

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: P938823

Luminaire Tested: **GALN-SB1A-850-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-850-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4246 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

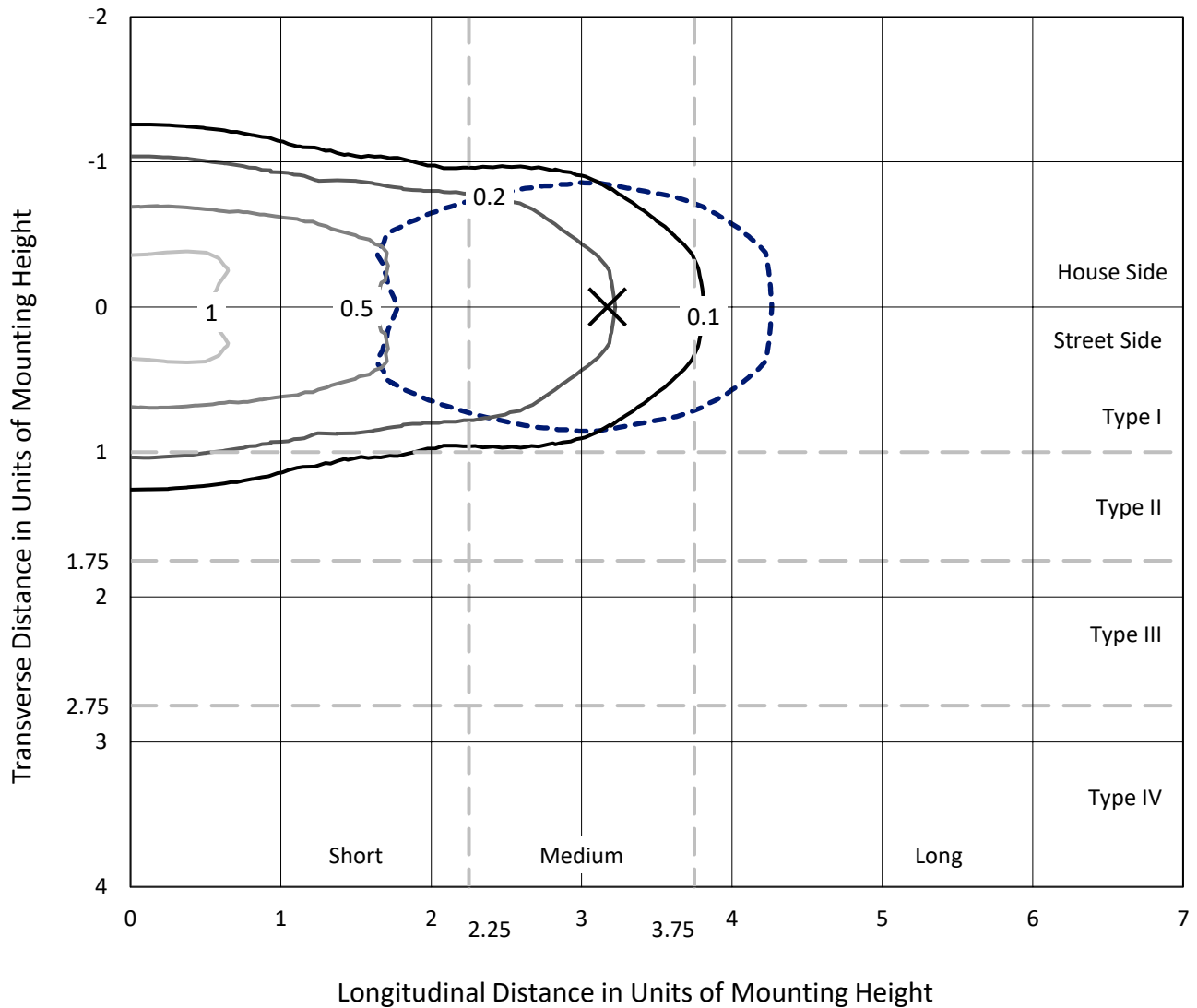
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

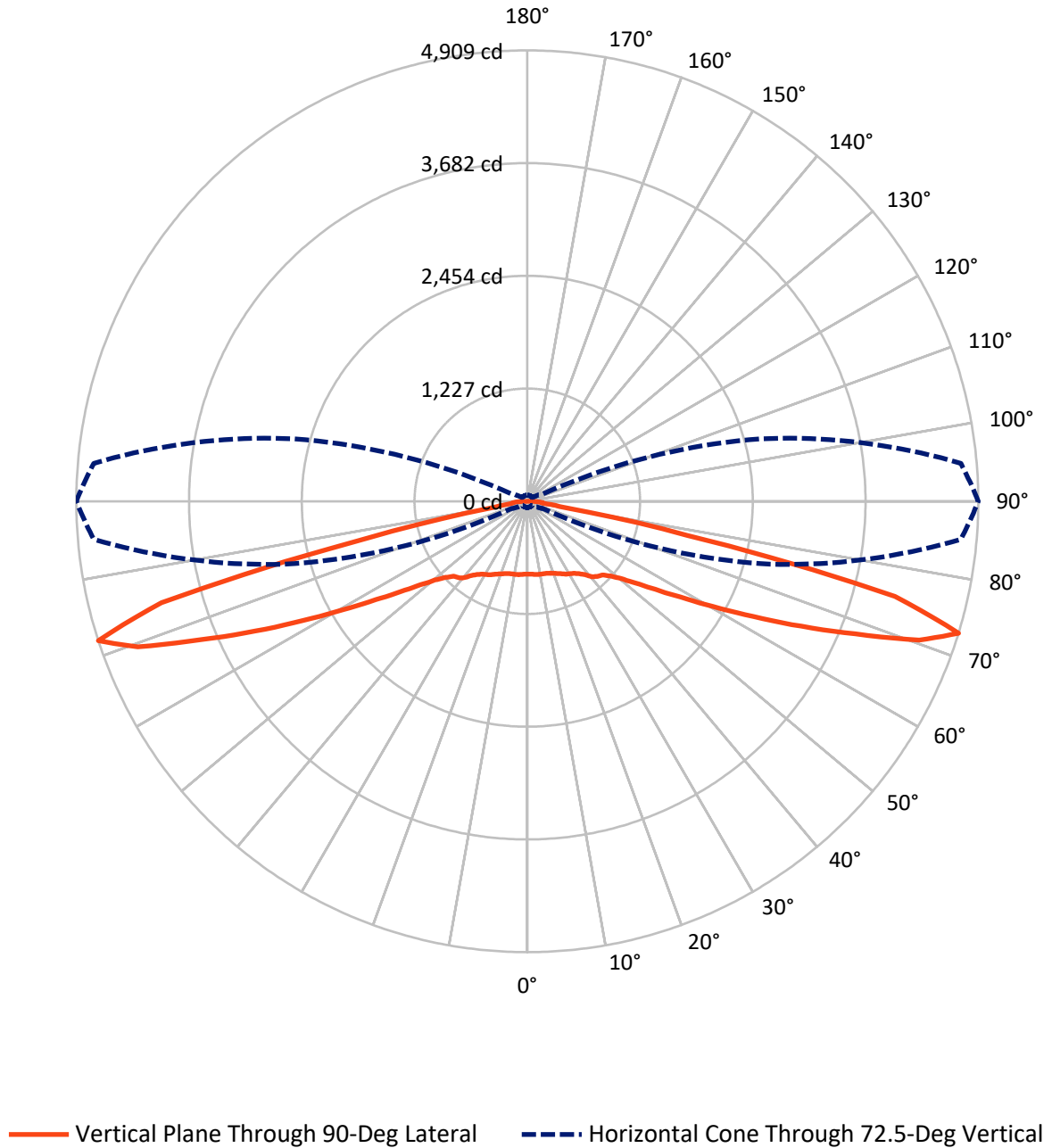
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2123.0 | 0.0 | 2123.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2123.0 | 0.0 | 2123.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4246.0 | 0.0 | 4246.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 76.9 | 1.8 |
| 10°-20° | 235.2 | 5.5 |
| 20°-30° | 392.2 | 9.2 |
| 30°-40° | 539.4 | 12.7 |
| 40°-50° | 658.8 | 15.5 |
| 50°-60° | 761.9 | 17.9 |
| 60°-70° | 908.5 | 21.4 |
| 70°-80° | 634.1 | 14.9 |
| 80°-90° | 38.9 | 0.9 |
| 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° | 4246.0 | 100.0 |
| 0°-180° | 4246.0 | 100.0 |

Coefficient of Utilization



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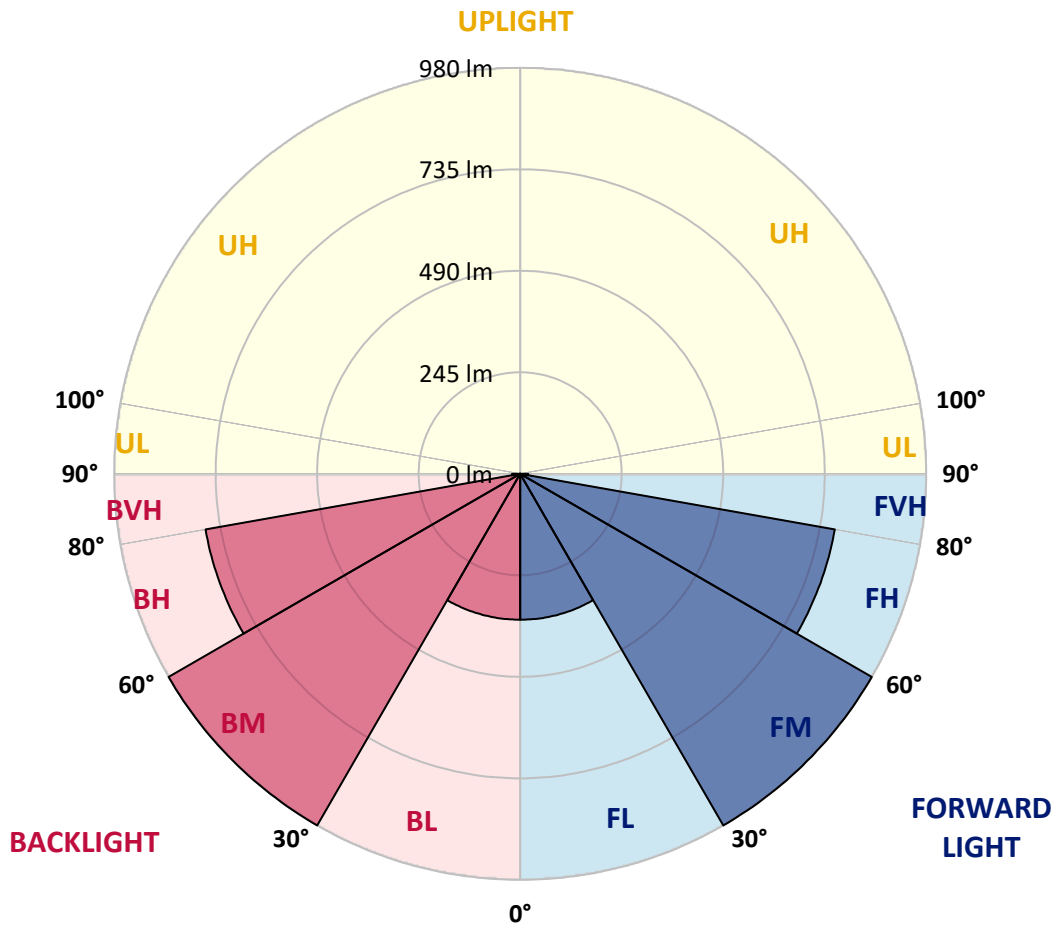
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 352.2 | 8.3 | | | |
| FM (30°-60°) | 980.1 | 23.1 | | | |
| FH (60°-80°) | 771.3 | 18.2 | | | G1/1800 |
| FVH (80°-90°) | 19.5 | 0.5 | | | G1/100 |
| BL (0°-30°) | 352.2 | 8.3 | B1/500 | | |
| BM (30°-60°) | 980.1 | 23.1 | B1/1000 | | |
| BH (60°-80°) | 771.3 | 18.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 19.5 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 793.4 | 793.4 | 793.4 | 793.4 | 793.4 | 793.4 | 793.4 | 793.4 | 793.4 | 793.4 |
| 2.5° | 794.1 | 795.0 | 795.0 | 794.3 | 795.9 | 794.5 | 794.5 | 793.9 | 794.5 | 793.9 |
| 5° | 798.1 | 799.3 | 799.7 | 799.5 | 801.5 | 800.4 | 800.4 | 799.5 | 799.7 | 799.1 |
| 7.5° | 805.8 | 807.4 | 808.3 | 809.4 | 812.4 | 811.0 | 810.1 | 807.4 | 806.3 | 804.5 |
| 10° | 808.3 | 810.1 | 813.0 | 818.9 | 825.7 | 825.9 | 823.2 | 816.4 | 811.2 | 807.2 |
| 12.5° | 800.6 | 803.1 | 809.2 | 821.2 | 836.3 | 842.4 | 838.1 | 826.8 | 816.7 | 809.4 |
| 15° | 790.9 | 793.6 | 802.9 | 820.9 | 843.3 | 857.5 | 857.0 | 842.2 | 825.9 | 814.6 |
| 17.5° | 775.8 | 778.5 | 791.8 | 817.1 | 848.7 | 872.2 | 878.5 | 863.1 | 840.3 | 825.2 |
| 20° | 748.5 | 751.0 | 769.5 | 804.9 | 850.5 | 887.7 | 904.2 | 890.7 | 862.2 | 841.7 |
| 22.5° | 713.1 | 716.9 | 738.6 | 783.9 | 846.2 | 904.0 | 933.5 | 924.3 | 887.7 | 859.3 |
| 25° | 675.2 | 679.2 | 704.5 | 758.2 | 835.2 | 915.7 | 968.3 | 962.4 | 916.6 | 881.2 |
| 27.5° | 642.4 | 646.7 | 674.3 | 732.7 | 818.0 | 920.2 | 1002.6 | 1005.5 | 951.6 | 905.3 |
| 30° | 616.7 | 620.8 | 650.1 | 712.2 | 795.9 | 915.7 | 1032.6 | 1052.9 | 987.2 | 926.3 |
| 32.5° | 588.5 | 593.7 | 624.6 | 687.1 | 769.7 | 904.9 | 1058.8 | 1104.1 | 1028.5 | 948.9 |
| 35° | 552.9 | 557.6 | 590.1 | 652.8 | 735.4 | 887.5 | 1080.7 | 1161.0 | 1087.7 | 983.2 |
| 37.5° | 509.5 | 514.0 | 546.3 | 610.0 | 701.3 | 863.1 | 1097.4 | 1225.1 | 1158.1 | 1032.6 |
| 40° | 466.0 | 470.3 | 500.5 | 562.1 | 660.5 | 832.0 | 1103.2 | 1287.8 | 1238.9 | 1100.5 |
| 42.5° | 426.0 | 429.9 | 457.6 | 514.9 | 614.7 | 792.3 | 1095.6 | 1342.4 | 1311.3 | 1147.9 |
| 45° | 389.3 | 392.6 | 417.2 | 470.7 | 567.1 | 744.0 | 1072.5 | 1401.1 | 1397.5 | 1181.8 |
| 47.5° | 347.3 | 350.7 | 376.2 | 427.8 | 519.5 | 687.4 | 1033.5 | 1458.9 | 1517.3 | 1258.5 |
| 50° | 296.1 | 299.0 | 325.2 | 378.4 | 470.0 | 627.1 | 979.4 | 1504.2 | 1668.5 | 1374.7 |
| 52.5° | 235.4 | 238.5 | 264.0 | 317.3 | 411.4 | 562.3 | 908.0 | 1533.8 | 1843.2 | 1544.4 |
| 55° | 175.1 | 177.4 | 199.5 | 247.3 | 338.7 | 488.5 | 818.7 | 1542.1 | 2041.3 | 1776.4 |
| 57.5° | 127.0 | 128.4 | 142.6 | 178.3 | 256.8 | 396.3 | 710.1 | 1520.5 | 2277.1 | 2073.8 |
| 60° | 102.9 | 103.4 | 107.6 | 123.4 | 178.5 | 292.0 | 579.0 | 1446.0 | 2533.0 | 2457.2 |
| 62.5° | 93.4 | 93.4 | 94.6 | 98.8 | 120.7 | 192.7 | 420.4 | 1291.7 | 2807.4 | 2941.7 |
| 65° | 86.9 | 86.9 | 87.3 | 89.4 | 95.2 | 122.8 | 265.4 | 1040.3 | 3038.7 | 3509.2 |
| 67.5° | 81.0 | 81.2 | 81.0 | 81.7 | 85.1 | 90.7 | 153.9 | 718.5 | 3163.3 | 4097.3 |
| 70° | 74.9 | 75.4 | 74.2 | 74.2 | 76.9 | 77.2 | 96.4 | 394.0 | 3059.9 | 4590.1 |
| 72.5° | 67.7 | 68.4 | 66.6 | 66.1 | 68.1 | 67.2 | 72.4 | 189.1 | 2627.1 | 4737.2 |
| 75° | 61.4 | 62.3 | 58.2 | 57.1 | 57.1 | 56.4 | 58.9 | 97.0 | 1705.1 | 3864.4 |
| 77.5° | 55.7 | 57.5 | 51.0 | 47.4 | 46.5 | 44.5 | 48.1 | 59.3 | 745.8 | 1814.3 |
| 80° | 46.0 | 48.5 | 42.0 | 37.7 | 36.1 | 33.8 | 37.9 | 41.5 | 221.8 | 421.3 |
| 82.5° | 34.3 | 35.4 | 29.8 | 26.9 | 25.5 | 23.9 | 28.4 | 28.9 | 72.2 | 149.2 |
| 85° | 21.9 | 22.3 | 18.3 | 15.8 | 15.1 | 14.4 | 18.1 | 15.8 | 27.5 | 109.7 |
| 87.5° | 7.7 | 8.8 | 7.0 | 6.3 | 6.8 | 5.6 | 8.3 | 4.7 | 7.7 | 77.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

793.4
793.9
799.1
804.5
806.5
808.3
812.8
822.7
837.9
854.1
874.0
897.7
915.3
934.9
967.6
1011.8
1078.4
1119.5
1143.4
1214.3
1319.2
1476.0
1690.8
1966.1
2321.6
2760.0
3279.5
3849.3
4524.9
4908.7
4133.4
1776.6
403.5
168.6
159.3
95.9
0.0

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