

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: P884112

Luminaire Tested: **NVN-SB4D-740-U-5WQ**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884112
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-SB4D-740-U-5WQ
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44973 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

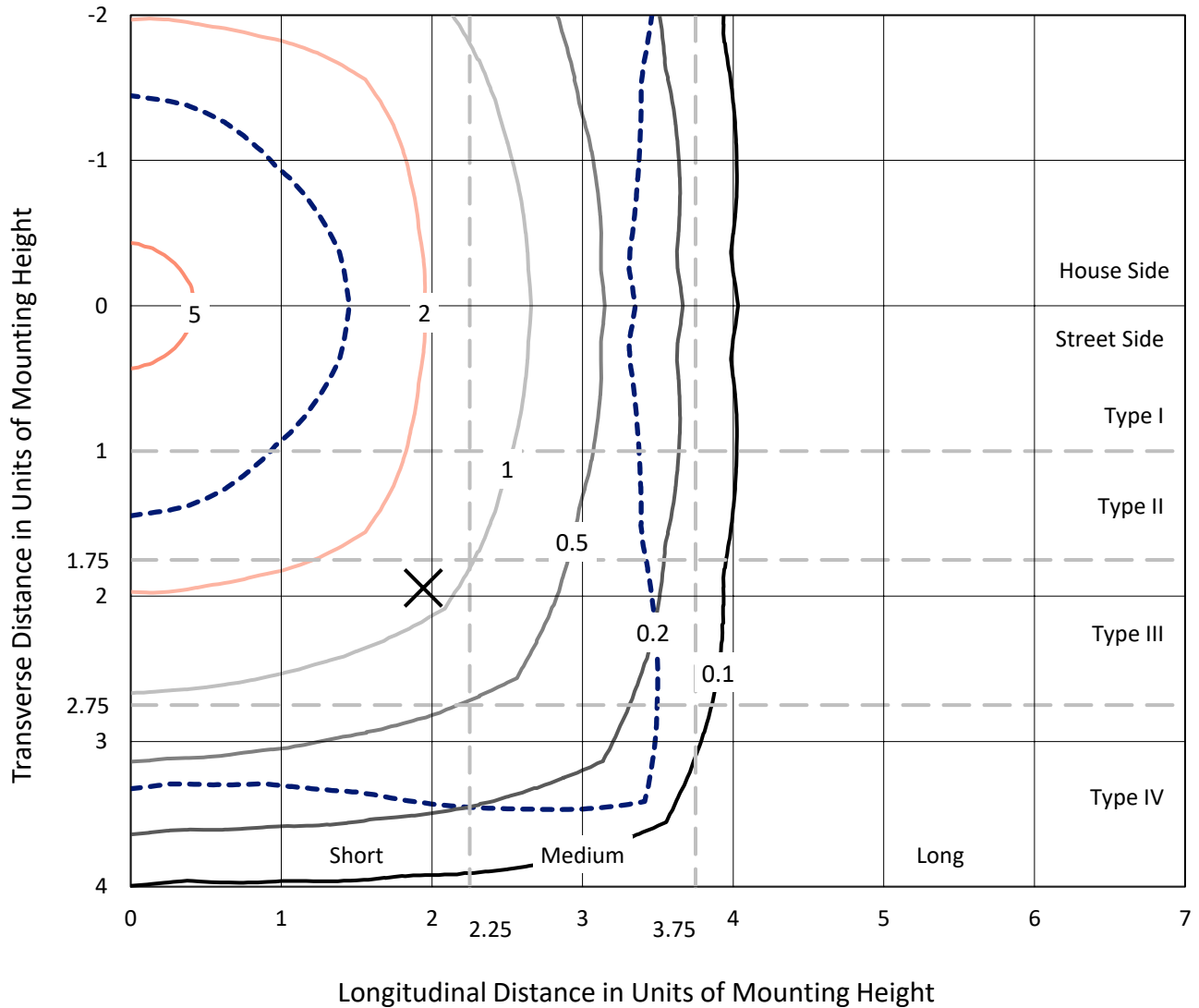
Input Watts (W): 293.6
Input Voltage (V): 120.0
Input Current (Ain): 2.469
Voltage Rise (V): NR
Power Factor: 0.999
Total Harmonic Distortion (THDi): 3.108
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

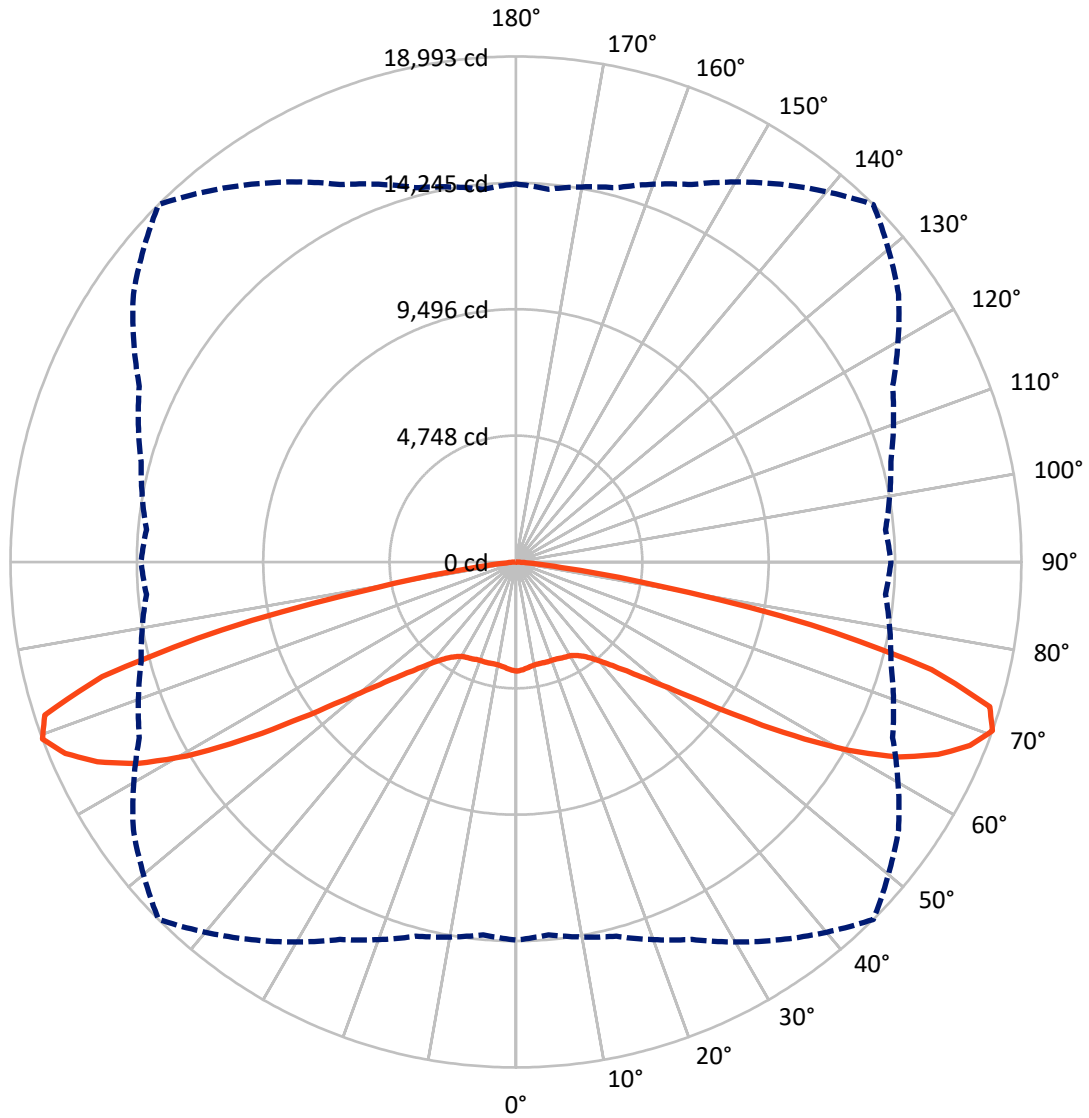
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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 | 22486.5 | 0.0 | 22486.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22486.5 | 0.0 | 22486.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 44973.0 | 0.0 | 44973.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 381.6 | 0.8 |
| 10°-20° | 1120.5 | 2.5 |
| 20°-30° | 1864.7 | 4.1 |
| 30°-40° | 2820.1 | 6.3 |
| 40°-50° | 4686.3 | 10.4 |
| 50°-60° | 8842.8 | 19.7 |
| 60°-70° | 14931.4 | 33.2 |
| 70°-80° | 9811.5 | 21.8 |
| 80°-90° | 514.0 | 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° | 44973.0 | 100.0 |
| 0°-180° | 44973.0 | 100.0 |



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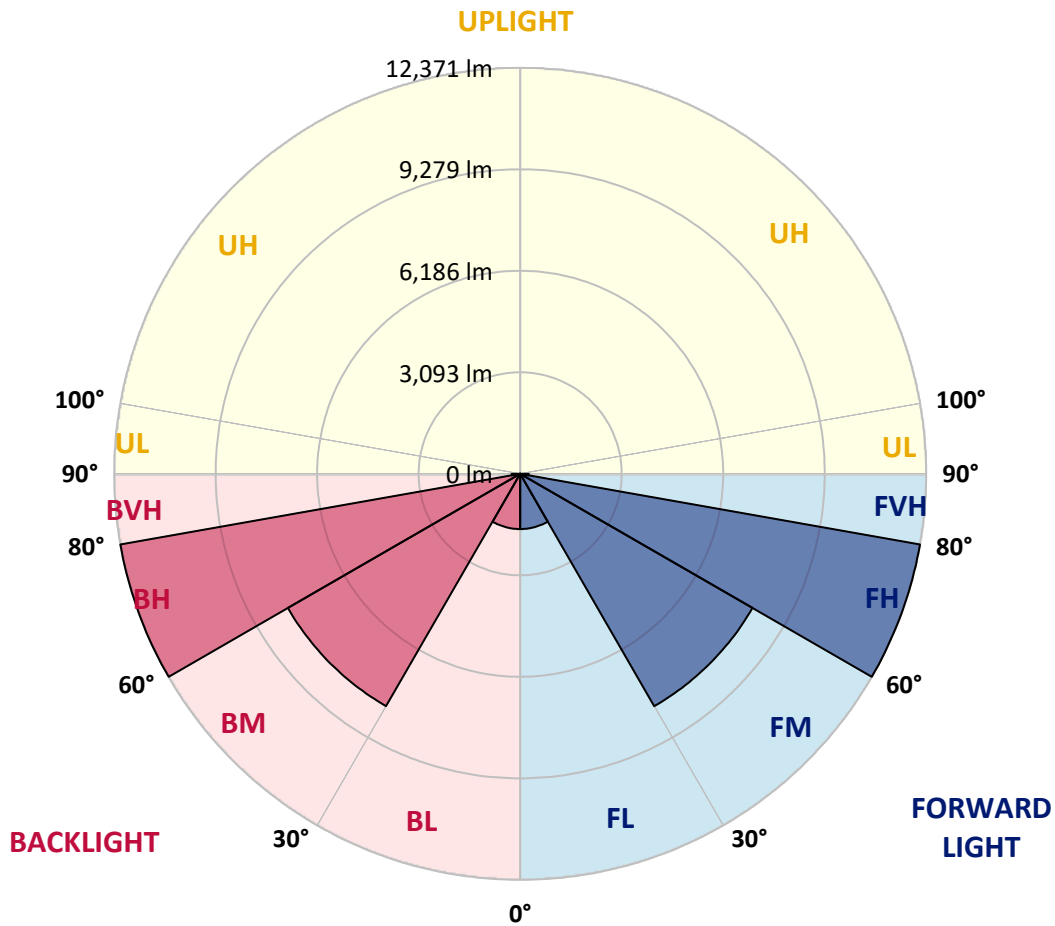
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1683.5 | 3.7 | | | |
| FM (30°-60°) | 8174.6 | 18.2 | | | |
| FH (60°-80°) | 12371.5 | 27.5 | | | G5 |
| FVH (80°-90°) | 257.0 | 0.6 | | | G3/500 |
| BL (0°-30°) | 1683.5 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 8174.6 | 18.2 | B4/8500 | | |
| BH (60°-80°) | 12371.5 | 27.5 | B5 | | G5 |
| BVH (80°-90°) | 257.0 | 0.6 | | | G3/500 |
| 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



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4102.4 | 4102.4 | 4102.4 | 4102.4 | 4102.4 | 4102.4 | 4102.4 | 4102.4 | 4102.4 | 4102.4 | 4102.4 |
| 2.5° | 4076.7 | 4088.4 | 4083.7 | 4074.4 | 4074.4 | 4067.4 | 4074.4 | 4079.1 | 4086.1 | 4090.8 | 4088.4 |
| 5° | 4023.0 | 4032.3 | 4030.0 | 4023.0 | 4025.3 | 4018.3 | 4023.0 | 4030.0 | 4034.7 | 4037.0 | 4037.0 |
| 7.5° | 3976.2 | 3985.6 | 3980.9 | 3969.2 | 3969.2 | 3962.2 | 3964.5 | 3971.5 | 3978.6 | 3980.9 | 3980.9 |
| 10° | 3964.5 | 3973.9 | 3959.9 | 3941.2 | 3934.1 | 3924.8 | 3927.1 | 3934.1 | 3948.2 | 3955.2 | 3955.2 |
| 12.5° | 3969.2 | 3976.2 | 3962.2 | 3934.1 | 3927.1 | 3917.8 | 3917.8 | 3924.8 | 3943.5 | 3952.8 | 3955.2 |
| 15° | 3983.2 | 3990.2 | 3969.2 | 3938.8 | 3931.8 | 3924.8 | 3922.4 | 3931.8 | 3952.8 | 3969.2 | 3971.5 |
| 17.5° | 4008.9 | 4016.0 | 3983.2 | 3941.2 | 3931.8 | 3934.1 | 3931.8 | 3938.8 | 3971.5 | 4001.9 | 4001.9 |
| 20° | 4032.3 | 4037.0 | 3992.6 | 3941.2 | 3931.8 | 3934.1 | 3931.8 | 3945.8 | 3987.9 | 4030.0 | 4032.3 |
| 22.5° | 4039.3 | 4044.0 | 4001.9 | 3957.5 | 3950.5 | 3952.8 | 3950.5 | 3964.5 | 4004.3 | 4046.3 | 4046.3 |
| 25° | 4041.7 | 4048.7 | 4016.0 | 3980.9 | 3992.6 | 3997.3 | 3992.6 | 3994.9 | 4025.3 | 4062.7 | 4060.4 |
| 27.5° | 4076.7 | 4086.1 | 4055.7 | 4025.3 | 4032.3 | 4030.0 | 4037.0 | 4044.0 | 4067.4 | 4104.8 | 4095.4 |
| 30° | 4149.2 | 4156.2 | 4130.5 | 4100.1 | 4095.4 | 4079.1 | 4100.1 | 4123.5 | 4149.2 | 4181.9 | 4174.9 |
| 32.5° | 4268.4 | 4282.4 | 4249.7 | 4217.0 | 4195.9 | 4186.6 | 4203.0 | 4242.7 | 4277.8 | 4312.8 | 4298.8 |
| 35° | 4467.1 | 4476.5 | 4446.1 | 4385.3 | 4347.9 | 4347.9 | 4361.9 | 4413.3 | 4469.4 | 4513.9 | 4497.5 |
| 37.5° | 4747.6 | 4759.3 | 4705.5 | 4633.1 | 4577.0 | 4577.0 | 4595.7 | 4649.4 | 4733.6 | 4796.7 | 4773.3 |
| 40° | 5088.9 | 5105.3 | 5037.5 | 4962.7 | 4908.9 | 4899.6 | 4922.9 | 4983.7 | 5063.2 | 5142.7 | 5117.0 |
| 42.5° | 5500.3 | 5519.0 | 5430.2 | 5364.7 | 5322.7 | 5322.7 | 5334.3 | 5390.4 | 5462.9 | 5561.1 | 5554.1 |
| 45° | 6026.3 | 6059.0 | 5937.4 | 5872.0 | 5832.2 | 5841.6 | 5848.6 | 5897.7 | 5963.2 | 6075.4 | 6070.7 |
| 47.5° | 6652.7 | 6685.5 | 6556.9 | 6489.1 | 6482.1 | 6526.5 | 6498.5 | 6533.5 | 6568.6 | 6697.2 | 6659.7 |
| 50° | 7363.4 | 7419.5 | 7330.6 | 7326.0 | 7340.0 | 7421.8 | 7356.3 | 7375.0 | 7335.3 | 7417.1 | 7368.0 |
| 52.5° | 8232.9 | 8314.8 | 8298.4 | 8326.4 | 8483.1 | 8651.4 | 8501.8 | 8436.3 | 8286.7 | 8312.4 | 8225.9 |
| 55° | 9287.2 | 9411.1 | 9434.5 | 9602.8 | 9958.1 | 10301.7 | 9983.8 | 9719.6 | 9401.7 | 9343.3 | 9252.1 |
| 57.5° | 10486.4 | 10584.5 | 10696.7 | 11040.4 | 11704.2 | 12314.3 | 11704.2 | 11119.8 | 10619.6 | 10500.4 | 10416.2 |
| 60° | 11776.7 | 11898.3 | 12005.8 | 12513.0 | 13499.5 | 14357.4 | 13480.8 | 12552.8 | 11891.2 | 11729.9 | 11589.7 |
| 62.5° | 13162.9 | 13319.5 | 13394.3 | 13957.7 | 15107.7 | 16131.6 | 15124.1 | 13999.7 | 13265.7 | 13092.8 | 12952.5 |
| 65° | 14493.0 | 14621.5 | 14705.7 | 15306.4 | 16405.1 | 17431.3 | 16479.9 | 15371.9 | 14616.9 | 14390.1 | 14277.9 |
| 67.5° | 15112.4 | 15182.5 | 15388.3 | 16068.5 | 17227.9 | 18399.0 | 17424.3 | 16141.0 | 15297.1 | 14899.7 | 14904.4 |
| 70° | 14205.4 | 14062.8 | 14558.4 | 15647.7 | 17326.1 | 18992.8 | 17550.5 | 15615.0 | 14581.8 | 13936.6 | 14090.9 |
| 72.5° | 10977.2 | 10731.8 | 11592.0 | 13455.1 | 16204.1 | 18614.1 | 16316.3 | 13560.3 | 12127.3 | 10818.3 | 11143.2 |
| 75° | 5972.5 | 5694.3 | 6881.8 | 9238.1 | 12922.1 | 16133.9 | 13219.0 | 9502.2 | 7662.6 | 5928.1 | 6313.8 |
| 77.5° | 1685.4 | 1580.2 | 2538.6 | 4469.4 | 7772.4 | 11327.9 | 8071.6 | 4567.6 | 3010.8 | 1785.9 | 1984.6 |
| 80° | 516.6 | 500.2 | 677.9 | 1346.4 | 3300.7 | 5425.5 | 3172.1 | 1362.8 | 862.6 | 544.7 | 575.0 |
| 82.5° | 306.2 | 280.5 | 336.6 | 490.9 | 841.5 | 1704.1 | 818.2 | 511.9 | 411.4 | 275.8 | 299.2 |
| 85° | 175.3 | 163.6 | 198.7 | 238.4 | 282.8 | 362.3 | 236.1 | 243.1 | 219.7 | 147.3 | 154.3 |
| 87.5° | 72.5 | 65.5 | 77.1 | 74.8 | 65.5 | 84.2 | 63.1 | 74.8 | 88.8 | 58.4 | 53.8 |
| 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)