

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: P939360

Luminaire Tested: **GALN-SB1D-935-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939360
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-SB1D-935-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7163 lumens
Efficiency: N/A
Efficacy: 90.0 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

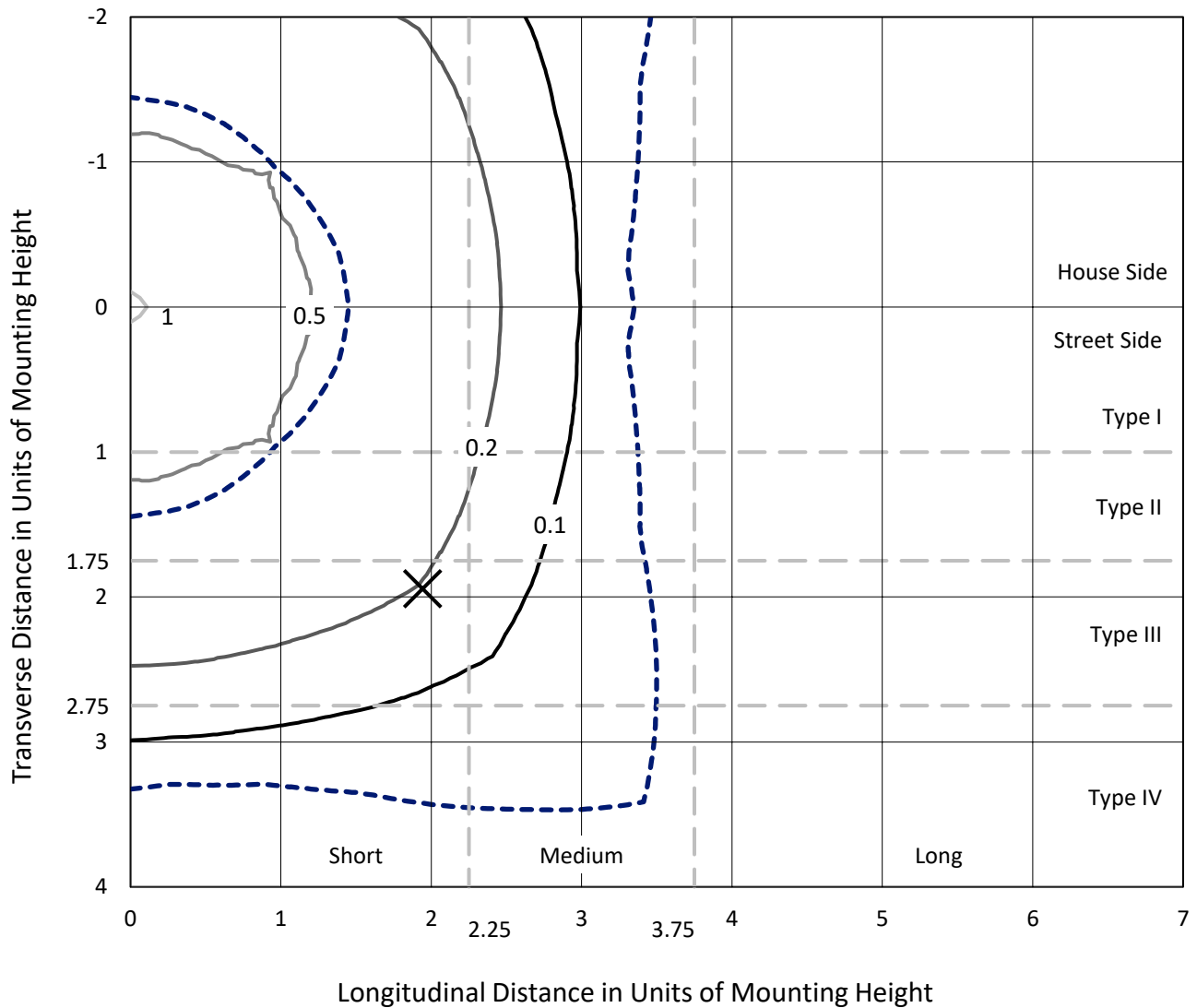
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

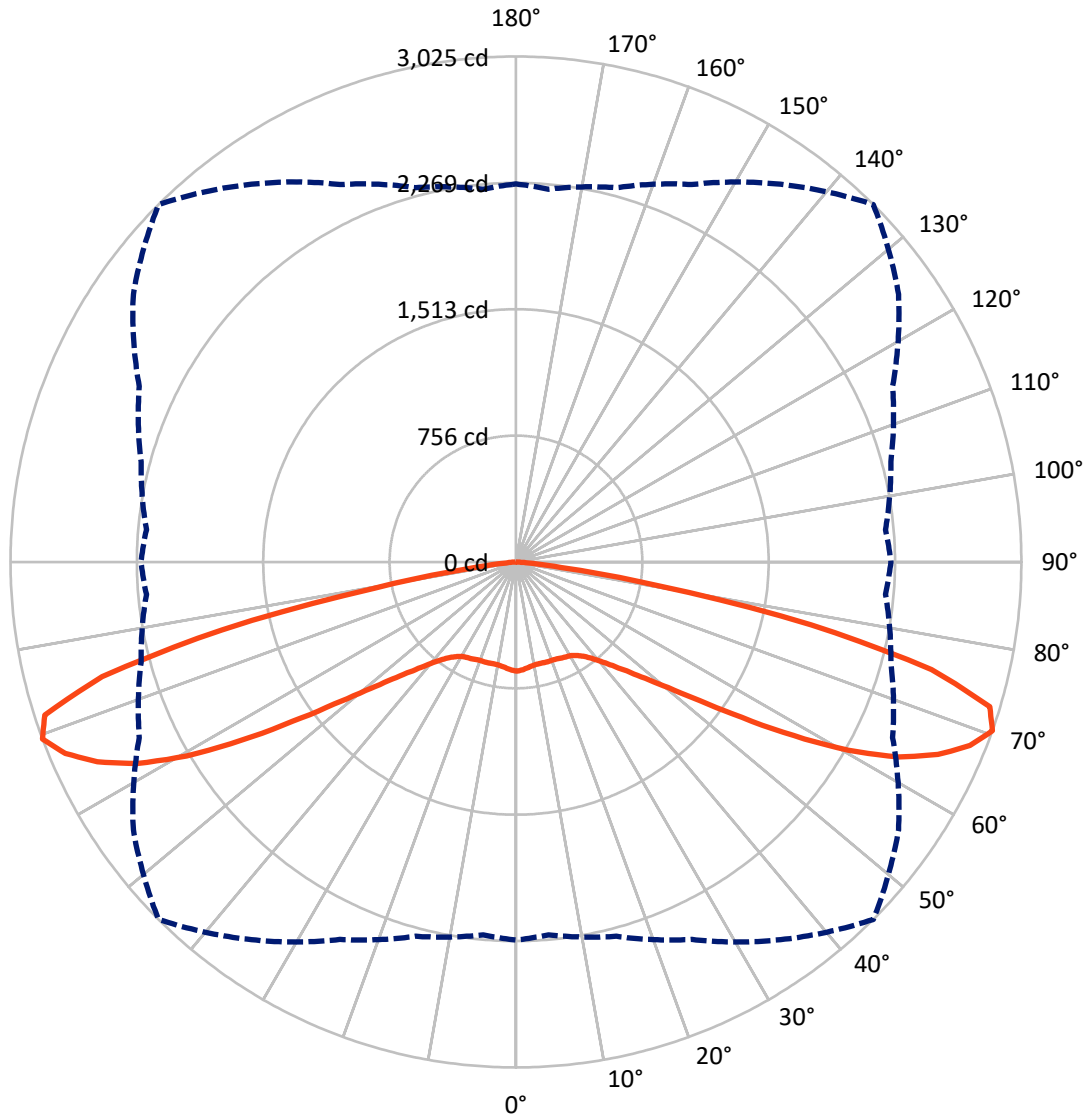
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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 | 3581.5 | 0.0 | 3581.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3581.5 | 0.0 | 3581.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7163.0 | 0.0 | 7163.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 60.8 | 0.8 |
| 10°-20° | 178.5 | 2.5 |
| 20°-30° | 297.0 | 4.1 |
| 30°-40° | 449.2 | 6.3 |
| 40°-50° | 746.4 | 10.4 |
| 50°-60° | 1408.4 | 19.7 |
| 60°-70° | 2378.2 | 33.2 |
| 70°-80° | 1562.7 | 21.8 |
| 80°-90° | 81.9 | 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° | 7163.0 | 100.0 |
| 0°-180° | 7163.0 | 100.0 |



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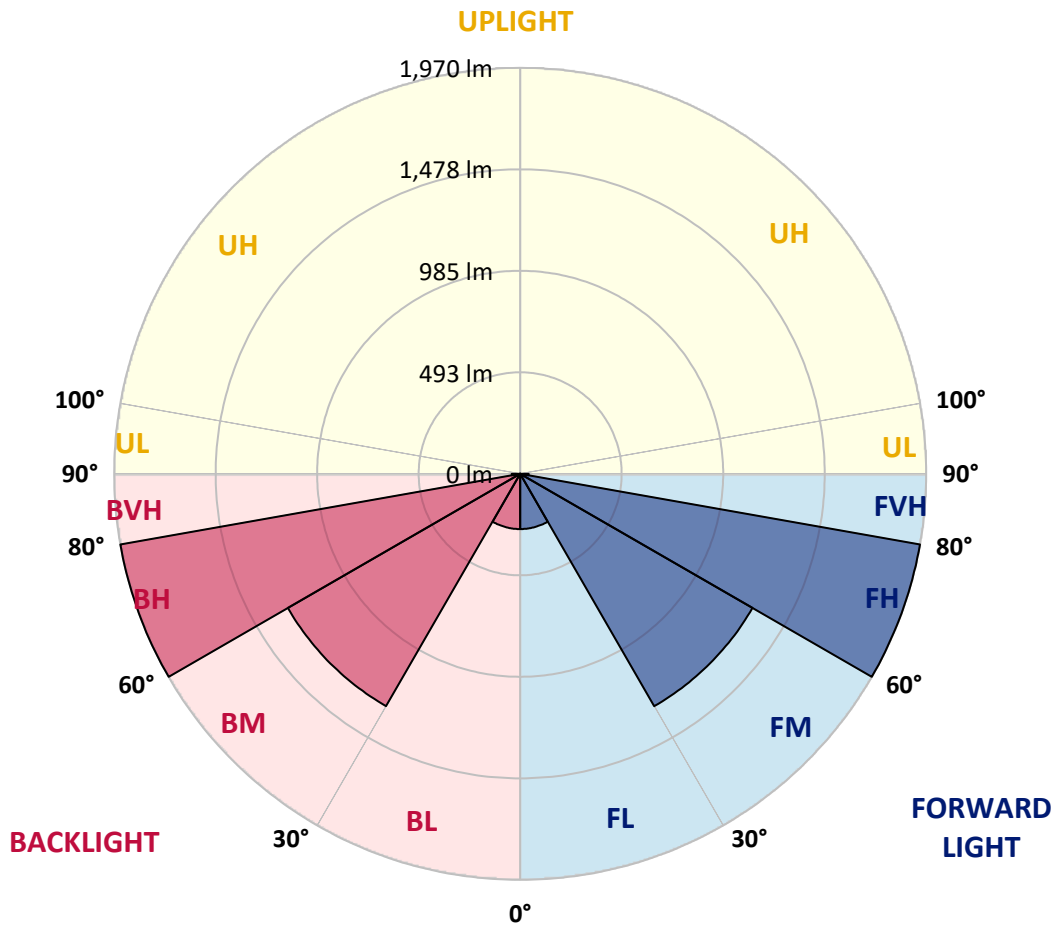
CATALOG NUMBER: GALN-SB1D-935-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 268.1 | 3.7 | | | |
| FM (30°-60°) | 1302.0 | 18.2 | | | |
| FH (60°-80°) | 1970.4 | 27.5 | | | G2/5000 |
| FVH (80°-90°) | 40.9 | 0.6 | | | G1/100 |
| BL (0°-30°) | 268.1 | 3.7 | B1/500 | | |
| BM (30°-60°) | 1302.0 | 18.2 | B2/2500 | | |
| BH (60°-80°) | 1970.4 | 27.5 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 40.9 | 0.6 | | | 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° | 653.4 | 653.4 | 653.4 | 653.4 | 653.4 | 653.4 | 653.4 | 653.4 | 653.4 | 653.4 |
| 2.5° | 649.3 | 651.2 | 650.4 | 648.9 | 648.9 | 647.8 | 648.9 | 649.7 | 650.8 | 651.5 |
| 5° | 640.8 | 642.2 | 641.9 | 640.8 | 641.1 | 640.0 | 640.8 | 641.9 | 642.6 | 643.0 |
| 7.5° | 633.3 | 634.8 | 634.0 | 632.2 | 632.2 | 631.1 | 631.4 | 632.6 | 633.7 | 634.0 |
| 10° | 631.4 | 632.9 | 630.7 | 627.7 | 626.6 | 625.1 | 625.5 | 626.6 | 628.8 | 630.0 |
| 12.5° | 632.2 | 633.3 | 631.1 | 626.6 | 625.5 | 624.0 | 624.0 | 625.1 | 628.1 | 629.6 |
| 15° | 634.4 | 635.5 | 632.2 | 627.3 | 626.2 | 625.1 | 624.7 | 626.2 | 629.6 | 632.2 |
| 17.5° | 638.5 | 639.6 | 634.4 | 627.7 | 626.2 | 626.6 | 626.2 | 627.3 | 632.6 | 637.4 |
| 20° | 642.2 | 643.0 | 635.9 | 627.7 | 626.2 | 626.6 | 626.2 | 628.5 | 635.2 | 641.9 |
| 22.5° | 643.4 | 644.1 | 637.4 | 630.3 | 629.2 | 629.6 | 629.2 | 631.4 | 637.8 | 644.5 |
| 25° | 643.7 | 644.8 | 639.6 | 634.0 | 635.9 | 636.7 | 635.9 | 636.3 | 641.1 | 647.1 |
| 27.5° | 649.3 | 650.8 | 646.0 | 641.1 | 642.2 | 641.9 | 643.0 | 644.1 | 647.8 | 653.8 |
| 30° | 660.9 | 662.0 | 657.9 | 653.0 | 652.3 | 649.7 | 653.0 | 656.8 | 660.9 | 666.1 |
| 32.5° | 679.8 | 682.1 | 676.9 | 671.7 | 668.3 | 666.8 | 669.4 | 675.7 | 681.3 | 686.9 |
| 35° | 711.5 | 713.0 | 708.1 | 698.5 | 692.5 | 692.5 | 694.7 | 702.9 | 711.9 | 718.9 |
| 37.5° | 756.2 | 758.0 | 749.5 | 737.9 | 729.0 | 729.0 | 732.0 | 740.5 | 753.9 | 764.0 |
| 40° | 810.5 | 813.1 | 802.3 | 790.4 | 781.9 | 780.4 | 784.1 | 793.8 | 806.4 | 819.1 |
| 42.5° | 876.1 | 879.0 | 864.9 | 854.5 | 847.8 | 847.8 | 849.6 | 858.6 | 870.1 | 885.7 |
| 45° | 959.8 | 965.0 | 945.7 | 935.3 | 928.9 | 930.4 | 931.5 | 939.3 | 949.8 | 967.6 |
| 47.5° | 1059.6 | 1064.8 | 1044.3 | 1033.5 | 1032.4 | 1039.5 | 1035.0 | 1040.6 | 1046.2 | 1066.7 |
| 50° | 1172.8 | 1181.7 | 1167.6 | 1166.8 | 1169.1 | 1182.1 | 1171.7 | 1174.6 | 1168.3 | 1181.4 |
| 52.5° | 1311.3 | 1324.3 | 1321.7 | 1326.2 | 1351.1 | 1377.9 | 1354.1 | 1343.7 | 1319.9 | 1323.9 |
| 55° | 1479.2 | 1498.9 | 1502.7 | 1529.5 | 1586.1 | 1640.8 | 1590.2 | 1548.1 | 1497.4 | 1488.1 |
| 57.5° | 1670.2 | 1685.8 | 1703.7 | 1758.4 | 1864.2 | 1961.3 | 1864.2 | 1771.1 | 1691.4 | 1672.4 |
| 60° | 1875.7 | 1895.1 | 1912.2 | 1993.0 | 2150.1 | 2286.7 | 2147.1 | 1999.3 | 1894.0 | 1868.3 |
| 62.5° | 2096.5 | 2121.4 | 2133.4 | 2223.1 | 2406.3 | 2569.3 | 2408.9 | 2229.8 | 2112.9 | 2085.3 |
| 65° | 2308.3 | 2328.8 | 2342.2 | 2437.9 | 2612.9 | 2776.3 | 2624.8 | 2448.3 | 2328.1 | 2292.0 |
| 67.5° | 2407.0 | 2418.2 | 2450.9 | 2559.3 | 2743.9 | 2930.5 | 2775.2 | 2570.8 | 2436.4 | 2373.1 |
| 70° | 2262.5 | 2239.8 | 2318.8 | 2492.3 | 2759.6 | 3025.0 | 2795.3 | 2487.1 | 2322.5 | 2219.7 |
| 72.5° | 1748.4 | 1709.3 | 1846.3 | 2143.0 | 2580.9 | 2964.7 | 2598.7 | 2159.8 | 1931.6 | 1723.1 |
| 75° | 951.3 | 907.0 | 1096.1 | 1471.4 | 2058.1 | 2569.7 | 2105.4 | 1513.5 | 1220.4 | 944.2 |
| 77.5° | 268.4 | 251.7 | 404.3 | 711.9 | 1237.9 | 1804.2 | 1285.6 | 727.5 | 479.5 | 284.4 |
| 80° | 82.3 | 79.7 | 108.0 | 214.5 | 525.7 | 864.1 | 505.2 | 217.1 | 137.4 | 86.7 |
| 82.5° | 48.8 | 44.7 | 53.6 | 78.2 | 134.0 | 271.4 | 130.3 | 81.5 | 65.5 | 43.9 |
| 85° | 27.9 | 26.1 | 31.6 | 38.0 | 45.0 | 57.7 | 37.6 | 38.7 | 35.0 | 23.5 |
| 87.5° | 11.5 | 10.4 | 12.3 | 11.9 | 10.4 | 13.4 | 10.1 | 11.9 | 14.1 | 9.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 653.4 |
| 651.2 |
| 643.0 |
| 634.0 |
| 630.0 |
| 630.0 |
| 632.6 |
| 637.4 |
| 642.2 |
| 644.5 |
| 646.7 |
| 652.3 |
| 665.0 |
| 684.7 |
| 716.3 |
| 760.3 |
| 815.0 |
| 884.6 |
| 966.9 |
| 1060.7 |
| 1173.5 |
| 1310.2 |
| 1473.6 |
| 1659.0 |
| 1845.9 |
| 2063.0 |
| 2274.1 |
| 2373.9 |
| 2244.3 |
| 1774.8 |
| 1005.6 |
| 316.1 |
| 91.6 |
| 47.7 |
| 24.6 |
| 8.6 |
| 0.0 |

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