

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: P939650

Luminaire Tested: **GALN-SB2B-835-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939650
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-SB2B-835-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10565 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

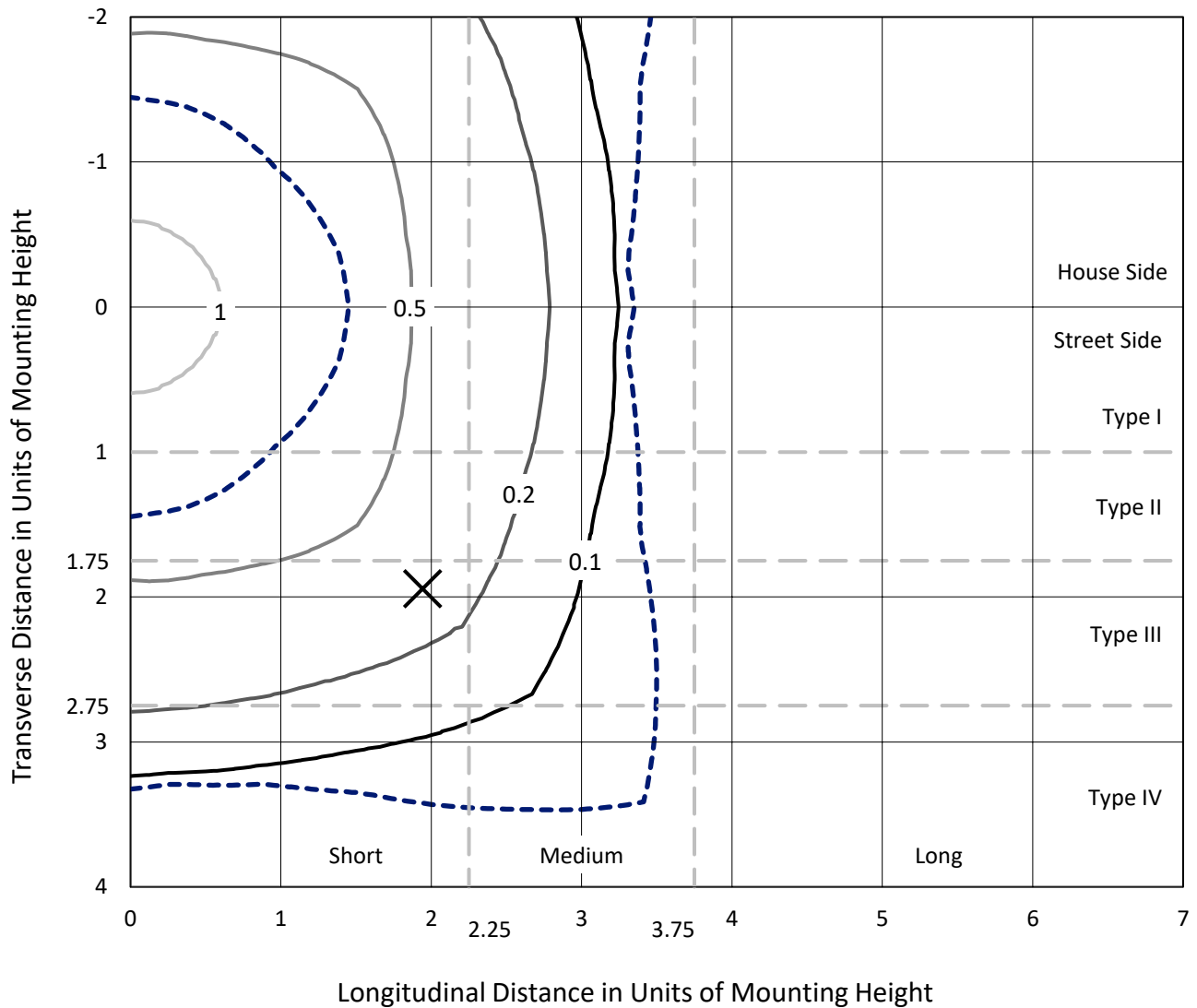
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

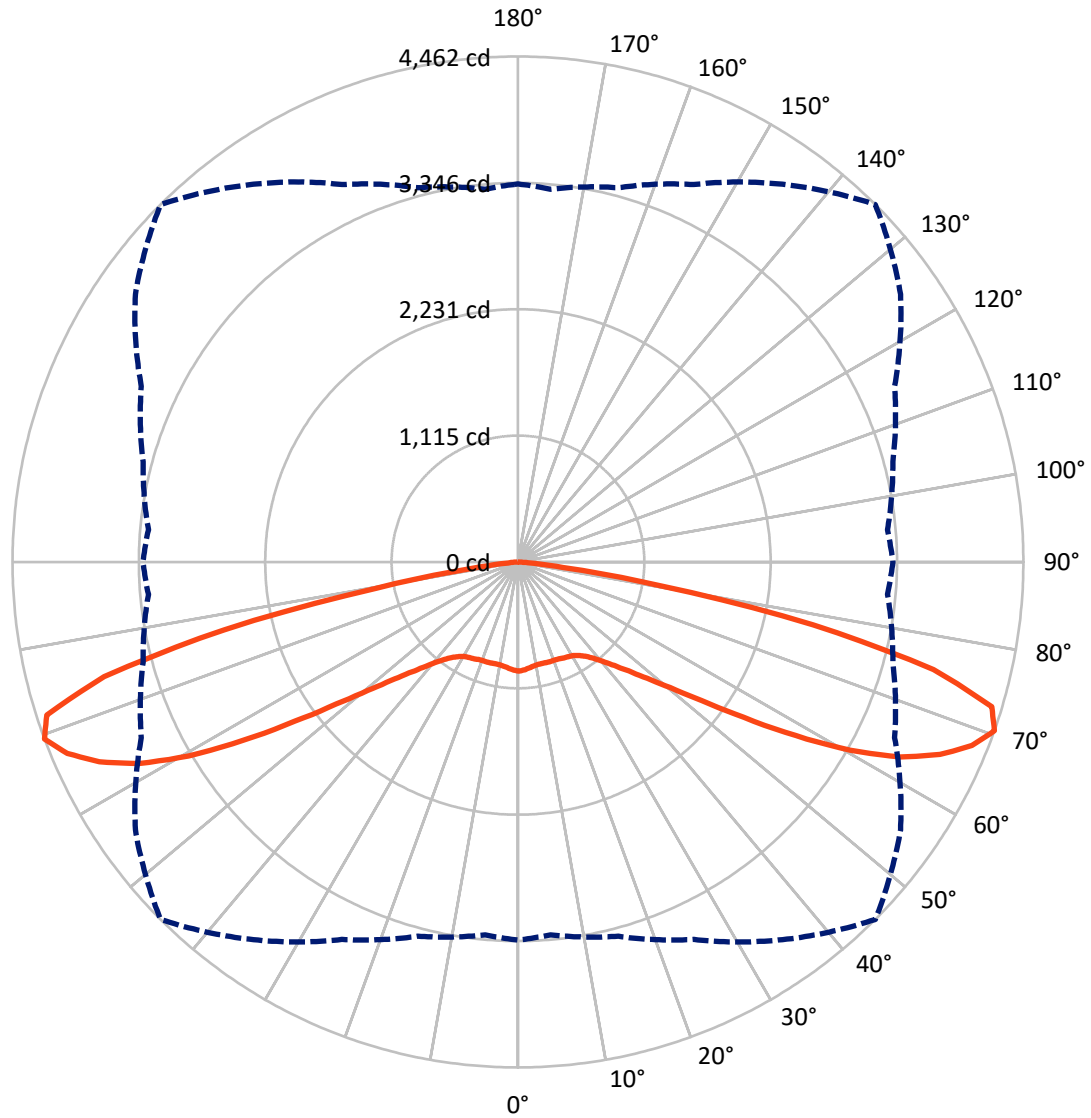
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5282.5 | 0.0 | 5282.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5282.5 | 0.0 | 5282.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10565.0 | 0.0 | 10565.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 89.7 | 0.8 |
| 10°-20° | 263.2 | 2.5 |
| 20°-30° | 438.1 | 4.1 |
| 30°-40° | 662.5 | 6.3 |
| 40°-50° | 1100.9 | 10.4 |
| 50°-60° | 2077.3 | 19.7 |
| 60°-70° | 3507.7 | 33.2 |
| 70°-80° | 2304.9 | 21.8 |
| 80°-90° | 120.8 | 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° | 10565.0 | 100.0 |
| 0°-180° | 10565.0 | 100.0 |

Coefficient of Utilization



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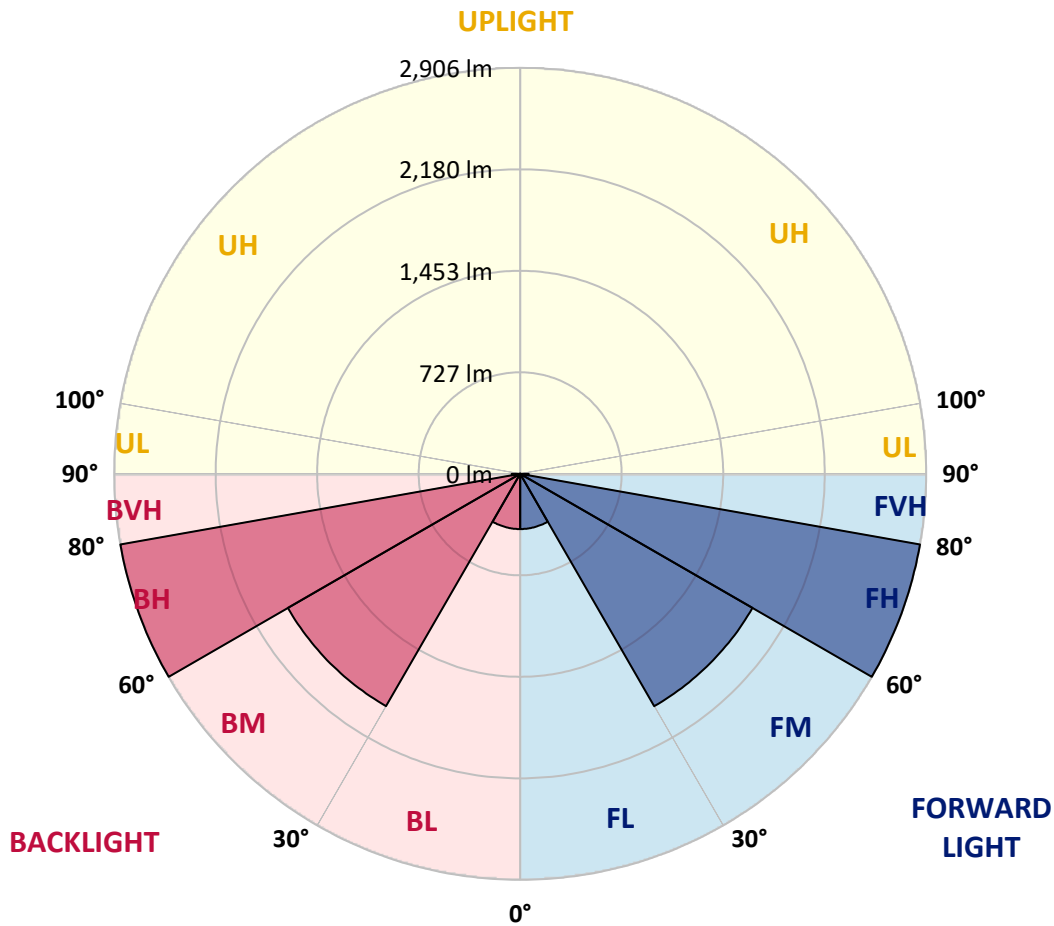
CATALOG NUMBER: GALN-SB2B-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 395.5 | 3.7 | | | |
| FM (30°-60°) | 1920.4 | 18.2 | | | |
| FH (60°-80°) | 2906.3 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 60.4 | 0.6 | | | G1/100 |
| BL (0°-30°) | 395.5 | 3.7 | B1/500 | | |
| BM (30°-60°) | 1920.4 | 18.2 | B2/2500 | | |
| BH (60°-80°) | 2906.3 | 27.5 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 60.4 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 963.7 | 963.7 | 963.7 | 963.7 | 963.7 | 963.7 | 963.7 | 963.7 | 963.7 | 963.7 |
| 2.5° | 957.7 | 960.4 | 959.3 | 957.2 | 957.2 | 955.5 | 957.2 | 958.2 | 959.9 | 961.0 |
| 5° | 945.1 | 947.3 | 946.7 | 945.1 | 945.6 | 944.0 | 945.1 | 946.7 | 947.8 | 948.4 |
| 7.5° | 934.1 | 936.3 | 935.2 | 932.4 | 932.4 | 930.8 | 931.3 | 933.0 | 934.6 | 935.2 |
| 10° | 931.3 | 933.5 | 930.2 | 925.9 | 924.2 | 922.0 | 922.6 | 924.2 | 927.5 | 929.1 |
| 12.5° | 932.4 | 934.1 | 930.8 | 924.2 | 922.6 | 920.4 | 920.4 | 922.0 | 926.4 | 928.6 |
| 15° | 935.7 | 937.4 | 932.4 | 925.3 | 923.7 | 922.0 | 921.5 | 923.7 | 928.6 | 932.4 |
| 17.5° | 941.8 | 943.4 | 935.7 | 925.9 | 923.7 | 924.2 | 923.7 | 925.3 | 933.0 | 940.1 |
| 20° | 947.3 | 948.4 | 937.9 | 925.9 | 923.7 | 924.2 | 923.7 | 926.9 | 936.8 | 946.7 |
| 22.5° | 948.9 | 950.0 | 940.1 | 929.7 | 928.0 | 928.6 | 928.0 | 931.3 | 940.7 | 950.6 |
| 25° | 949.5 | 951.1 | 943.4 | 935.2 | 937.9 | 939.0 | 937.9 | 938.5 | 945.6 | 954.4 |
| 27.5° | 957.7 | 959.9 | 952.8 | 945.6 | 947.3 | 946.7 | 948.4 | 950.0 | 955.5 | 964.3 |
| 30° | 974.7 | 976.4 | 970.3 | 963.2 | 962.1 | 958.2 | 963.2 | 968.7 | 974.7 | 982.4 |
| 32.5° | 1002.7 | 1006.0 | 998.3 | 990.6 | 985.7 | 983.5 | 987.4 | 996.7 | 1004.9 | 1013.2 |
| 35° | 1049.4 | 1051.6 | 1044.5 | 1030.2 | 1021.4 | 1021.4 | 1024.7 | 1036.8 | 1050.0 | 1060.4 |
| 37.5° | 1115.3 | 1118.0 | 1105.4 | 1088.4 | 1075.2 | 1075.2 | 1079.6 | 1092.2 | 1112.0 | 1126.8 |
| 40° | 1195.5 | 1199.3 | 1183.4 | 1165.8 | 1153.2 | 1151.0 | 1156.5 | 1170.8 | 1189.4 | 1208.1 |
| 42.5° | 1292.1 | 1296.5 | 1275.7 | 1260.3 | 1250.4 | 1250.4 | 1253.1 | 1266.3 | 1283.3 | 1306.4 |
| 45° | 1415.7 | 1423.4 | 1394.8 | 1379.4 | 1370.1 | 1372.3 | 1373.9 | 1385.5 | 1400.9 | 1427.2 |
| 47.5° | 1562.9 | 1570.5 | 1540.3 | 1524.4 | 1522.8 | 1533.2 | 1526.6 | 1534.8 | 1543.1 | 1573.3 |
| 50° | 1729.8 | 1743.0 | 1722.1 | 1721.0 | 1724.3 | 1743.5 | 1728.1 | 1732.5 | 1723.2 | 1742.4 |
| 52.5° | 1934.1 | 1953.3 | 1949.4 | 1956.0 | 1992.8 | 2032.4 | 1997.2 | 1981.8 | 1946.7 | 1952.7 |
| 55° | 2181.7 | 2210.8 | 2216.3 | 2255.9 | 2339.3 | 2420.1 | 2345.4 | 2283.3 | 2208.6 | 2194.9 |
| 57.5° | 2463.4 | 2486.5 | 2512.9 | 2593.6 | 2749.5 | 2892.9 | 2749.5 | 2612.3 | 2494.7 | 2466.7 |
| 60° | 2766.6 | 2795.1 | 2820.4 | 2939.5 | 3171.3 | 3372.8 | 3166.9 | 2948.9 | 2793.5 | 2755.6 |
| 62.5° | 3092.2 | 3129.0 | 3146.6 | 3278.9 | 3549.1 | 3789.6 | 3552.9 | 3288.8 | 3116.4 | 3075.7 |
| 65° | 3404.7 | 3434.9 | 3454.6 | 3595.8 | 3853.9 | 4094.9 | 3871.4 | 3611.1 | 3433.8 | 3380.5 |
| 67.5° | 3550.2 | 3566.7 | 3615.0 | 3774.8 | 4047.2 | 4322.3 | 4093.3 | 3791.8 | 3593.6 | 3500.2 |
| 70° | 3337.1 | 3303.6 | 3420.0 | 3675.9 | 4070.2 | 4461.8 | 4122.9 | 3668.3 | 3425.5 | 3274.0 |
| 72.5° | 2578.8 | 2521.1 | 2723.2 | 3160.8 | 3806.6 | 4372.8 | 3833.0 | 3185.6 | 2848.9 | 2541.4 |
| 75° | 1403.1 | 1337.7 | 1616.7 | 2170.2 | 3035.6 | 3790.2 | 3105.4 | 2232.3 | 1800.1 | 1392.6 |
| 77.5° | 395.9 | 371.2 | 596.4 | 1050.0 | 1825.9 | 2661.1 | 1896.2 | 1073.0 | 707.3 | 419.5 |
| 80° | 121.4 | 117.5 | 159.3 | 316.3 | 775.4 | 1274.6 | 745.2 | 320.1 | 202.6 | 127.9 |
| 82.5° | 71.9 | 65.9 | 79.1 | 115.3 | 197.7 | 400.3 | 192.2 | 120.3 | 96.6 | 64.8 |
| 85° | 41.2 | 38.4 | 46.7 | 56.0 | 66.4 | 85.1 | 55.5 | 57.1 | 51.6 | 34.6 |
| 87.5° | 17.0 | 15.4 | 18.1 | 17.6 | 15.4 | 19.8 | 14.8 | 17.6 | 20.9 | 13.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 963.7 |
| 960.4 |
| 948.4 |
| 935.2 |
| 929.1 |
| 929.1 |
| 933.0 |
| 940.1 |
| 947.3 |
| 950.6 |
| 953.9 |
| 962.1 |
| 980.8 |
| 1009.9 |
| 1056.5 |
| 1121.3 |
| 1202.1 |
| 1304.8 |
| 1426.1 |
| 1564.5 |
| 1730.9 |
| 1932.4 |
| 2173.5 |
| 2447.0 |
| 2722.6 |
| 3042.8 |
| 3354.1 |
| 3501.3 |
| 3310.2 |
| 2617.8 |
| 1483.2 |
| 466.2 |
| 135.1 |
| 70.3 |
| 36.2 |
| 12.6 |
| 0.0 |

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