

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: P938740

Luminaire Tested: **GALN-SB1A-735-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938740
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-SB1A-735-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4539 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

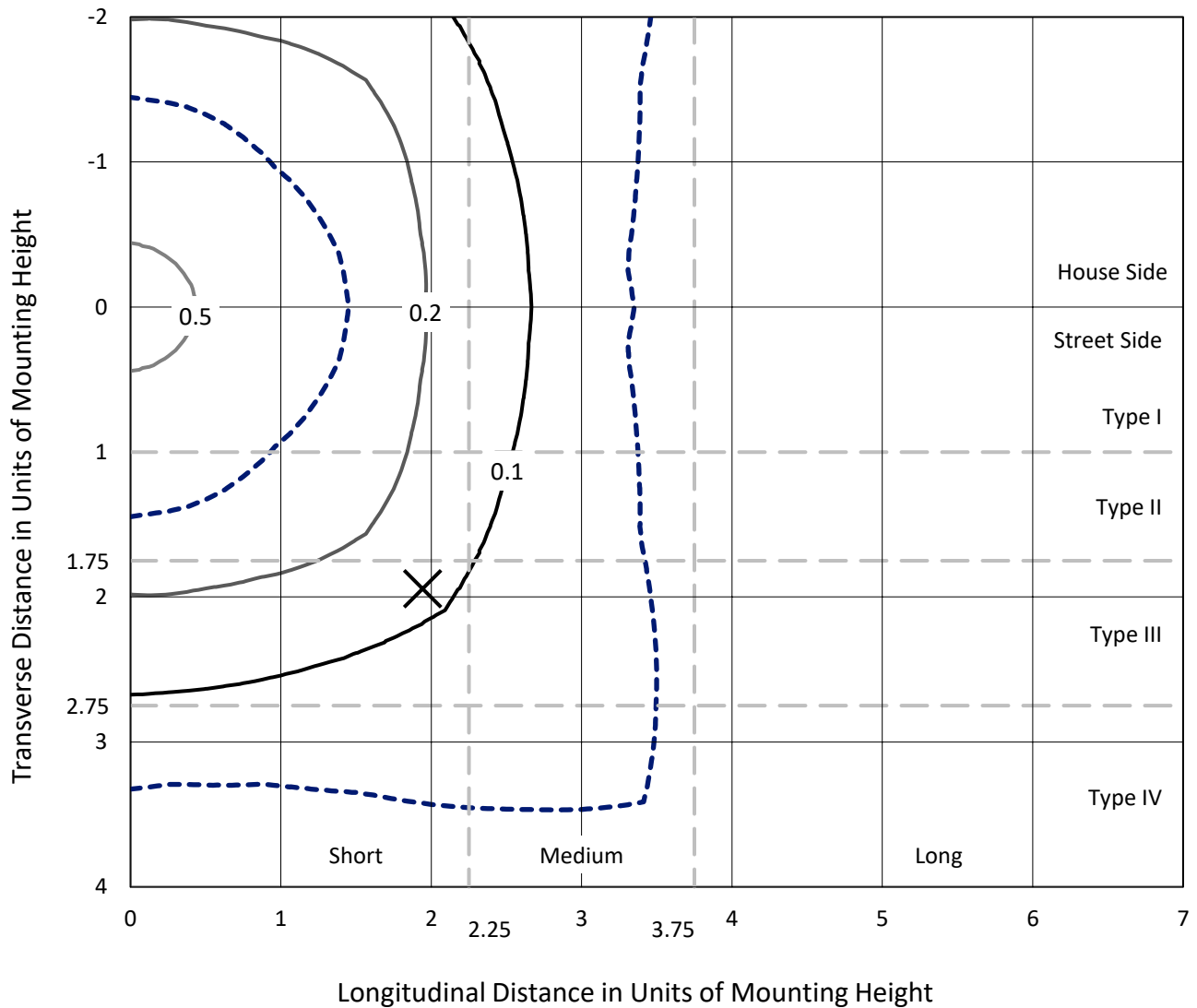
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

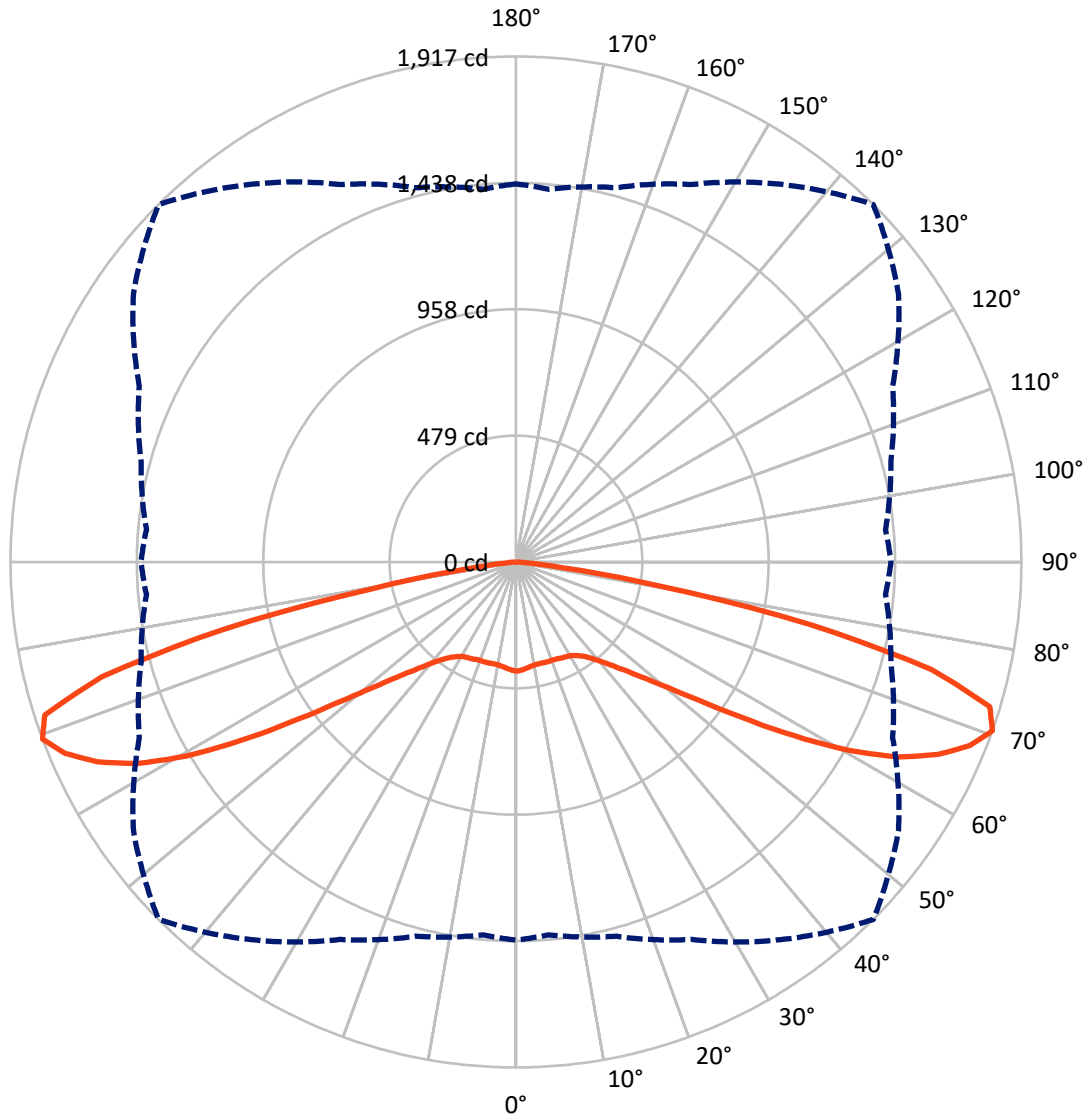
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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 | 2269.5 | 0.0 | 2269.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2269.5 | 0.0 | 2269.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4539.0 | 0.0 | 4539.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 38.5 | 0.8 |
| 10°-20° | 113.1 | 2.5 |
| 20°-30° | 188.2 | 4.1 |
| 30°-40° | 284.6 | 6.3 |
| 40°-50° | 473.0 | 10.4 |
| 50°-60° | 892.5 | 19.7 |
| 60°-70° | 1507.0 | 33.2 |
| 70°-80° | 990.3 | 21.8 |
| 80°-90° | 51.9 | 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° | 4539.0 | 100.0 |
| 0°-180° | 4539.0 | 100.0 |

Coefficient of Utilization



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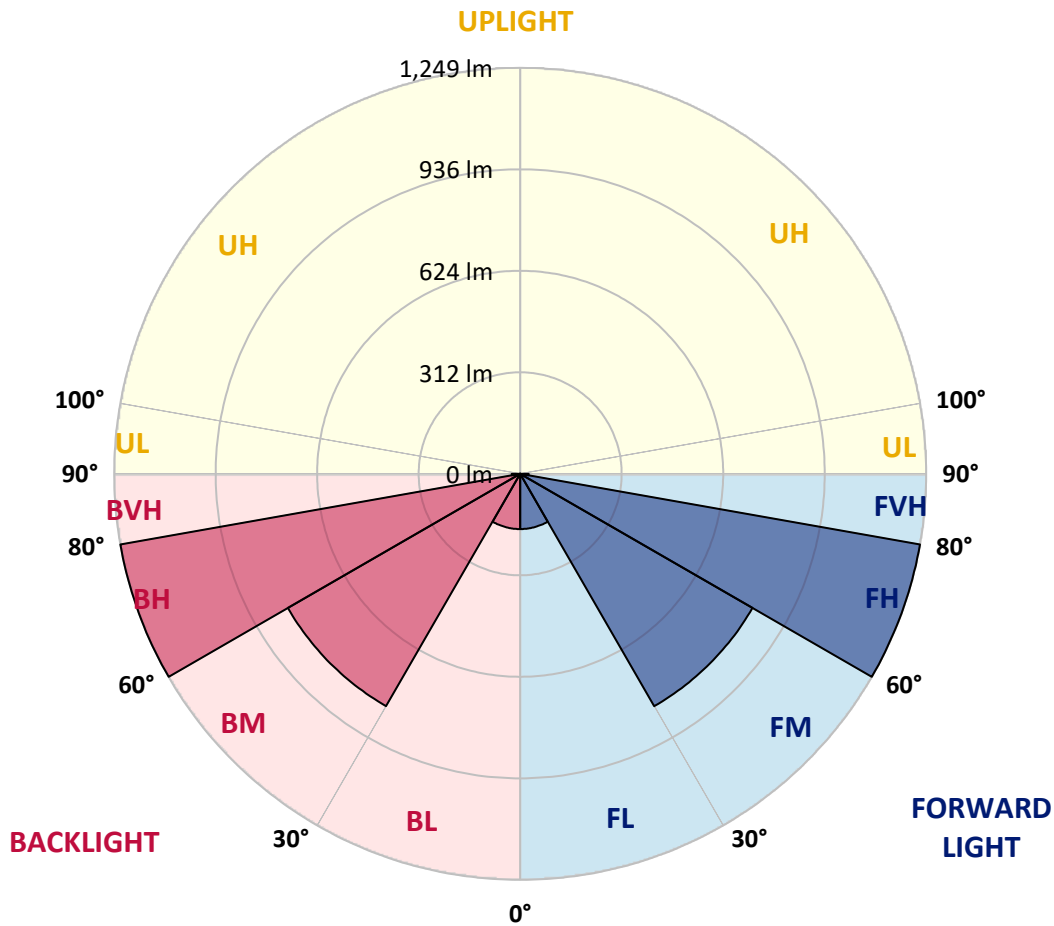
CATALOG NUMBER: GALN-SB1A-735-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 169.9 | 3.7 | | | |
| FM (30°-60°) | 825.0 | 18.2 | | | |
| FH (60°-80°) | 1248.6 | 27.5 | | | G1/1800 |
| FVH (80°-90°) | 25.9 | 0.6 | | | G1/100 |
| BL (0°-30°) | 169.9 | 3.7 | B1/500 | | |
| BM (30°-60°) | 825.0 | 18.2 | B1/1000 | | |
| BH (60°-80°) | 1248.6 | 27.5 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 25.9 | 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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 |
| 2.5° | 411.5 | 412.6 | 412.2 | 411.2 | 411.2 | 410.5 | 411.2 | 411.7 | 412.4 | 412.9 |
| 5° | 406.0 | 407.0 | 406.7 | 406.0 | 406.3 | 405.6 | 406.0 | 406.7 | 407.2 | 407.4 |
| 7.5° | 401.3 | 402.3 | 401.8 | 400.6 | 400.6 | 399.9 | 400.1 | 400.8 | 401.5 | 401.8 |
| 10° | 400.1 | 401.1 | 399.7 | 397.8 | 397.1 | 396.1 | 396.4 | 397.1 | 398.5 | 399.2 |
| 12.5° | 400.6 | 401.3 | 399.9 | 397.1 | 396.4 | 395.4 | 395.4 | 396.1 | 398.0 | 398.9 |
| 15° | 402.0 | 402.7 | 400.6 | 397.5 | 396.8 | 396.1 | 395.9 | 396.8 | 398.9 | 400.6 |
| 17.5° | 404.6 | 405.3 | 402.0 | 397.8 | 396.8 | 397.1 | 396.8 | 397.5 | 400.8 | 403.9 |
| 20° | 407.0 | 407.4 | 403.0 | 397.8 | 396.8 | 397.1 | 396.8 | 398.2 | 402.5 | 406.7 |
| 22.5° | 407.7 | 408.2 | 403.9 | 399.4 | 398.7 | 398.9 | 398.7 | 400.1 | 404.1 | 408.4 |
| 25° | 407.9 | 408.6 | 405.3 | 401.8 | 403.0 | 403.4 | 403.0 | 403.2 | 406.3 | 410.0 |
| 27.5° | 411.5 | 412.4 | 409.3 | 406.3 | 407.0 | 406.7 | 407.4 | 408.2 | 410.5 | 414.3 |
| 30° | 418.8 | 419.5 | 416.9 | 413.8 | 413.3 | 411.7 | 413.8 | 416.2 | 418.8 | 422.1 |
| 32.5° | 430.8 | 432.2 | 428.9 | 425.6 | 423.5 | 422.5 | 424.2 | 428.2 | 431.7 | 435.3 |
| 35° | 450.9 | 451.8 | 448.7 | 442.6 | 438.8 | 438.8 | 440.2 | 445.4 | 451.1 | 455.6 |
| 37.5° | 479.2 | 480.3 | 474.9 | 467.6 | 461.9 | 461.9 | 463.8 | 469.3 | 477.7 | 484.1 |
| 40° | 513.6 | 515.3 | 508.4 | 500.9 | 495.4 | 494.5 | 496.9 | 503.0 | 511.0 | 519.0 |
| 42.5° | 555.1 | 557.0 | 548.1 | 541.4 | 537.2 | 537.2 | 538.4 | 544.0 | 551.4 | 561.3 |
| 45° | 608.2 | 611.5 | 599.2 | 592.6 | 588.6 | 589.6 | 590.3 | 595.2 | 601.8 | 613.2 |
| 47.5° | 671.4 | 674.7 | 661.8 | 654.9 | 654.2 | 658.7 | 655.9 | 659.4 | 662.9 | 675.9 |
| 50° | 743.2 | 748.8 | 739.9 | 739.4 | 740.8 | 749.1 | 742.5 | 744.3 | 740.3 | 748.6 |
| 52.5° | 830.9 | 839.2 | 837.5 | 840.4 | 856.2 | 873.2 | 858.1 | 851.5 | 836.4 | 838.9 |
| 55° | 937.3 | 949.8 | 952.2 | 969.2 | 1005.0 | 1039.7 | 1007.6 | 981.0 | 948.9 | 943.0 |
| 57.5° | 1058.4 | 1068.3 | 1079.6 | 1114.3 | 1181.3 | 1242.9 | 1181.3 | 1122.3 | 1071.8 | 1059.8 |
| 60° | 1188.6 | 1200.9 | 1211.7 | 1262.9 | 1362.5 | 1449.1 | 1360.6 | 1266.9 | 1200.1 | 1183.9 |
| 62.5° | 1328.5 | 1344.3 | 1351.8 | 1408.7 | 1524.8 | 1628.1 | 1526.4 | 1413.0 | 1338.9 | 1321.4 |
| 65° | 1462.7 | 1475.7 | 1484.2 | 1544.8 | 1655.7 | 1759.3 | 1663.3 | 1551.4 | 1475.2 | 1452.4 |
| 67.5° | 1525.3 | 1532.3 | 1553.1 | 1621.7 | 1738.8 | 1857.0 | 1758.6 | 1629.1 | 1543.9 | 1503.8 |
| 70° | 1433.7 | 1419.3 | 1469.3 | 1579.3 | 1748.7 | 1916.9 | 1771.3 | 1576.0 | 1471.7 | 1406.6 |
| 72.5° | 1107.9 | 1083.1 | 1170.0 | 1358.0 | 1635.4 | 1878.7 | 1646.8 | 1368.6 | 1224.0 | 1091.9 |
| 75° | 602.8 | 574.7 | 694.6 | 932.4 | 1304.2 | 1628.4 | 1334.2 | 959.0 | 773.4 | 598.3 |
| 77.5° | 170.1 | 159.5 | 256.2 | 451.1 | 784.5 | 1143.3 | 814.6 | 461.0 | 303.9 | 180.2 |
| 80° | 52.1 | 50.5 | 68.4 | 135.9 | 333.1 | 547.6 | 320.2 | 137.5 | 87.1 | 55.0 |
| 82.5° | 30.9 | 28.3 | 34.0 | 49.5 | 84.9 | 172.0 | 82.6 | 51.7 | 41.5 | 27.8 |
| 85° | 17.7 | 16.5 | 20.1 | 24.1 | 28.5 | 36.6 | 23.8 | 24.5 | 22.2 | 14.9 |
| 87.5° | 7.3 | 6.6 | 7.8 | 7.5 | 6.6 | 8.5 | 6.4 | 7.5 | 9.0 | 5.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 414.0 |
| 412.6 |
| 407.4 |
| 401.8 |
| 399.2 |
| 399.2 |
| 400.8 |
| 403.9 |
| 407.0 |
| 408.4 |
| 409.8 |
| 413.3 |
| 421.4 |
| 433.9 |
| 453.9 |
| 481.8 |
| 516.4 |
| 560.6 |
| 612.7 |
| 672.2 |
| 743.6 |
| 830.2 |
| 933.8 |
| 1051.3 |
| 1169.7 |
| 1307.3 |
| 1441.0 |
| 1504.3 |
| 1422.2 |
| 1124.7 |
| 637.2 |
| 200.3 |
| 58.0 |
| 30.2 |
| 15.6 |
| 5.4 |
| 0.0 |

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