

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: LUMARK

Report Number: P883245

Luminaire Tested: **NAV-SB3C-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21875 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

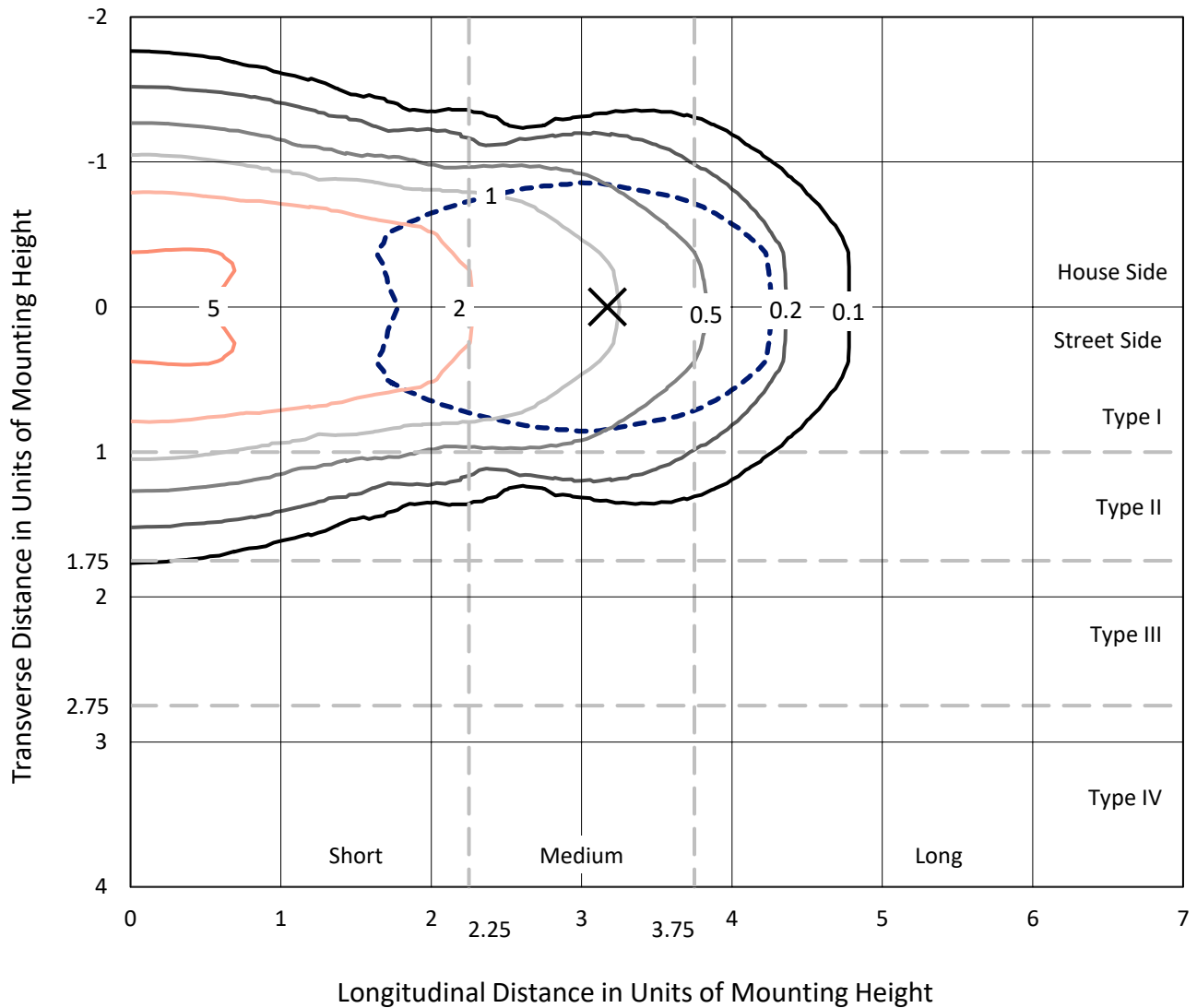
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

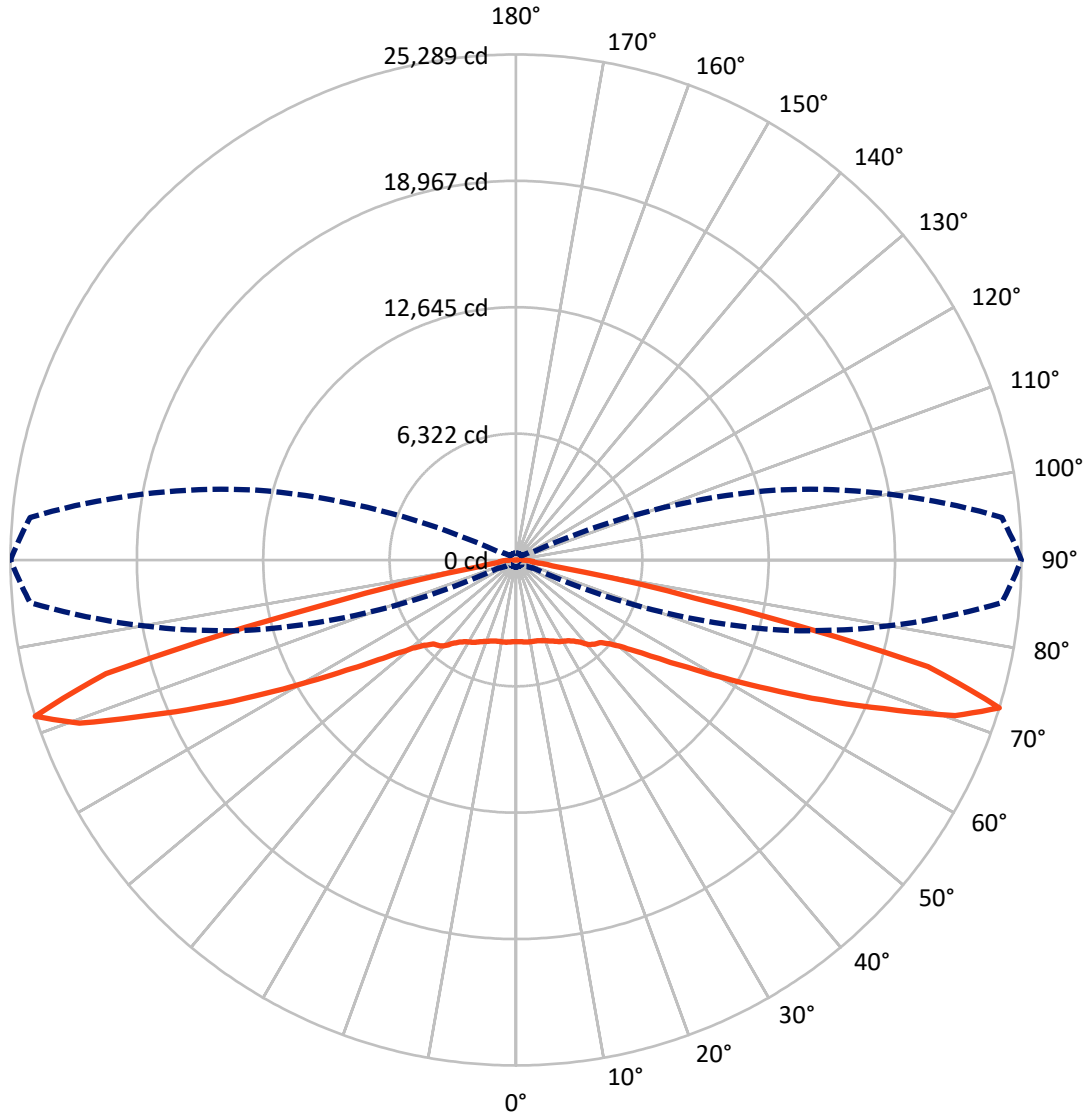
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10937.5 | 0.0 | 10937.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10937.5 | 0.0 | 10937.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 21875.0 | 0.0 | 21875.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 396.3 | 1.8 |
| 10°-20° | 1211.8 | 5.5 |
| 20°-30° | 2020.6 | 9.2 |
| 30°-40° | 2779.0 | 12.7 |
| 40°-50° | 3393.9 | 15.5 |
| 50°-60° | 3925.5 | 17.9 |
| 60°-70° | 4680.5 | 21.4 |
| 70°-80° | 3266.6 | 14.9 |
| 80°-90° | 200.6 | 0.9 |
| 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° | 21875.0 | 100.0 |
| 0°-180° | 21875.0 | 100.0 |



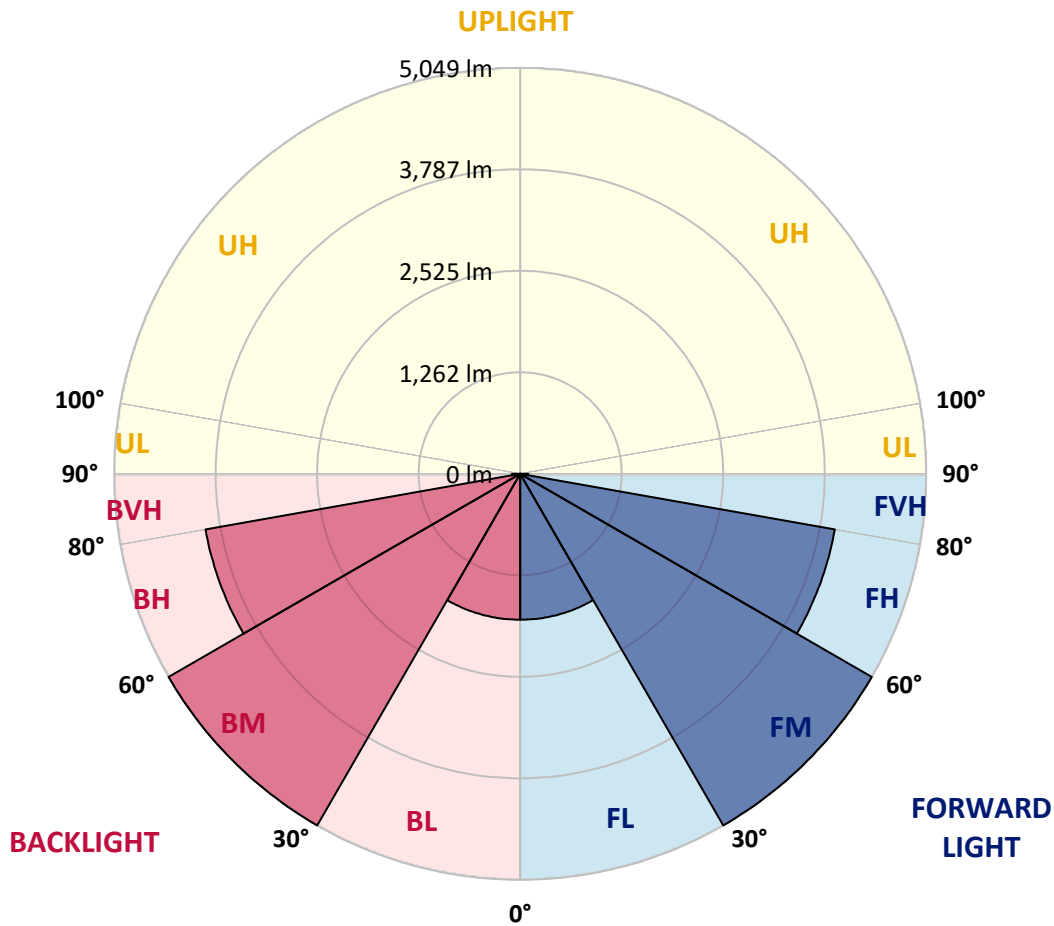
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1814.4 | 8.3 | | | |
| FM (30°-60°) | 5049.2 | 23.1 | | | |
| FH (60°-80°) | 3973.6 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 100.3 | 0.5 | | | G2/225 |
| BL (0°-30°) | 1814.4 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 5049.2 | 23.1 | B4/8500 | | |
| BH (60°-80°) | 3973.6 | 18.2 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 100.3 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 4087.6 | 4087.6 | 4087.6 | 4087.6 | 4087.6 | 4087.6 | 4087.6 | 4087.6 | 4087.6 | 4087.6 | 4087.6 |
| 2.5° | 4091.1 | 4095.7 | 4095.7 | 4092.2 | 4100.4 | 4093.4 | 4093.4 | 4089.9 | 4093.4 | 4089.9 | 4089.9 |
| 5° | 4112.0 | 4117.8 | 4120.1 | 4119.0 | 4129.4 | 4123.6 | 4123.6 | 4119.0 | 4120.1 | 4116.6 | 4116.6 |
| 7.5° | 4151.5 | 4159.7 | 4164.3 | 4170.1 | 4185.2 | 4178.3 | 4173.6 | 4159.7 | 4153.8 | 4144.5 | 4144.5 |
| 10° | 4164.3 | 4173.6 | 4188.7 | 4218.9 | 4253.8 | 4255.0 | 4241.0 | 4206.2 | 4179.4 | 4158.5 | 4155.0 |
| 12.5° | 4124.8 | 4137.6 | 4169.0 | 4230.6 | 4308.5 | 4339.9 | 4317.8 | 4259.6 | 4207.3 | 4170.1 | 4164.3 |
| 15° | 4074.8 | 4088.7 | 4136.4 | 4229.4 | 4344.5 | 4417.7 | 4415.4 | 4338.7 | 4255.0 | 4196.9 | 4187.6 |
| 17.5° | 3996.9 | 4010.8 | 4079.4 | 4209.6 | 4372.4 | 4493.3 | 4525.9 | 4446.8 | 4329.4 | 4251.5 | 4238.7 |
| 20° | 3856.2 | 3869.0 | 3964.3 | 4146.9 | 4381.7 | 4573.5 | 4658.4 | 4588.6 | 4442.2 | 4336.4 | 4316.6 |
| 22.5° | 3673.7 | 3693.5 | 3805.1 | 4038.7 | 4359.6 | 4657.2 | 4809.5 | 4761.9 | 4573.5 | 4427.0 | 4400.3 |
| 25° | 3478.4 | 3499.3 | 3629.5 | 3906.2 | 4302.6 | 4717.7 | 4988.6 | 4958.3 | 4722.3 | 4539.8 | 4502.6 |
| 27.5° | 3309.8 | 3331.9 | 3473.7 | 3774.8 | 4214.3 | 4740.9 | 5165.3 | 5180.4 | 4902.5 | 4664.2 | 4624.7 |
| 30° | 3177.3 | 3198.2 | 3349.3 | 3669.1 | 4100.4 | 4717.7 | 5319.9 | 5424.5 | 5086.2 | 4772.3 | 4715.4 |
| 32.5° | 3032.0 | 3058.7 | 3218.0 | 3540.0 | 3965.5 | 4661.9 | 5454.7 | 5688.4 | 5299.0 | 4888.6 | 4816.5 |
| 35° | 2848.3 | 2872.7 | 3040.1 | 3363.3 | 3788.8 | 4572.4 | 5567.5 | 5981.4 | 5603.6 | 5065.3 | 4985.1 |
| 37.5° | 2625.1 | 2648.3 | 2814.6 | 3142.4 | 3613.2 | 4446.8 | 5653.5 | 6311.6 | 5966.3 | 5319.9 | 5212.9 |
| 40° | 2400.7 | 2422.8 | 2578.6 | 2895.9 | 3402.8 | 4286.4 | 5683.8 | 6634.8 | 6382.5 | 5669.8 | 5555.9 |
| 42.5° | 2194.9 | 2214.7 | 2357.7 | 2653.0 | 3166.8 | 4081.8 | 5644.2 | 6916.1 | 6755.7 | 5914.0 | 5767.5 |
| 45° | 2005.4 | 2022.9 | 2149.6 | 2425.1 | 2921.5 | 3833.0 | 5525.7 | 7218.4 | 7199.8 | 6088.3 | 5890.7 |
| 47.5° | 1789.2 | 1806.6 | 1938.0 | 2204.2 | 2676.2 | 3541.2 | 5324.5 | 7516.0 | 7817.1 | 6483.6 | 6255.8 |
| 50° | 1525.3 | 1540.4 | 1675.3 | 1949.6 | 2421.6 | 3230.8 | 5045.5 | 7749.7 | 8596.0 | 7082.3 | 6796.3 |
| 52.5° | 1212.6 | 1228.8 | 1360.2 | 1634.6 | 2119.4 | 2897.1 | 4678.2 | 7901.9 | 9495.8 | 7956.6 | 7604.3 |
| 55° | 902.1 | 913.8 | 1027.7 | 1274.2 | 1745.0 | 2517.0 | 4217.8 | 7945.0 | 10516.6 | 9151.7 | 8711.1 |
| 57.5° | 654.5 | 661.5 | 734.7 | 918.4 | 1323.0 | 2041.5 | 3658.6 | 7833.4 | 11731.4 | 10684.0 | 10129.4 |
| 60° | 530.1 | 532.5 | 554.5 | 635.9 | 919.6 | 1504.4 | 2983.1 | 7449.7 | 13049.8 | 12659.2 | 11960.5 |
| 62.5° | 481.3 | 481.3 | 487.1 | 509.2 | 622.0 | 992.8 | 2165.9 | 6654.5 | 14463.5 | 15155.2 | 14219.3 |
| 65° | 447.6 | 447.6 | 449.9 | 460.4 | 490.6 | 632.4 | 1367.2 | 5359.4 | 15655.1 | 18079.0 | 16895.5 |
| 67.5° | 417.4 | 418.5 | 417.4 | 420.8 | 438.3 | 467.4 | 792.9 | 3701.6 | 16296.8 | 21108.7 | 19831.0 |
| 70° | 386.0 | 388.3 | 382.5 | 382.5 | 396.4 | 397.6 | 496.4 | 2029.8 | 15764.4 | 23647.7 | 23311.7 |
| 72.5° | 348.8 | 352.3 | 343.0 | 340.6 | 351.1 | 346.4 | 373.2 | 974.2 | 13534.6 | 24405.7 | 25289.3 |
| 75° | 316.2 | 320.9 | 299.9 | 294.1 | 294.1 | 290.6 | 303.4 | 499.9 | 8784.3 | 19908.9 | 21294.7 |
| 77.5° | 287.2 | 296.5 | 262.7 | 244.1 | 239.5 | 229.0 | 247.6 | 305.8 | 3842.3 | 9347.0 | 9152.9 |
| 80° | 237.2 | 250.0 | 216.2 | 194.1 | 186.0 | 174.4 | 195.3 | 213.9 | 1142.8 | 2170.5 | 2078.7 |
| 82.5° | 176.7 | 182.5 | 153.5 | 138.3 | 131.4 | 123.2 | 146.5 | 148.8 | 372.0 | 768.5 | 868.4 |
| 85° | 112.8 | 115.1 | 94.2 | 81.4 | 77.9 | 74.4 | 93.0 | 81.4 | 141.8 | 565.0 | 820.8 |
| 87.5° | 39.5 | 45.3 | 36.0 | 32.6 | 34.9 | 29.1 | 43.0 | 24.4 | 39.5 | 398.8 | 494.1 |
| 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)