

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: P939990

Luminaire Tested: **GALN-SB2D-835-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB2D-835-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19093 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

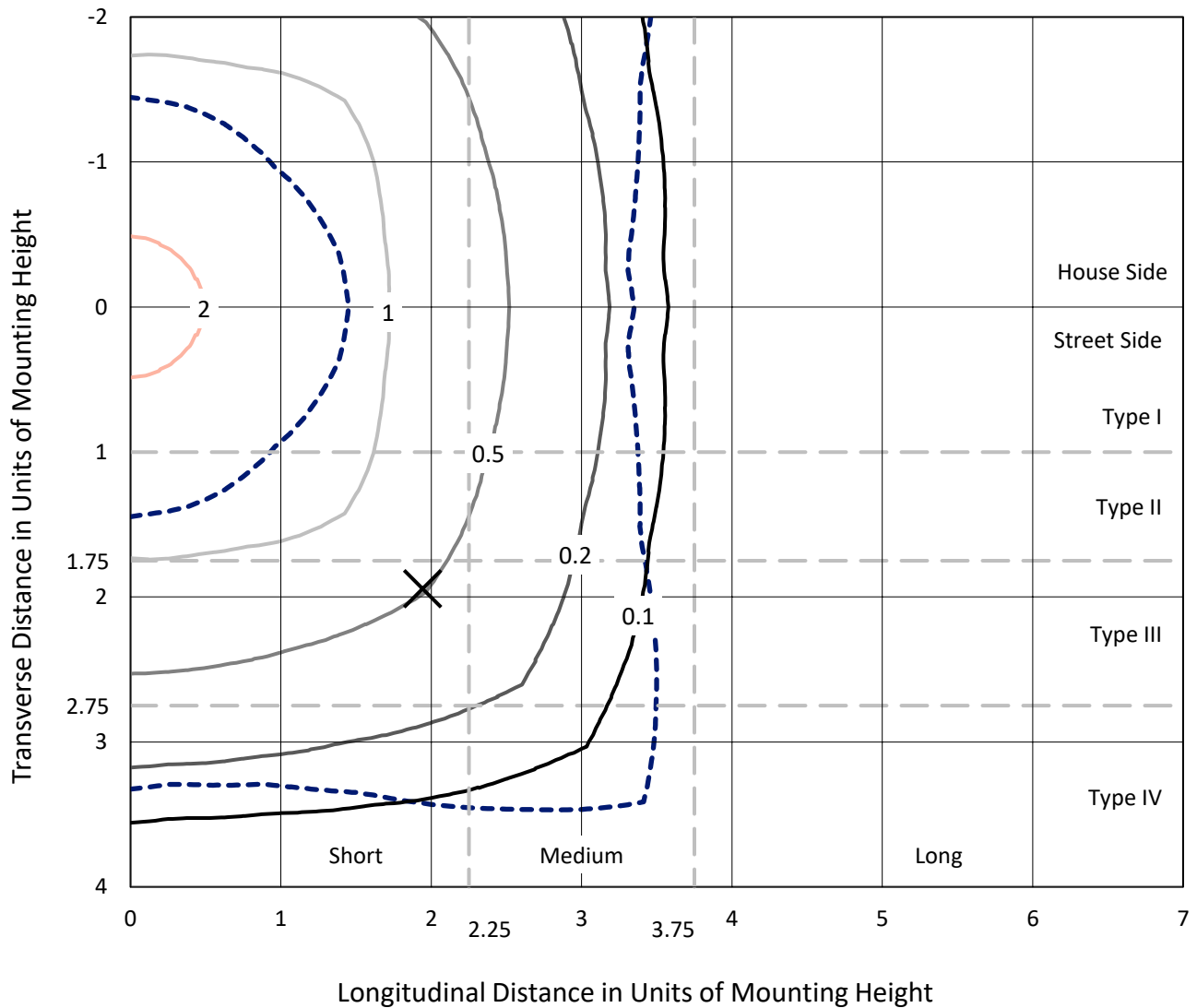
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939990
 CATALOG NUMBER: GALN-SB2D-835-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

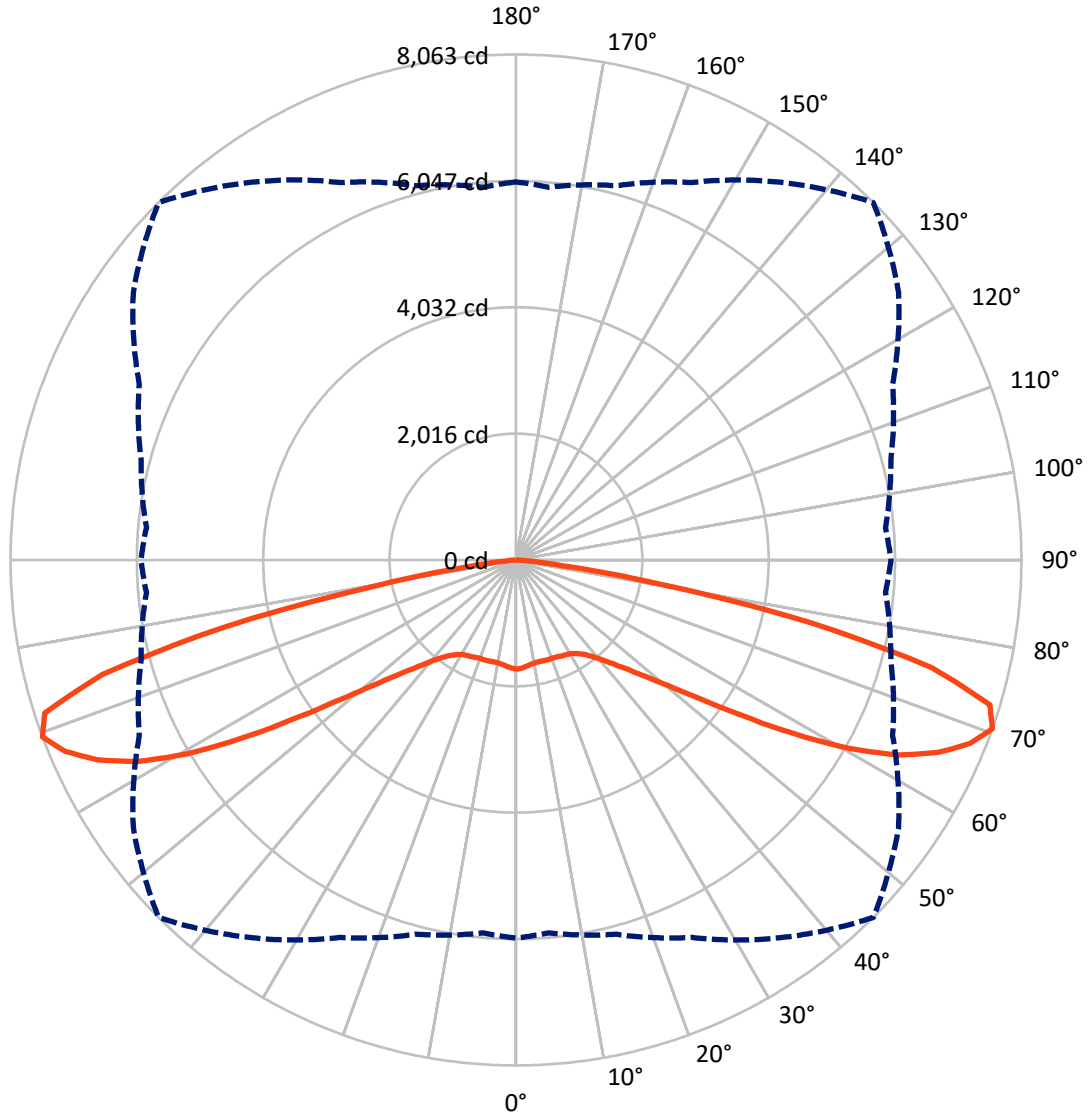
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

REPORT NUMBER: P939990
CATALOG NUMBER: GALN-SB2D-835-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P939990

CATALOG NUMBER: GALN-SB2D-835-U-5WQ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9546.5 | 0.0 | 9546.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9546.5 | 0.0 | 9546.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19093.0 | 0.0 | 19093.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 162.0 | 0.8 |
| 10°-20° | 475.7 | 2.5 |
| 20°-30° | 791.7 | 4.1 |
| 30°-40° | 1197.2 | 6.3 |
| 40°-50° | 1989.5 | 10.4 |
| 50°-60° | 3754.2 | 19.7 |
| 60°-70° | 6339.0 | 33.2 |
| 70°-80° | 4165.4 | 21.8 |
| 80°-90° | 218.2 | 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° | 19093.0 | 100.0 |
| 0°-180° | 19093.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P939990

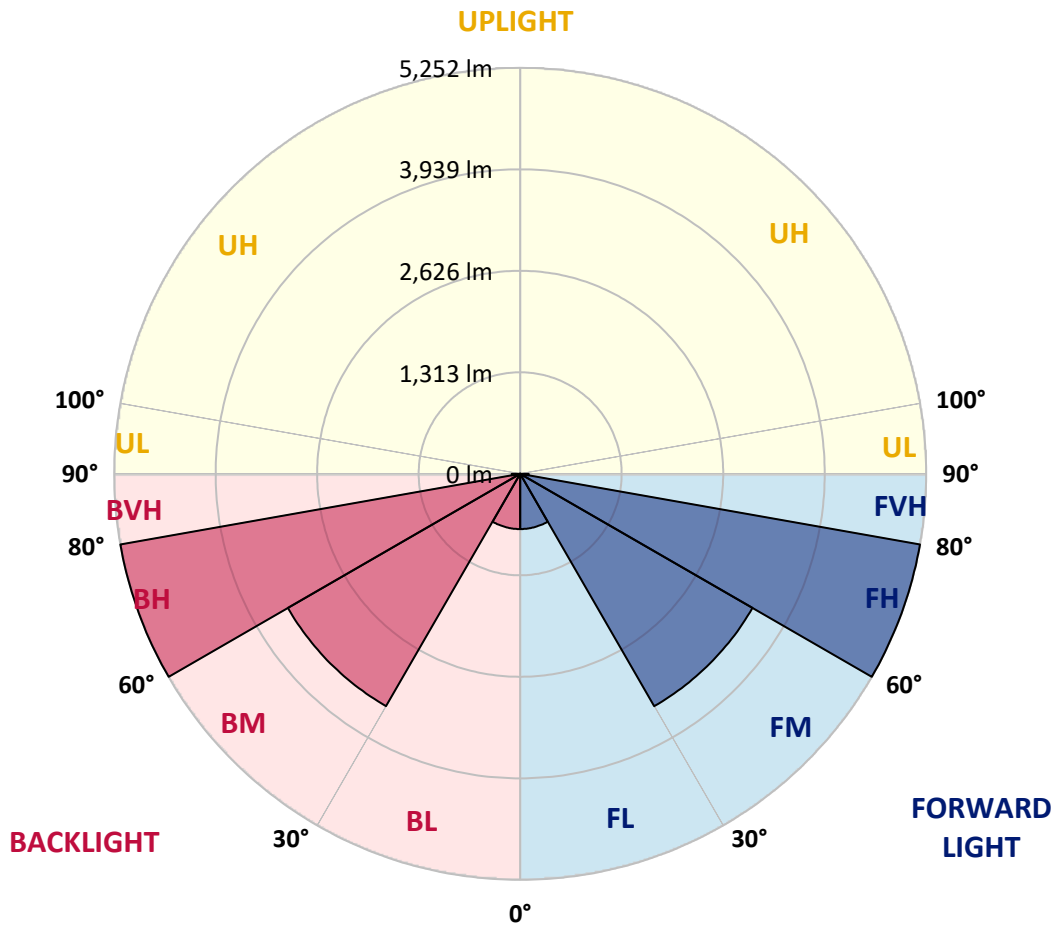
CATALOG NUMBER: GALN-SB2D-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 714.7 | 3.7 | | | |
| FM (30°-60°) | 3470.5 | 18.2 | | | |
| FH (60°-80°) | 5252.2 | 27.5 | | | G3/7500 |
| FVH (80°-90°) | 109.1 | 0.6 | | | G2/225 |
| BL (0°-30°) | 714.7 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 3470.5 | 18.2 | B3/5000 | | |
| BH (60°-80°) | 5252.2 | 27.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 109.1 | 0.6 | | | G2/225 |
| 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



REPORT NUMBER: P939990

CATALOG NUMBER: GALN-SB2D-835-U-5WQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1741.7 | 1741.7 | 1741.7 | 1741.7 | 1741.7 | 1741.7 | 1741.7 | 1741.7 | 1741.7 | 1741.7 |
| 2.5° | 1730.7 | 1735.7 | 1733.7 | 1729.8 | 1729.8 | 1726.8 | 1729.8 | 1731.7 | 1734.7 | 1736.7 |
| 5° | 1707.9 | 1711.9 | 1710.9 | 1707.9 | 1708.9 | 1705.9 | 1707.9 | 1710.9 | 1712.9 | 1713.9 |
| 7.5° | 1688.1 | 1692.0 | 1690.1 | 1685.1 | 1685.1 | 1682.1 | 1683.1 | 1686.1 | 1689.1 | 1690.1 |
| 10° | 1683.1 | 1687.1 | 1681.1 | 1673.2 | 1670.2 | 1666.2 | 1667.2 | 1670.2 | 1676.2 | 1679.1 |
| 12.5° | 1685.1 | 1688.1 | 1682.1 | 1670.2 | 1667.2 | 1663.3 | 1663.3 | 1666.2 | 1674.2 | 1678.2 |
| 15° | 1691.1 | 1694.0 | 1685.1 | 1672.2 | 1669.2 | 1666.2 | 1665.3 | 1669.2 | 1678.2 | 1685.1 |
| 17.5° | 1702.0 | 1704.9 | 1691.1 | 1673.2 | 1669.2 | 1670.2 | 1669.2 | 1672.2 | 1686.1 | 1699.0 |
| 20° | 1711.9 | 1713.9 | 1695.0 | 1673.2 | 1669.2 | 1670.2 | 1669.2 | 1675.2 | 1693.0 | 1710.9 |
| 22.5° | 1714.9 | 1716.9 | 1699.0 | 1680.1 | 1677.2 | 1678.2 | 1677.2 | 1683.1 | 1700.0 | 1717.8 |
| 25° | 1715.9 | 1718.8 | 1704.9 | 1690.1 | 1695.0 | 1697.0 | 1695.0 | 1696.0 | 1708.9 | 1724.8 |
| 27.5° | 1730.7 | 1734.7 | 1721.8 | 1708.9 | 1711.9 | 1710.9 | 1713.9 | 1716.9 | 1726.8 | 1742.7 |
| 30° | 1761.5 | 1764.5 | 1753.6 | 1740.7 | 1738.7 | 1731.7 | 1740.7 | 1750.6 | 1761.5 | 1775.4 |
| 32.5° | 1812.1 | 1818.1 | 1804.2 | 1790.3 | 1781.4 | 1777.4 | 1784.3 | 1801.2 | 1816.1 | 1831.0 |
| 35° | 1896.5 | 1900.5 | 1887.5 | 1861.7 | 1845.9 | 1845.9 | 1851.8 | 1873.7 | 1897.5 | 1916.3 |
| 37.5° | 2015.6 | 2020.5 | 1997.7 | 1966.9 | 1943.1 | 1943.1 | 1951.1 | 1973.9 | 2009.6 | 2036.4 |
| 40° | 2160.5 | 2167.4 | 2138.6 | 2106.9 | 2084.0 | 2080.1 | 2090.0 | 2115.8 | 2149.5 | 2183.3 |
| 42.5° | 2335.1 | 2343.1 | 2305.4 | 2277.6 | 2259.7 | 2259.7 | 2264.7 | 2288.5 | 2319.2 | 2360.9 |
| 45° | 2558.4 | 2572.3 | 2520.7 | 2492.9 | 2476.0 | 2480.0 | 2483.0 | 2503.8 | 2531.6 | 2579.3 |
| 47.5° | 2824.4 | 2838.3 | 2783.7 | 2754.9 | 2751.9 | 2770.8 | 2758.9 | 2773.8 | 2788.7 | 2843.2 |
| 50° | 3126.1 | 3149.9 | 3112.2 | 3110.2 | 3116.1 | 3150.9 | 3123.1 | 3131.0 | 3114.2 | 3148.9 |
| 52.5° | 3495.2 | 3530.0 | 3523.0 | 3534.9 | 3601.4 | 3672.9 | 3609.4 | 3581.6 | 3518.1 | 3529.0 |
| 55° | 3942.8 | 3995.4 | 4005.3 | 4076.8 | 4227.6 | 4373.5 | 4238.6 | 4126.4 | 3991.4 | 3966.6 |
| 57.5° | 4451.9 | 4493.6 | 4541.2 | 4687.1 | 4969.0 | 5228.0 | 4969.0 | 4720.9 | 4508.5 | 4457.9 |
| 60° | 4999.7 | 5051.3 | 5097.0 | 5312.3 | 5731.1 | 6095.3 | 5723.2 | 5329.2 | 5048.4 | 4979.9 |
| 62.5° | 5588.2 | 5654.7 | 5686.5 | 5925.6 | 6413.9 | 6848.6 | 6420.8 | 5943.5 | 5631.9 | 5558.4 |
| 65° | 6152.9 | 6207.5 | 6243.2 | 6498.3 | 6964.7 | 7400.3 | 6996.4 | 6526.0 | 6205.5 | 6109.2 |
| 67.5° | 6415.9 | 6445.7 | 6533.0 | 6821.8 | 7314.0 | 7811.2 | 7397.4 | 6852.5 | 6494.3 | 6325.6 |
| 70° | 6030.8 | 5970.3 | 6180.7 | 6643.1 | 7355.7 | 8063.3 | 7451.0 | 6629.2 | 6190.6 | 5916.7 |
| 72.5° | 4660.3 | 4556.1 | 4921.3 | 5712.3 | 6879.3 | 7902.5 | 6927.0 | 5756.9 | 5148.6 | 4592.8 |
| 75° | 2535.6 | 2417.5 | 2921.6 | 3922.0 | 5486.0 | 6849.6 | 5612.0 | 4034.1 | 3253.1 | 2516.7 |
| 77.5° | 715.5 | 670.9 | 1077.7 | 1897.5 | 3299.7 | 4809.2 | 3426.8 | 1939.2 | 1278.2 | 758.2 |
| 80° | 219.3 | 212.4 | 287.8 | 571.6 | 1401.3 | 2303.4 | 1346.7 | 578.6 | 366.2 | 231.2 |
| 82.5° | 130.0 | 119.1 | 142.9 | 208.4 | 357.3 | 723.5 | 347.3 | 217.3 | 174.7 | 117.1 |
| 85° | 74.4 | 69.5 | 84.4 | 101.2 | 120.1 | 153.8 | 100.2 | 103.2 | 93.3 | 62.5 |
| 87.5° | 30.8 | 27.8 | 32.7 | 31.8 | 27.8 | 35.7 | 26.8 | 31.8 | 37.7 | 24.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 1741.7 |
| 1735.7 |
| 1713.9 |
| 1690.1 |
| 1679.1 |
| 1679.1 |
| 1686.1 |
| 1699.0 |
| 1711.9 |
| 1717.8 |
| 1723.8 |
| 1738.7 |
| 1772.4 |
| 1825.0 |
| 1909.4 |
| 2026.5 |
| 2172.4 |
| 2357.9 |
| 2577.3 |
| 2827.4 |
| 3128.1 |
| 3492.3 |
| 3927.9 |
| 4422.1 |
| 4920.3 |
| 5498.9 |
| 6061.6 |
| 6327.6 |
| 5982.2 |
| 4730.8 |
| 2680.5 |
| 842.5 |
| 244.1 |
| 127.0 |
| 65.5 |
| 22.8 |
| 0.0 |

OF REPORT)