

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: P939483

Luminaire Tested: **GALN-SB2A-835-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-835-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8231 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

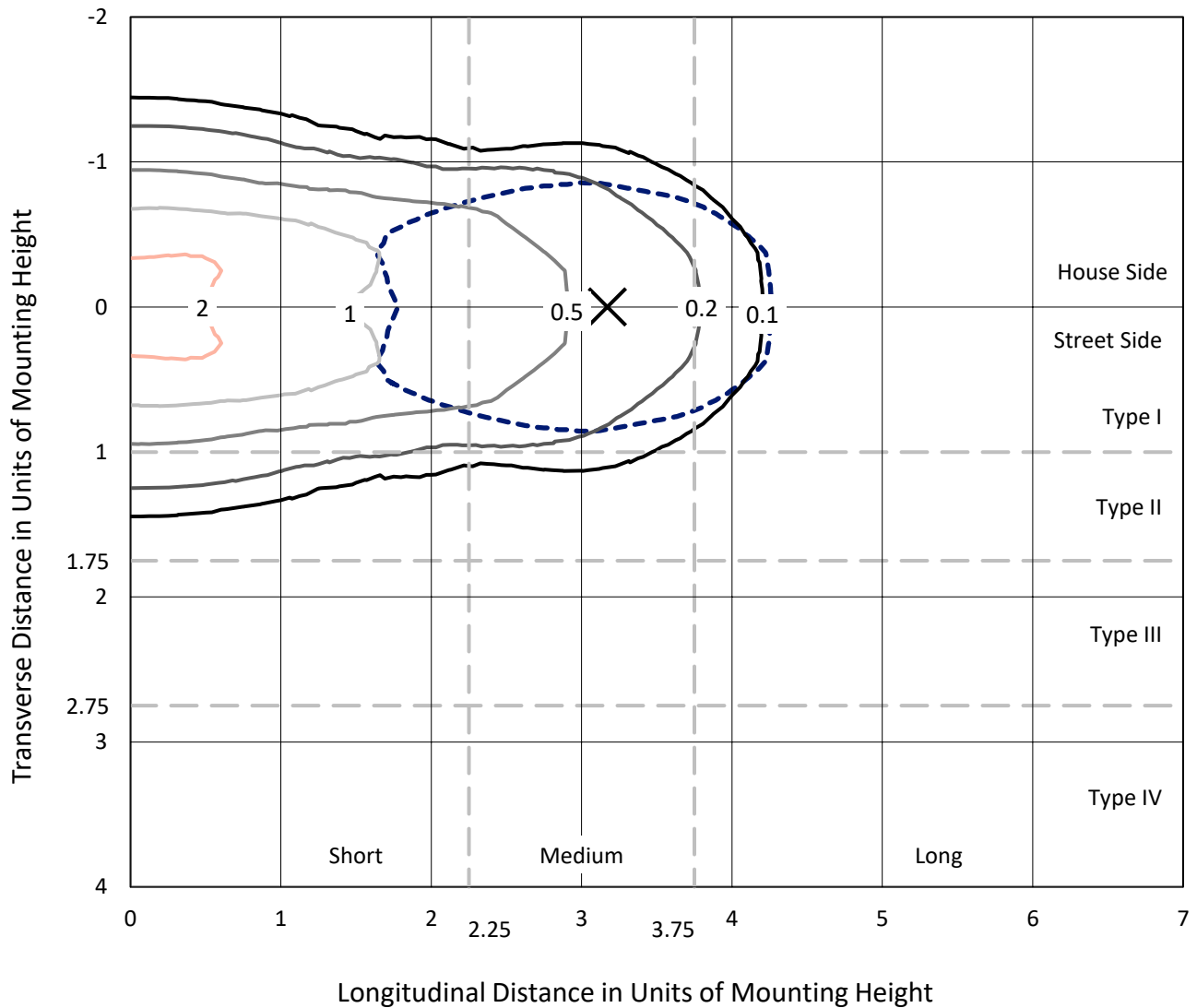
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

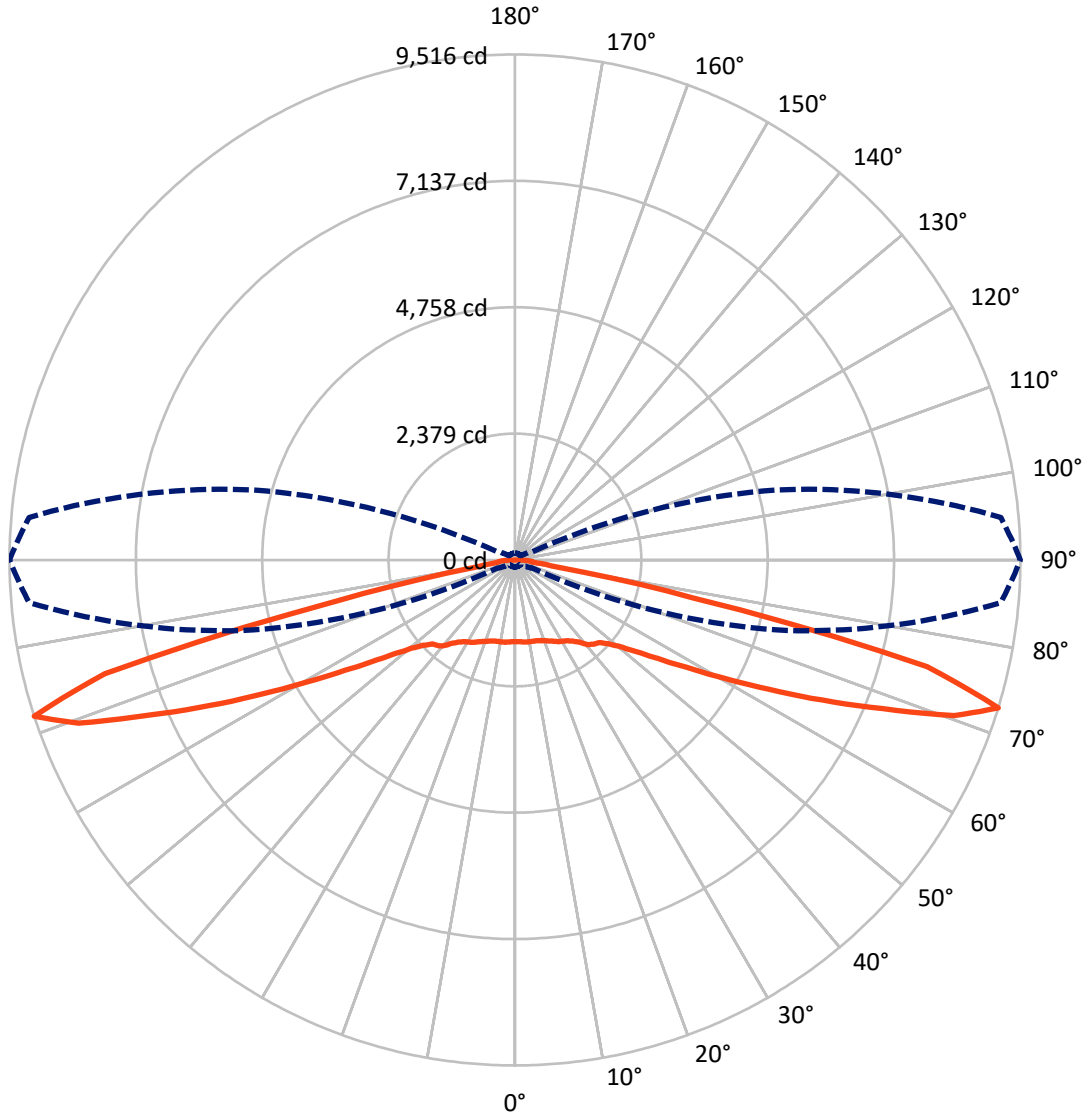
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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 | 4115.5 | 0.0 | 4115.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4115.5 | 0.0 | 4115.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8231.0 | 0.0 | 8231.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.1 | 1.8 |
| 10°-20° | 456.0 | 5.5 |
| 20°-30° | 760.3 | 9.2 |
| 30°-40° | 1045.7 | 12.7 |
| 40°-50° | 1277.1 | 15.5 |
| 50°-60° | 1477.0 | 17.9 |
| 60°-70° | 1761.1 | 21.4 |
| 70°-80° | 1229.2 | 14.9 |
| 80°-90° | 75.5 | 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° | 8231.0 | 100.0 |
| 0°-180° | 8231.0 | 100.0 |

Coefficient of Utilization



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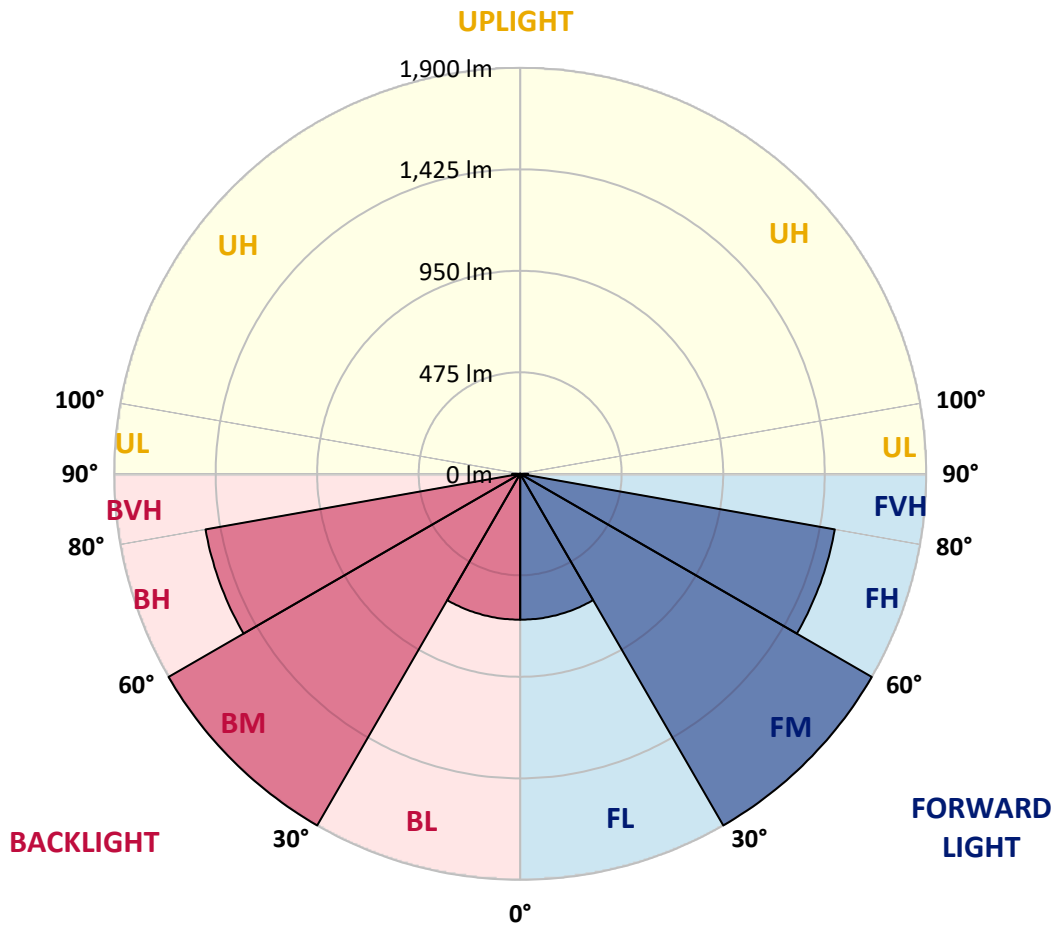
CATALOG NUMBER: GALN-SB2A-835-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 682.7 | 8.3 | | | |
| FM (30°-60°) | 1899.9 | 23.1 | | | |
| FH (60°-80°) | 1495.1 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 37.7 | 0.5 | | | G1/100 |
| BL (0°-30°) | 682.7 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 1899.9 | 23.1 | B2/2500 | | |
| BH (60°-80°) | 1495.1 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 37.7 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1538.0 | 1538.0 | 1538.0 | 1538.0 | 1538.0 | 1538.0 | 1538.0 | 1538.0 | 1538.0 | 1538.0 |
| 2.5° | 1539.4 | 1541.1 | 1541.1 | 1539.8 | 1542.9 | 1540.2 | 1540.2 | 1538.9 | 1540.2 | 1538.9 |
| 5° | 1547.2 | 1549.4 | 1550.3 | 1549.9 | 1553.8 | 1551.6 | 1551.6 | 1549.9 | 1550.3 | 1549.0 |
| 7.5° | 1562.1 | 1565.2 | 1566.9 | 1569.1 | 1574.8 | 1572.2 | 1570.4 | 1565.2 | 1563.0 | 1559.5 |
| 10° | 1566.9 | 1570.4 | 1576.1 | 1587.5 | 1600.6 | 1601.0 | 1595.8 | 1582.7 | 1572.6 | 1564.7 |
| 12.5° | 1552.0 | 1556.9 | 1568.7 | 1591.9 | 1621.2 | 1633.0 | 1624.7 | 1602.8 | 1583.1 | 1569.1 |
| 15° | 1533.2 | 1538.5 | 1556.4 | 1591.4 | 1634.7 | 1662.3 | 1661.4 | 1632.5 | 1601.0 | 1579.2 |
| 17.5° | 1503.9 | 1509.2 | 1535.0 | 1584.0 | 1645.2 | 1690.7 | 1703.0 | 1673.2 | 1629.0 | 1599.7 |
| 20° | 1451.0 | 1455.8 | 1491.7 | 1560.4 | 1648.7 | 1720.9 | 1752.8 | 1726.6 | 1671.5 | 1631.7 |
| 22.5° | 1382.3 | 1389.8 | 1431.8 | 1519.7 | 1640.4 | 1752.4 | 1809.7 | 1791.8 | 1720.9 | 1665.8 |
| 25° | 1308.8 | 1316.7 | 1365.7 | 1469.8 | 1619.0 | 1775.1 | 1877.1 | 1865.7 | 1776.9 | 1708.2 |
| 27.5° | 1245.4 | 1253.7 | 1307.1 | 1420.4 | 1585.7 | 1783.9 | 1943.6 | 1949.2 | 1844.7 | 1755.0 |
| 30° | 1195.5 | 1203.4 | 1260.3 | 1380.6 | 1542.9 | 1775.1 | 2001.7 | 2041.1 | 1913.8 | 1795.7 |
| 32.5° | 1140.9 | 1150.9 | 1210.8 | 1332.0 | 1492.1 | 1754.1 | 2052.5 | 2140.4 | 1993.9 | 1839.4 |
| 35° | 1071.7 | 1080.9 | 1143.9 | 1265.5 | 1425.6 | 1720.5 | 2094.9 | 2250.6 | 2108.5 | 1905.9 |
| 37.5° | 987.7 | 996.5 | 1059.0 | 1182.4 | 1359.6 | 1673.2 | 2127.3 | 2374.9 | 2245.0 | 2001.7 |
| 40° | 903.3 | 911.6 | 970.2 | 1089.7 | 1280.4 | 1612.9 | 2138.7 | 2496.5 | 2401.6 | 2133.4 |
| 42.5° | 825.9 | 833.3 | 887.1 | 998.2 | 1191.6 | 1535.9 | 2123.8 | 2602.3 | 2542.0 | 2225.3 |
| 45° | 754.6 | 761.2 | 808.8 | 912.5 | 1099.3 | 1442.2 | 2079.2 | 2716.1 | 2709.1 | 2290.9 |
| 47.5° | 673.2 | 679.8 | 729.2 | 829.4 | 1007.0 | 1332.5 | 2003.5 | 2828.1 | 2941.4 | 2439.6 |
| 50° | 573.9 | 579.6 | 630.4 | 733.6 | 911.2 | 1215.7 | 1898.5 | 2916.0 | 3234.5 | 2664.9 |
| 52.5° | 456.3 | 462.4 | 511.8 | 615.0 | 797.5 | 1090.1 | 1760.3 | 2973.3 | 3573.0 | 2993.9 |
| 55° | 339.5 | 343.8 | 386.7 | 479.4 | 656.6 | 947.1 | 1587.0 | 2989.5 | 3957.1 | 3443.6 |
| 57.5° | 246.3 | 248.9 | 276.5 | 345.6 | 497.8 | 768.1 | 1376.6 | 2947.5 | 4414.2 | 4020.1 |
| 60° | 199.5 | 200.3 | 208.7 | 239.3 | 346.0 | 566.1 | 1122.5 | 2803.1 | 4910.3 | 4763.3 |
| 62.5° | 181.1 | 181.1 | 183.3 | 191.6 | 234.0 | 373.6 | 815.0 | 2503.9 | 5442.2 | 5702.5 |
| 65° | 168.4 | 168.4 | 169.3 | 173.2 | 184.6 | 238.0 | 514.4 | 2016.6 | 5890.6 | 6802.7 |
| 67.5° | 157.0 | 157.5 | 157.0 | 158.4 | 164.9 | 175.9 | 298.3 | 1392.8 | 6132.1 | 7942.7 |
| 70° | 145.2 | 146.1 | 143.9 | 143.9 | 149.2 | 149.6 | 186.8 | 763.8 | 5931.7 | 8898.0 |
| 72.5° | 131.2 | 132.5 | 129.0 | 128.2 | 132.1 | 130.4 | 140.4 | 366.6 | 5092.7 | 9183.2 |
| 75° | 119.0 | 120.7 | 112.9 | 110.7 | 110.7 | 109.4 | 114.2 | 188.1 | 3305.3 | 7491.2 |
| 77.5° | 108.0 | 111.5 | 98.9 | 91.9 | 90.1 | 86.2 | 93.2 | 115.0 | 1445.7 | 3517.0 |
| 80° | 89.2 | 94.1 | 81.4 | 73.1 | 70.0 | 65.6 | 73.5 | 80.5 | 430.0 | 816.7 |
| 82.5° | 66.5 | 68.7 | 57.7 | 52.1 | 49.4 | 46.4 | 55.1 | 56.0 | 140.0 | 289.1 |
| 85° | 42.4 | 43.3 | 35.4 | 30.6 | 29.3 | 28.0 | 35.0 | 30.6 | 53.4 | 212.6 |
| 87.5° | 14.9 | 17.1 | 13.6 | 12.2 | 13.1 | 10.9 | 16.2 | 9.2 | 14.9 | 150.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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90°

1538.0
1538.9
1549.0
1559.5
1563.4
1566.9
1575.7
1594.9
1624.2
1655.7
1694.2
1740.1
1774.3
1812.3
1875.8
1961.5
2090.5
2170.2
2216.5
2353.9
2557.3
2861.3
3277.8
3811.4
4500.4
5350.4
6357.4
7461.9
8771.6
9515.7
8012.6
3444.0
782.1
326.8
308.8
185.9
0.0

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