

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: P939530

Luminaire Tested: **GALN-SB2A-935-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939530
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-SB2A-935-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6312 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

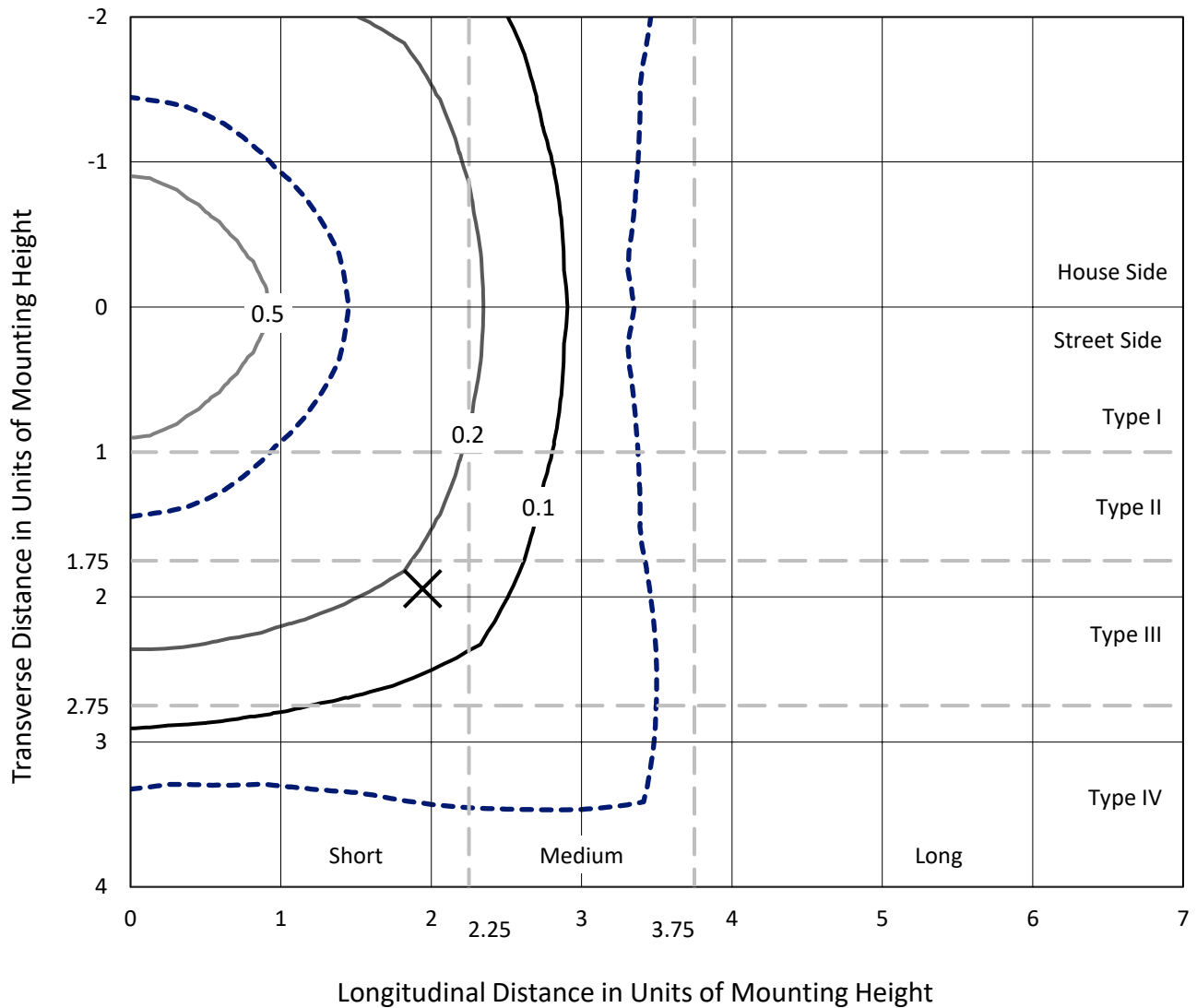
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

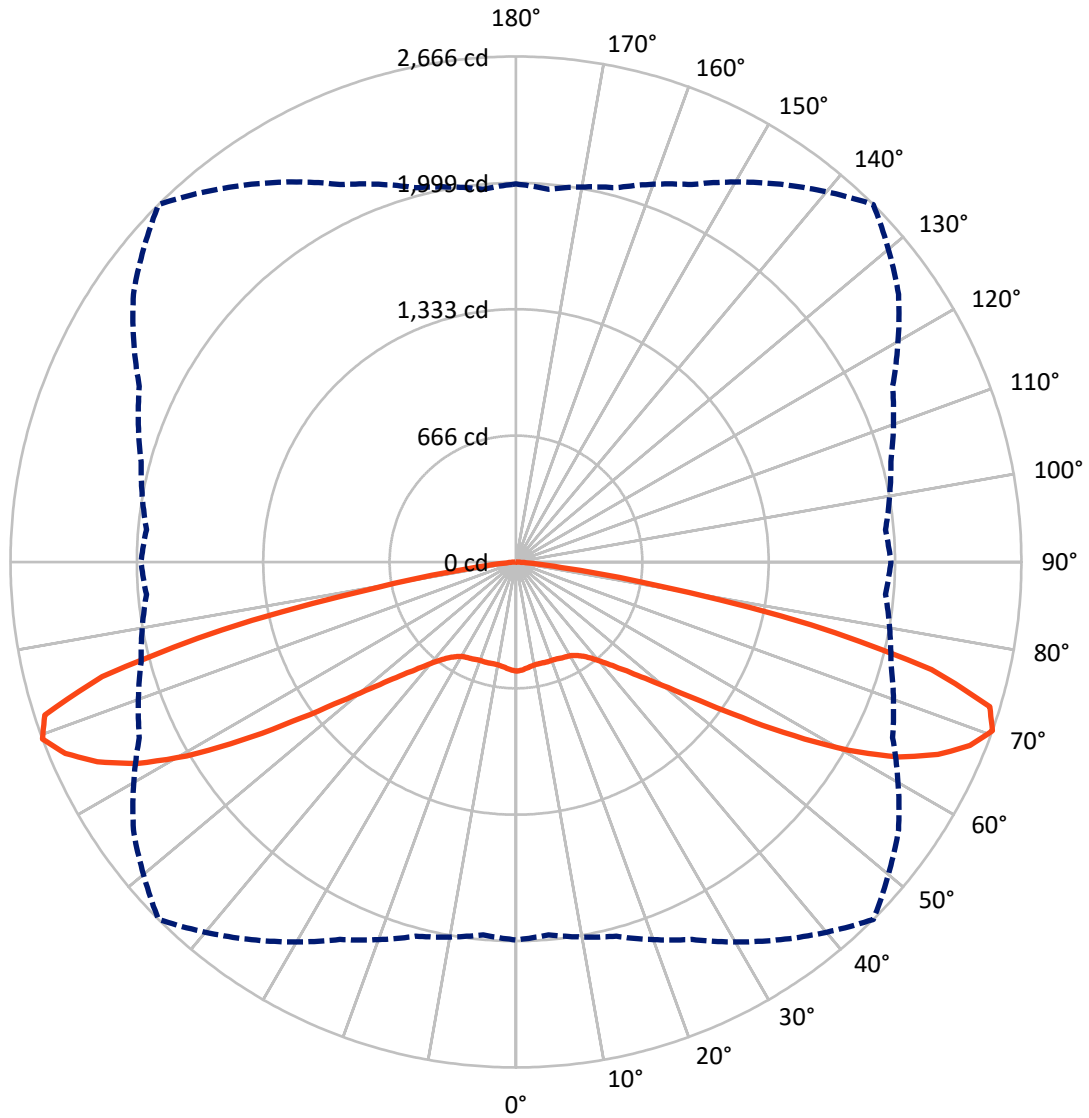
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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 | 3156.0 | 0.0 | 3156.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3156.0 | 0.0 | 3156.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6312.0 | 0.0 | 6312.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.6 | 0.8 |
| 10°-20° | 157.3 | 2.5 |
| 20°-30° | 261.7 | 4.1 |
| 30°-40° | 395.8 | 6.3 |
| 40°-50° | 657.7 | 10.4 |
| 50°-60° | 1241.1 | 19.7 |
| 60°-70° | 2095.7 | 33.2 |
| 70°-80° | 1377.1 | 21.8 |
| 80°-90° | 72.1 | 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° | 6312.0 | 100.0 |
| 0°-180° | 6312.0 | 100.0 |

Coefficient of Utilization



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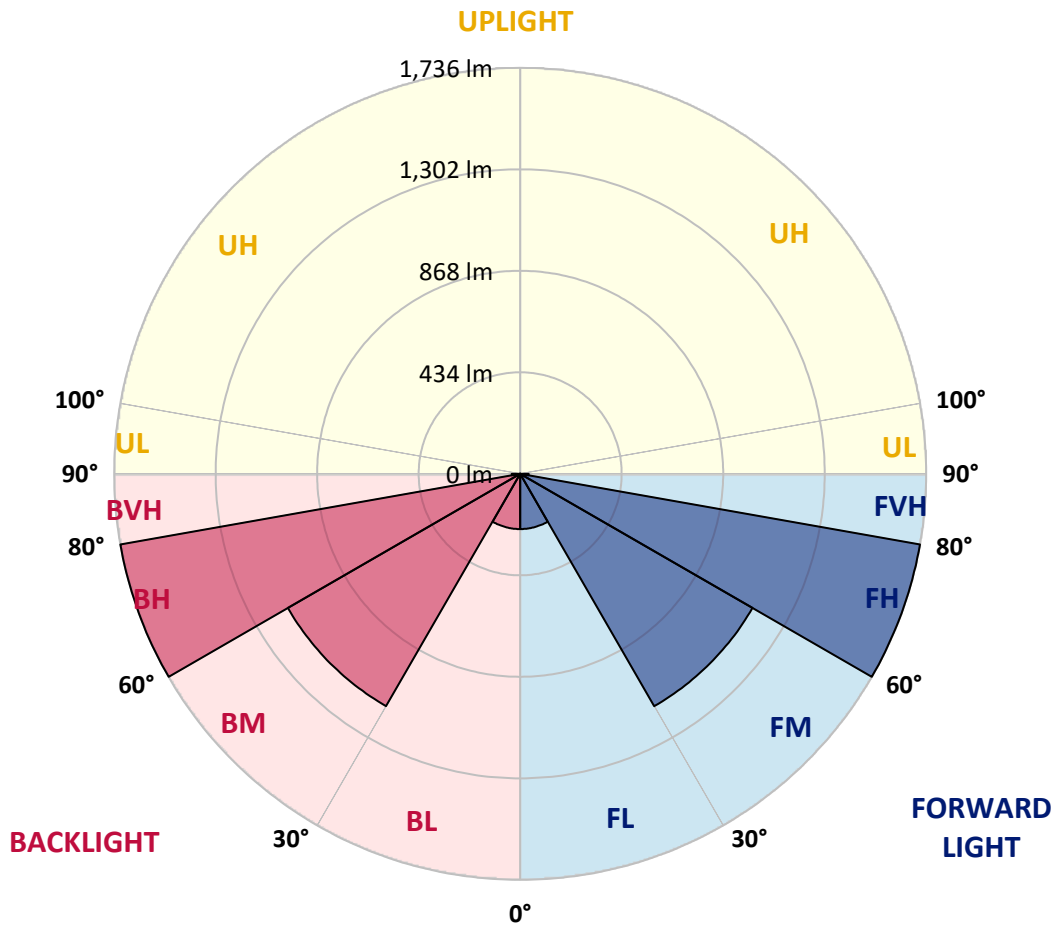
CATALOG NUMBER: GALN-SB2A-935-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 236.3 | 3.7 | | | |
| FM (30°-60°) | 1147.3 | 18.2 | | | |
| FH (60°-80°) | 1736.4 | 27.5 | | | G1/1800 |
| FVH (80°-90°) | 36.1 | 0.6 | | | G1/100 |
| BL (0°-30°) | 236.3 | 3.7 | B1/500 | | |
| BM (30°-60°) | 1147.3 | 18.2 | B2/2500 | | |
| BH (60°-80°) | 1736.4 | 27.5 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 36.1 | 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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 575.8 | 575.8 | 575.8 | 575.8 | 575.8 | 575.8 | 575.8 | 575.8 | 575.8 | 575.8 |
| 2.5° | 572.2 | 573.8 | 573.2 | 571.8 | 571.8 | 570.9 | 571.8 | 572.5 | 573.5 | 574.1 |
| 5° | 564.6 | 565.9 | 565.6 | 564.6 | 565.0 | 564.0 | 564.6 | 565.6 | 566.3 | 566.6 |
| 7.5° | 558.1 | 559.4 | 558.7 | 557.1 | 557.1 | 556.1 | 556.4 | 557.4 | 558.4 | 558.7 |
| 10° | 556.4 | 557.7 | 555.8 | 553.1 | 552.2 | 550.8 | 551.2 | 552.2 | 554.1 | 555.1 |
| 12.5° | 557.1 | 558.1 | 556.1 | 552.2 | 551.2 | 549.9 | 549.9 | 550.8 | 553.5 | 554.8 |
| 15° | 559.0 | 560.0 | 557.1 | 552.8 | 551.8 | 550.8 | 550.5 | 551.8 | 554.8 | 557.1 |
| 17.5° | 562.7 | 563.6 | 559.0 | 553.1 | 551.8 | 552.2 | 551.8 | 552.8 | 557.4 | 561.7 |
| 20° | 565.9 | 566.6 | 560.4 | 553.1 | 551.8 | 552.2 | 551.8 | 553.8 | 559.7 | 565.6 |
| 22.5° | 566.9 | 567.6 | 561.7 | 555.4 | 554.5 | 554.8 | 554.5 | 556.4 | 562.0 | 567.9 |
| 25° | 567.3 | 568.2 | 563.6 | 558.7 | 560.4 | 561.0 | 560.4 | 560.7 | 565.0 | 570.2 |
| 27.5° | 572.2 | 573.5 | 569.2 | 565.0 | 565.9 | 565.6 | 566.6 | 567.6 | 570.9 | 576.1 |
| 30° | 582.3 | 583.3 | 579.7 | 575.5 | 574.8 | 572.5 | 575.5 | 578.7 | 582.3 | 586.9 |
| 32.5° | 599.1 | 601.0 | 596.5 | 591.9 | 588.9 | 587.6 | 589.9 | 595.5 | 600.4 | 605.3 |
| 35° | 627.0 | 628.3 | 624.0 | 615.5 | 610.2 | 610.2 | 612.2 | 619.4 | 627.3 | 633.5 |
| 37.5° | 666.3 | 668.0 | 660.4 | 650.3 | 642.4 | 642.4 | 645.0 | 652.6 | 664.4 | 673.2 |
| 40° | 714.2 | 716.5 | 707.0 | 696.5 | 689.0 | 687.7 | 690.9 | 699.5 | 710.6 | 721.8 |
| 42.5° | 772.0 | 774.6 | 762.1 | 752.9 | 747.0 | 747.0 | 748.7 | 756.6 | 766.7 | 780.5 |
| 45° | 845.8 | 850.4 | 833.3 | 824.1 | 818.6 | 819.9 | 820.9 | 827.7 | 836.9 | 852.7 |
| 47.5° | 933.7 | 938.3 | 920.3 | 910.8 | 909.8 | 916.0 | 912.1 | 917.0 | 921.9 | 940.0 |
| 50° | 1033.5 | 1041.3 | 1028.9 | 1028.2 | 1030.2 | 1041.7 | 1032.5 | 1035.1 | 1029.5 | 1041.0 |
| 52.5° | 1155.5 | 1167.0 | 1164.7 | 1168.6 | 1190.6 | 1214.2 | 1193.2 | 1184.0 | 1163.0 | 1166.7 |
| 55° | 1303.5 | 1320.9 | 1324.1 | 1347.8 | 1397.6 | 1445.9 | 1401.2 | 1364.2 | 1319.5 | 1311.3 |
| 57.5° | 1471.8 | 1485.5 | 1501.3 | 1549.5 | 1642.7 | 1728.3 | 1642.7 | 1560.7 | 1490.5 | 1473.7 |
| 60° | 1652.9 | 1669.9 | 1685.0 | 1756.2 | 1894.7 | 2015.1 | 1892.0 | 1761.8 | 1668.9 | 1646.3 |
| 62.5° | 1847.4 | 1869.4 | 1879.9 | 1959.0 | 2120.4 | 2264.1 | 2122.7 | 1964.9 | 1861.9 | 1837.6 |
| 65° | 2034.1 | 2052.1 | 2064.0 | 2148.3 | 2302.5 | 2446.5 | 2313.0 | 2157.5 | 2051.5 | 2019.7 |
| 67.5° | 2121.0 | 2130.9 | 2159.8 | 2255.2 | 2418.0 | 2582.3 | 2445.5 | 2265.4 | 2147.0 | 2091.2 |
| 70° | 1993.7 | 1973.7 | 2043.3 | 2196.2 | 2431.7 | 2665.7 | 2463.2 | 2191.6 | 2046.6 | 1956.0 |
| 72.5° | 1540.7 | 1506.2 | 1627.0 | 1888.4 | 2274.3 | 2612.5 | 2290.0 | 1903.2 | 1702.1 | 1518.4 |
| 75° | 838.2 | 799.2 | 965.9 | 1296.6 | 1813.6 | 2264.4 | 1855.3 | 1333.6 | 1075.4 | 832.0 |
| 77.5° | 236.5 | 221.8 | 356.3 | 627.3 | 1090.9 | 1589.9 | 1132.9 | 641.1 | 422.6 | 250.7 |
| 80° | 72.5 | 70.2 | 95.1 | 189.0 | 463.2 | 761.5 | 445.2 | 191.3 | 121.1 | 76.4 |
| 82.5° | 43.0 | 39.4 | 47.2 | 68.9 | 118.1 | 239.2 | 114.8 | 71.8 | 57.7 | 38.7 |
| 85° | 24.6 | 23.0 | 27.9 | 33.5 | 39.7 | 50.9 | 33.1 | 34.1 | 30.8 | 20.7 |
| 87.5° | 10.2 | 9.2 | 10.8 | 10.5 | 9.2 | 11.8 | 8.9 | 10.5 | 12.5 | 8.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 575.8 |
| 573.8 |
| 566.6 |
| 558.7 |
| 555.1 |
| 555.1 |
| 557.4 |
| 561.7 |
| 565.9 |
| 567.9 |
| 569.9 |
| 574.8 |
| 586.0 |
| 603.3 |
| 631.2 |
| 669.9 |
| 718.2 |
| 779.5 |
| 852.0 |
| 934.7 |
| 1034.1 |
| 1154.5 |
| 1298.5 |
| 1461.9 |
| 1626.6 |
| 1817.9 |
| 2003.9 |
| 2091.8 |
| 1977.7 |
| 1564.0 |
| 886.1 |
| 278.5 |
| 80.7 |
| 42.0 |
| 21.7 |
| 7.5 |
| 0.0 |

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