

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: P883302

Luminaire Tested: **NVN-SB3C-830-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883302
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-830-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 19882 lumens
Efficiency: N/A
Efficacy: 133.3 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

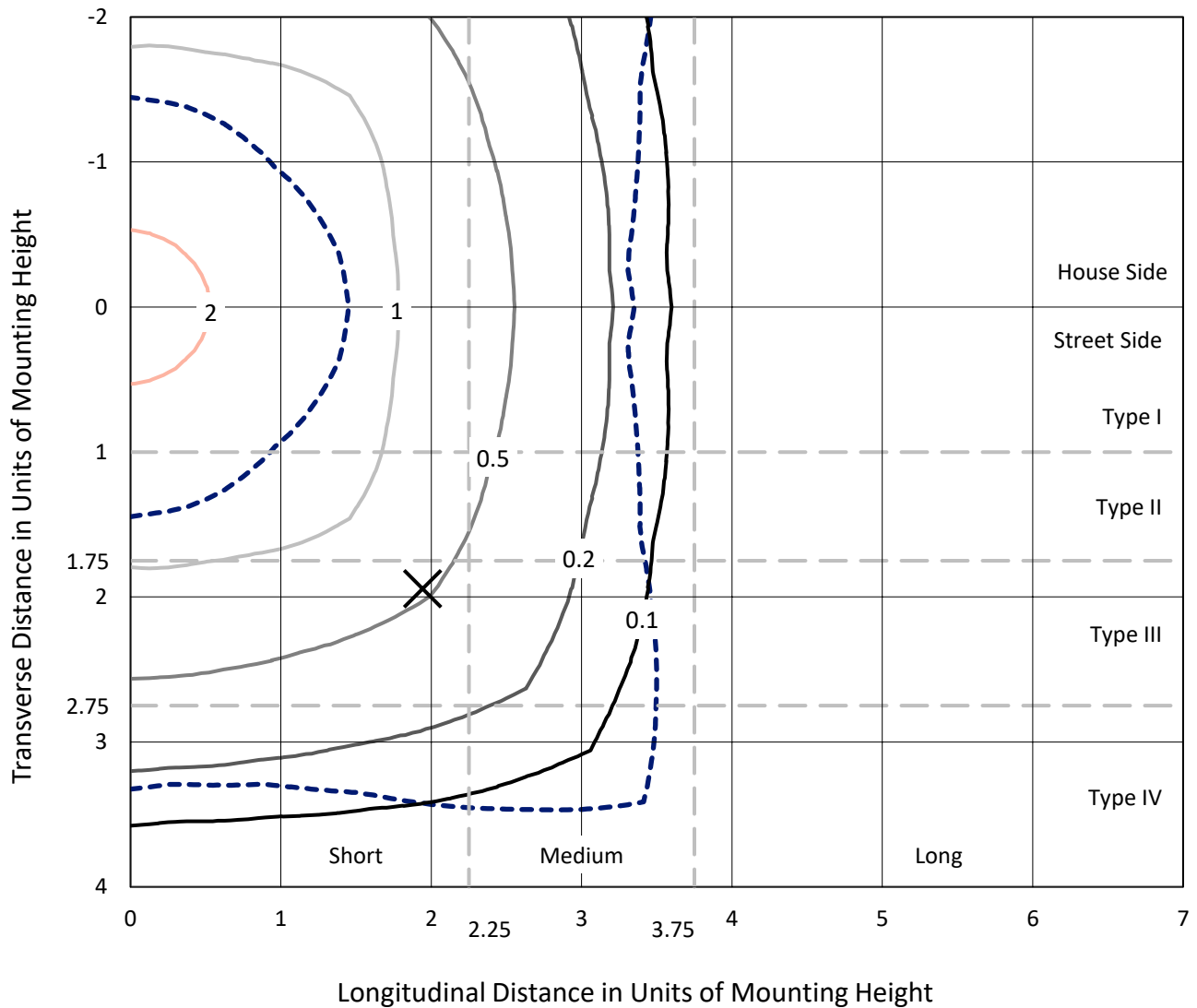
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

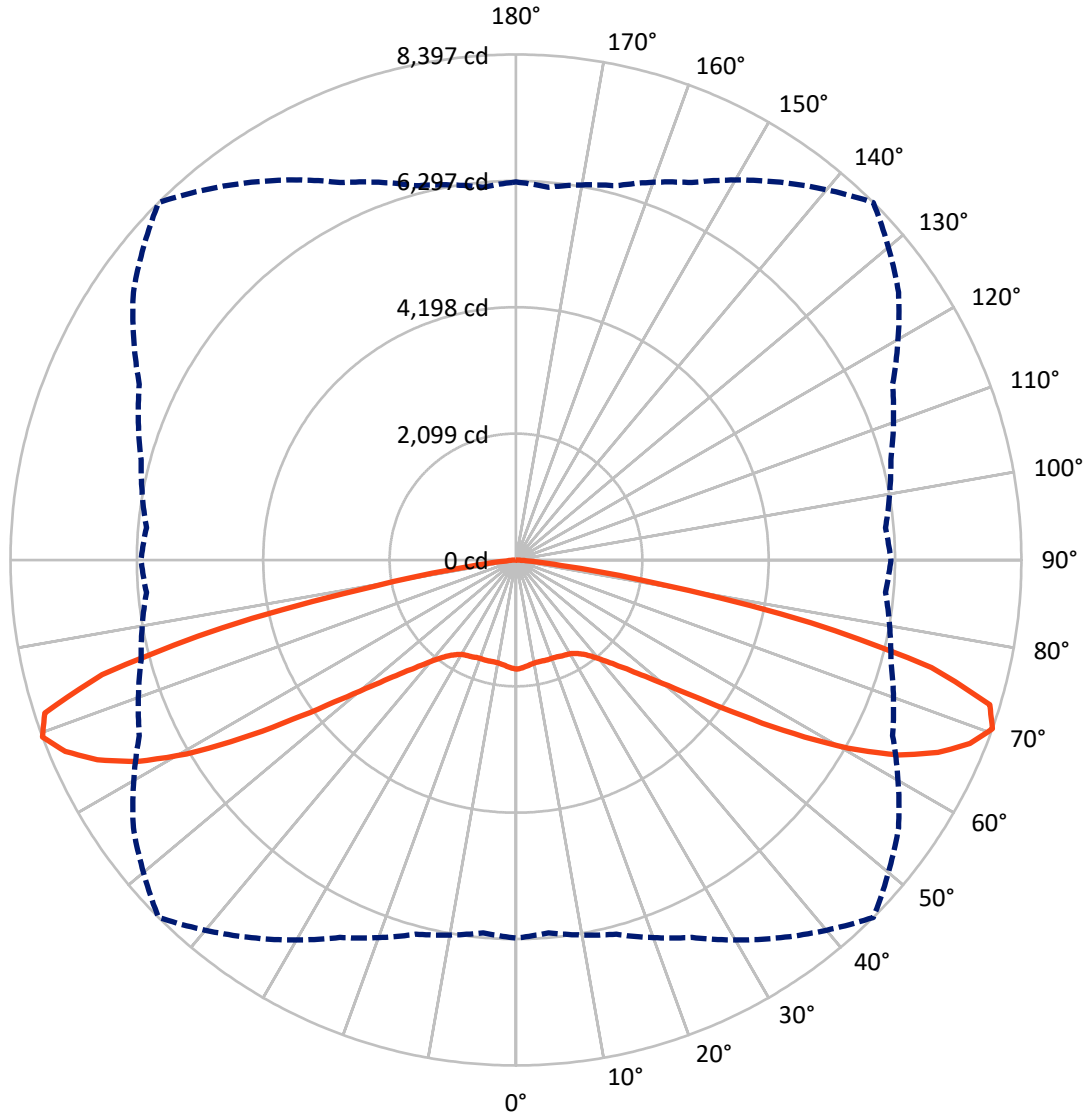
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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 | 9941.0 | 0.0 | 9941.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9941.0 | 0.0 | 9941.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19882.0 | 0.0 | 19882.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 168.7 | 0.8 |
| 10°-20° | 495.4 | 2.5 |
| 20°-30° | 824.4 | 4.1 |
| 30°-40° | 1246.7 | 6.3 |
| 40°-50° | 2071.7 | 10.4 |
| 50°-60° | 3909.3 | 19.7 |
| 60°-70° | 6601.0 | 33.2 |
| 70°-80° | 4337.5 | 21.8 |
| 80°-90° | 227.2 | 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° | 19882.0 | 100.0 |
| 0°-180° | 19882.0 | 100.0 |



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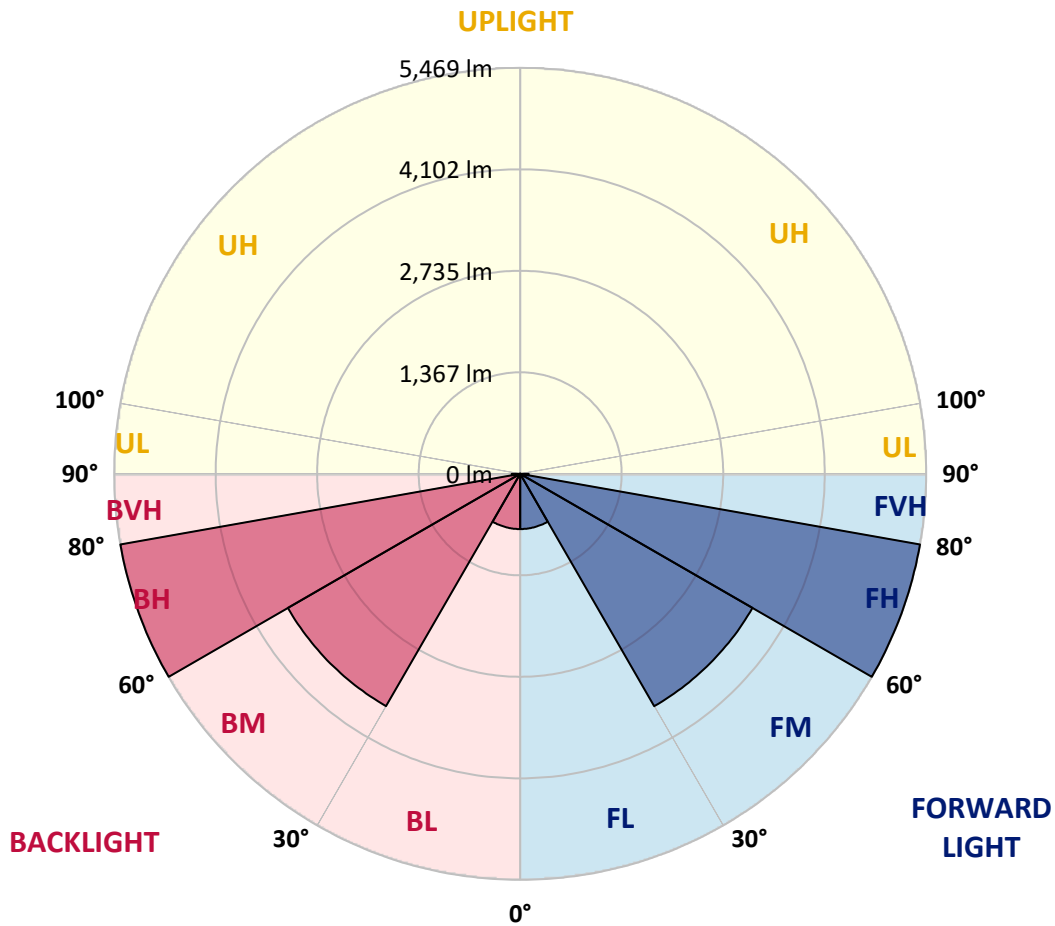
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 744.2 | 3.7 | | | |
| FM (30°-60°) | 3613.9 | 18.2 | | | |
| FH (60°-80°) | 5469.3 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 113.6 | 0.6 | | | G2/225 |
| BL (0°-30°) | 744.2 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 3613.9 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 5469.3 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 113.6 | 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° | 1813.6 | 1813.6 | 1813.6 | 1813.6 | 1813.6 | 1813.6 | 1813.6 | 1813.6 | 1813.6 | 1813.6 | 1813.6 |
| 2.5° | 1802.3 | 1807.4 | 1805.4 | 1801.2 | 1801.2 | 1798.1 | 1801.2 | 1803.3 | 1806.4 | 1808.5 | 1807.4 |
| 5° | 1778.5 | 1782.6 | 1781.6 | 1778.5 | 1779.5 | 1776.4 | 1778.5 | 1781.6 | 1783.7 | 1784.7 | 1784.7 |
| 7.5° | 1757.8 | 1762.0 | 1759.9 | 1754.7 | 1754.7 | 1751.6 | 1752.7 | 1755.8 | 1758.9 | 1759.9 | 1759.9 |
| 10° | 1752.7 | 1756.8 | 1750.6 | 1742.3 | 1739.2 | 1735.1 | 1736.1 | 1739.2 | 1745.4 | 1748.5 | 1748.5 |
| 12.5° | 1754.7 | 1757.8 | 1751.6 | 1739.2 | 1736.1 | 1732.0 | 1732.0 | 1735.1 | 1743.4 | 1747.5 | 1748.5 |
| 15° | 1760.9 | 1764.0 | 1754.7 | 1741.3 | 1738.2 | 1735.1 | 1734.1 | 1738.2 | 1747.5 | 1754.7 | 1755.8 |
| 17.5° | 1772.3 | 1775.4 | 1760.9 | 1742.3 | 1738.2 | 1739.2 | 1738.2 | 1741.3 | 1755.8 | 1769.2 | 1769.2 |
| 20° | 1782.6 | 1784.7 | 1765.1 | 1742.3 | 1738.2 | 1739.2 | 1738.2 | 1744.4 | 1763.0 | 1781.6 | 1782.6 |
| 22.5° | 1785.7 | 1787.8 | 1769.2 | 1749.6 | 1746.5 | 1747.5 | 1746.5 | 1752.7 | 1770.2 | 1788.8 | 1788.8 |
| 25° | 1786.8 | 1789.9 | 1775.4 | 1759.9 | 1765.1 | 1767.1 | 1765.1 | 1766.1 | 1779.5 | 1796.1 | 1795.0 |
| 27.5° | 1802.3 | 1806.4 | 1793.0 | 1779.5 | 1782.6 | 1781.6 | 1784.7 | 1787.8 | 1798.1 | 1814.7 | 1810.5 |
| 30° | 1834.3 | 1837.4 | 1826.0 | 1812.6 | 1810.5 | 1803.3 | 1812.6 | 1822.9 | 1834.3 | 1848.8 | 1845.7 |
| 32.5° | 1887.0 | 1893.2 | 1878.7 | 1864.3 | 1855.0 | 1850.8 | 1858.1 | 1875.6 | 1891.1 | 1906.6 | 1900.4 |
| 35° | 1974.9 | 1979.0 | 1965.6 | 1938.7 | 1922.1 | 1922.1 | 1928.3 | 1951.1 | 1975.9 | 1995.5 | 1988.3 |
| 37.5° | 2098.9 | 2104.0 | 2080.3 | 2048.2 | 2023.4 | 2023.4 | 2031.7 | 2055.5 | 2092.7 | 2120.6 | 2110.2 |
| 40° | 2249.7 | 2257.0 | 2227.0 | 2193.9 | 2170.2 | 2166.0 | 2176.4 | 2203.2 | 2238.4 | 2273.5 | 2262.1 |
| 42.5° | 2431.6 | 2439.9 | 2400.6 | 2371.7 | 2353.1 | 2353.1 | 2358.2 | 2383.0 | 2415.1 | 2458.5 | 2455.4 |
| 45° | 2664.1 | 2678.6 | 2624.9 | 2595.9 | 2578.4 | 2582.5 | 2585.6 | 2607.3 | 2636.2 | 2685.8 | 2683.8 |
| 47.5° | 2941.1 | 2955.6 | 2898.7 | 2868.8 | 2865.7 | 2885.3 | 2872.9 | 2888.4 | 2903.9 | 2960.7 | 2944.2 |
| 50° | 3255.2 | 3280.1 | 3240.8 | 3238.7 | 3244.9 | 3281.1 | 3252.1 | 3260.4 | 3242.8 | 3279.0 | 3257.3 |
| 52.5° | 3639.7 | 3675.8 | 3668.6 | 3681.0 | 3750.3 | 3824.7 | 3758.5 | 3729.6 | 3663.4 | 3674.8 | 3636.6 |
| 55° | 4105.7 | 4160.5 | 4170.9 | 4245.3 | 4402.3 | 4554.2 | 4413.7 | 4296.9 | 4156.4 | 4130.5 | 4090.2 |
| 57.5° | 4635.9 | 4679.3 | 4728.9 | 4880.8 | 5174.3 | 5444.0 | 5174.3 | 4915.9 | 4694.8 | 4642.1 | 4604.9 |
| 60° | 5206.3 | 5260.1 | 5307.6 | 5531.9 | 5968.0 | 6347.2 | 5959.7 | 5549.4 | 5257.0 | 5185.7 | 5123.7 |
| 62.5° | 5819.1 | 5888.4 | 5921.5 | 6170.5 | 6678.9 | 7131.6 | 6686.2 | 6189.1 | 5864.6 | 5788.1 | 5726.1 |
| 65° | 6407.2 | 6464.0 | 6501.2 | 6766.8 | 7252.5 | 7706.2 | 7285.6 | 6795.7 | 6461.9 | 6361.7 | 6312.1 |
| 67.5° | 6681.0 | 6712.0 | 6803.0 | 7103.7 | 7616.2 | 8134.0 | 7703.1 | 7135.7 | 6762.7 | 6587.0 | 6589.0 |
| 70° | 6280.0 | 6217.0 | 6436.1 | 6917.7 | 7659.7 | 8396.5 | 7758.9 | 6903.2 | 6446.4 | 6161.2 | 6229.4 |
| 72.5° | 4852.9 | 4744.4 | 5124.7 | 5948.3 | 7163.6 | 8229.1 | 7213.2 | 5994.8 | 5361.3 | 4782.6 | 4926.3 |
| 75° | 2640.4 | 2517.4 | 3042.4 | 4084.0 | 5712.7 | 7132.6 | 5843.9 | 4200.8 | 3387.5 | 2620.7 | 2791.2 |
| 77.5° | 745.1 | 698.6 | 1122.3 | 1975.9 | 3436.1 | 5007.9 | 3568.4 | 2019.3 | 1331.0 | 789.5 | 877.4 |
| 80° | 228.4 | 221.2 | 299.7 | 595.2 | 1459.2 | 2398.6 | 1402.3 | 602.5 | 381.3 | 240.8 | 254.2 |
| 82.5° | 135.4 | 124.0 | 148.8 | 217.0 | 372.0 | 753.4 | 361.7 | 226.3 | 181.9 | 121.9 | 132.3 |
| 85° | 77.5 | 72.3 | 87.8 | 105.4 | 125.0 | 160.2 | 104.4 | 107.5 | 97.1 | 65.1 | 68.2 |
| 87.5° | 32.0 | 28.9 | 34.1 | 33.1 | 28.9 | 37.2 | 27.9 | 33.1 | 39.3 | 25.8 | 23.8 |
| 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)