

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: P971401

Luminaire Tested: **NVN-SB6D-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6D-735-U-5MQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66239.6 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

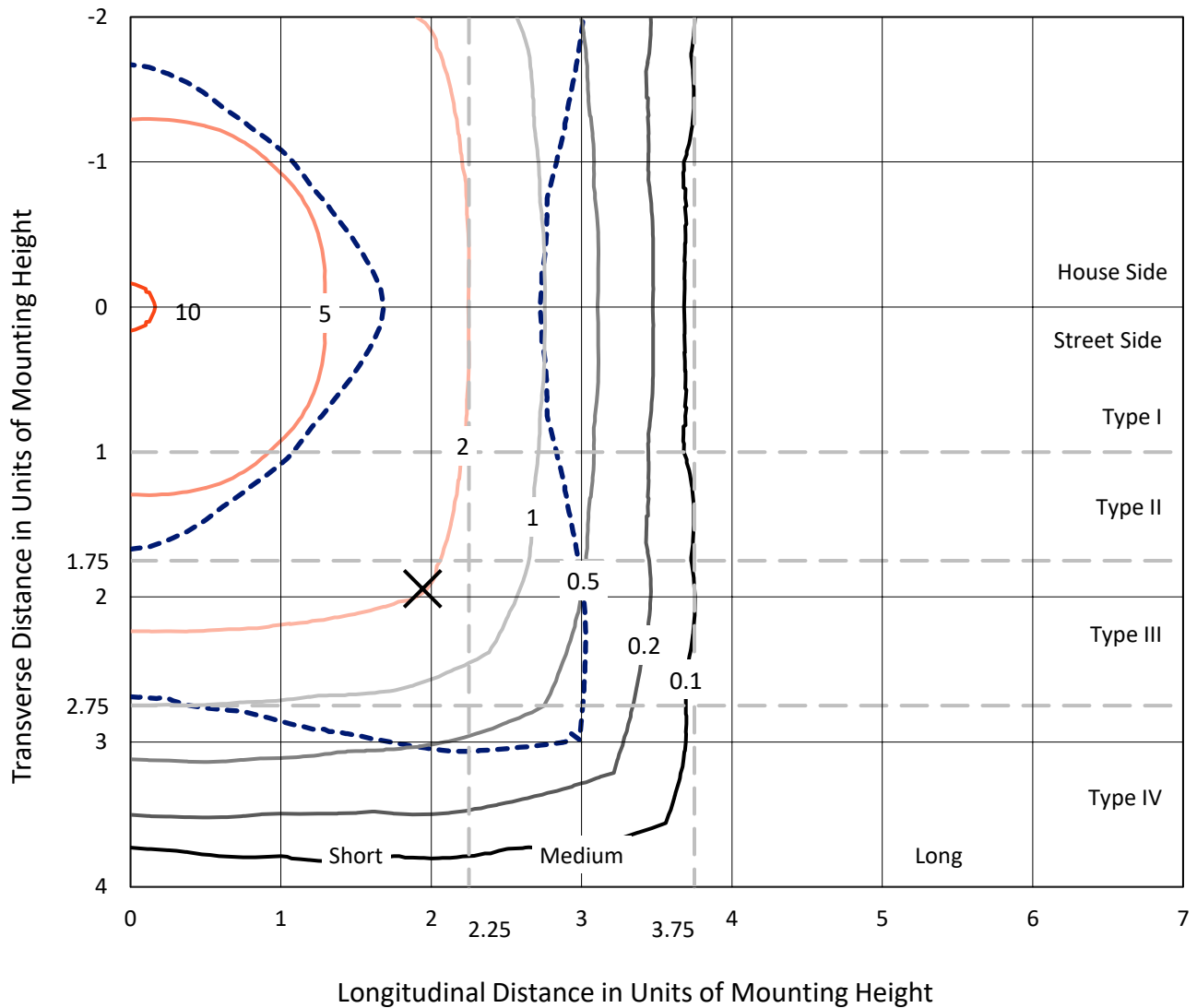
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P971401
 CATALOG NUMBER: NVN-SB6D-735-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

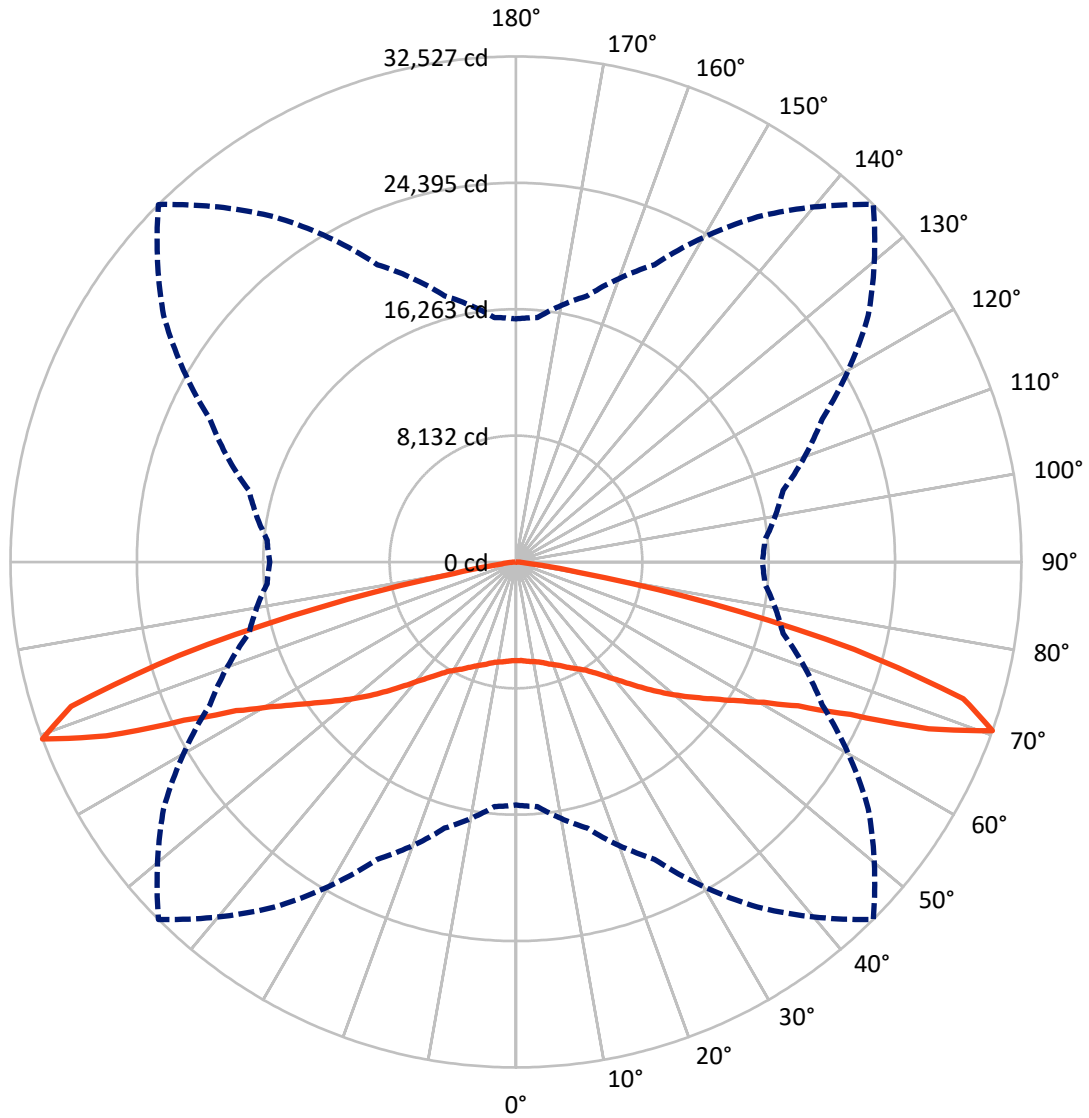
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type V - Short - N/A

REPORT NUMBER: P971401
CATALOG NUMBER: NVN-SB6D-735-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P971401
 CATALOG NUMBER: NVN-SB6D-735-U-5MQ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 33119.8 | 0.0 | 33119.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 33119.8 | 0.0 | 33119.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 66239.6 | 0.0 | 66239.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 616.4 | 0.9 |
| 10°-20° | 1911.5 | 2.9 |
| 20°-30° | 3416.0 | 5.2 |
| 30°-40° | 5537.3 | 8.4 |
| 40°-50° | 9019.3 | 13.6 |
| 50°-60° | 13751.4 | 20.8 |
| 60°-70° | 20457.8 | 30.9 |
| 70°-80° | 11150.2 | 16.8 |
| 80°-90° | 379.7 | 0.6 |
| 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° | 66239.6 | 100.0 |
| 0°-180° | 66239.6 | 100.0 |

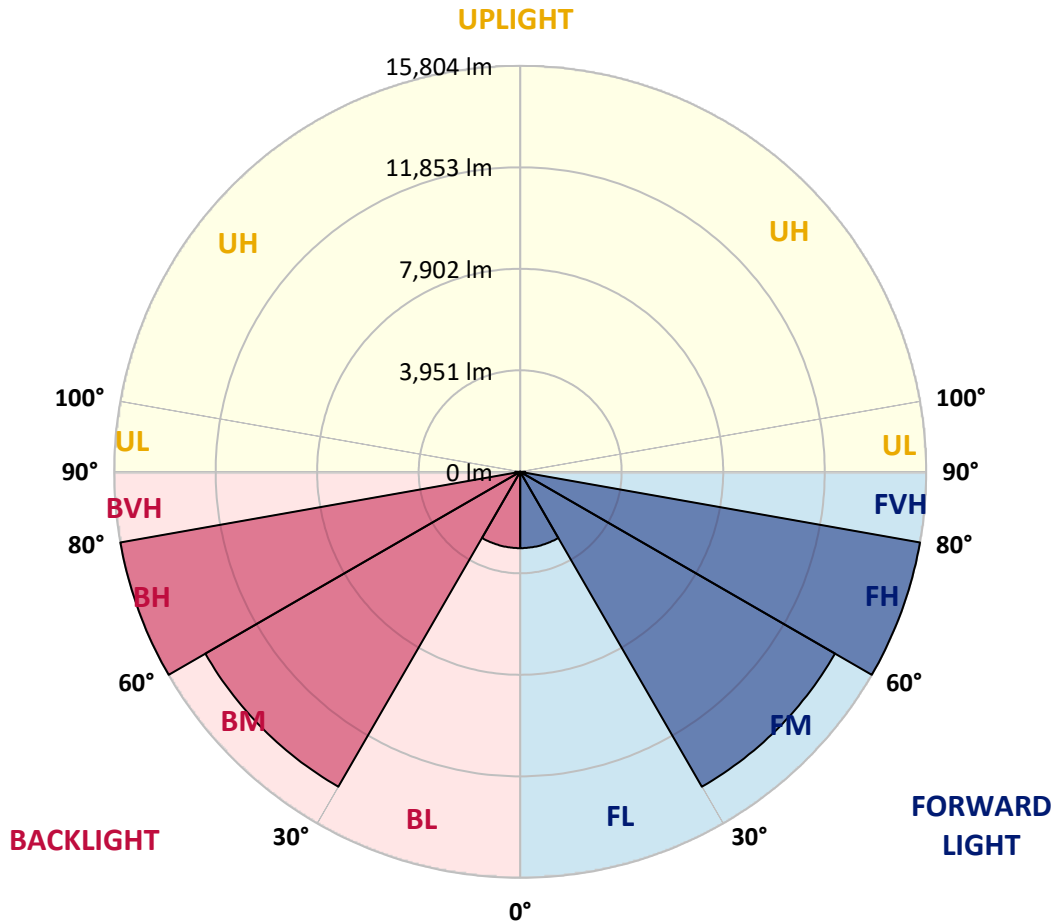


REPORT NUMBER: P971401
 CATALOG NUMBER: NVN-SB6D-735-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2971.9 | 4.5 | | | |
| FM (30°-60°) | 14154.0 | 21.4 | | | |
| FH (60°-80°) | 15804.0 | 23.9 | | | G5 |
| FVH (80°-90°) | 189.9 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2971.9 | 4.5 | B4/5000 | | |
| BM (30°-60°) | 14154.0 | 21.4 | B5 | | |
| BH (60°-80°) | 15804.0 | 23.9 | B5 | | G5 |
| BVH (80°-90°) | 189.9 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type V Short



REPORT NUMBER: P971401
 CATALOG NUMBER: NVN-SB6D-735-U-5MQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6345.1 | 6345.1 | 6345.1 | 6345.1 | 6345.1 | 6345.1 | 6345.1 | 6345.1 | 6345.1 | 6345.1 | 6345.1 |
| 2.5° | 6375.0 | 6381.6 | 6368.3 | 6361.7 | 6355.0 | 6345.1 | 6348.4 | 6365.0 | 6378.4 | 6375.0 | 6378.4 |
| 5° | 6428.2 | 6434.8 | 6424.9 | 6421.5 | 6408.3 | 6404.9 | 6404.9 | 6421.5 | 6431.6 | 6424.9 | 6428.2 |
| 7.5° | 6488.0 | 6498.1 | 6481.4 | 6478.1 | 6471.4 | 6464.8 | 6461.5 | 6478.1 | 6488.0 | 6488.0 | 6488.0 |
| 10° | 6544.6 | 6554.6 | 6541.2 | 6531.3 | 6524.6 | 6524.6 | 6518.0 | 6531.3 | 6547.9 | 6544.6 | 6544.6 |
| 12.5° | 6604.5 | 6611.1 | 6597.8 | 6591.2 | 6591.2 | 6601.1 | 6591.2 | 6597.8 | 6611.1 | 6604.5 | 6601.1 |
| 15° | 6677.7 | 6681.0 | 6677.7 | 6687.6 | 6704.2 | 6737.4 | 6707.5 | 6700.9 | 6707.5 | 6690.9 | 6690.9 |
| 17.5° | 6777.4 | 6784.1 | 6797.3 | 6820.7 | 6843.9 | 6903.8 | 6850.6 | 6833.9 | 6833.9 | 6800.7 | 6800.7 |
| 20° | 6900.4 | 6910.4 | 6930.3 | 6970.3 | 7000.2 | 7056.7 | 7003.5 | 6980.2 | 6970.3 | 6927.1 | 6927.1 |
| 22.5° | 7030.2 | 7046.8 | 7076.7 | 7129.9 | 7183.1 | 7236.3 | 7183.1 | 7143.2 | 7113.3 | 7056.7 | 7053.4 |
| 25° | 7179.8 | 7199.7 | 7246.2 | 7332.7 | 7405.9 | 7482.4 | 7419.3 | 7339.4 | 7279.6 | 7199.7 | 7196.4 |
| 27.5° | 7392.6 | 7415.9 | 7472.5 | 7578.8 | 7671.9 | 7738.4 | 7678.6 | 7575.5 | 7492.3 | 7395.9 | 7392.6 |
| 30° | 7691.9 | 7715.2 | 7781.7 | 7894.8 | 7957.9 | 8001.2 | 7961.3 | 7881.4 | 7781.7 | 7671.9 | 7671.9 |
| 32.5° | 8077.6 | 8107.5 | 8180.7 | 8287.1 | 8300.4 | 8307.1 | 8293.8 | 8253.9 | 8180.7 | 8047.7 | 8051.1 |
| 35° | 8566.5 | 8599.8 | 8682.9 | 8769.4 | 8756.1 | 8769.4 | 8749.4 | 8736.1 | 8682.9 | 8529.9 | 8529.9 |
| 37.5° | 9165.1 | 9205.0 | 9291.4 | 9357.9 | 9324.7 | 9308.1 | 9311.4 | 9314.8 | 9284.9 | 9115.2 | 9115.2 |
| 40° | 9860.1 | 9913.3 | 9976.5 | 10046.3 | 9989.9 | 9939.9 | 9973.1 | 9999.8 | 9973.1 | 9800.2 | 9800.2 |
| 42.5° | 10575.1 | 10651.6 | 10718.1 | 10817.8 | 10771.3 | 10708.2 | 10754.7 | 10784.6 | 10728.1 | 10541.8 | 10555.1 |
| 45° | 11369.9 | 11443.1 | 11529.5 | 11679.2 | 11645.9 | 11579.4 | 11645.9 | 11652.6 | 11556.2 | 11336.7 | 11360.0 |
| 47.5° | 12191.3 | 12267.8 | 12397.5 | 12597.0 | 12583.7 | 12510.5 | 12597.0 | 12550.5 | 12427.4 | 12164.7 | 12148.1 |
| 50° | 12969.5 | 13075.9 | 13275.4 | 13554.8 | 13581.4 | 13491.6 | 13608.0 | 13518.2 | 13312.0 | 12982.8 | 12976.1 |
| 52.5° | 13701.1 | 13814.1 | 14130.0 | 14509.2 | 14605.6 | 14489.2 | 14645.5 | 14489.2 | 14180.0 | 13757.7 | 13717.7 |
| 55° | 14469.3 | 14595.7 | 14971.5 | 15466.9 | 15659.8 | 15573.3 | 15719.7 | 15483.5 | 15044.6 | 14532.4 | 14462.6 |
| 57.5° | 15373.8 | 15450.3 | 15899.3 | 16487.8 | 16813.8 | 16833.7 | 16900.2 | 16501.2 | 15969.1 | 15387.1 | 15307.4 |
| 60° | 16354.8 | 16461.3 | 16950.1 | 17655.1 | 18170.6 | 18336.8 | 18267.0 | 17675.1 | 17056.5 | 16388.1 | 16281.7 |
| 62.5° | 17611.9 | 17728.3 | 18313.6 | 19158.3 | 19973.0 | 20385.4 | 20112.7 | 19254.7 | 18489.8 | 17688.4 | 17548.7 |
| 65° | 18652.7 | 18782.5 | 19840.0 | 21346.4 | 22829.6 | 23657.6 | 22972.6 | 21393.0 | 20016.2 | 18885.5 | 18699.3 |
| 67.5° | 17897.8 | 18057.5 | 19716.9 | 22483.8 | 26171.7 | 28642.6 | 26298.1 | 22823.0 | 20126.0 | 18592.9 | 18363.5 |
| 70° | 15643.1 | 15792.8 | 17728.3 | 21110.3 | 27112.9 | 32526.8 | 27678.2 | 21732.2 | 17791.4 | 16075.5 | 15846.1 |
| 72.5° | 10385.6 | 10867.8 | 12826.4 | 16883.6 | 24209.7 | 30099.1 | 24449.1 | 16541.0 | 11898.7 | 10362.2 | 10026.4 |
| 75° | 3445.2 | 3830.9 | 5167.8 | 8752.8 | 16215.2 | 22510.3 | 15437.0 | 7745.1 | 4093.7 | 2946.4 | 2786.8 |
| 77.5° | 868.0 | 1001.0 | 1380.1 | 2504.1 | 6468.2 | 12816.5 | 5822.9 | 2045.2 | 1114.1 | 778.2 | 695.1 |
| 80° | 422.3 | 465.6 | 665.1 | 834.7 | 1619.5 | 4073.8 | 1519.8 | 784.8 | 525.4 | 405.7 | 372.5 |
| 82.5° | 232.8 | 236.2 | 375.8 | 472.2 | 601.9 | 1054.2 | 625.1 | 458.9 | 302.6 | 246.1 | 246.1 |
| 85° | 143.0 | 139.7 | 199.6 | 252.8 | 252.8 | 375.8 | 299.3 | 252.8 | 172.9 | 152.9 | 159.6 |
| 87.5° | 56.6 | 56.6 | 73.2 | 79.8 | 69.8 | 96.5 | 76.5 | 83.1 | 66.5 | 63.1 | 66.5 |
| 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)