

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: P941920

Luminaire Tested: **GALN-SB5C-940-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941920
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-SB5C-940-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27729 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

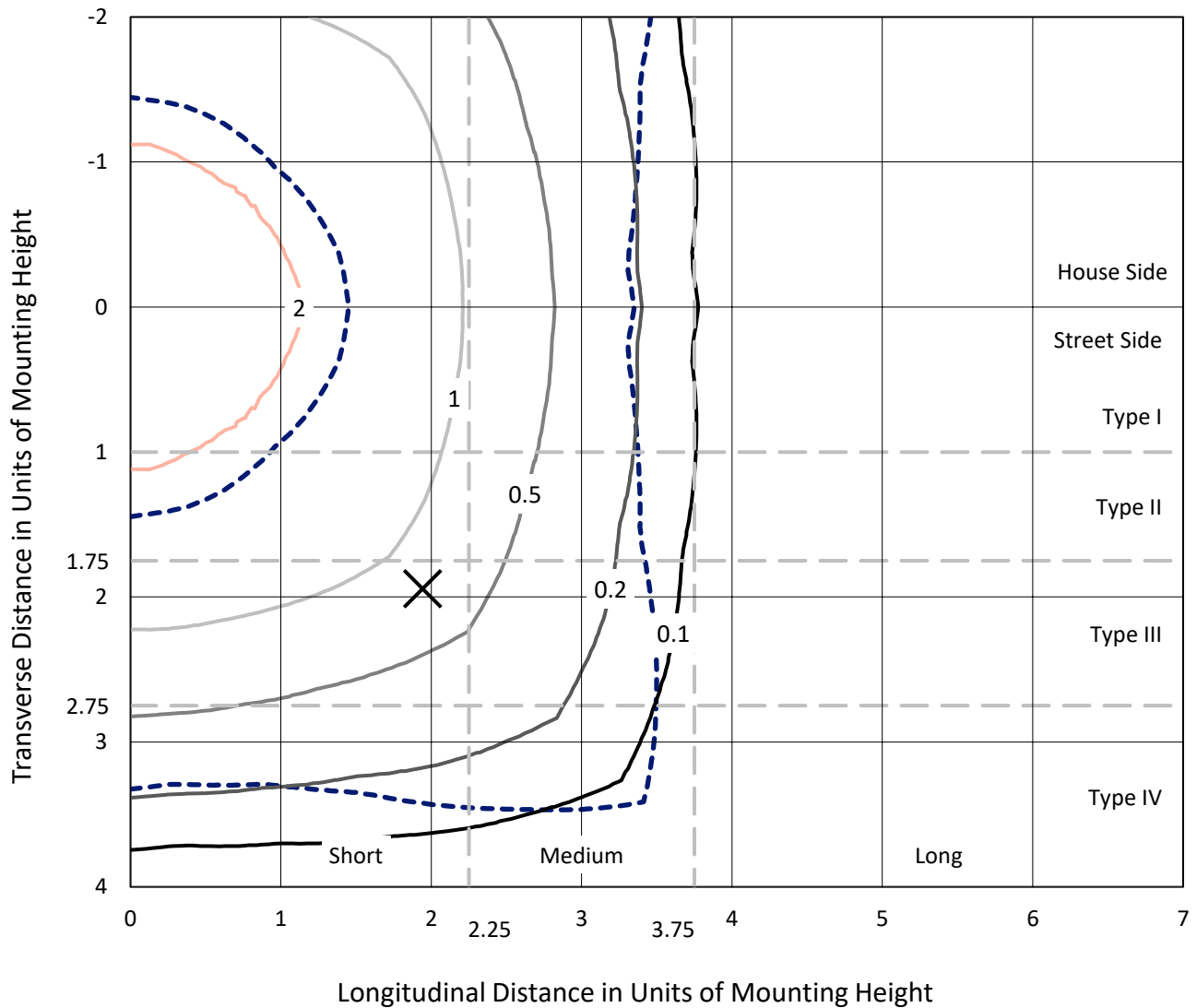
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

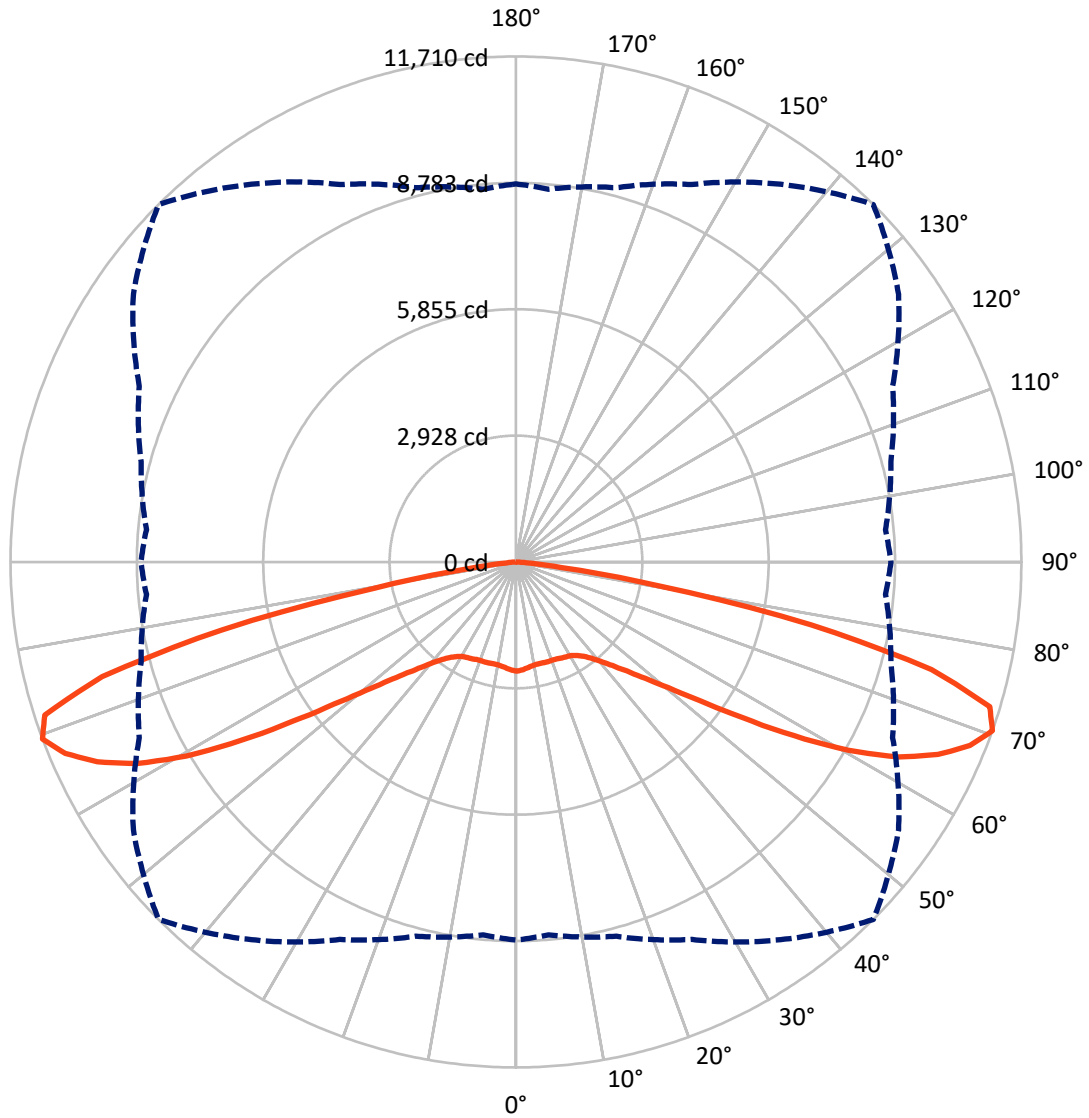
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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 | 13864.5 | 0.0 | 13864.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13864.5 | 0.0 | 13864.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27729.0 | 0.0 | 27729.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 235.3 | 0.8 |
| 10°-20° | 690.9 | 2.5 |
| 20°-30° | 1149.7 | 4.1 |
| 30°-40° | 1738.8 | 6.3 |
| 40°-50° | 2889.4 | 10.4 |
| 50°-60° | 5452.2 | 19.7 |
| 60°-70° | 9206.3 | 33.2 |
| 70°-80° | 6049.5 | 21.8 |
| 80°-90° | 316.9 | 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° | 27729.0 | 100.0 |
| 0°-180° | 27729.0 | 100.0 |

Coefficient of Utilization



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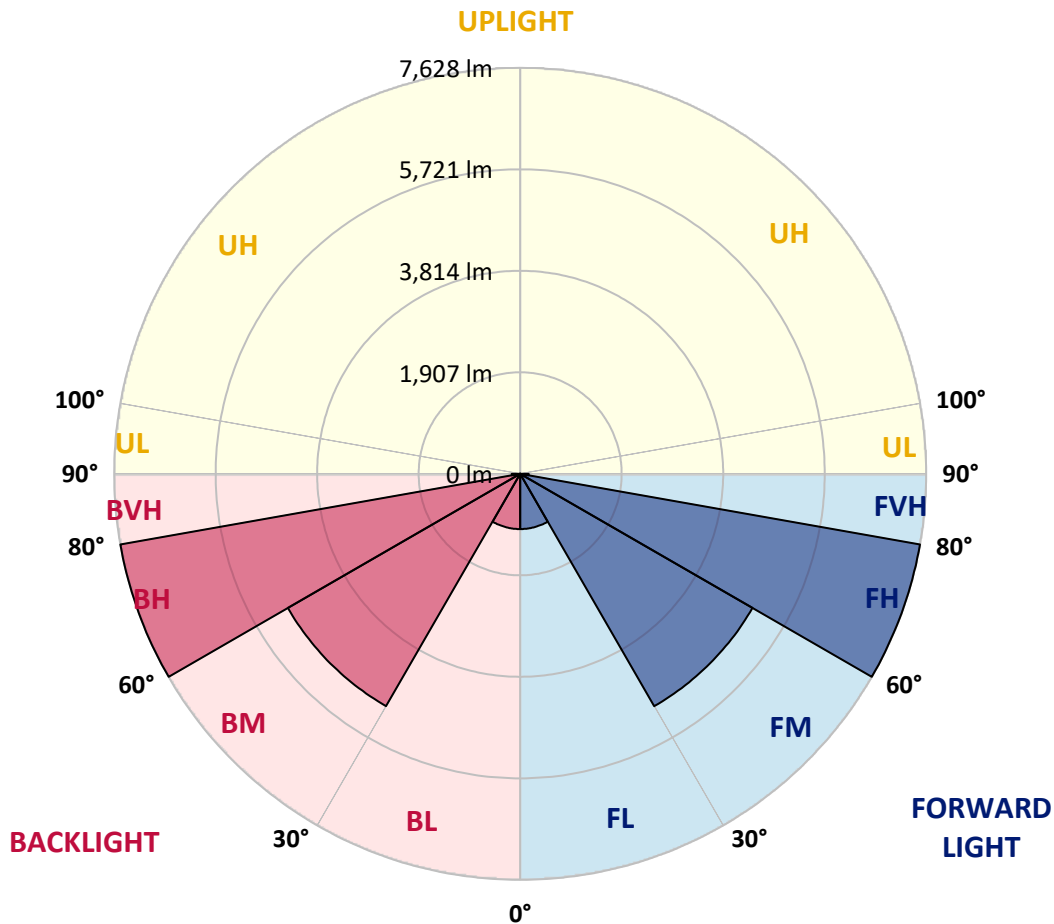
CATALOG NUMBER: GALN-SB5C-940-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1038.0 | 3.7 | | | |
| FM (30°-60°) | 5040.2 | 18.2 | | | |
| FH (60°-80°) | 7627.9 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 158.5 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1038.0 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 5040.2 | 18.2 | B4/8500 | | |
| BH (60°-80°) | 7627.9 | 27.5 | B5 | | G4/12000 |
| BVH (80°-90°) | 158.5 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 2529.4 | 2529.4 | 2529.4 | 2529.4 | 2529.4 | 2529.4 | 2529.4 | 2529.4 | 2529.4 | 2529.4 |
| 2.5° | 2513.6 | 2520.8 | 2517.9 | 2512.1 | 2512.1 | 2507.8 | 2512.1 | 2515.0 | 2519.4 | 2522.2 |
| 5° | 2480.4 | 2486.2 | 2484.8 | 2480.4 | 2481.9 | 2477.6 | 2480.4 | 2484.8 | 2487.6 | 2489.1 |
| 7.5° | 2451.6 | 2457.4 | 2454.5 | 2447.3 | 2447.3 | 2443.0 | 2444.4 | 2448.7 | 2453.1 | 2454.5 |
| 10° | 2444.4 | 2450.2 | 2441.5 | 2430.0 | 2425.7 | 2419.9 | 2421.3 | 2425.7 | 2434.3 | 2438.6 |
| 12.5° | 2447.3 | 2451.6 | 2443.0 | 2425.7 | 2421.3 | 2415.6 | 2415.6 | 2419.9 | 2431.4 | 2437.2 |
| 15° | 2455.9 | 2460.3 | 2447.3 | 2428.6 | 2424.2 | 2419.9 | 2418.5 | 2424.2 | 2437.2 | 2447.3 |
| 17.5° | 2471.8 | 2476.1 | 2455.9 | 2430.0 | 2424.2 | 2425.7 | 2424.2 | 2428.6 | 2448.7 | 2467.5 |
| 20° | 2486.2 | 2489.1 | 2461.7 | 2430.0 | 2424.2 | 2425.7 | 2424.2 | 2432.9 | 2458.8 | 2484.8 |
| 22.5° | 2490.5 | 2493.4 | 2467.5 | 2440.1 | 2435.8 | 2437.2 | 2435.8 | 2444.4 | 2468.9 | 2494.9 |
| 25° | 2492.0 | 2496.3 | 2476.1 | 2454.5 | 2461.7 | 2464.6 | 2461.7 | 2463.1 | 2481.9 | 2504.9 |
| 27.5° | 2513.6 | 2519.4 | 2500.6 | 2481.9 | 2486.2 | 2484.8 | 2489.1 | 2493.4 | 2507.8 | 2530.9 |
| 30° | 2558.3 | 2562.6 | 2546.7 | 2528.0 | 2525.1 | 2515.0 | 2528.0 | 2542.4 | 2558.3 | 2578.4 |
| 32.5° | 2631.8 | 2640.4 | 2620.2 | 2600.1 | 2587.1 | 2581.3 | 2591.4 | 2615.9 | 2637.5 | 2659.2 |
| 35° | 2754.3 | 2760.0 | 2741.3 | 2703.8 | 2680.8 | 2680.8 | 2689.4 | 2721.1 | 2755.7 | 2783.1 |
| 37.5° | 2927.2 | 2934.4 | 2901.3 | 2856.6 | 2822.0 | 2822.0 | 2833.6 | 2866.7 | 2918.6 | 2957.5 |
| 40° | 3137.7 | 3147.8 | 3106.0 | 3059.8 | 3026.7 | 3020.9 | 3035.3 | 3072.8 | 3121.8 | 3170.8 |
| 42.5° | 3391.3 | 3402.9 | 3348.1 | 3307.7 | 3281.8 | 3281.8 | 3289.0 | 3323.6 | 3368.3 | 3428.8 |
| 45° | 3715.6 | 3735.8 | 3660.8 | 3620.5 | 3596.0 | 3601.8 | 3606.1 | 3636.3 | 3676.7 | 3745.9 |
| 47.5° | 4101.9 | 4122.1 | 4042.8 | 4001.0 | 3996.7 | 4024.0 | 4006.8 | 4028.4 | 4050.0 | 4129.3 |
| 50° | 4540.0 | 4574.6 | 4519.8 | 4517.0 | 4525.6 | 4576.1 | 4535.7 | 4547.2 | 4522.7 | 4573.2 |
| 52.5° | 5076.2 | 5126.6 | 5116.5 | 5133.8 | 5230.4 | 5334.2 | 5241.9 | 5201.6 | 5109.3 | 5125.2 |
| 55° | 5726.2 | 5802.6 | 5817.0 | 5920.8 | 6139.8 | 6351.7 | 6155.7 | 5992.8 | 5796.8 | 5760.8 |
| 57.5° | 6465.6 | 6526.1 | 6595.3 | 6807.2 | 7216.5 | 7592.7 | 7216.5 | 6856.2 | 6547.7 | 6474.2 |
| 60° | 7261.2 | 7336.1 | 7402.4 | 7715.2 | 8323.4 | 8852.3 | 8311.9 | 7739.7 | 7331.8 | 7232.3 |
| 62.5° | 8115.8 | 8212.4 | 8258.5 | 8605.9 | 9315.0 | 9946.3 | 9325.1 | 8631.8 | 8179.3 | 8072.6 |
| 65° | 8935.9 | 9015.2 | 9067.1 | 9437.5 | 10114.9 | 10747.6 | 10161.0 | 9477.8 | 9012.3 | 8872.5 |
| 67.5° | 9317.9 | 9361.1 | 9487.9 | 9907.3 | 10622.2 | 11344.3 | 10743.3 | 9952.0 | 9431.7 | 9186.7 |
| 70° | 8758.6 | 8670.7 | 8976.3 | 9647.9 | 10682.8 | 11710.4 | 10821.1 | 9627.7 | 8990.7 | 8592.9 |
| 72.5° | 6768.2 | 6616.9 | 7147.3 | 8296.0 | 9990.9 | 11476.9 | 10060.1 | 8360.9 | 7477.4 | 6670.2 |
| 75° | 3682.5 | 3511.0 | 4243.1 | 5695.9 | 7967.4 | 9947.7 | 8150.4 | 5858.8 | 4724.5 | 3655.1 |
| 77.5° | 1039.2 | 974.3 | 1565.2 | 2755.7 | 4792.2 | 6984.4 | 4976.7 | 2816.3 | 1856.4 | 1101.1 |
| 80° | 318.5 | 308.4 | 418.0 | 830.2 | 2035.1 | 3345.2 | 1955.8 | 840.3 | 531.8 | 335.8 |
| 82.5° | 188.8 | 173.0 | 207.5 | 302.7 | 518.9 | 1050.7 | 504.4 | 315.6 | 253.7 | 170.1 |
| 85° | 108.1 | 100.9 | 122.5 | 147.0 | 174.4 | 223.4 | 145.6 | 149.9 | 135.5 | 90.8 |
| 87.5° | 44.7 | 40.4 | 47.6 | 46.1 | 40.4 | 51.9 | 38.9 | 46.1 | 54.8 | 36.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|--------|
| 2529.4 |
| 2520.8 |
| 2489.1 |
| 2454.5 |
| 2438.6 |
| 2438.6 |
| 2448.7 |
| 2467.5 |
| 2486.2 |
| 2494.9 |
| 2503.5 |
| 2525.1 |
| 2574.1 |
| 2650.5 |
| 2773.0 |
| 2943.1 |
| 3155.0 |
| 3424.5 |
| 3743.0 |
| 4106.2 |
| 4542.9 |
| 5071.9 |
| 5704.6 |
| 6422.3 |
| 7145.9 |
| 7986.1 |
| 8803.3 |
| 9189.6 |
| 8688.0 |
| 6870.6 |
| 3892.9 |
| 1223.6 |
| 354.6 |
| 184.5 |
| 95.1 |
| 33.1 |
| 0.0 |

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