

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: P946048

Luminaire Tested: **GALN-SB1D-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9270 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

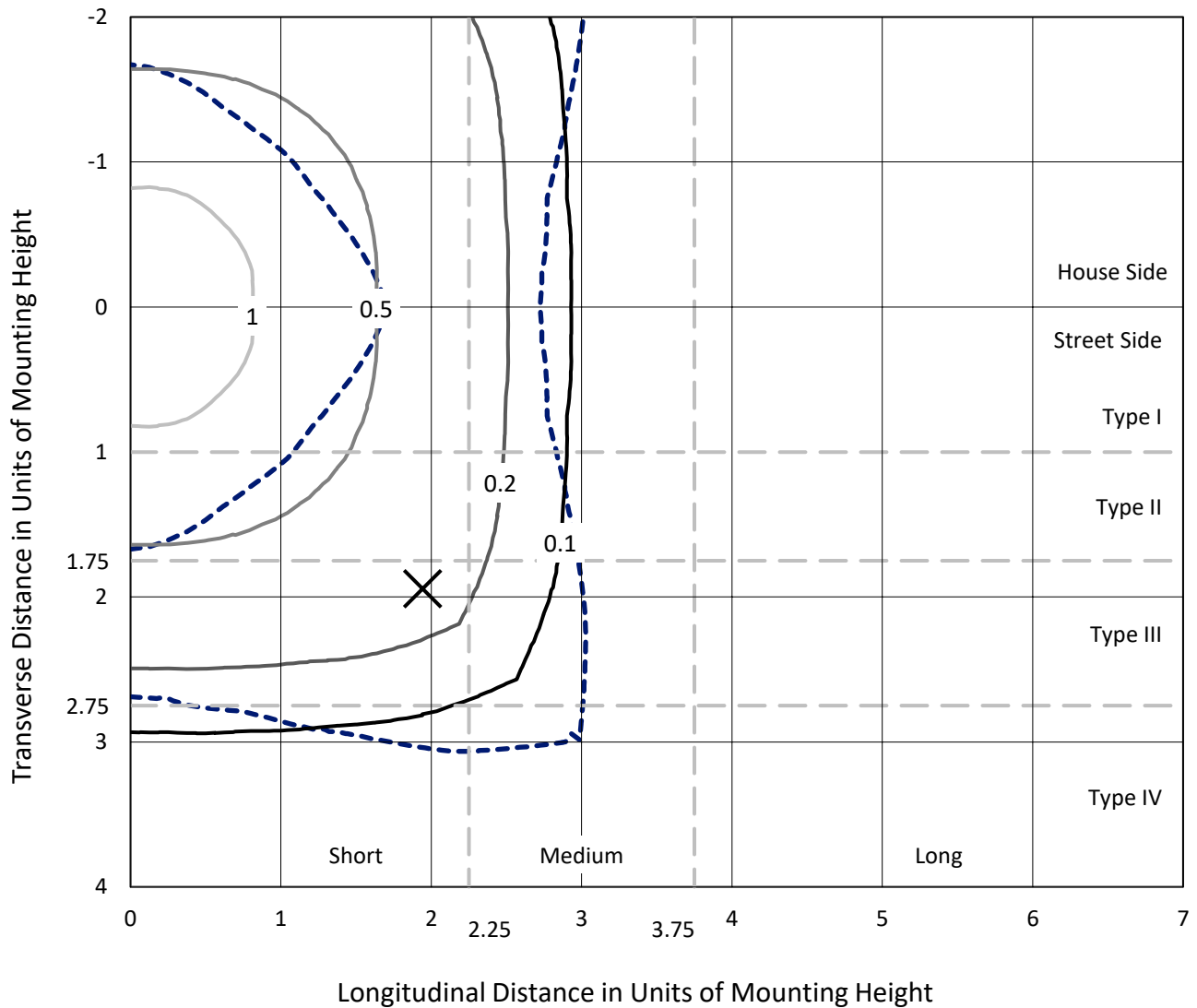
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

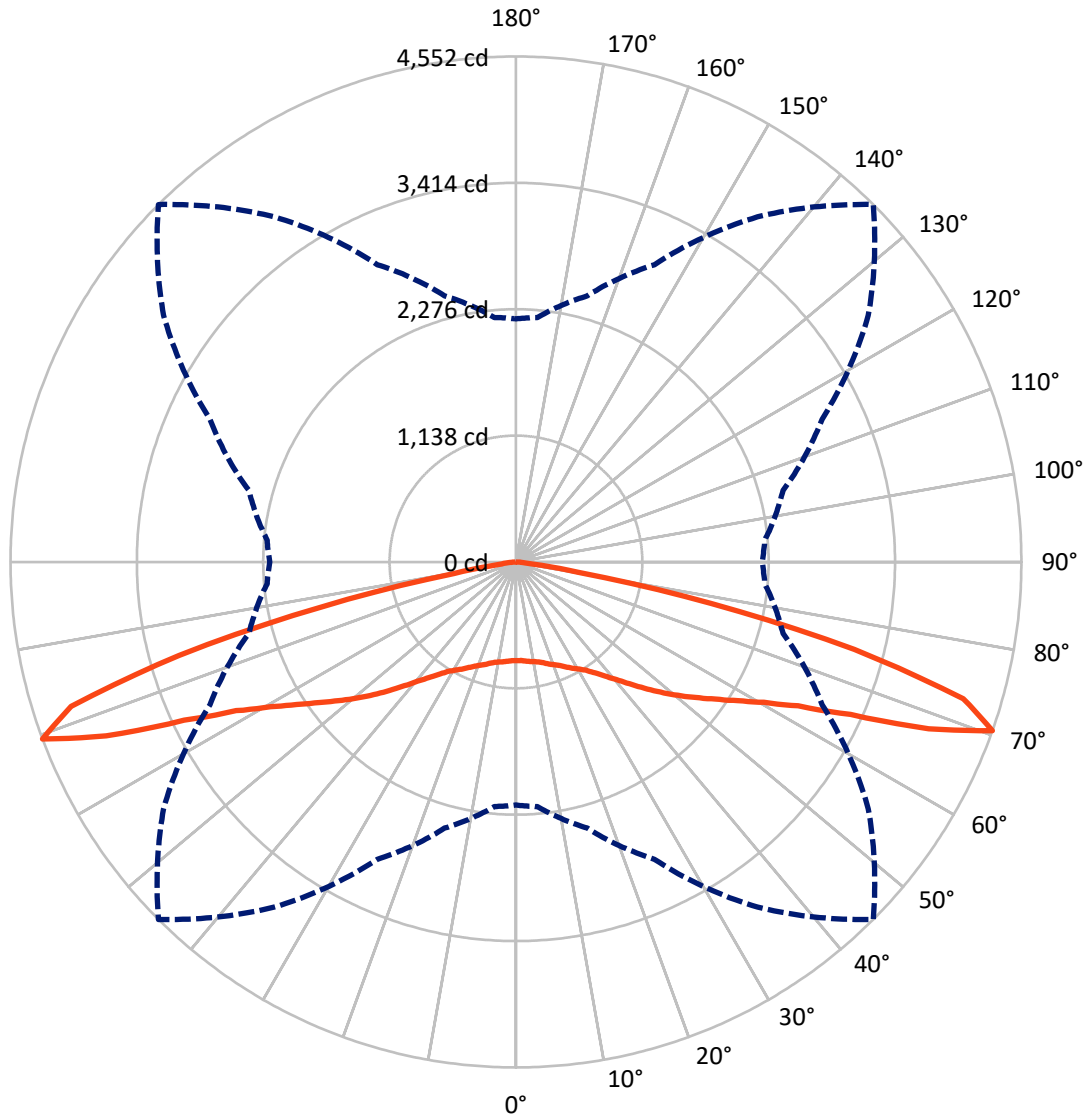
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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 | 4635.0 | 0.0 | 4635.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4635.0 | 0.0 | 4635.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9270.0 | 0.0 | 9270.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.3 | 0.9 |
| 10°-20° | 267.5 | 2.9 |
| 20°-30° | 478.1 | 5.2 |
| 30°-40° | 774.9 | 8.4 |
| 40°-50° | 1262.2 | 13.6 |
| 50°-60° | 1924.5 | 20.8 |
| 60°-70° | 2863.0 | 30.9 |
| 70°-80° | 1560.4 | 16.8 |
| 80°-90° | 53.1 | 0.6 |
| 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° | 9270.0 | 100.0 |
| 0°-180° | 9270.0 | 100.0 |

Coefficient of Utilization



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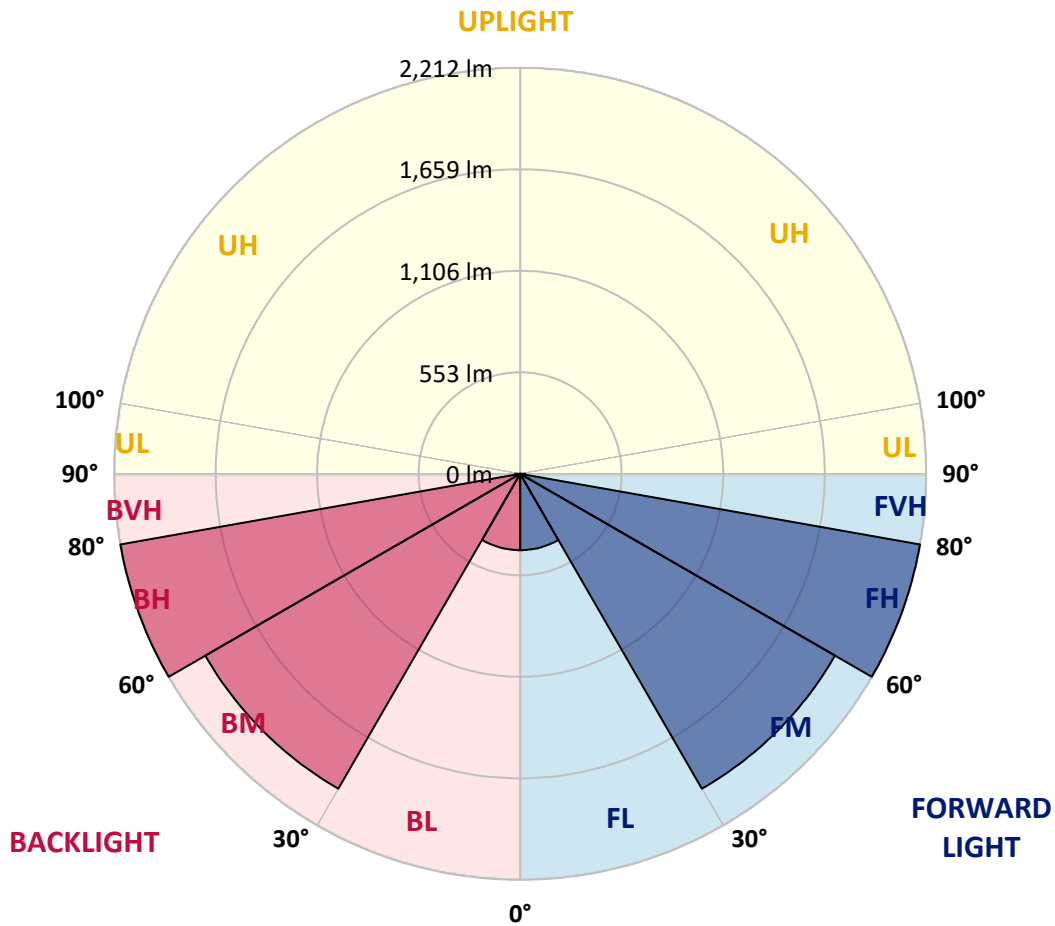
CATALOG NUMBER: GALN-SB1D-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 415.9 | 4.5 | | | |
| FM (30°-60°) | 1980.8 | 21.4 | | | |
| FH (60°-80°) | 2211.7 | 23.9 | | | G2/5000 |
| FVH (80°-90°) | 26.6 | 0.3 | | | G1/100 |
| BL (0°-30°) | 415.9 | 4.5 | B1/500 | | |
| BM (30°-60°) | 1980.8 | 21.4 | B2/2500 | | |
| BH (60°-80°) | 2211.7 | 23.9 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 26.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 888.0 | 888.0 | 888.0 | 888.0 | 888.0 | 888.0 | 888.0 | 888.0 | 888.0 | 888.0 |
| 2.5° | 892.2 | 893.1 | 891.2 | 890.3 | 889.4 | 888.0 | 888.4 | 890.8 | 892.6 | 892.2 |
| 5° | 899.6 | 900.5 | 899.1 | 898.7 | 896.8 | 896.3 | 896.3 | 898.7 | 900.1 | 899.1 |
| 7.5° | 908.0 | 909.4 | 907.1 | 906.6 | 905.7 | 904.7 | 904.3 | 906.6 | 908.0 | 908.0 |
| 10° | 915.9 | 917.3 | 915.4 | 914.0 | 913.1 | 913.1 | 912.2 | 914.0 | 916.4 | 915.9 |
| 12.5° | 924.3 | 925.2 | 923.3 | 922.4 | 922.4 | 923.8 | 922.4 | 923.3 | 925.2 | 924.3 |
| 15° | 934.5 | 935.0 | 934.5 | 935.9 | 938.2 | 942.9 | 938.7 | 937.8 | 938.7 | 936.4 |
| 17.5° | 948.5 | 949.4 | 951.3 | 954.5 | 957.8 | 966.2 | 958.7 | 956.4 | 956.4 | 951.7 |
| 20° | 965.7 | 967.1 | 969.9 | 975.5 | 979.7 | 987.6 | 980.1 | 976.9 | 975.5 | 969.4 |
| 22.5° | 983.8 | 986.2 | 990.4 | 997.8 | 1005.2 | 1012.7 | 1005.2 | 999.7 | 995.5 | 987.6 |
| 25° | 1004.8 | 1007.6 | 1014.1 | 1026.2 | 1036.4 | 1047.1 | 1038.3 | 1027.1 | 1018.7 | 1007.6 |
| 27.5° | 1034.6 | 1037.8 | 1045.7 | 1060.6 | 1073.7 | 1083.0 | 1074.6 | 1060.2 | 1048.5 | 1035.0 |
| 30° | 1076.5 | 1079.7 | 1089.0 | 1104.8 | 1113.7 | 1119.7 | 1114.2 | 1103.0 | 1089.0 | 1073.7 |
| 32.5° | 1130.4 | 1134.6 | 1144.9 | 1159.8 | 1161.6 | 1162.6 | 1160.7 | 1155.1 | 1144.9 | 1126.3 |
| 35° | 1198.9 | 1203.5 | 1215.1 | 1227.2 | 1225.4 | 1227.2 | 1224.4 | 1222.6 | 1215.1 | 1193.7 |
| 37.5° | 1282.6 | 1288.2 | 1300.3 | 1309.6 | 1305.0 | 1302.6 | 1303.1 | 1303.6 | 1299.4 | 1275.6 |
| 40° | 1379.9 | 1387.3 | 1396.2 | 1406.0 | 1398.0 | 1391.1 | 1395.7 | 1399.4 | 1395.7 | 1371.5 |
| 42.5° | 1480.0 | 1490.7 | 1500.0 | 1513.9 | 1507.4 | 1498.6 | 1505.1 | 1509.3 | 1501.4 | 1475.3 |
| 45° | 1591.2 | 1601.4 | 1613.5 | 1634.5 | 1629.8 | 1620.5 | 1629.8 | 1630.7 | 1617.2 | 1586.5 |
| 47.5° | 1706.1 | 1716.8 | 1735.0 | 1762.9 | 1761.0 | 1750.8 | 1762.9 | 1756.4 | 1739.2 | 1702.4 |
| 50° | 1815.0 | 1829.9 | 1857.8 | 1896.9 | 1900.7 | 1888.1 | 1904.4 | 1891.8 | 1863.0 | 1816.9 |
| 52.5° | 1917.4 | 1933.2 | 1977.5 | 2030.5 | 2044.0 | 2027.7 | 2049.6 | 2027.7 | 1984.4 | 1925.3 |
| 55° | 2024.9 | 2042.6 | 2095.2 | 2164.5 | 2191.5 | 2179.4 | 2199.9 | 2166.9 | 2105.4 | 2033.8 |
| 57.5° | 2151.5 | 2162.2 | 2225.0 | 2307.4 | 2353.0 | 2355.8 | 2365.1 | 2309.3 | 2234.8 | 2153.4 |
| 60° | 2288.8 | 2303.7 | 2372.1 | 2470.8 | 2542.9 | 2566.2 | 2556.4 | 2473.6 | 2387.0 | 2293.5 |
| 62.5° | 2464.7 | 2481.0 | 2562.9 | 2681.1 | 2795.2 | 2852.9 | 2814.7 | 2694.6 | 2587.6 | 2475.4 |
| 65° | 2610.4 | 2628.5 | 2776.5 | 2987.4 | 3194.9 | 3310.8 | 3214.9 | 2993.9 | 2801.2 | 2643.0 |
| 67.5° | 2504.7 | 2527.1 | 2759.3 | 3146.5 | 3662.6 | 4008.4 | 3680.3 | 3194.0 | 2816.6 | 2602.0 |
| 70° | 2189.2 | 2210.2 | 2481.0 | 2954.3 | 3794.4 | 4552.0 | 3873.5 | 3041.3 | 2489.9 | 2249.7 |
| 72.5° | 1453.4 | 1520.9 | 1795.0 | 2362.8 | 3388.1 | 4212.3 | 3421.6 | 2314.9 | 1665.2 | 1450.2 |
| 75° | 482.1 | 536.1 | 723.2 | 1224.9 | 2269.3 | 3150.2 | 2160.4 | 1083.9 | 572.9 | 412.3 |
| 77.5° | 121.5 | 140.1 | 193.1 | 350.4 | 905.2 | 1793.6 | 814.9 | 286.2 | 155.9 | 108.9 |
| 80° | 59.1 | 65.2 | 93.1 | 116.8 | 226.6 | 570.1 | 212.7 | 109.8 | 73.5 | 56.8 |
| 82.5° | 32.6 | 33.0 | 52.6 | 66.1 | 84.2 | 147.5 | 87.5 | 64.2 | 42.4 | 34.4 |
| 85° | 20.0 | 19.5 | 27.9 | 35.4 | 35.4 | 52.6 | 41.9 | 35.4 | 24.2 | 21.4 |
| 87.5° | 7.9 | 7.9 | 10.2 | 11.2 | 9.8 | 13.5 | 10.7 | 11.6 | 9.3 | 8.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 888.0 |
| 892.6 |
| 899.6 |
| 908.0 |
| 915.9 |
| 923.8 |
| 936.4 |
| 951.7 |
| 969.4 |
| 987.1 |
| 1007.1 |
| 1034.6 |
| 1073.7 |
| 1126.7 |
| 1193.7 |
| 1275.6 |
| 1371.5 |
| 1477.2 |
| 1589.8 |
| 1700.1 |
| 1816.0 |
| 1919.7 |
| 2024.0 |
| 2142.2 |
| 2278.6 |
| 2455.9 |
| 2616.9 |
| 2569.9 |
| 2217.6 |
| 1403.2 |
| 390.0 |
| 97.3 |
| 52.1 |
| 34.4 |
| 22.3 |
| 9.3 |
| 0.0 |

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