

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: P955688

Luminaire Tested: **GALN-SB8C-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955688
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-SB8C-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55181 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

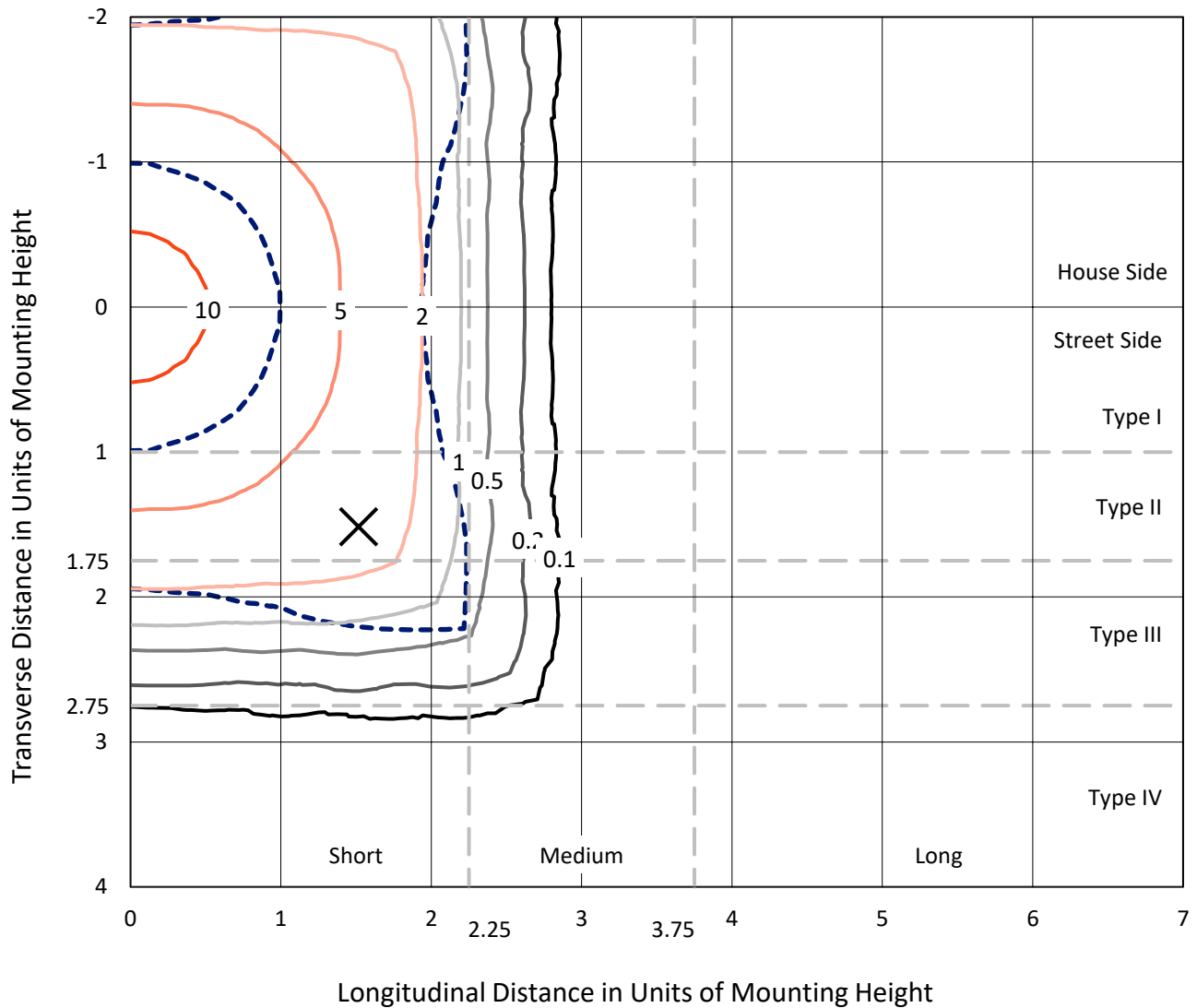
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

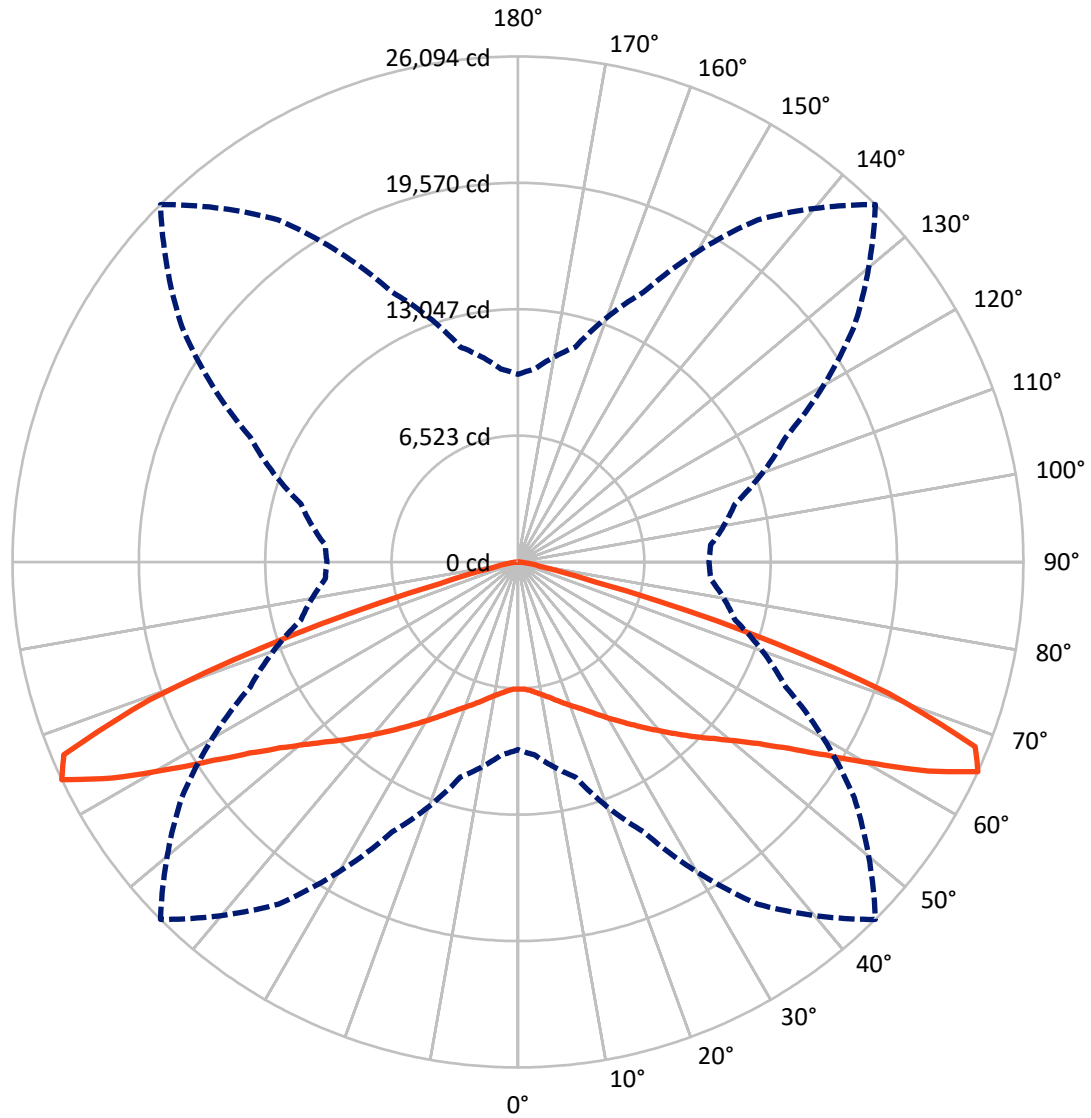
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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 | 27590.5 | 0.0 | 27590.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 27590.5 | 0.0 | 27590.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 55181.0 | 0.0 | 55181.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 648.1 | 1.2 |
| 10°-20° | 2114.8 | 3.8 |
| 20°-30° | 3993.0 | 7.2 |
| 30°-40° | 6538.5 | 11.8 |
| 40°-50° | 10137.9 | 18.4 |
| 50°-60° | 14975.8 | 27.1 |
| 60°-70° | 14255.6 | 25.8 |
| 70°-80° | 2300.3 | 4.2 |
| 80°-90° | 216.8 | 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° | 55181.0 | 100.0 |
| 0°-180° | 55181.0 | 100.0 |

Coefficient of Utilization



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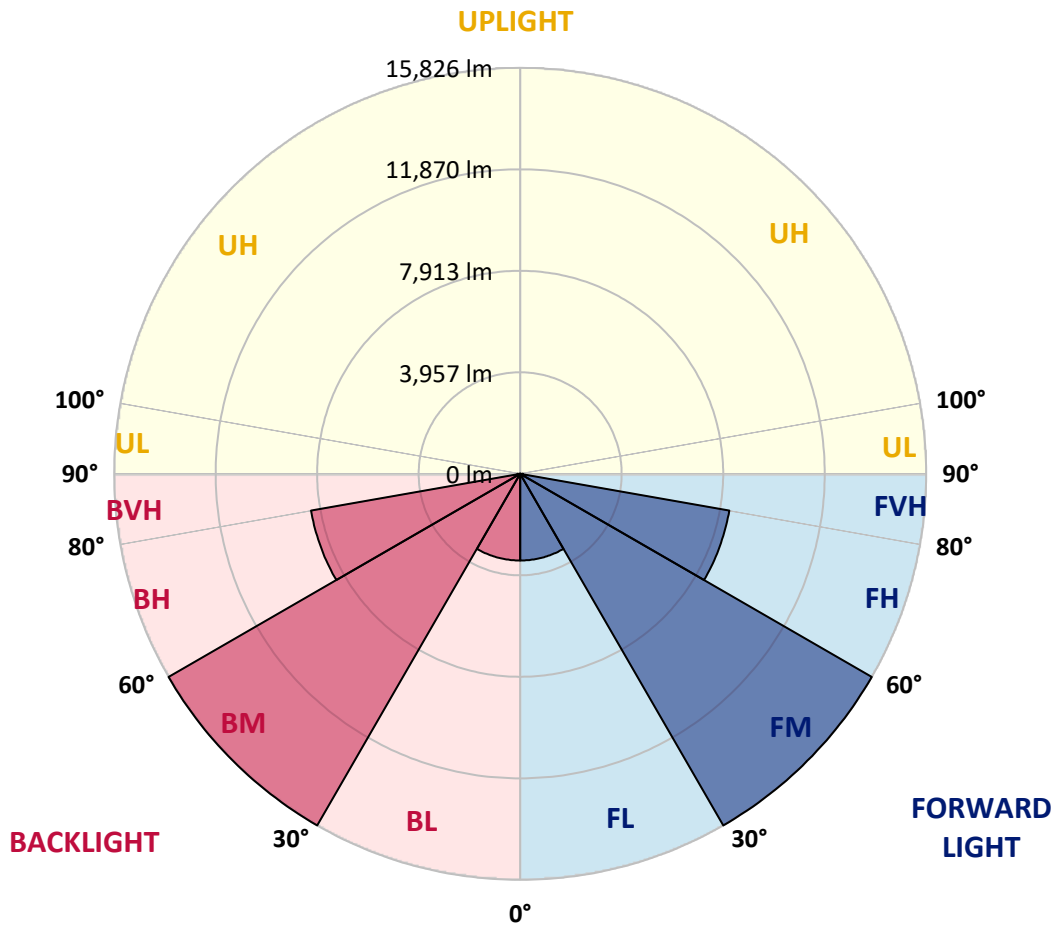
CATALOG NUMBER: GALN-SB8C-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3378.0 | 6.1 | | | |
| FM (30°-60°) | 15826.1 | 28.7 | | | |
| FH (60°-80°) | 8278.0 | 15.0 | | | G4/12000 |
| FVH (80°-90°) | 108.4 | 0.2 | | | G2/225 |
| BL (0°-30°) | 3378.0 | 6.1 | B4/5000 | | |
| BM (30°-60°) | 15826.1 | 28.7 | B5 | | |
| BH (60°-80°) | 8278.0 | 15.0 | B5 | | G4/12000 |
| BVH (80°-90°) | 108.4 | 0.2 | | | 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° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6567.1 | 6567.1 | 6567.1 | 6567.1 | 6567.1 | 6567.1 | 6567.1 | 6567.1 | 6567.1 | 6567.1 |
| 2.5° | 6611.4 | 6589.2 | 6605.9 | 6592.0 | 6580.9 | 6569.9 | 6575.4 | 6594.8 | 6603.1 | 6605.9 |
| 5° | 6700.0 | 6680.6 | 6688.9 | 6688.9 | 6669.5 | 6664.0 | 6666.8 | 6680.6 | 6697.2 | 6697.2 |
| 7.5° | 6843.9 | 6824.6 | 6843.9 | 6832.9 | 6816.3 | 6810.7 | 6808.0 | 6819.0 | 6843.9 | 6843.9 |
| 10° | 7018.4 | 6996.2 | 7007.3 | 7001.8 | 6982.4 | 6974.1 | 6971.3 | 6987.9 | 7010.1 | 7007.3 |
| 12.5° | 7209.4 | 7184.5 | 7198.3 | 7181.7 | 7176.2 | 7167.9 | 7167.9 | 7165.1 | 7178.9 | 7167.9 |
| 15° | 7422.6 | 7406.0 | 7411.5 | 7400.4 | 7408.7 | 7403.2 | 7381.1 | 7370.0 | 7375.5 | 7358.9 |
| 17.5° | 7674.5 | 7635.8 | 7655.1 | 7649.6 | 7649.6 | 7660.7 | 7624.7 | 7610.8 | 7621.9 | 7605.3 |
| 20° | 7965.2 | 7926.5 | 7934.8 | 7923.7 | 7909.9 | 7920.9 | 7876.6 | 7887.7 | 7896.0 | 7884.9 |
| 22.5° | 8283.6 | 8233.8 | 8231.0 | 8236.5 | 8206.1 | 8208.9 | 8178.4 | 8206.1 | 8222.7 | 8192.3 |
| 25° | 8610.3 | 8557.7 | 8593.7 | 8579.9 | 8541.1 | 8549.4 | 8527.3 | 8554.9 | 8568.8 | 8530.0 |
| 27.5° | 8956.4 | 8920.4 | 8953.6 | 8961.9 | 8914.9 | 8948.1 | 8914.9 | 8939.8 | 8953.6 | 8895.5 |
| 30° | 9360.6 | 9324.6 | 9355.1 | 9377.2 | 9321.8 | 9374.4 | 9346.8 | 9363.4 | 9366.1 | 9296.9 |
| 32.5° | 9800.8 | 9745.4 | 9823.0 | 9834.0 | 9773.1 | 9836.8 | 9800.8 | 9823.0 | 9836.8 | 9742.7 |
| 35° | 10337.9 | 10268.7 | 10357.3 | 10343.4 | 10290.8 | 10343.4 | 10310.2 | 10343.4 | 10376.7 | 10263.2 |
| 37.5° | 10916.5 | 10844.6 | 10938.7 | 10913.8 | 10863.9 | 10899.9 | 10880.6 | 10902.7 | 10955.3 | 10833.5 |
| 40° | 11553.3 | 11464.7 | 11592.1 | 11547.8 | 11500.7 | 11495.2 | 11506.3 | 11520.1 | 11589.3 | 11453.6 |
| 42.5° | 12234.4 | 12140.3 | 12331.3 | 12262.1 | 12195.6 | 12151.3 | 12187.3 | 12215.0 | 12281.5 | 12129.2 |
| 45° | 13012.4 | 12904.4 | 13153.6 | 13070.5 | 12965.3 | 12873.9 | 12932.1 | 12973.6 | 13070.5 | 12887.8 |
| 47.5° | 13870.6 | 13748.8 | 14014.6 | 13989.7 | 13818.0 | 13618.7 | 13751.6 | 13870.6 | 13942.6 | 13721.1 |
| 50° | 14709.5 | 14615.4 | 14964.2 | 14994.7 | 14784.3 | 14504.6 | 14690.1 | 14870.1 | 14889.5 | 14598.8 |
| 52.5° | 15495.8 | 15401.7 | 15908.3 | 16099.3 | 15911.1 | 15578.8 | 15775.4 | 15958.1 | 15811.4 | 15434.9 |
| 55° | 16124.3 | 16046.7 | 16691.8 | 17184.6 | 17248.3 | 16974.2 | 17090.5 | 17085.0 | 16603.2 | 16024.6 |
| 57.5° | 16276.5 | 16265.5 | 17079.4 | 18123.2 | 18787.6 | 18820.9 | 18591.1 | 18004.1 | 16965.9 | 16187.9 |
| 60° | 15584.4 | 15653.6 | 16772.1 | 18613.2 | 20385.1 | 21121.6 | 20127.6 | 18452.6 | 16553.4 | 15473.6 |
| 62.5° | 13513.5 | 13696.2 | 15044.5 | 18015.2 | 21675.3 | 23768.3 | 21359.7 | 17771.6 | 14859.0 | 13449.8 |
| 65° | 9684.5 | 10002.9 | 11492.4 | 15374.0 | 21559.0 | 26093.9 | 21182.5 | 15249.4 | 11603.2 | 9978.0 |
| 67.5° | 4393.7 | 4717.7 | 5982.9 | 10526.2 | 18740.6 | 25462.7 | 18696.3 | 10636.9 | 6281.9 | 4734.3 |
| 70° | 1591.9 | 1647.3 | 2054.3 | 4213.8 | 11976.9 | 20288.2 | 12489.1 | 4244.2 | 2184.4 | 1755.3 |
| 72.5° | 963.5 | 971.8 | 1057.6 | 1508.9 | 4161.2 | 12317.4 | 4338.4 | 1558.7 | 1079.7 | 957.9 |
| 75° | 611.9 | 606.3 | 753.1 | 921.9 | 1475.7 | 4155.7 | 1547.6 | 921.9 | 750.3 | 683.8 |
| 77.5° | 440.2 | 454.0 | 539.9 | 689.4 | 930.2 | 1409.2 | 913.6 | 658.9 | 539.9 | 443.0 |
| 80° | 329.5 | 337.8 | 393.1 | 537.1 | 653.4 | 877.6 | 581.4 | 487.3 | 407.0 | 276.9 |
| 82.5° | 238.1 | 238.1 | 257.5 | 390.4 | 398.7 | 473.4 | 315.6 | 343.3 | 268.6 | 196.6 |
| 85° | 141.2 | 138.4 | 160.6 | 232.6 | 207.6 | 174.4 | 144.0 | 210.4 | 168.9 | 121.8 |
| 87.5° | 49.8 | 52.6 | 49.8 | 66.4 | 55.4 | 47.1 | 44.3 | 58.1 | 47.1 | 41.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 6567.1 |
| 6605.9 |
| 6697.2 |
| 6835.6 |
| 7001.8 |
| 7173.4 |
| 7361.7 |
| 7619.2 |
| 7909.9 |
| 8222.7 |
| 8574.3 |
| 8939.8 |
| 9338.4 |
| 9806.3 |
| 10332.4 |
| 10908.2 |
| 11497.9 |
| 12209.5 |
| 12981.9 |
| 13795.9 |
| 14634.8 |
| 15446.0 |
| 16044.0 |
| 16138.1 |
| 15346.3 |
| 13366.7 |
| 9858.9 |
| 4665.1 |
| 1733.1 |
| 974.5 |
| 689.4 |
| 451.3 |
| 285.2 |
| 196.6 |
| 119.0 |
| 38.8 |
| 0.0 |

OF REPORT)