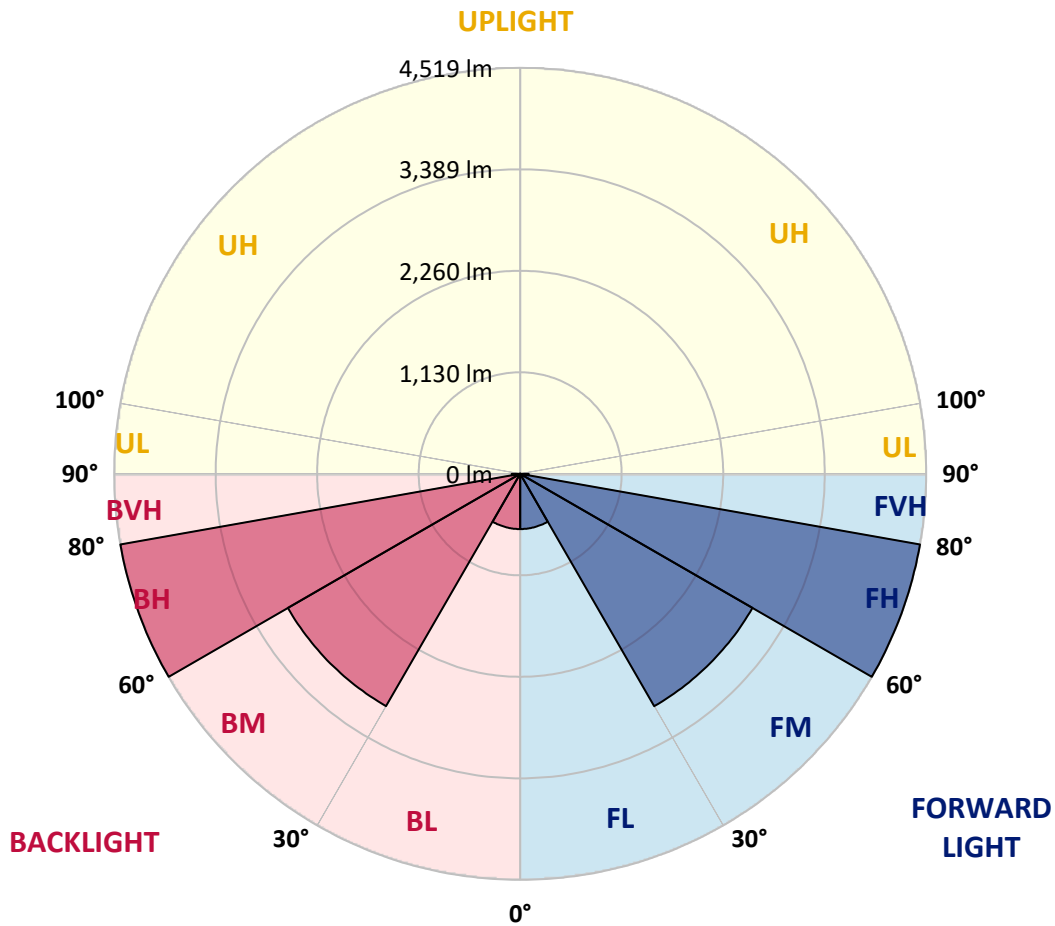
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 614.9 | 3.7 | | | |
| FM (30°-60°) | 2986.0 | 18.2 | | | |
| FH (60°-80°) | 4519.0 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 93.9 | 0.6 | | | G1/100 |
| BL (0°-30°) | 614.9 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 2986.0 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 4519.0 | 27.5 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 93.9 | 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° | 1498.6 | 1498.6 | 1498.6 | 1498.6 | 1498.6 | 1498.6 | 1498.6 | 1498.6 | 1498.6 | 1498.6 | 1498.6 |
| 2.5° | 1489.1 | 1493.4 | 1491.7 | 1488.3 | 1488.3 | 1485.7 | 1488.3 | 1490.0 | 1492.6 | 1494.2 | 1493.4 |
| 5° | 1469.5 | 1472.9 | 1472.1 | 1469.5 | 1470.4 | 1467.8 | 1469.5 | 1472.1 | 1473.7 | 1474.7 | 1474.7 |
| 7.5° | 1452.4 | 1455.8 | 1454.2 | 1449.9 | 1449.9 | 1447.3 | 1448.1 | 1450.7 | 1453.2 | 1454.2 | 1454.2 |
| 10° | 1448.1 | 1451.6 | 1446.5 | 1439.6 | 1437.0 | 1433.7 | 1434.5 | 1437.0 | 1442.2 | 1444.7 | 1444.7 |
| 12.5° | 1449.9 | 1452.4 | 1447.3 | 1437.0 | 1434.5 | 1431.1 | 1431.1 | 1433.7 | 1440.4 | 1443.9 | 1444.7 |
| 15° | 1455.0 | 1457.6 | 1449.9 | 1438.8 | 1436.2 | 1433.7 | 1432.7 | 1436.2 | 1443.9 | 1449.9 | 1450.7 |
| 17.5° | 1464.4 | 1467.0 | 1455.0 | 1439.6 | 1436.2 | 1437.0 | 1436.2 | 1438.8 | 1450.7 | 1461.9 | 1461.9 |
| 20° | 1472.9 | 1474.7 | 1458.4 | 1439.6 | 1436.2 | 1437.0 | 1436.2 | 1441.4 | 1456.7 | 1472.1 | 1472.9 |
| 22.5° | 1475.5 | 1477.2 | 1461.9 | 1445.6 | 1443.0 | 1443.9 | 1443.0 | 1448.1 | 1462.7 | 1478.0 | 1478.0 |
| 25° | 1476.3 | 1478.9 | 1467.0 | 1454.2 | 1458.4 | 1460.1 | 1458.4 | 1459.3 | 1470.4 | 1484.0 | 1483.2 |
| 27.5° | 1489.1 | 1492.6 | 1481.4 | 1470.4 | 1472.9 | 1472.1 | 1474.7 | 1477.2 | 1485.7 | 1499.4 | 1496.0 |
| 30° | 1515.6 | 1518.1 | 1508.8 | 1497.7 | 1496.0 | 1490.0 | 1497.7 | 1506.2 | 1515.6 | 1527.6 | 1525.0 |
| 32.5° | 1559.1 | 1564.3 | 1552.4 | 1540.4 | 1532.7 | 1529.3 | 1535.2 | 1549.8 | 1562.6 | 1575.4 | 1570.3 |
| 35° | 1631.7 | 1635.2 | 1624.0 | 1601.9 | 1588.2 | 1588.2 | 1593.4 | 1612.1 | 1632.6 | 1648.8 | 1642.9 |
| 37.5° | 1734.2 | 1738.5 | 1718.8 | 1692.4 | 1671.9 | 1671.9 | 1678.7 | 1698.3 | 1729.1 | 1752.1 | 1743.6 |
| 40° | 1858.8 | 1864.9 | 1840.1 | 1812.7 | 1793.1 | 1789.8 | 1798.3 | 1820.4 | 1849.5 | 1878.5 | 1869.1 |
| 42.5° | 2009.1 | 2016.0 | 1983.6 | 1959.6 | 1944.2 | 1944.2 | 1948.5 | 1969.0 | 1995.5 | 2031.3 | 2028.8 |
| 45° | 2201.3 | 2213.2 | 2168.8 | 2144.9 | 2130.4 | 2133.8 | 2136.4 | 2154.3 | 2178.2 | 2219.2 | 2217.5 |
| 47.5° | 2430.1 | 2442.1 | 2395.1 | 2370.3 | 2367.8 | 2383.9 | 2373.8 | 2386.5 | 2399.3 | 2446.4 | 2432.6 |
| 50° | 2689.7 | 2710.2 | 2677.7 | 2676.0 | 2681.1 | 2711.0 | 2687.1 | 2693.9 | 2679.5 | 2709.3 | 2691.3 |
| 52.5° | 3007.4 | 3037.2 | 3031.2 | 3041.5 | 3098.7 | 3160.2 | 3105.5 | 3081.6 | 3026.9 | 3036.4 | 3004.8 |
| 55° | 3392.4 | 3437.6 | 3446.2 | 3507.7 | 3637.5 | 3763.0 | 3646.8 | 3550.4 | 3434.3 | 3412.9 | 3379.6 |
| 57.5° | 3830.4 | 3866.3 | 3907.3 | 4032.8 | 4275.3 | 4498.2 | 4275.3 | 4061.9 | 3879.1 | 3835.6 | 3804.8 |
| 60° | 4301.8 | 4346.2 | 4385.5 | 4570.8 | 4931.1 | 5244.4 | 4924.2 | 4585.2 | 4343.6 | 4284.7 | 4233.5 |
| 62.5° | 4808.1 | 4865.4 | 4892.6 | 5098.5 | 5518.5 | 5892.5 | 5524.5 | 5113.8 | 4845.7 | 4782.5 | 4731.3 |
| 65° | 5293.9 | 5341.0 | 5371.7 | 5591.1 | 5992.5 | 6367.3 | 6019.7 | 5615.1 | 5339.2 | 5256.4 | 5215.4 |
| 67.5° | 5520.2 | 5545.9 | 5621.0 | 5869.5 | 6293.0 | 6720.8 | 6364.7 | 5895.9 | 5587.7 | 5442.5 | 5444.3 |
| 70° | 5189.0 | 5136.9 | 5317.9 | 5715.8 | 6328.9 | 6937.6 | 6410.9 | 5703.8 | 5326.4 | 5090.8 | 5147.1 |
| 72.5° | 4009.8 | 3920.1 | 4234.3 | 4914.9 | 5919.0 | 6799.3 | 5960.0 | 4953.3 | 4429.8 | 3951.7 | 4070.4 |
| 75° | 2181.6 | 2080.0 | 2513.8 | 3374.5 | 4720.1 | 5893.3 | 4828.6 | 3471.0 | 2799.0 | 2165.4 | 2306.2 |
| 77.5° | 615.6 | 577.2 | 927.3 | 1632.6 | 2839.1 | 4137.8 | 2948.4 | 1668.5 | 1099.8 | 652.3 | 725.0 |
| 80° | 188.7 | 182.8 | 247.6 | 491.8 | 1205.7 | 1981.8 | 1158.7 | 497.8 | 315.1 | 199.0 | 210.0 |
| 82.5° | 111.8 | 102.5 | 123.0 | 179.3 | 307.4 | 622.5 | 298.9 | 187.0 | 150.3 | 100.8 | 109.3 |
| 85° | 64.1 | 59.8 | 72.6 | 87.1 | 103.3 | 132.3 | 86.2 | 88.8 | 80.3 | 53.8 | 56.4 |
| 87.5° | 26.4 | 23.9 | 28.2 | 27.4 | 23.9 | 30.7 | 23.1 | 27.4 | 32.5 | 21.3 | 19.7 |
| 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)