

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: P959778

Luminaire Tested: **NVN-SB1B-730-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959778
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-SB1B-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5840.5 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

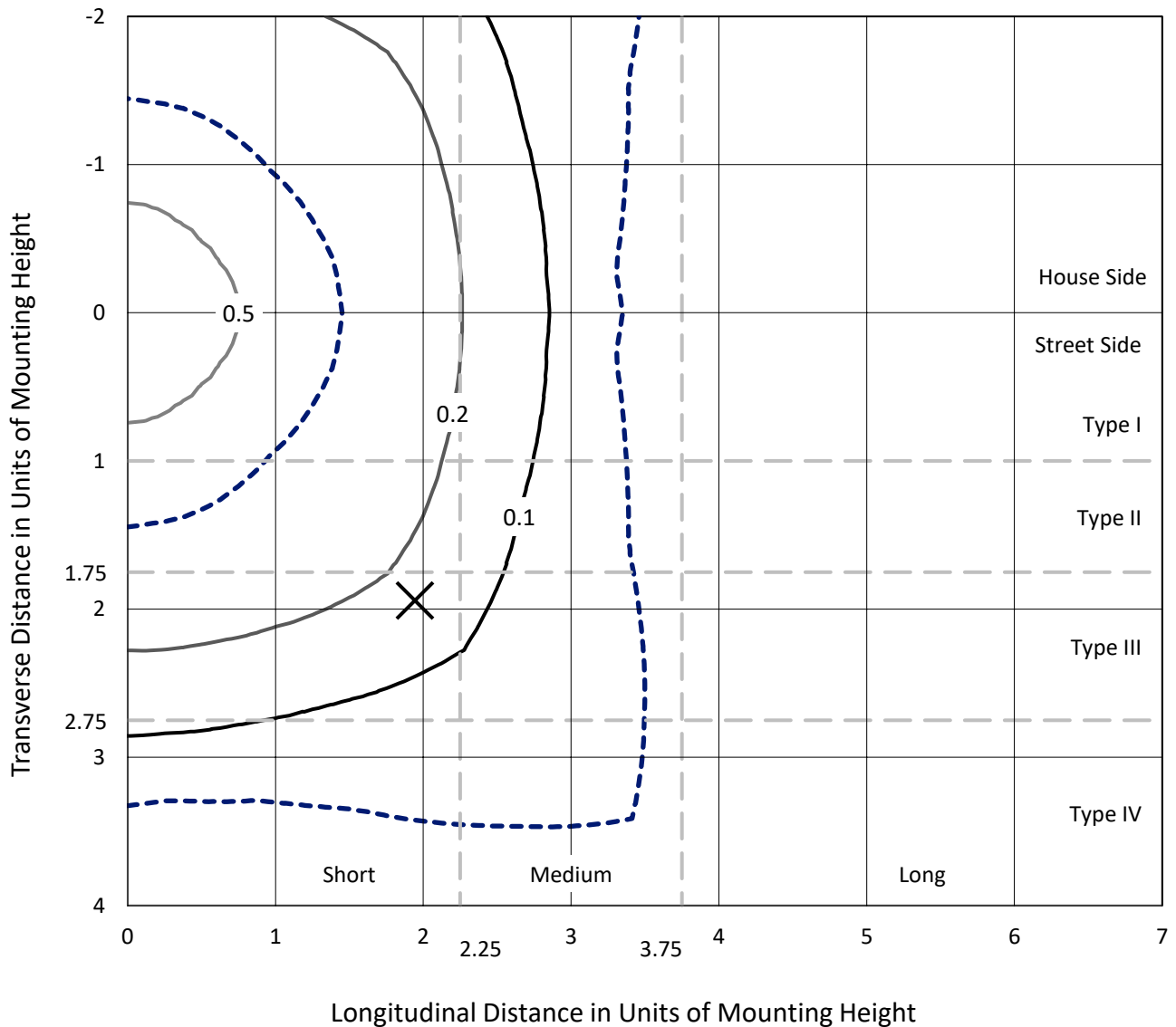
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

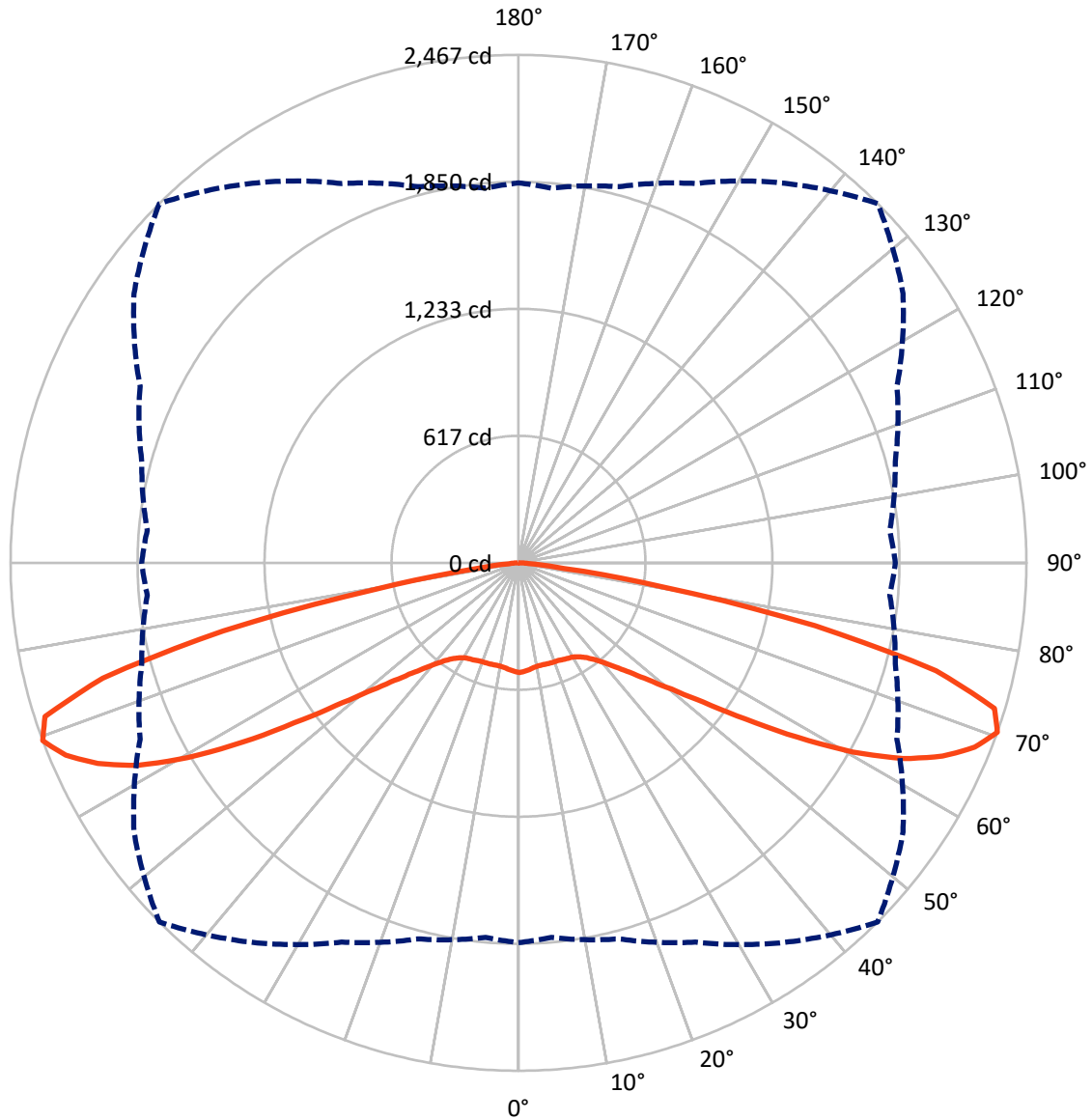
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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 | 2920.2 | 0.0 | 2920.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2920.2 | 0.0 | 2920.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5840.5 | 0.0 | 5840.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.6 | 0.8 |
| 10°-20° | 145.5 | 2.5 |
| 20°-30° | 242.2 | 4.1 |
| 30°-40° | 366.2 | 6.3 |
| 40°-50° | 608.6 | 10.4 |
| 50°-60° | 1148.4 | 19.7 |
| 60°-70° | 1939.1 | 33.2 |
| 70°-80° | 1274.2 | 21.8 |
| 80°-90° | 66.8 | 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° | 5840.5 | 100.0 |
| 0°-180° | 5840.5 | 100.0 |

Coefficient of Utilization



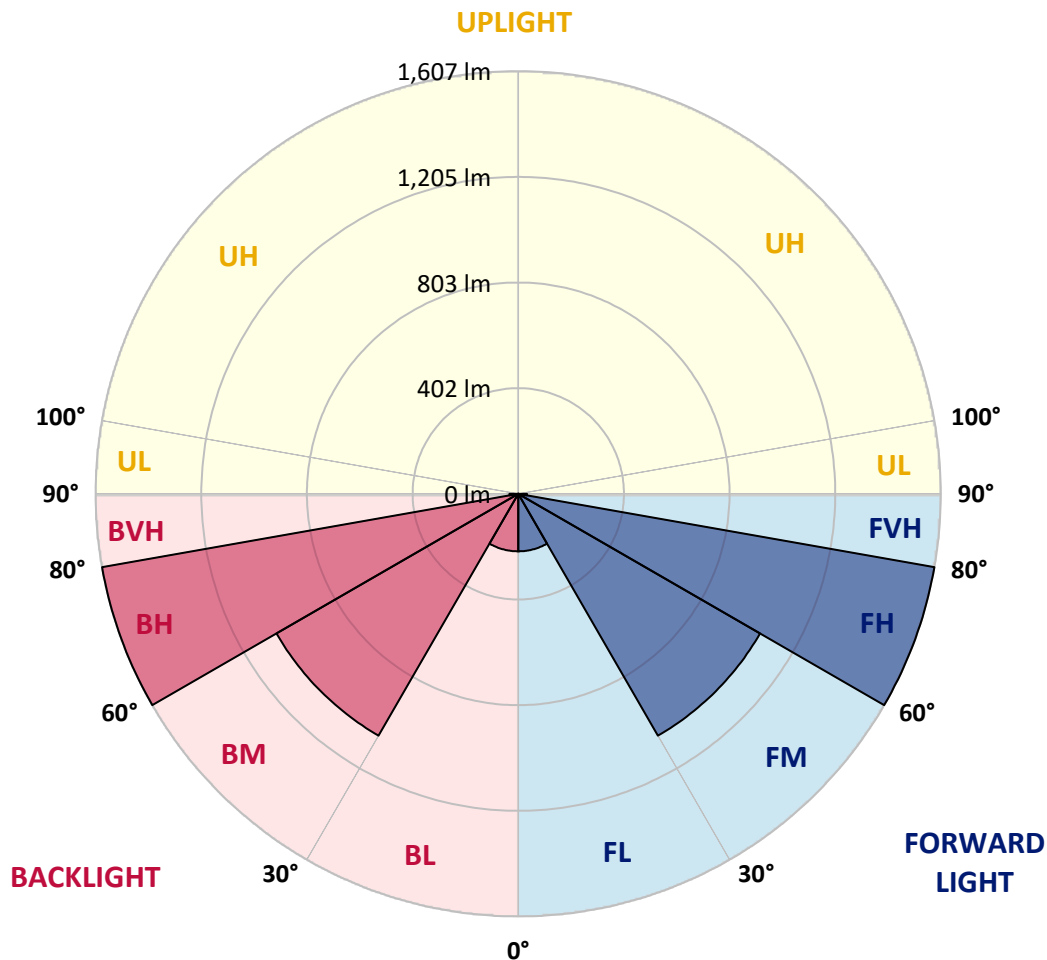
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 218.6 | 3.7 | | | |
| FM (30°-60°) | 1061.6 | 18.2 | | | |
| FH (60°-80°) | 1606.6 | 27.5 | | | G1/1800 |
| FVH (80°-90°) | 33.4 | 0.6 | | | G1/100 |
| BL (0°-30°) | 218.6 | 3.7 | B1/500 | | |
| BM (30°-60°) | 1061.6 | 18.2 | B2/2500 | | |
| BH (60°-80°) | 1606.6 | 27.5 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 33.4 | 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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 532.8 | 532.8 | 532.8 | 532.8 | 532.8 | 532.8 | 532.8 | 532.8 | 532.8 | 532.8 | 532.8 |
| 2.5° | 529.4 | 530.9 | 530.3 | 529.1 | 529.1 | 528.2 | 529.1 | 529.7 | 530.6 | 531.3 | 530.9 |
| 5° | 522.4 | 523.7 | 523.4 | 522.4 | 522.8 | 521.8 | 522.4 | 523.4 | 524.0 | 524.3 | 524.3 |
| 7.5° | 516.4 | 517.6 | 517.0 | 515.5 | 515.5 | 514.6 | 514.9 | 515.8 | 516.7 | 517.0 | 517.0 |
| 10° | 514.9 | 516.1 | 514.2 | 511.8 | 510.9 | 509.7 | 510.0 | 510.9 | 512.7 | 513.6 | 513.6 |
| 12.5° | 515.5 | 516.4 | 514.6 | 510.9 | 510.0 | 508.8 | 508.8 | 509.7 | 512.1 | 513.3 | 513.6 |
| 15° | 517.3 | 518.2 | 515.5 | 511.5 | 510.7 | 509.7 | 509.4 | 510.7 | 513.3 | 515.5 | 515.8 |
| 17.5° | 520.6 | 521.5 | 517.3 | 511.8 | 510.7 | 510.9 | 510.7 | 511.5 | 515.8 | 519.7 | 519.7 |
| 20° | 523.7 | 524.3 | 518.5 | 511.8 | 510.7 | 510.9 | 510.7 | 512.4 | 517.9 | 523.4 | 523.7 |
| 22.5° | 524.6 | 525.2 | 519.7 | 513.9 | 513.0 | 513.3 | 513.0 | 514.9 | 520.0 | 525.5 | 525.5 |
| 25° | 524.9 | 525.8 | 521.5 | 517.0 | 518.5 | 519.1 | 518.5 | 518.8 | 522.8 | 527.6 | 527.3 |
| 27.5° | 529.4 | 530.6 | 526.6 | 522.8 | 523.7 | 523.4 | 524.3 | 525.2 | 528.2 | 533.1 | 531.9 |
| 30° | 538.8 | 539.8 | 536.4 | 532.5 | 531.9 | 529.7 | 532.5 | 535.5 | 538.8 | 543.0 | 542.2 |
| 32.5° | 554.3 | 556.2 | 551.9 | 547.7 | 544.9 | 543.7 | 545.8 | 550.9 | 555.6 | 560.1 | 558.3 |
| 35° | 580.2 | 581.4 | 577.4 | 569.5 | 564.7 | 564.7 | 566.4 | 573.2 | 580.5 | 586.2 | 584.0 |
| 37.5° | 616.5 | 618.1 | 611.1 | 601.7 | 594.4 | 594.4 | 596.9 | 603.8 | 614.7 | 622.9 | 619.9 |
| 40° | 660.9 | 663.0 | 654.2 | 644.5 | 637.4 | 636.3 | 639.3 | 647.2 | 657.5 | 667.9 | 664.5 |
| 42.5° | 714.3 | 716.7 | 705.2 | 696.7 | 691.3 | 691.3 | 692.8 | 700.1 | 709.4 | 722.2 | 721.3 |
| 45° | 782.6 | 786.9 | 771.1 | 762.6 | 757.4 | 758.6 | 759.5 | 765.9 | 774.4 | 788.9 | 788.3 |
| 47.5° | 864.0 | 868.2 | 851.5 | 842.8 | 841.8 | 847.6 | 843.9 | 848.5 | 853.0 | 869.7 | 864.9 |
| 50° | 956.2 | 963.5 | 952.0 | 951.4 | 953.2 | 963.8 | 955.3 | 957.8 | 952.6 | 963.2 | 956.8 |
| 52.5° | 1069.2 | 1079.8 | 1077.7 | 1081.3 | 1101.7 | 1123.5 | 1104.1 | 1095.6 | 1076.1 | 1079.5 | 1068.3 |
| 55° | 1206.1 | 1222.2 | 1225.2 | 1247.1 | 1293.2 | 1337.8 | 1296.5 | 1262.3 | 1221.0 | 1213.4 | 1201.5 |
| 57.5° | 1361.8 | 1374.5 | 1389.2 | 1433.8 | 1520.0 | 1599.2 | 1520.0 | 1444.1 | 1379.1 | 1363.7 | 1352.7 |
| 60° | 1529.4 | 1545.2 | 1559.1 | 1625.0 | 1753.2 | 1864.6 | 1750.7 | 1630.2 | 1544.3 | 1523.4 | 1505.1 |
| 62.5° | 1709.4 | 1729.8 | 1739.4 | 1812.6 | 1962.0 | 2094.9 | 1964.1 | 1818.0 | 1722.7 | 1700.3 | 1682.1 |
| 65° | 1882.1 | 1898.8 | 1909.8 | 1987.8 | 2130.5 | 2263.7 | 2140.2 | 1996.3 | 1898.2 | 1868.8 | 1854.2 |
| 67.5° | 1962.6 | 1971.7 | 1998.4 | 2086.7 | 2237.3 | 2389.4 | 2262.8 | 2096.1 | 1986.6 | 1935.0 | 1935.6 |
| 70° | 1844.8 | 1826.2 | 1890.6 | 2032.1 | 2250.1 | 2466.6 | 2279.2 | 2027.9 | 1893.7 | 1809.8 | 1829.9 |
| 72.5° | 1425.6 | 1393.7 | 1505.4 | 1747.3 | 2104.3 | 2417.4 | 2118.9 | 1761.1 | 1574.9 | 1405.0 | 1447.1 |
| 75° | 775.6 | 739.5 | 893.7 | 1199.8 | 1678.1 | 2095.2 | 1716.7 | 1234.0 | 995.1 | 769.9 | 819.9 |
| 77.5° | 218.8 | 205.2 | 329.6 | 580.5 | 1009.4 | 1471.1 | 1048.3 | 593.2 | 391.0 | 232.0 | 257.7 |
| 80° | 67.1 | 65.0 | 88.0 | 174.9 | 428.7 | 704.6 | 411.9 | 177.0 | 112.0 | 70.7 | 74.7 |
| 82.5° | 39.8 | 36.4 | 43.7 | 63.8 | 109.3 | 221.3 | 106.3 | 66.5 | 53.4 | 35.8 | 38.8 |
| 85° | 22.8 | 21.2 | 25.8 | 31.0 | 36.7 | 47.0 | 30.6 | 31.6 | 28.5 | 19.2 | 20.0 |
| 87.5° | 9.4 | 8.5 | 10.0 | 9.7 | 8.5 | 11.0 | 8.2 | 9.7 | 11.6 | 7.6 | 7.0 |
| 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)