

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: P938863

Luminaire Tested: **GALN-SB1A-940-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938863
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-940-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3217 lumens
Efficiency: N/A
Efficacy: 104.1 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

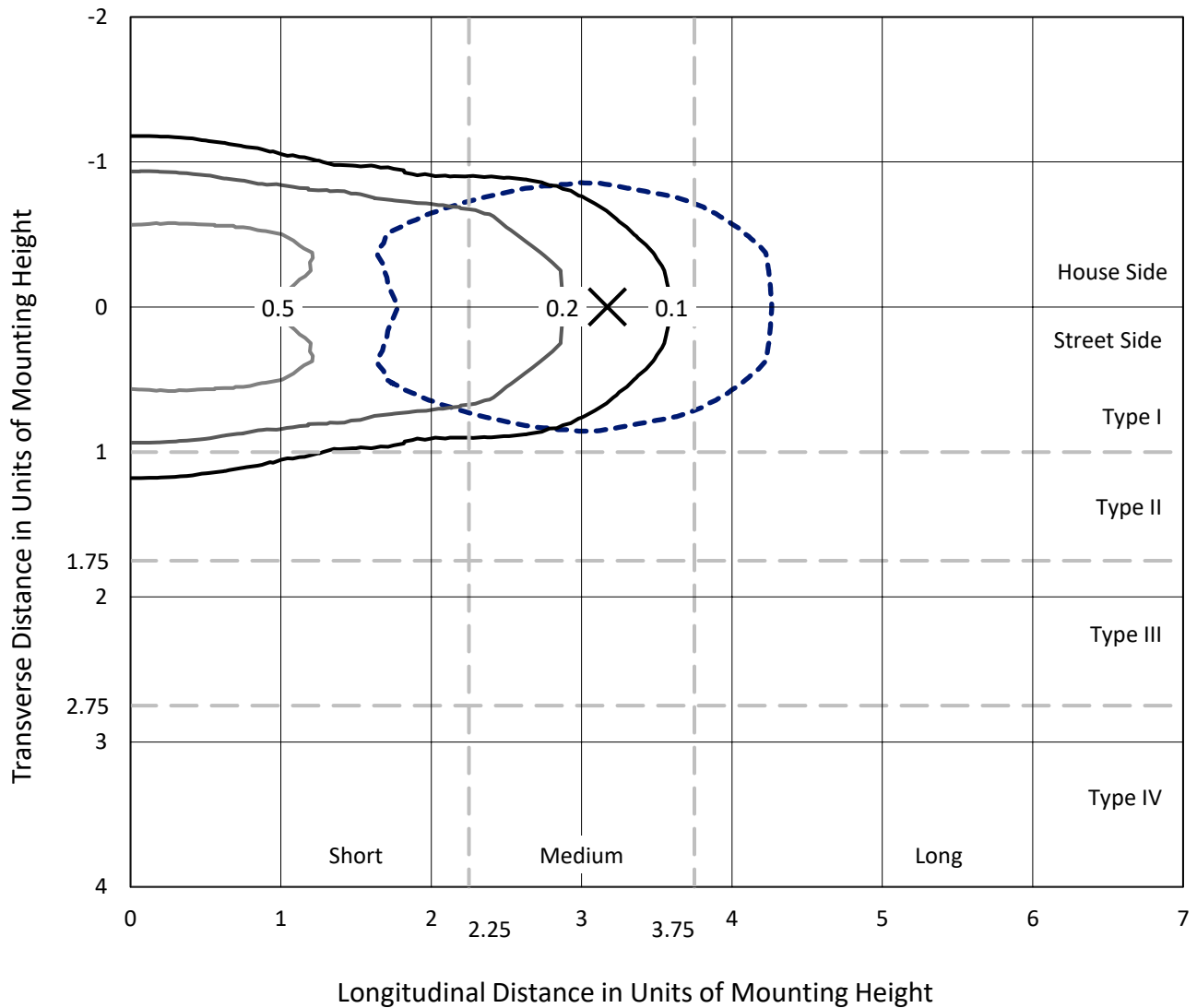
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P938863
 CATALOG NUMBER: GALN-SB1A-940-U-T1

Iso-Footcandle Lines of Horizontal Illumination

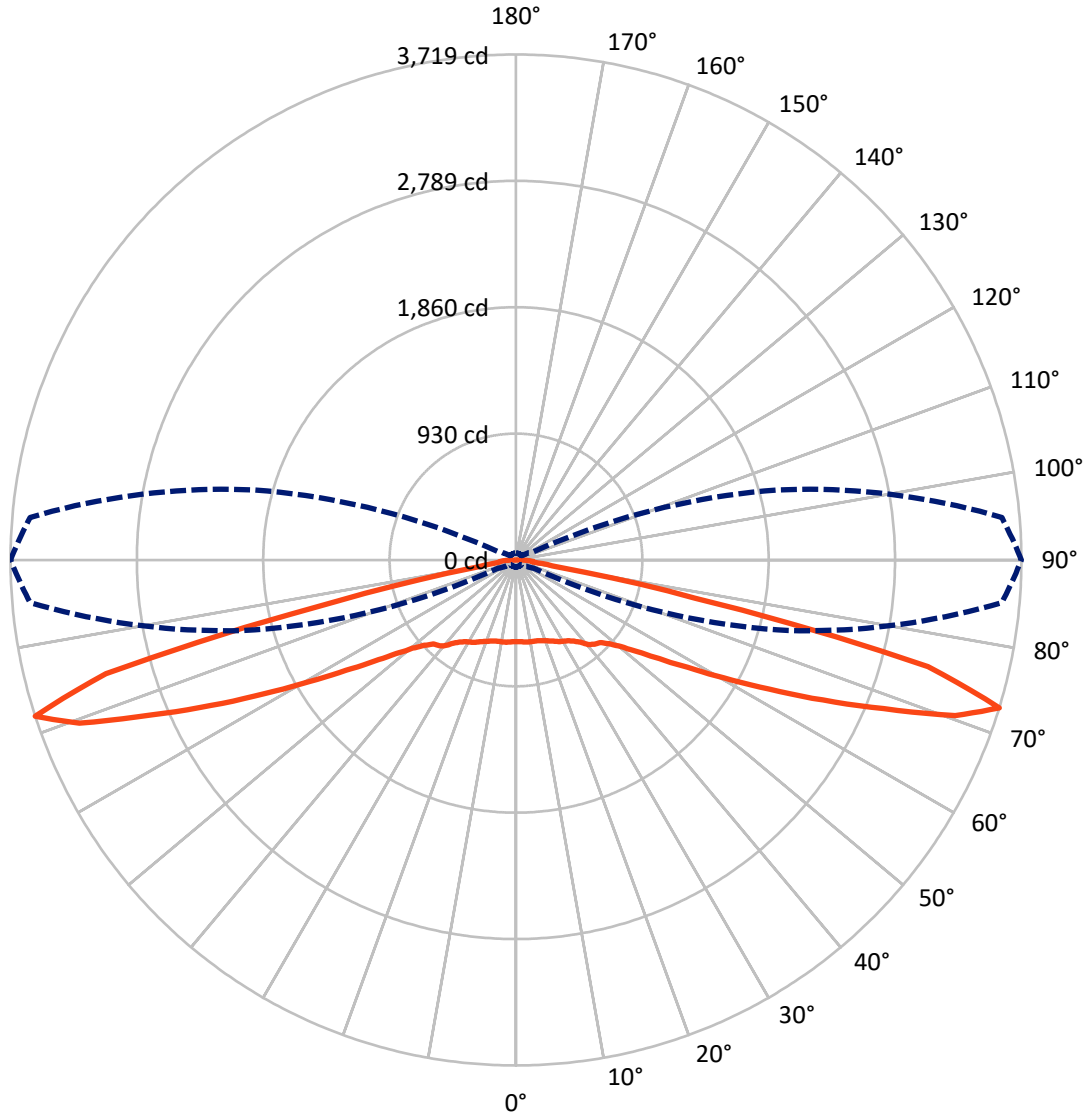
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type I - Short - N/A

REPORT NUMBER: P938863
CATALOG NUMBER: GALN-SB1A-940-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P938863
 CATALOG NUMBER: GALN-SB1A-940-U-T1

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1608.5 | 0.0 | 1608.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1608.5 | 0.0 | 1608.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3217.0 | 0.0 | 3217.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.3 | 1.8 |
| 10°-20° | 178.2 | 5.5 |
| 20°-30° | 297.2 | 9.2 |
| 30°-40° | 408.7 | 12.7 |
| 40°-50° | 499.1 | 15.5 |
| 50°-60° | 577.3 | 17.9 |
| 60°-70° | 688.3 | 21.4 |
| 70°-80° | 480.4 | 14.9 |
| 80°-90° | 29.5 | 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° | 3217.0 | 100.0 |
| 0°-180° | 3217.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P938863

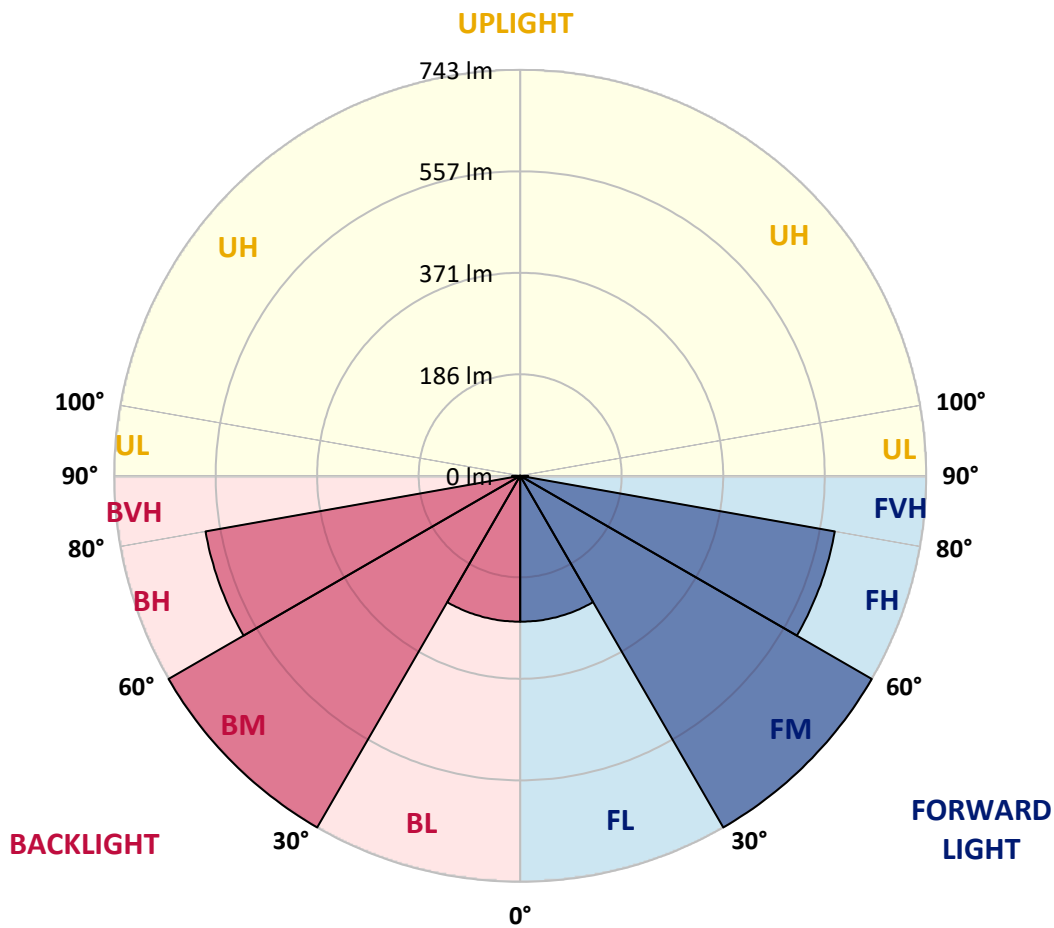
CATALOG NUMBER: GALN-SB1A-940-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 266.8 | 8.3 | | | |
| FM (30°-60°) | 742.6 | 23.1 | | | |
| FH (60°-80°) | 584.4 | 18.2 | | | G0/660 |
| FVH (80°-90°) | 14.8 | 0.5 | | | G1/100 |
| BL (0°-30°) | 266.8 | 8.3 | B1/500 | | |
| BM (30°-60°) | 742.6 | 23.1 | B1/1000 | | |
| BH (60°-80°) | 584.4 | 18.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 14.8 | 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



REPORT NUMBER: P938863

CATALOG NUMBER: GALN-SB1A-940-U-T1

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0° | 601.1 | 601.1 | 601.1 | 601.1 | 601.1 | 601.1 | 601.1 | 601.1 | 601.1 | 601.1 |
| 2.5° | 601.6 | 602.3 | 602.3 | 601.8 | 603.0 | 602.0 | 602.0 | 601.5 | 602.0 | 601.5 |
| 5° | 604.7 | 605.6 | 605.9 | 605.7 | 607.3 | 606.4 | 606.4 | 605.7 | 605.9 | 605.4 |
| 7.5° | 610.5 | 611.7 | 612.4 | 613.3 | 615.5 | 614.5 | 613.8 | 611.7 | 610.9 | 609.5 |
| 10° | 612.4 | 613.8 | 616.0 | 620.5 | 625.6 | 625.8 | 623.7 | 618.6 | 614.6 | 611.6 |
| 12.5° | 606.6 | 608.5 | 613.1 | 622.2 | 633.6 | 638.2 | 635.0 | 626.4 | 618.7 | 613.3 |
| 15° | 599.2 | 601.3 | 608.3 | 622.0 | 638.9 | 649.7 | 649.3 | 638.1 | 625.8 | 617.2 |
| 17.5° | 587.8 | 589.8 | 599.9 | 619.1 | 643.0 | 660.8 | 665.6 | 654.0 | 636.7 | 625.2 |
| 20° | 567.1 | 569.0 | 583.0 | 609.8 | 644.4 | 672.6 | 685.1 | 674.8 | 653.3 | 637.7 |
| 22.5° | 540.3 | 543.2 | 559.6 | 593.9 | 641.1 | 684.9 | 707.3 | 700.3 | 672.6 | 651.1 |
| 25° | 511.5 | 514.6 | 533.8 | 574.5 | 632.8 | 693.8 | 733.6 | 729.2 | 694.5 | 667.6 |
| 27.5° | 486.8 | 490.0 | 510.9 | 555.1 | 619.8 | 697.2 | 759.6 | 761.8 | 721.0 | 685.9 |
| 30° | 467.3 | 470.3 | 492.6 | 539.6 | 603.0 | 693.8 | 782.4 | 797.7 | 748.0 | 701.8 |
| 32.5° | 445.9 | 449.8 | 473.2 | 520.6 | 583.2 | 685.6 | 802.2 | 836.6 | 779.3 | 718.9 |
| 35° | 418.9 | 422.5 | 447.1 | 494.6 | 557.2 | 672.4 | 818.8 | 879.6 | 824.1 | 744.9 |
| 37.5° | 386.1 | 389.5 | 413.9 | 462.1 | 531.4 | 654.0 | 831.4 | 928.2 | 877.4 | 782.4 |
| 40° | 353.1 | 356.3 | 379.2 | 425.9 | 500.4 | 630.4 | 835.9 | 975.7 | 938.6 | 833.8 |
| 42.5° | 322.8 | 325.7 | 346.7 | 390.2 | 465.7 | 600.3 | 830.1 | 1017.1 | 993.5 | 869.7 |
| 45° | 294.9 | 297.5 | 316.1 | 356.6 | 429.6 | 563.7 | 812.6 | 1061.6 | 1058.8 | 895.4 |
| 47.5° | 263.1 | 265.7 | 285.0 | 324.2 | 393.6 | 520.8 | 783.0 | 1105.3 | 1149.6 | 953.5 |
| 50° | 224.3 | 226.5 | 246.4 | 286.7 | 356.1 | 475.1 | 742.0 | 1139.7 | 1264.2 | 1041.5 |
| 52.5° | 178.3 | 180.7 | 200.0 | 240.4 | 311.7 | 426.1 | 688.0 | 1162.1 | 1396.5 | 1170.1 |
| 55° | 132.7 | 134.4 | 151.1 | 187.4 | 256.6 | 370.1 | 620.3 | 1168.4 | 1546.6 | 1345.9 |
| 57.5° | 96.3 | 97.3 | 108.1 | 135.1 | 194.6 | 300.2 | 538.0 | 1152.0 | 1725.3 | 1571.2 |
| 60° | 78.0 | 78.3 | 81.6 | 93.5 | 135.2 | 221.2 | 438.7 | 1095.6 | 1919.1 | 1861.7 |
| 62.5° | 70.8 | 70.8 | 71.6 | 74.9 | 91.5 | 146.0 | 318.5 | 978.6 | 2127.0 | 2228.8 |
| 65° | 65.8 | 65.8 | 66.2 | 67.7 | 72.1 | 93.0 | 201.1 | 788.2 | 2302.3 | 2658.8 |
| 67.5° | 61.4 | 61.5 | 61.4 | 61.9 | 64.5 | 68.7 | 116.6 | 544.4 | 2396.7 | 3104.3 |
| 70° | 56.8 | 57.1 | 56.2 | 56.2 | 58.3 | 58.5 | 73.0 | 298.5 | 2318.4 | 3477.7 |
| 72.5° | 51.3 | 51.8 | 50.4 | 50.1 | 51.6 | 50.9 | 54.9 | 143.3 | 1990.4 | 3589.2 |
| 75° | 46.5 | 47.2 | 44.1 | 43.3 | 43.3 | 42.7 | 44.6 | 73.5 | 1291.8 | 2927.9 |
| 77.5° | 42.2 | 43.6 | 38.6 | 35.9 | 35.2 | 33.7 | 36.4 | 45.0 | 565.1 | 1374.6 |
| 80° | 34.9 | 36.8 | 31.8 | 28.6 | 27.4 | 25.6 | 28.7 | 31.5 | 168.1 | 319.2 |
| 82.5° | 26.0 | 26.8 | 22.6 | 20.3 | 19.3 | 18.1 | 21.5 | 21.9 | 54.7 | 113.0 |
| 85° | 16.6 | 16.9 | 13.8 | 12.0 | 11.5 | 10.9 | 13.7 | 12.0 | 20.9 | 83.1 |
| 87.5° | 5.8 | 6.7 | 5.3 | 4.8 | 5.1 | 4.3 | 6.3 | 3.6 | 5.8 | 58.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

90°

601.1
601.5
605.4
609.5
611.0
612.4
615.8
623.4
634.8
647.1
662.2
680.1
693.5
708.3
733.1
766.6
817.1
848.2
866.3
920.0
999.5
1118.3
1281.1
1489.7
1758.9
2091.1
2484.7
2916.4
3428.3
3719.1
3131.7
1346.0
305.7
127.7
120.7
72.7
0.0

OF REPORT)