

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: P883292

Luminaire Tested: **NVN-SB3C-827-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3C-827-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18461 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

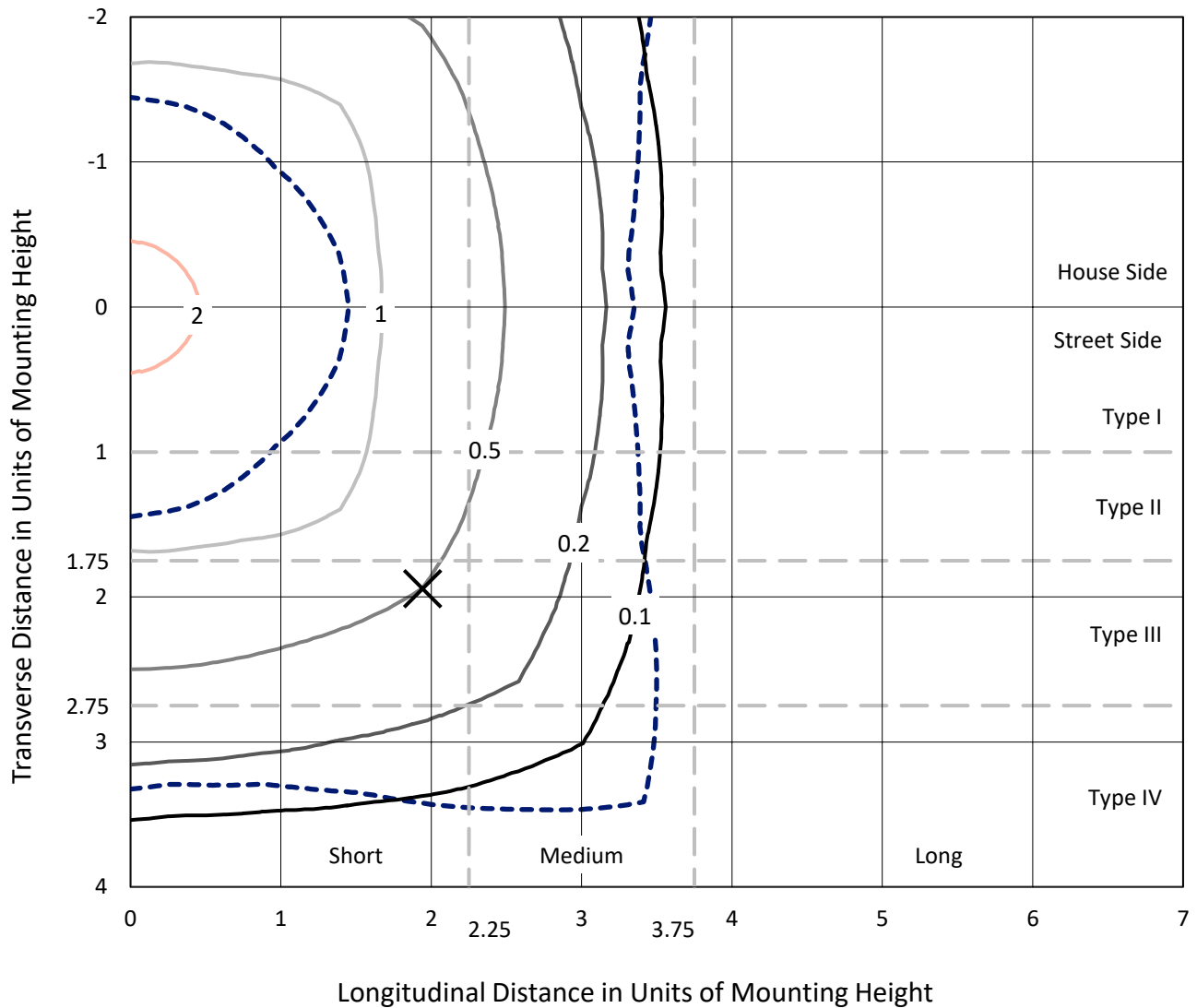
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

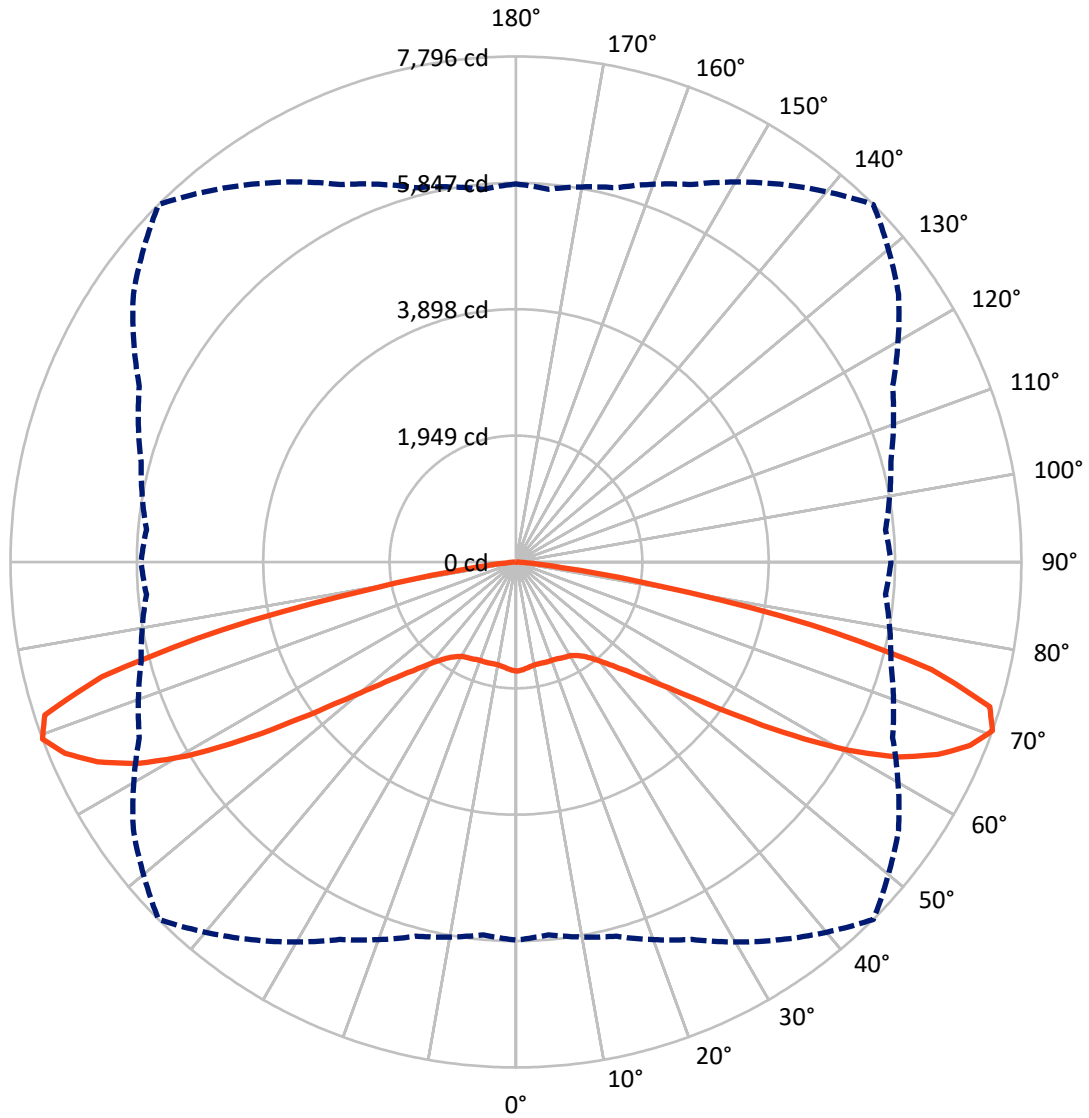
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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 | 9230.5 | 0.0 | 9230.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9230.5 | 0.0 | 9230.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18461.0 | 0.0 | 18461.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 156.7 | 0.8 |
| 10°-20° | 460.0 | 2.5 |
| 20°-30° | 765.5 | 4.1 |
| 30°-40° | 1157.6 | 6.3 |
| 40°-50° | 1923.7 | 10.4 |
| 50°-60° | 3629.9 | 19.7 |
| 60°-70° | 6129.2 | 33.2 |
| 70°-80° | 4027.5 | 21.8 |
| 80°-90° | 211.0 | 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° | 18461.0 | 100.0 |
| 0°-180° | 18461.0 | 100.0 |



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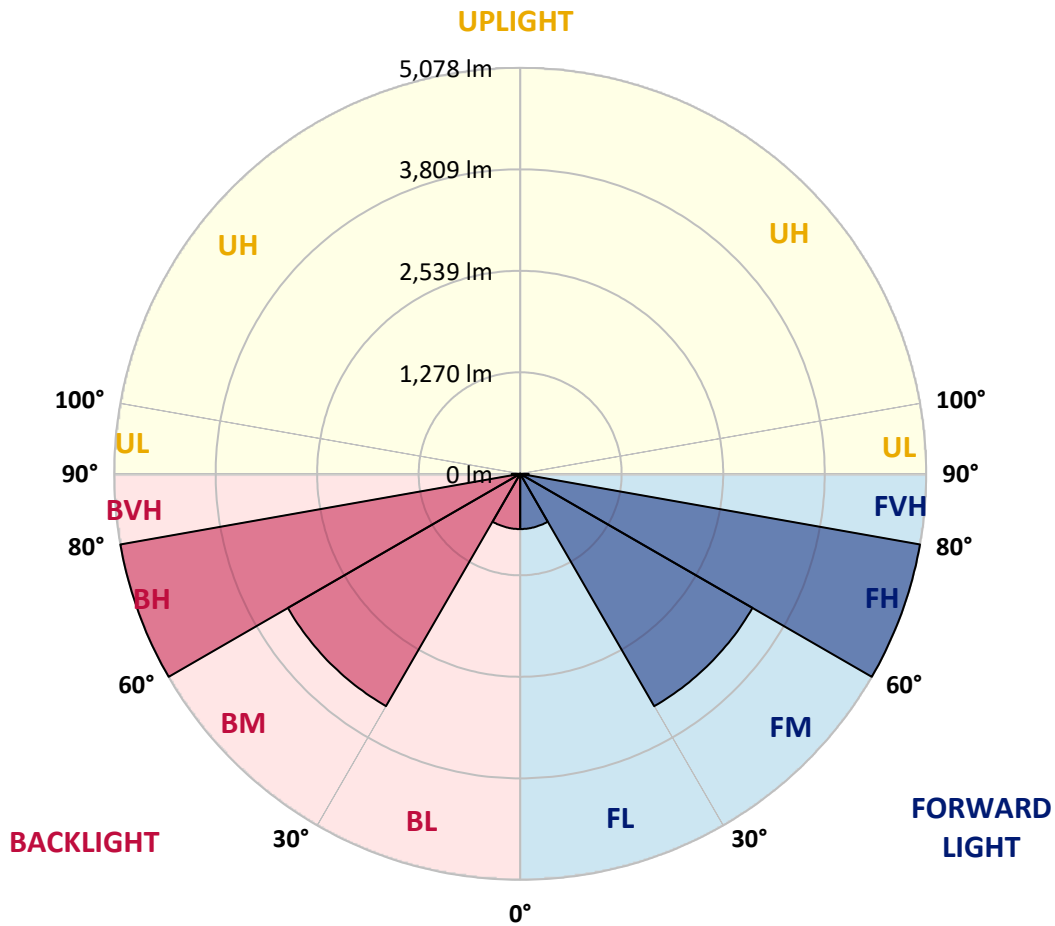
CATALOG NUMBER: NVN-SB3C-827-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 691.0 | 3.7 | | | |
| FM (30°-60°) | 3355.6 | 18.2 | | | |
| FH (60°-80°) | 5078.4 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 105.5 | 0.6 | | | G2/225 |
| BL (0°-30°) | 691.0 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 3355.6 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 5078.4 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 105.5 | 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° | 1684.0 | 1684.0 | 1684.0 | 1684.0 | 1684.0 | 1684.0 | 1684.0 | 1684.0 | 1684.0 | 1684.0 | 1684.0 |
| 2.5° | 1673.5 | 1678.3 | 1676.3 | 1672.5 | 1672.5 | 1669.6 | 1672.5 | 1674.4 | 1677.3 | 1679.2 | 1678.3 |
| 5° | 1651.4 | 1655.2 | 1654.3 | 1651.4 | 1652.3 | 1649.5 | 1651.4 | 1654.3 | 1656.2 | 1657.1 | 1657.1 |
| 7.5° | 1632.2 | 1636.0 | 1634.1 | 1629.3 | 1629.3 | 1626.4 | 1627.4 | 1630.3 | 1633.2 | 1634.1 | 1634.1 |
| 10° | 1627.4 | 1631.2 | 1625.5 | 1617.8 | 1614.9 | 1611.1 | 1612.0 | 1614.9 | 1620.7 | 1623.6 | 1623.6 |
| 12.5° | 1629.3 | 1632.2 | 1626.4 | 1614.9 | 1612.0 | 1608.2 | 1608.2 | 1611.1 | 1618.8 | 1622.6 | 1623.6 |
| 15° | 1635.1 | 1638.0 | 1629.3 | 1616.8 | 1614.0 | 1611.1 | 1610.1 | 1614.0 | 1622.6 | 1629.3 | 1630.3 |
| 17.5° | 1645.6 | 1648.5 | 1635.1 | 1617.8 | 1614.0 | 1614.9 | 1614.0 | 1616.8 | 1630.3 | 1642.8 | 1642.8 |
| 20° | 1655.2 | 1657.1 | 1638.9 | 1617.8 | 1614.0 | 1614.9 | 1614.0 | 1619.7 | 1637.0 | 1654.3 | 1655.2 |
| 22.5° | 1658.1 | 1660.0 | 1642.8 | 1624.5 | 1621.6 | 1622.6 | 1621.6 | 1627.4 | 1643.7 | 1661.0 | 1661.0 |
| 25° | 1659.1 | 1661.9 | 1648.5 | 1634.1 | 1638.9 | 1640.8 | 1638.9 | 1639.9 | 1652.3 | 1667.7 | 1666.7 |
| 27.5° | 1673.5 | 1677.3 | 1664.8 | 1652.3 | 1655.2 | 1654.3 | 1657.1 | 1660.0 | 1669.6 | 1685.0 | 1681.1 |
| 30° | 1703.2 | 1706.1 | 1695.5 | 1683.1 | 1681.1 | 1674.4 | 1683.1 | 1692.7 | 1703.2 | 1716.6 | 1713.8 |
| 32.5° | 1752.1 | 1757.9 | 1744.5 | 1731.0 | 1722.4 | 1718.6 | 1725.3 | 1741.6 | 1756.0 | 1770.4 | 1764.6 |
| 35° | 1833.7 | 1837.5 | 1825.1 | 1800.1 | 1784.8 | 1784.8 | 1790.5 | 1811.6 | 1834.7 | 1852.9 | 1846.2 |
| 37.5° | 1948.9 | 1953.6 | 1931.6 | 1901.8 | 1878.8 | 1878.8 | 1886.5 | 1908.6 | 1943.1 | 1969.0 | 1959.4 |
| 40° | 2088.9 | 2095.7 | 2067.8 | 2037.1 | 2015.1 | 2011.2 | 2020.8 | 2045.8 | 2078.4 | 2111.0 | 2100.5 |
| 42.5° | 2257.8 | 2265.5 | 2229.0 | 2202.2 | 2184.9 | 2184.9 | 2189.7 | 2212.7 | 2242.5 | 2282.8 | 2279.9 |
| 45° | 2473.7 | 2487.2 | 2437.3 | 2410.4 | 2394.1 | 2397.9 | 2400.8 | 2421.0 | 2447.8 | 2493.9 | 2492.0 |
| 47.5° | 2730.9 | 2744.3 | 2691.5 | 2663.7 | 2660.8 | 2679.1 | 2667.6 | 2681.9 | 2696.3 | 2749.1 | 2733.8 |
| 50° | 3022.6 | 3045.6 | 3009.2 | 3007.2 | 3013.0 | 3046.6 | 3019.7 | 3027.4 | 3011.1 | 3044.7 | 3024.5 |
| 52.5° | 3379.5 | 3413.1 | 3406.4 | 3417.9 | 3482.2 | 3551.3 | 3489.9 | 3463.0 | 3401.6 | 3412.2 | 3376.7 |
| 55° | 3812.3 | 3863.2 | 3872.8 | 3941.8 | 4087.7 | 4228.7 | 4098.2 | 3989.8 | 3859.3 | 3835.3 | 3797.9 |
| 57.5° | 4304.6 | 4344.9 | 4390.9 | 4532.0 | 4804.5 | 5054.9 | 4804.5 | 4564.6 | 4359.2 | 4310.3 | 4275.8 |
| 60° | 4834.2 | 4884.1 | 4928.3 | 5136.5 | 5541.4 | 5893.6 | 5533.7 | 5152.8 | 4881.2 | 4815.0 | 4757.5 |
| 62.5° | 5403.2 | 5467.5 | 5498.2 | 5729.5 | 6201.6 | 6621.9 | 6208.3 | 5746.8 | 5445.5 | 5374.5 | 5316.9 |
| 65° | 5949.2 | 6002.0 | 6036.5 | 6283.2 | 6734.1 | 7155.4 | 6764.8 | 6310.0 | 6000.1 | 5907.0 | 5860.9 |
| 67.5° | 6203.5 | 6232.3 | 6316.7 | 6596.0 | 7071.9 | 7552.6 | 7152.5 | 6625.7 | 6279.3 | 6116.2 | 6118.1 |
| 70° | 5831.2 | 5772.7 | 5976.1 | 6423.2 | 7112.2 | 7796.4 | 7204.3 | 6409.8 | 5985.7 | 5720.9 | 5784.2 |
| 72.5° | 4506.1 | 4405.3 | 4758.4 | 5523.2 | 6651.6 | 7640.9 | 6697.7 | 5566.4 | 4978.2 | 4440.8 | 4574.2 |
| 75° | 2451.7 | 2337.5 | 2824.9 | 3792.2 | 5304.4 | 6622.8 | 5426.3 | 3900.6 | 3145.4 | 2433.4 | 2591.8 |
| 77.5° | 691.8 | 648.7 | 1042.1 | 1834.7 | 3190.5 | 4650.0 | 3313.3 | 1875.0 | 1235.9 | 733.1 | 814.7 |
| 80° | 212.1 | 205.3 | 278.3 | 552.7 | 1354.9 | 2227.1 | 1302.1 | 559.4 | 354.1 | 223.6 | 236.0 |
| 82.5° | 125.7 | 115.1 | 138.2 | 201.5 | 345.4 | 699.5 | 335.8 | 210.1 | 168.9 | 113.2 | 122.8 |
| 85° | 72.0 | 67.2 | 81.6 | 97.9 | 116.1 | 148.7 | 96.9 | 99.8 | 90.2 | 60.5 | 63.3 |
| 87.5° | 29.7 | 26.9 | 31.7 | 30.7 | 26.9 | 34.5 | 25.9 | 30.7 | 36.5 | 24.0 | 22.1 |
| 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)