

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: P945103

Luminaire Tested: **GALN-SB1A-930-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-930-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3269 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

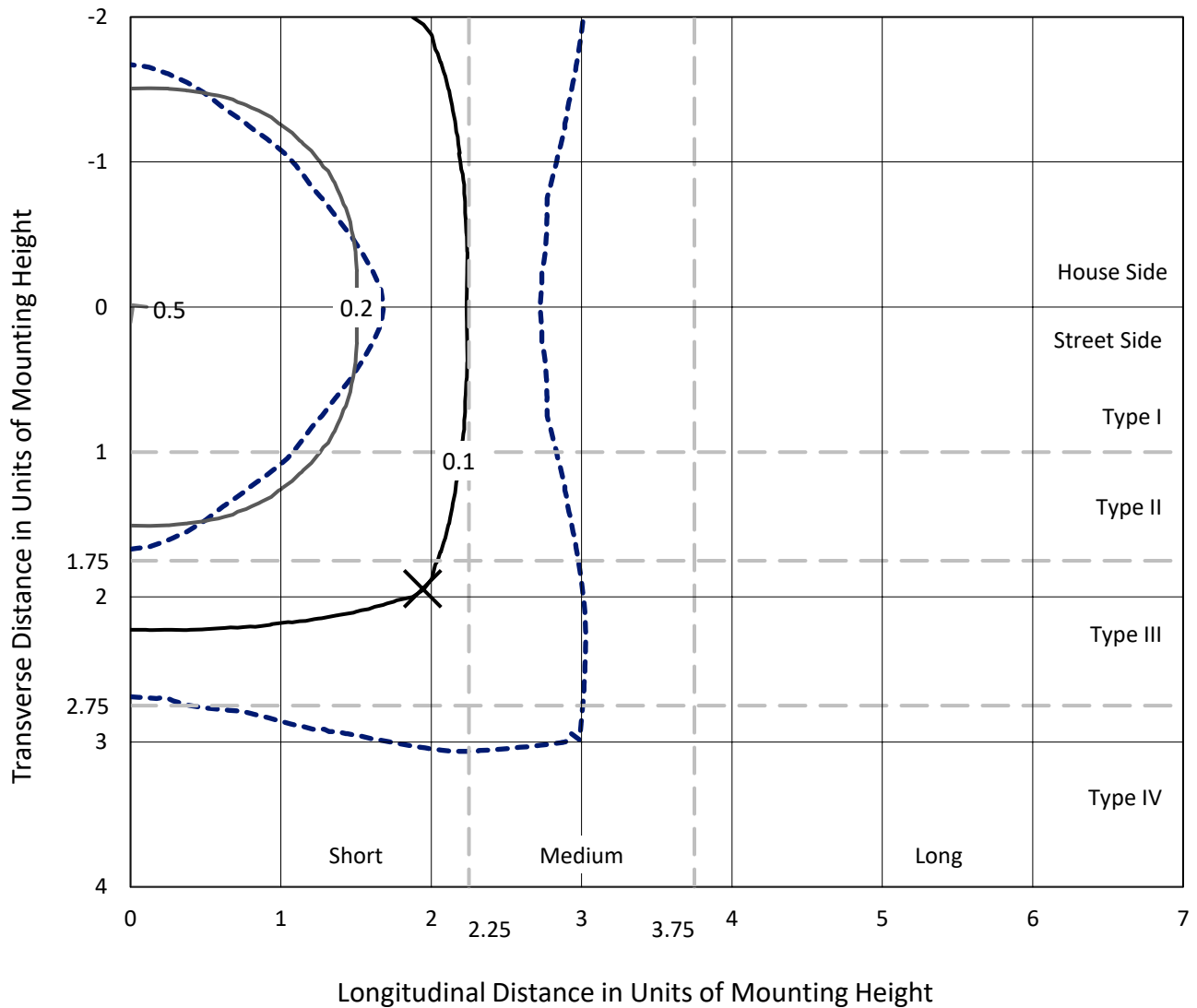
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

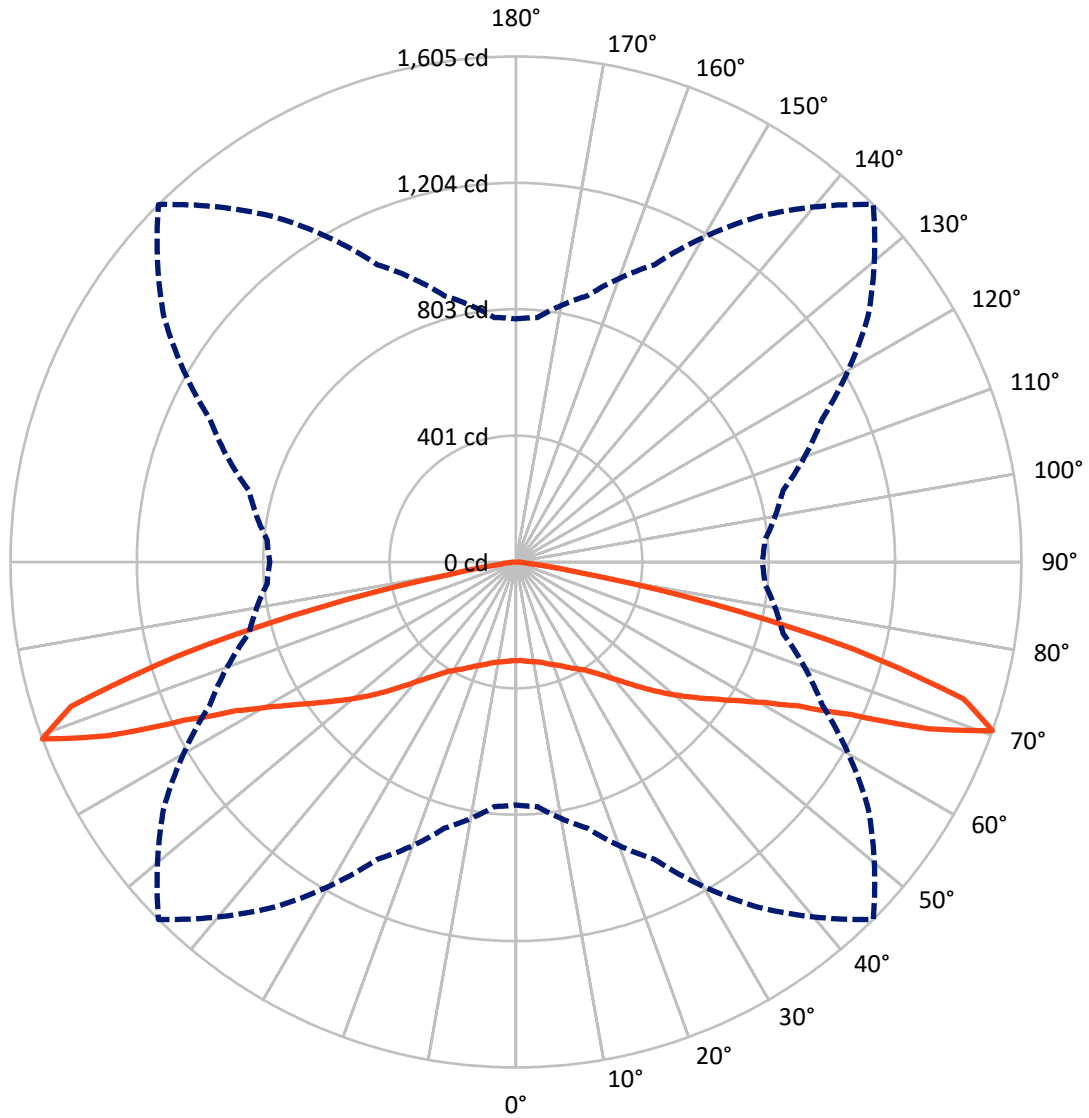
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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 | 1634.5 | 0.0 | 1634.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1634.5 | 0.0 | 1634.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3269.0 | 0.0 | 3269.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 30.4 | 0.9 |
| 10°-20° | 94.3 | 2.9 |
| 20°-30° | 168.6 | 5.2 |
| 30°-40° | 273.3 | 8.4 |
| 40°-50° | 445.1 | 13.6 |
| 50°-60° | 678.7 | 20.8 |
| 60°-70° | 1009.6 | 30.9 |
| 70°-80° | 550.3 | 16.8 |
| 80°-90° | 18.7 | 0.6 |
| 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° | 3269.0 | 100.0 |
| 0°-180° | 3269.0 | 100.0 |

Coefficient of Utilization



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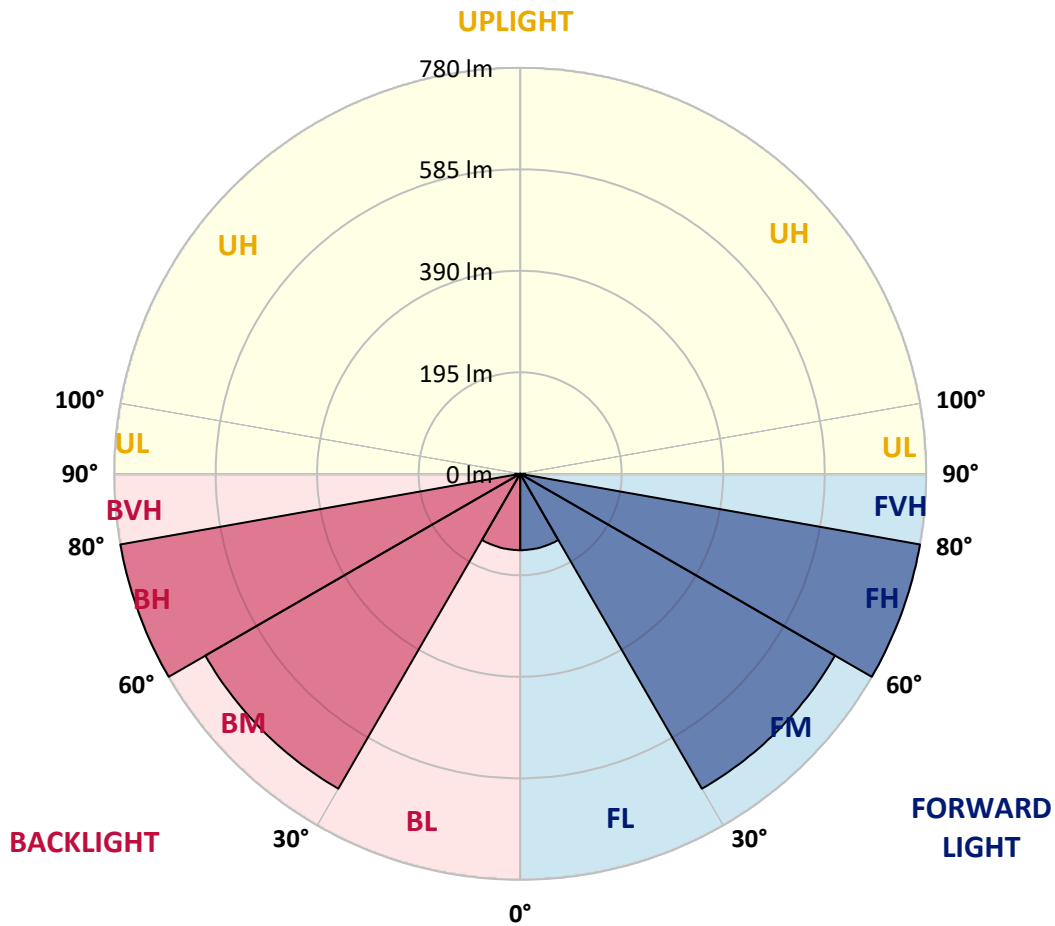
CATALOG NUMBER: GALN-SB1A-930-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 146.7 | 4.5 | | | |
| FM (30°-60°) | 698.5 | 21.4 | | | |
| FH (60°-80°) | 779.9 | 23.9 | | | G1/1800 |
| FVH (80°-90°) | 9.4 | 0.3 | | | G0/10 |
| BL (0°-30°) | 146.7 | 4.5 | B1/500 | | |
| BM (30°-60°) | 698.5 | 21.4 | B1/1000 | | |
| BH (60°-80°) | 779.9 | 23.9 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 9.4 | 0.3 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 | 313.1 |
| 2.5° | 314.6 | 314.9 | 314.3 | 314.0 | 313.6 | 313.1 | 313.3 | 314.1 | 314.8 | 314.6 |
| 5° | 317.2 | 317.6 | 317.1 | 316.9 | 316.3 | 316.1 | 316.1 | 316.9 | 317.4 | 317.1 |
| 7.5° | 320.2 | 320.7 | 319.9 | 319.7 | 319.4 | 319.0 | 318.9 | 319.7 | 320.2 | 320.2 |
| 10° | 323.0 | 323.5 | 322.8 | 322.3 | 322.0 | 322.0 | 321.7 | 322.3 | 323.1 | 323.0 |
| 12.5° | 325.9 | 326.3 | 325.6 | 325.3 | 325.3 | 325.8 | 325.3 | 325.6 | 326.3 | 325.9 |
| 15° | 329.5 | 329.7 | 329.5 | 330.0 | 330.9 | 332.5 | 331.0 | 330.7 | 331.0 | 330.2 |
| 17.5° | 334.5 | 334.8 | 335.5 | 336.6 | 337.8 | 340.7 | 338.1 | 337.3 | 337.3 | 335.6 |
| 20° | 340.5 | 341.0 | 342.0 | 344.0 | 345.5 | 348.3 | 345.6 | 344.5 | 344.0 | 341.9 |
| 22.5° | 346.9 | 347.8 | 349.2 | 351.9 | 354.5 | 357.1 | 354.5 | 352.5 | 351.0 | 348.3 |
| 25° | 354.3 | 355.3 | 357.6 | 361.9 | 365.5 | 369.3 | 366.1 | 362.2 | 359.3 | 355.3 |
| 27.5° | 364.8 | 366.0 | 368.8 | 374.0 | 378.6 | 381.9 | 378.9 | 373.9 | 369.8 | 365.0 |
| 30° | 379.6 | 380.8 | 384.0 | 389.6 | 392.7 | 394.9 | 392.9 | 389.0 | 384.0 | 378.6 |
| 32.5° | 398.6 | 400.1 | 403.7 | 409.0 | 409.6 | 410.0 | 409.3 | 407.3 | 403.7 | 397.2 |
| 35° | 422.8 | 424.4 | 428.5 | 432.8 | 432.1 | 432.8 | 431.8 | 431.1 | 428.5 | 421.0 |
| 37.5° | 452.3 | 454.3 | 458.5 | 461.8 | 460.2 | 459.4 | 459.5 | 459.7 | 458.2 | 449.8 |
| 40° | 486.6 | 489.2 | 492.4 | 495.8 | 493.0 | 490.5 | 492.2 | 493.5 | 492.2 | 483.7 |
| 42.5° | 521.9 | 525.7 | 529.0 | 533.9 | 531.6 | 528.5 | 530.8 | 532.2 | 529.4 | 520.3 |
| 45° | 561.1 | 564.7 | 569.0 | 576.4 | 574.7 | 571.5 | 574.7 | 575.1 | 570.3 | 559.5 |
| 47.5° | 601.7 | 605.4 | 611.8 | 621.7 | 621.0 | 617.4 | 621.7 | 619.4 | 613.3 | 600.3 |
| 50° | 640.1 | 645.3 | 655.2 | 668.9 | 670.3 | 665.8 | 671.6 | 667.1 | 657.0 | 640.7 |
| 52.5° | 676.2 | 681.7 | 697.3 | 716.0 | 720.8 | 715.1 | 722.8 | 715.1 | 699.8 | 679.0 |
| 55° | 714.1 | 720.3 | 738.9 | 763.3 | 772.8 | 768.6 | 775.8 | 764.1 | 742.5 | 717.2 |
| 57.5° | 758.7 | 762.5 | 784.6 | 813.7 | 829.8 | 830.8 | 834.0 | 814.4 | 788.1 | 759.4 |
| 60° | 807.1 | 812.4 | 836.5 | 871.3 | 896.7 | 904.9 | 901.5 | 872.3 | 841.8 | 808.8 |
| 62.5° | 869.2 | 874.9 | 903.8 | 945.5 | 985.7 | 1006.0 | 992.6 | 950.2 | 912.5 | 872.9 |
| 65° | 920.5 | 926.9 | 979.1 | 1053.5 | 1126.7 | 1167.5 | 1133.7 | 1055.8 | 987.8 | 932.0 |
| 67.5° | 883.3 | 891.2 | 973.1 | 1109.6 | 1291.6 | 1413.5 | 1297.8 | 1126.3 | 993.2 | 917.6 |
| 70° | 772.0 | 779.4 | 874.9 | 1041.8 | 1338.1 | 1605.2 | 1366.0 | 1072.5 | 878.0 | 793.3 |
| 72.5° | 512.5 | 536.3 | 633.0 | 833.2 | 1194.8 | 1485.4 | 1206.6 | 816.3 | 587.2 | 511.4 |
| 75° | 170.0 | 189.1 | 255.0 | 432.0 | 800.2 | 1110.9 | 761.8 | 382.2 | 202.0 | 145.4 |
| 77.5° | 42.8 | 49.4 | 68.1 | 123.6 | 319.2 | 632.5 | 287.4 | 100.9 | 55.0 | 38.4 |
| 80° | 20.8 | 23.0 | 32.8 | 41.2 | 79.9 | 201.0 | 75.0 | 38.7 | 25.9 | 20.0 |
| 82.5° | 11.5 | 11.7 | 18.5 | 23.3 | 29.7 | 52.0 | 30.9 | 22.6 | 14.9 | 12.1 |
| 85° | 7.1 | 6.9 | 9.8 | 12.5 | 12.5 | 18.5 | 14.8 | 12.5 | 8.5 | 7.5 |
| 87.5° | 2.8 | 2.8 | 3.6 | 3.9 | 3.4 | 4.8 | 3.8 | 4.1 | 3.3 | 3.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|-------|
| 313.1 |
| 314.8 |
| 317.2 |
| 320.2 |
| 323.0 |
| 325.8 |
| 330.2 |
| 335.6 |
| 341.9 |
| 348.1 |
| 355.2 |
| 364.8 |
| 378.6 |
| 397.3 |
| 421.0 |
| 449.8 |
| 483.7 |
| 520.9 |
| 560.6 |
| 599.5 |
| 640.4 |
| 677.0 |
| 713.7 |
| 755.4 |
| 803.5 |
| 866.0 |
| 922.8 |
| 906.3 |
| 782.0 |
| 494.8 |
| 137.5 |
| 34.3 |
| 18.4 |
| 12.1 |
| 7.9 |
| 3.3 |
| 0.0 |

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