

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: McGRAW-EDISON

Report Number: P956465

Luminaire Tested: **GALN-SB9A-840-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-840-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40953 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

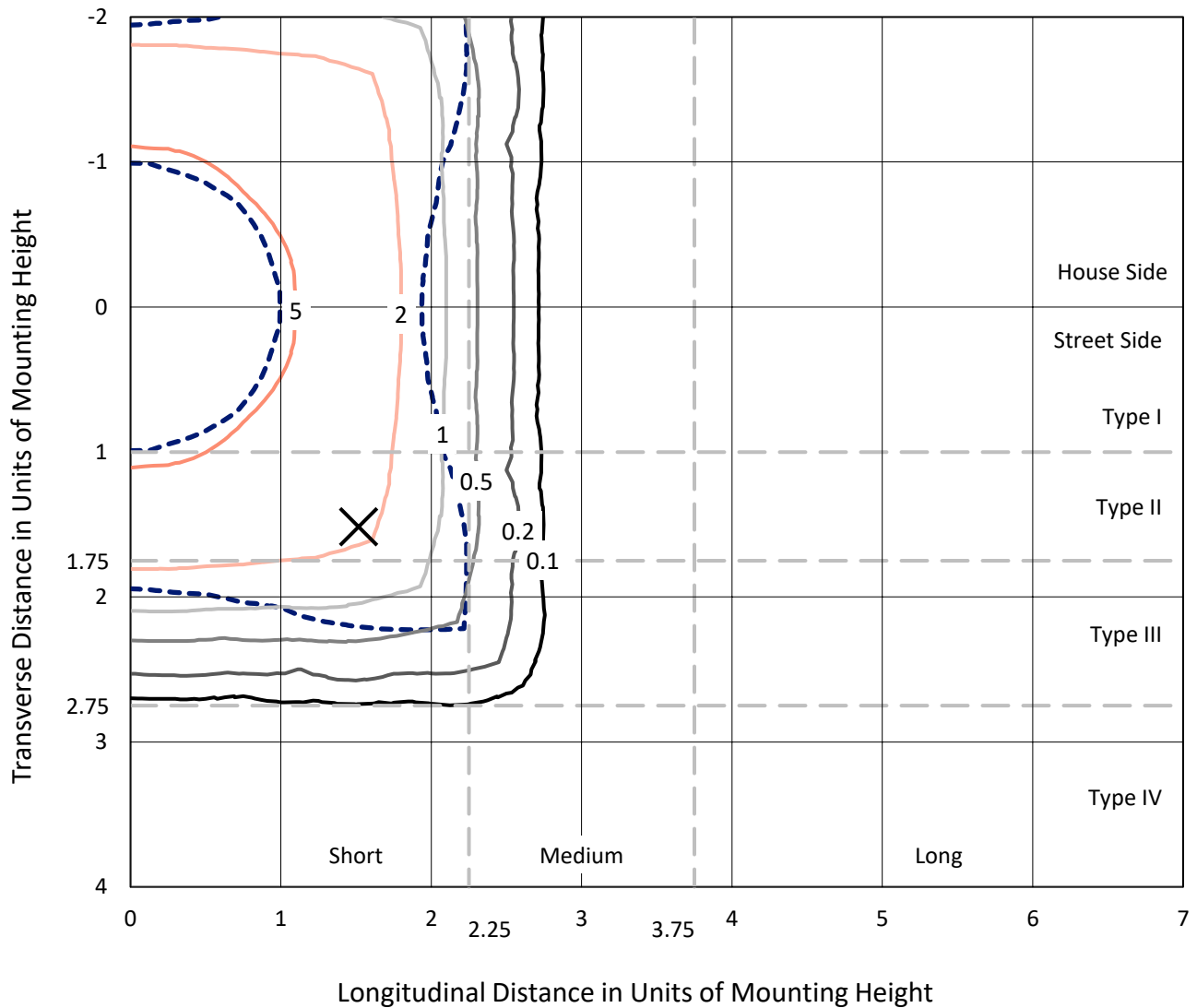
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

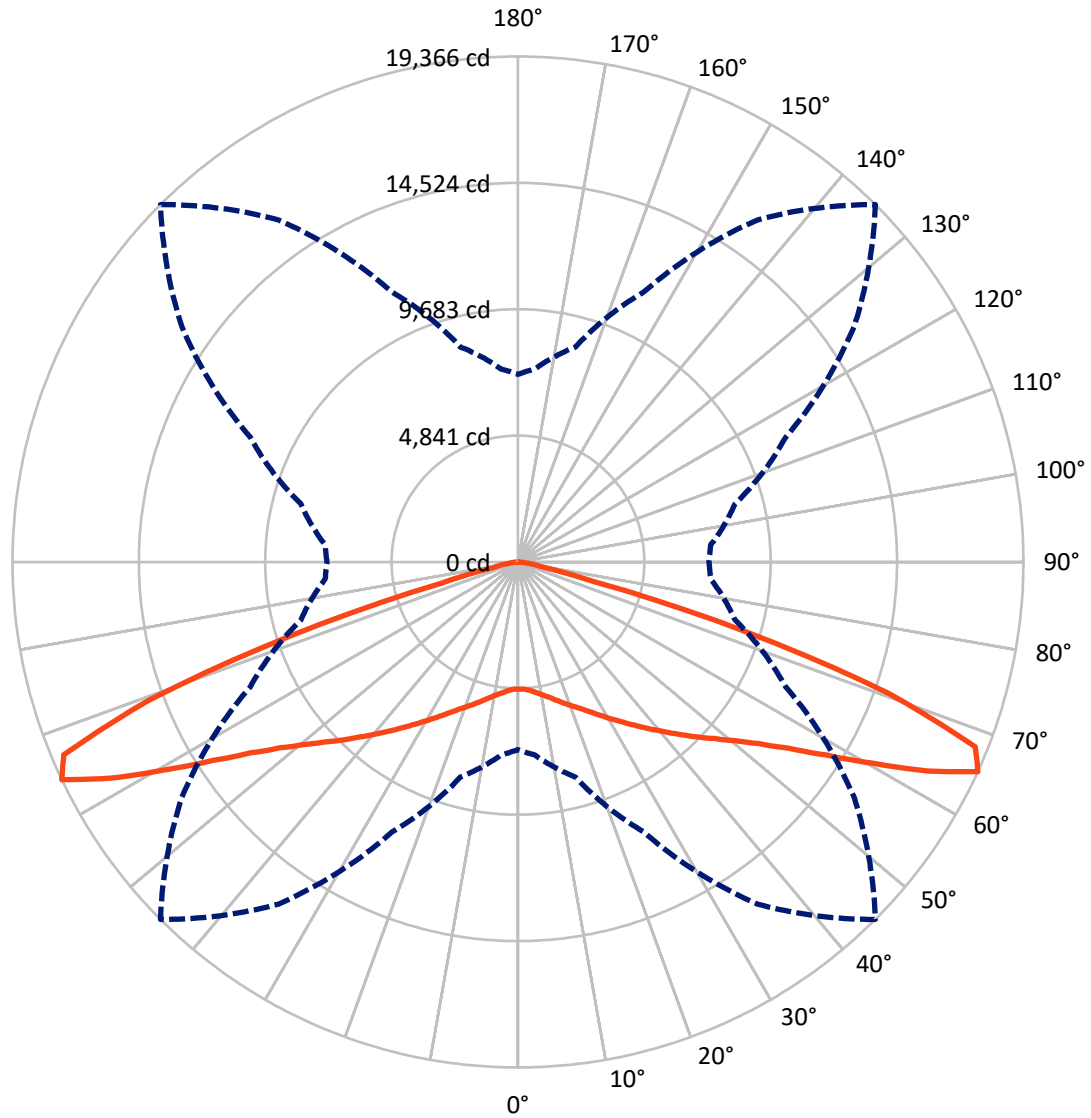
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 20476.5 | 0.0 | 20476.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 20476.5 | 0.0 | 20476.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 40953.0 | 0.0 | 40953.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 481.0 | 1.2 |
| 10°-20° | 1569.5 | 3.8 |
| 20°-30° | 2963.5 | 7.2 |
| 30°-40° | 4852.6 | 11.8 |
| 40°-50° | 7523.9 | 18.4 |
| 50°-60° | 11114.4 | 27.1 |
| 60°-70° | 10579.9 | 25.8 |
| 70°-80° | 1707.2 | 4.2 |
| 80°-90° | 160.9 | 0.4 |
| 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° | 40953.0 | 100.0 |
| 0°-180° | 40953.0 | 100.0 |



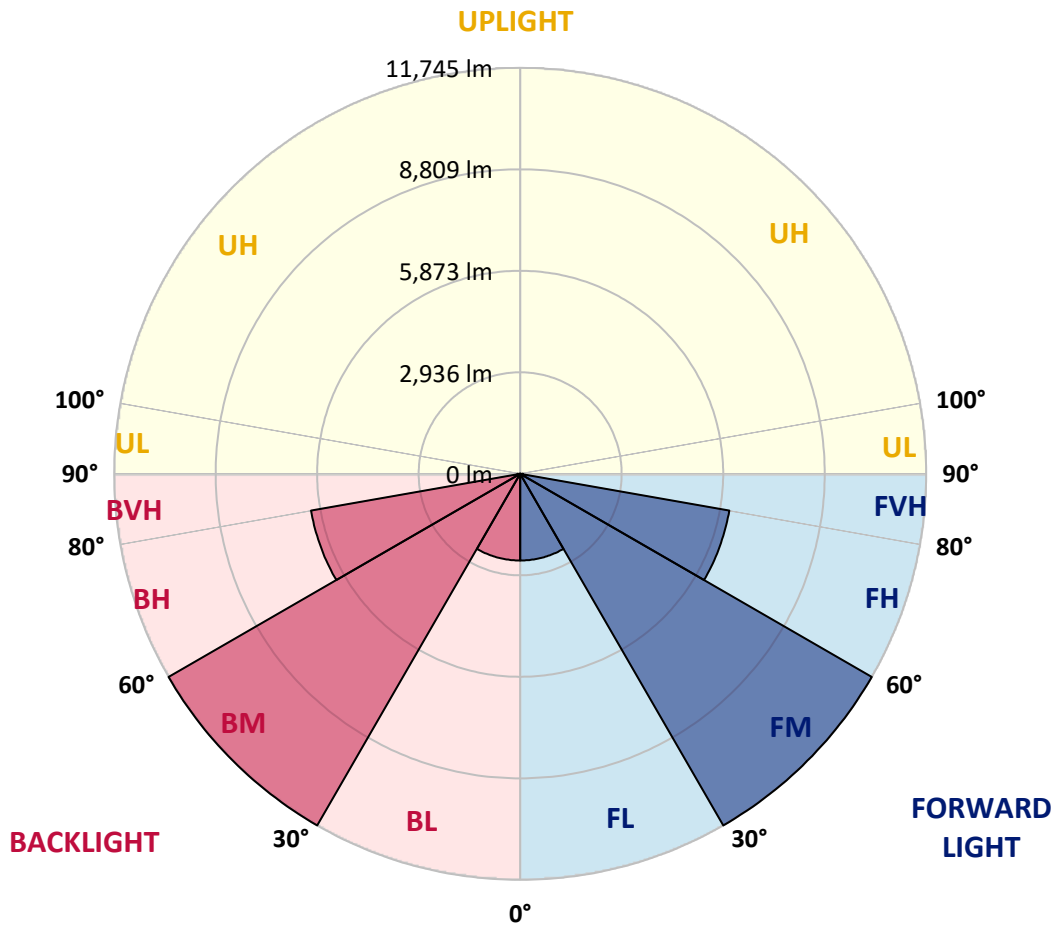
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2507.0 | 6.1 | | | |
| FM (30°-60°) | 11745.5 | 28.7 | | | |
| FH (60°-80°) | 6143.6 | 15.0 | | | G3/7500 |
| FVH (80°-90°) | 80.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2507.0 | 6.1 | B4/5000 | | |
| BM (30°-60°) | 11745.5 | 28.7 | B5 | | |
| BH (60°-80°) | 6143.6 | 15.0 | B5 | | G3/7500 |
| BVH (80°-90°) | 80.5 | 0.2 | | | G1/100 |
| 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° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4873.8 | 4873.8 | 4873.8 | 4873.8 | 4873.8 | 4873.8 | 4873.8 | 4873.8 | 4873.8 | 4873.8 |
| 2.5° | 4906.7 | 4890.3 | 4902.6 | 4892.3 | 4884.1 | 4875.9 | 4880.0 | 4894.4 | 4900.5 | 4902.6 |
| 5° | 4972.4 | 4958.1 | 4964.2 | 4964.2 | 4949.8 | 4945.7 | 4947.8 | 4958.1 | 4970.4 | 4970.4 |
| 7.5° | 5079.3 | 5064.9 | 5079.3 | 5071.1 | 5058.7 | 5054.6 | 5052.6 | 5060.8 | 5079.3 | 5079.3 |
| 10° | 5208.7 | 5192.3 | 5200.5 | 5196.4 | 5182.0 | 5175.9 | 5173.8 | 5186.1 | 5202.6 | 5200.5 |
| 12.5° | 5350.5 | 5332.0 | 5342.3 | 5330.0 | 5325.9 | 5319.7 | 5319.7 | 5317.6 | 5327.9 | 5319.7 |
| 15° | 5508.7 | 5496.4 | 5500.5 | 5492.3 | 5498.5 | 5494.3 | 5477.9 | 5469.7 | 5473.8 | 5461.5 |
| 17.5° | 5695.7 | 5666.9 | 5681.3 | 5677.2 | 5677.2 | 5685.4 | 5658.7 | 5648.4 | 5656.7 | 5644.3 |
| 20° | 5911.5 | 5882.7 | 5888.9 | 5880.6 | 5870.4 | 5878.6 | 5845.7 | 5853.9 | 5860.1 | 5851.9 |
| 22.5° | 6147.7 | 6110.8 | 6108.7 | 6112.8 | 6090.2 | 6092.3 | 6069.7 | 6090.2 | 6102.5 | 6079.9 |
| 25° | 6390.2 | 6351.2 | 6377.9 | 6367.6 | 6338.8 | 6345.0 | 6328.6 | 6349.1 | 6359.4 | 6330.6 |
| 27.5° | 6647.0 | 6620.3 | 6645.0 | 6651.2 | 6616.2 | 6640.9 | 6616.2 | 6634.7 | 6645.0 | 6601.8 |
| 30° | 6947.0 | 6920.3 | 6942.9 | 6959.4 | 6918.3 | 6957.3 | 6936.8 | 6949.1 | 6951.1 | 6899.8 |
| 32.5° | 7273.7 | 7232.6 | 7290.2 | 7298.4 | 7253.2 | 7300.5 | 7273.7 | 7290.2 | 7300.5 | 7230.6 |
| 35° | 7672.4 | 7621.0 | 7686.7 | 7676.5 | 7637.4 | 7676.5 | 7651.8 | 7676.5 | 7701.1 | 7616.9 |
| 37.5° | 8101.8 | 8048.4 | 8118.2 | 8099.7 | 8062.8 | 8089.5 | 8075.1 | 8091.5 | 8130.6 | 8040.2 |
| 40° | 8574.4 | 8508.6 | 8603.1 | 8570.3 | 8535.3 | 8531.2 | 8539.5 | 8549.7 | 8601.1 | 8500.4 |
| 42.5° | 9079.8 | 9010.0 | 9151.8 | 9100.4 | 9051.1 | 9018.2 | 9044.9 | 9065.5 | 9114.8 | 9001.8 |
| 45° | 9657.2 | 9577.1 | 9762.0 | 9700.4 | 9622.3 | 9554.5 | 9597.6 | 9628.5 | 9700.4 | 9564.8 |
| 47.5° | 10294.2 | 10203.8 | 10401.0 | 10382.5 | 10255.2 | 10107.2 | 10205.8 | 10294.2 | 10347.6 | 10183.2 |
| 50° | 10916.8 | 10846.9 | 11105.8 | 11128.4 | 10972.3 | 10764.7 | 10902.4 | 11035.9 | 11050.3 | 10834.6 |
| 52.5° | 11500.3 | 11430.5 | 11806.5 | 11948.2 | 11808.5 | 11562.0 | 11707.8 | 11843.5 | 11734.6 | 11455.1 |
| 55° | 11966.7 | 11909.2 | 12388.0 | 12753.7 | 12801.0 | 12597.5 | 12683.8 | 12679.7 | 12322.2 | 11892.8 |
| 57.5° | 12079.8 | 12071.5 | 12675.6 | 13450.3 | 13943.4 | 13968.0 | 13797.5 | 13361.9 | 12591.4 | 12014.0 |
| 60° | 11566.1 | 11617.4 | 12447.5 | 13813.9 | 15129.0 | 15675.5 | 14937.9 | 13694.8 | 12285.2 | 11483.9 |
| 62.5° | 10029.1 | 10164.7 | 11165.4 | 13370.1 | 16086.5 | 17639.8 | 15852.2 | 13189.3 | 11027.7 | 9981.9 |
| 65° | 7187.4 | 7423.7 | 8529.2 | 11409.9 | 16000.2 | 19365.8 | 15720.7 | 11317.4 | 8611.4 | 7405.2 |
| 67.5° | 3260.9 | 3501.3 | 4440.3 | 7812.1 | 13908.5 | 18897.3 | 13875.6 | 7894.3 | 4662.2 | 3513.6 |
| 70° | 1181.5 | 1222.6 | 1524.6 | 3127.3 | 8888.8 | 15057.1 | 9268.9 | 3149.9 | 1621.2 | 1302.7 |
| 72.5° | 715.0 | 721.2 | 784.9 | 1119.8 | 3088.3 | 9141.5 | 3219.8 | 1156.8 | 801.3 | 710.9 |
| 75° | 454.1 | 450.0 | 558.9 | 684.2 | 1095.2 | 3084.1 | 1148.6 | 684.2 | 556.8 | 507.5 |
| 77.5° | 326.7 | 337.0 | 400.7 | 511.6 | 690.4 | 1045.9 | 678.1 | 489.0 | 400.7 | 328.8 |
| 80° | 244.5 | 250.7 | 291.8 | 398.6 | 484.9 | 651.3 | 431.5 | 361.6 | 302.0 | 205.5 |
| 82.5° | 176.7 | 176.7 | 191.1 | 289.7 | 295.9 | 351.4 | 234.2 | 254.8 | 199.3 | 145.9 |
| 85° | 104.8 | 102.7 | 119.2 | 172.6 | 154.1 | 129.4 | 106.8 | 156.2 | 125.3 | 90.4 |
| 87.5° | 37.0 | 39.0 | 37.0 | 49.3 | 41.1 | 34.9 | 32.9 | 43.1 | 34.9 | 30.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 4873.8 |
| 4902.6 |
| 4970.4 |
| 5073.1 |
| 5196.4 |
| 5323.8 |
| 5463.5 |
| 5654.6 |
| 5870.4 |
| 6102.5 |
| 6363.5 |
| 6634.7 |
| 6930.6 |
| 7277.8 |
| 7668.2 |
| 8095.6 |
| 8533.3 |
| 9061.4 |
| 9634.6 |
| 10238.7 |
| 10861.3 |
| 11463.3 |
| 11907.2 |
| 11977.0 |
| 11389.4 |
| 9920.2 |
| 7316.9 |
| 3462.2 |
| 1286.3 |
| 723.3 |
| 511.6 |
| 334.9 |
| 211.6 |
| 145.9 |
| 88.4 |
| 28.8 |
| 0.0 |

OF REPORT)