

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: P884432

Luminaire Tested: **NVN-SB5B-730-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884432
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-SB5B-730-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28451 lumens
Efficiency: N/A
Efficacy: 155.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

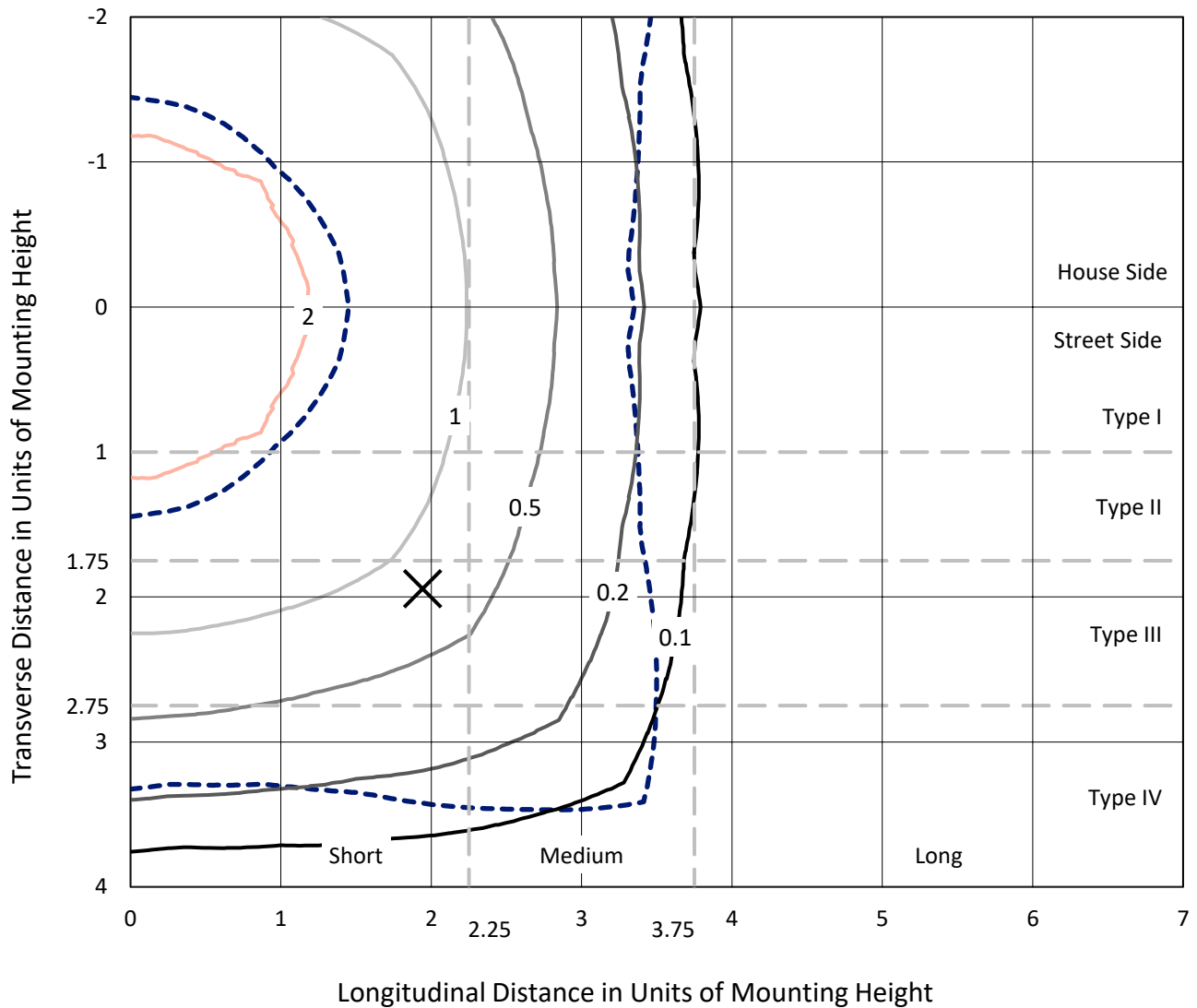
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

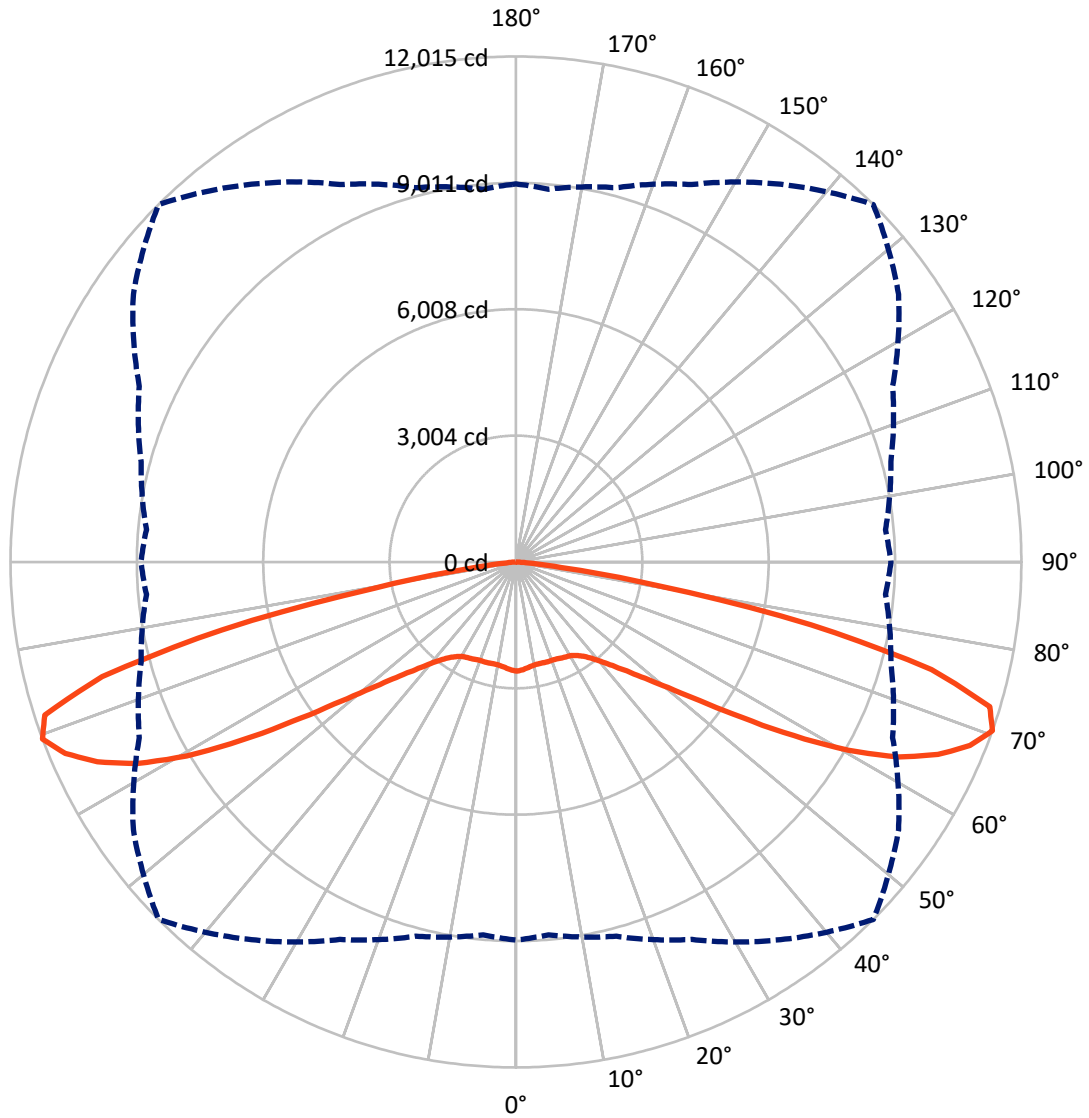
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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 | 14225.5 | 0.0 | 14225.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14225.5 | 0.0 | 14225.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 28451.0 | 0.0 | 28451.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 241.4 | 0.8 |
| 10°-20° | 708.9 | 2.5 |
| 20°-30° | 1179.7 | 4.1 |
| 30°-40° | 1784.0 | 6.3 |
| 40°-50° | 2964.6 | 10.4 |
| 50°-60° | 5594.2 | 19.7 |
| 60°-70° | 9446.0 | 33.2 |
| 70°-80° | 6207.0 | 21.8 |
| 80°-90° | 325.2 | 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° | 28451.0 | 100.0 |
| 0°-180° | 28451.0 | 100.0 |

Coefficient of Utilization



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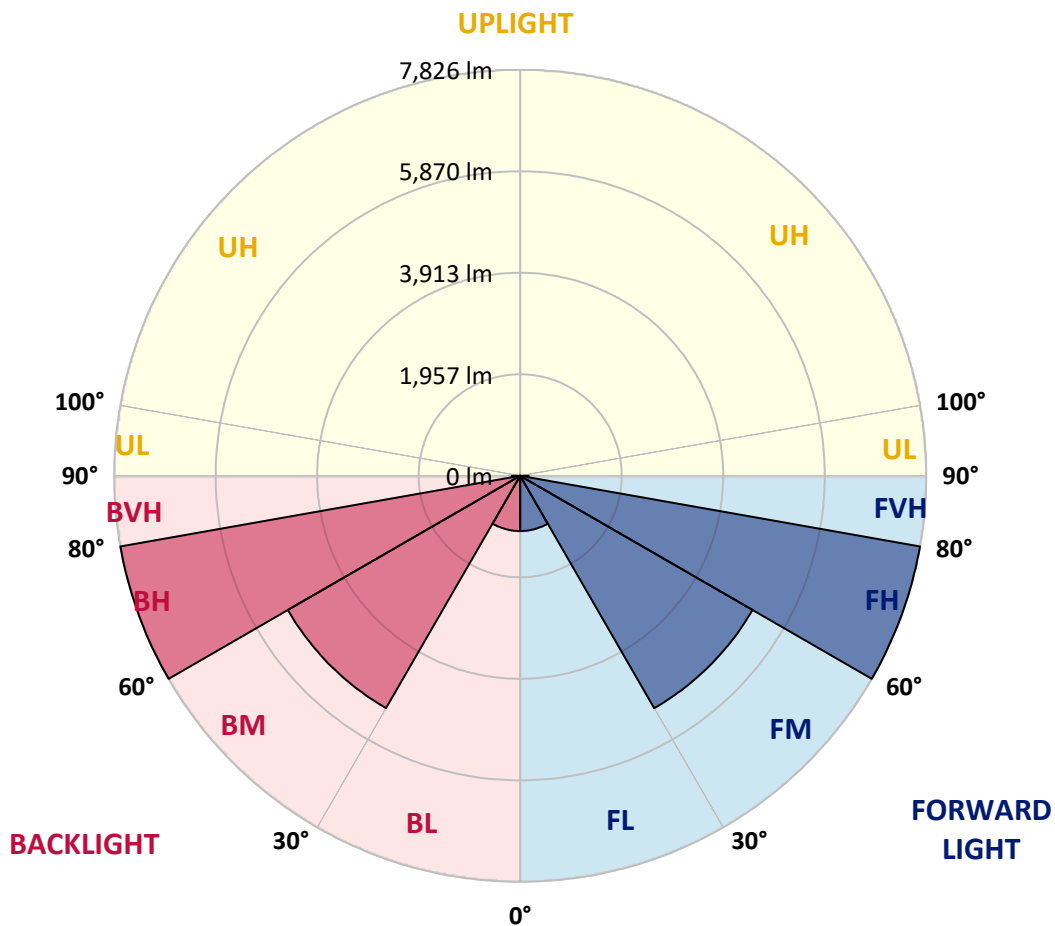
CATALOG NUMBER: NVN-SB5B-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1065.0 | 3.7 | | | |
| FM (30°-60°) | 5171.4 | 18.2 | | | |
| FH (60°-80°) | 7826.5 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 162.6 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1065.0 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 5171.4 | 18.2 | B4/8500 | | |
| BH (60°-80°) | 7826.5 | 27.5 | B5 | | G4/12000 |
| BVH (80°-90°) | 162.6 | 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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 2595.3 | 2595.3 | 2595.3 | 2595.3 | 2595.3 | 2595.3 | 2595.3 | 2595.3 | 2595.3 | 2595.3 | 2595.3 |
| 2.5° | 2579.0 | 2586.4 | 2583.5 | 2577.6 | 2577.6 | 2573.1 | 2577.6 | 2580.5 | 2585.0 | 2587.9 | 2586.4 |
| 5° | 2545.0 | 2550.9 | 2549.5 | 2545.0 | 2546.5 | 2542.1 | 2545.0 | 2549.5 | 2552.4 | 2553.9 | 2553.9 |
| 7.5° | 2515.4 | 2521.4 | 2518.4 | 2511.0 | 2511.0 | 2506.6 | 2508.1 | 2512.5 | 2516.9 | 2518.4 | 2518.4 |
| 10° | 2508.1 | 2514.0 | 2505.1 | 2493.3 | 2488.8 | 2482.9 | 2484.4 | 2488.8 | 2497.7 | 2502.1 | 2502.1 |
| 12.5° | 2511.0 | 2515.4 | 2506.6 | 2488.8 | 2484.4 | 2478.5 | 2478.5 | 2482.9 | 2494.7 | 2500.7 | 2502.1 |
| 15° | 2519.9 | 2524.3 | 2511.0 | 2491.8 | 2487.4 | 2482.9 | 2481.4 | 2487.4 | 2500.7 | 2511.0 | 2512.5 |
| 17.5° | 2536.2 | 2540.6 | 2519.9 | 2493.3 | 2487.4 | 2488.8 | 2487.4 | 2491.8 | 2512.5 | 2531.7 | 2531.7 |
| 20° | 2550.9 | 2553.9 | 2525.8 | 2493.3 | 2487.4 | 2488.8 | 2487.4 | 2496.2 | 2522.8 | 2549.5 | 2550.9 |
| 22.5° | 2555.4 | 2558.3 | 2531.7 | 2503.6 | 2499.2 | 2500.7 | 2499.2 | 2508.1 | 2533.2 | 2559.8 | 2559.8 |
| 25° | 2556.9 | 2561.3 | 2540.6 | 2518.4 | 2525.8 | 2528.8 | 2525.8 | 2527.3 | 2546.5 | 2570.2 | 2568.7 |
| 27.5° | 2579.0 | 2585.0 | 2565.7 | 2546.5 | 2550.9 | 2549.5 | 2553.9 | 2558.3 | 2573.1 | 2596.8 | 2590.9 |
| 30° | 2624.9 | 2629.3 | 2613.0 | 2593.8 | 2590.9 | 2580.5 | 2593.8 | 2608.6 | 2624.9 | 2645.6 | 2641.1 |
| 32.5° | 2700.3 | 2709.2 | 2688.5 | 2667.8 | 2654.5 | 2648.5 | 2658.9 | 2684.0 | 2706.2 | 2728.4 | 2719.5 |
| 35° | 2826.0 | 2831.9 | 2812.7 | 2774.2 | 2750.6 | 2750.6 | 2759.5 | 2792.0 | 2827.5 | 2855.6 | 2845.2 |
| 37.5° | 3003.5 | 3010.8 | 2976.8 | 2931.0 | 2895.5 | 2895.5 | 2907.3 | 2941.3 | 2994.6 | 3034.5 | 3019.7 |
| 40° | 3219.4 | 3229.7 | 3186.8 | 3139.5 | 3105.5 | 3099.6 | 3114.4 | 3152.8 | 3203.1 | 3253.4 | 3237.1 |
| 42.5° | 3479.6 | 3491.5 | 3435.3 | 3393.9 | 3367.2 | 3367.2 | 3374.6 | 3410.1 | 3456.0 | 3518.1 | 3513.6 |
| 45° | 3812.4 | 3833.1 | 3756.2 | 3714.8 | 3689.6 | 3695.5 | 3700.0 | 3731.0 | 3772.4 | 3843.4 | 3840.5 |
| 47.5° | 4208.7 | 4229.4 | 4148.1 | 4105.2 | 4100.7 | 4128.8 | 4111.1 | 4133.3 | 4155.4 | 4236.8 | 4213.1 |
| 50° | 4658.2 | 4693.7 | 4637.5 | 4634.6 | 4643.4 | 4695.2 | 4653.8 | 4665.6 | 4640.5 | 4692.3 | 4661.2 |
| 52.5° | 5208.4 | 5260.1 | 5249.8 | 5267.5 | 5366.6 | 5473.1 | 5378.4 | 5337.0 | 5242.4 | 5258.6 | 5203.9 |
| 55° | 5875.3 | 5953.7 | 5968.5 | 6074.9 | 6299.7 | 6517.1 | 6316.0 | 6148.9 | 5947.8 | 5910.8 | 5853.1 |
| 57.5° | 6633.9 | 6696.0 | 6767.0 | 6984.4 | 7404.4 | 7790.3 | 7404.4 | 7034.7 | 6718.2 | 6642.8 | 6589.6 |
| 60° | 7450.2 | 7527.1 | 7595.1 | 7916.0 | 8540.1 | 9082.8 | 8528.3 | 7941.2 | 7522.7 | 7420.6 | 7331.9 |
| 62.5° | 8327.2 | 8426.2 | 8473.6 | 8829.9 | 9557.5 | 10205.2 | 9567.9 | 8856.6 | 8392.2 | 8282.8 | 8194.1 |
| 65° | 9168.6 | 9249.9 | 9303.2 | 9683.2 | 10378.3 | 11027.5 | 10425.6 | 9724.6 | 9247.0 | 9103.5 | 9032.5 |
| 67.5° | 9560.5 | 9604.8 | 9735.0 | 10165.3 | 10898.8 | 11639.7 | 11023.0 | 10211.2 | 9677.3 | 9425.9 | 9428.9 |
| 70° | 8986.7 | 8896.5 | 9210.0 | 9899.1 | 10960.9 | 12015.3 | 11102.9 | 9878.4 | 9224.8 | 8816.6 | 8914.2 |
| 72.5° | 6944.5 | 6789.2 | 7333.4 | 8512.0 | 10251.1 | 11775.7 | 10322.1 | 8578.6 | 7672.0 | 6843.9 | 7049.5 |
| 75° | 3778.3 | 3602.4 | 4353.6 | 5844.2 | 8174.8 | 10206.7 | 8362.6 | 6011.3 | 4847.5 | 3750.3 | 3994.3 |
| 77.5° | 1066.2 | 999.7 | 1606.0 | 2827.5 | 4917.0 | 7166.3 | 5106.3 | 2889.6 | 1904.7 | 1129.8 | 1255.5 |
| 80° | 326.8 | 316.5 | 428.9 | 851.8 | 2088.1 | 3432.3 | 2006.7 | 862.1 | 545.7 | 344.6 | 363.8 |
| 82.5° | 193.7 | 177.5 | 212.9 | 310.5 | 532.4 | 1078.0 | 517.6 | 323.9 | 260.3 | 174.5 | 189.3 |
| 85° | 110.9 | 103.5 | 125.7 | 150.8 | 178.9 | 229.2 | 149.4 | 153.8 | 139.0 | 93.2 | 97.6 |
| 87.5° | 45.8 | 41.4 | 48.8 | 47.3 | 41.4 | 53.2 | 39.9 | 47.3 | 56.2 | 37.0 | 34.0 |
| 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)