

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: P943930

Luminaire Tested: **GALN-SB8C-927-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943930
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-SB8C-927-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

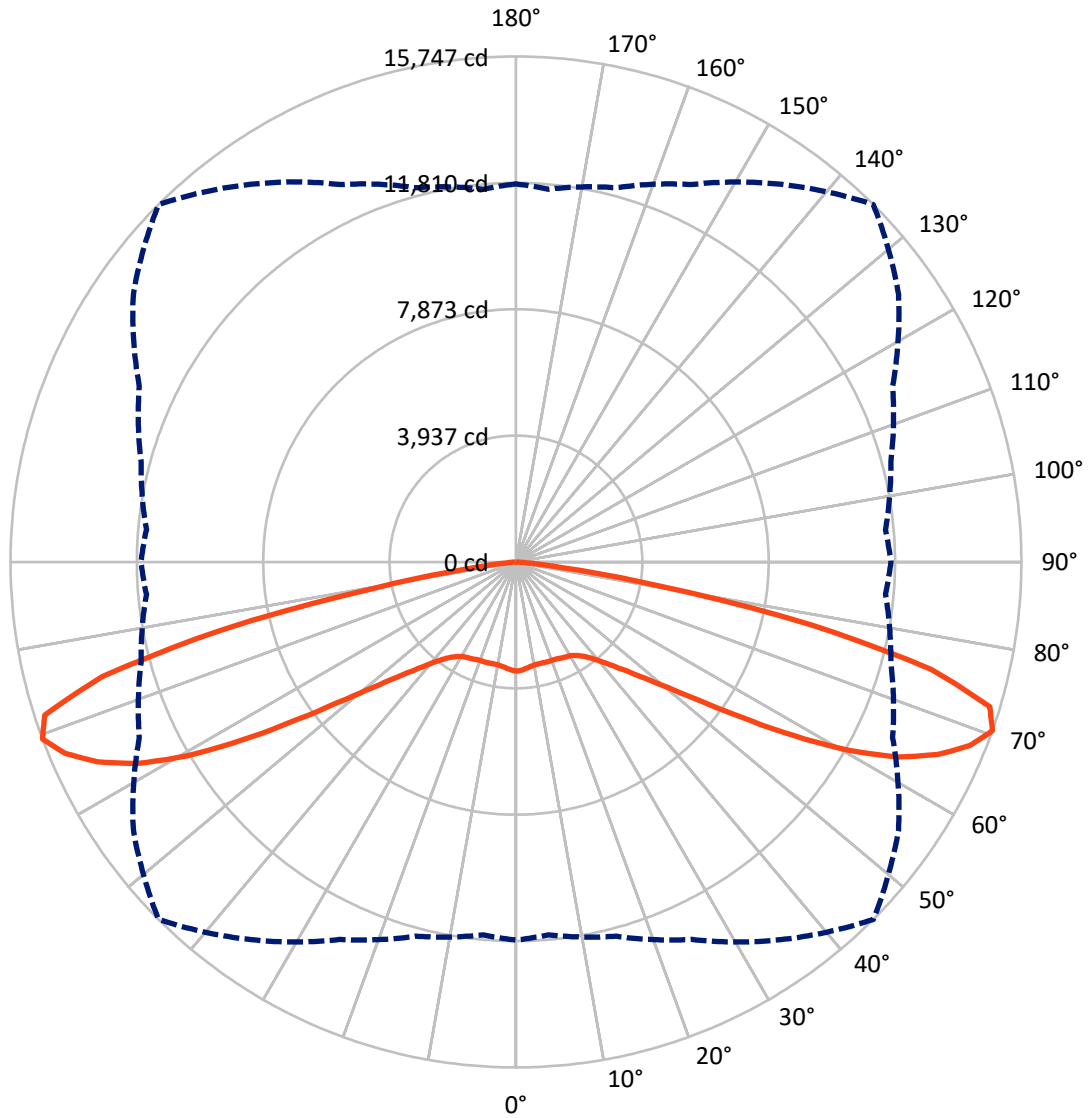
Lumens per Lamp: N/A
Luminaire Lumens: 37286 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 399.8
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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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 | 18643.0 | 0.0 | 18643.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18643.0 | 0.0 | 18643.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 37286.0 | 0.0 | 37286.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 316.4 | 0.8 |
| 10°-20° | 929.0 | 2.5 |
| 20°-30° | 1546.0 | 4.1 |
| 30°-40° | 2338.0 | 6.3 |
| 40°-50° | 3885.3 | 10.4 |
| 50°-60° | 7331.4 | 19.7 |
| 60°-70° | 12379.3 | 33.2 |
| 70°-80° | 8134.5 | 21.8 |
| 80°-90° | 426.2 | 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° | 37286.0 | 100.0 |
| 0°-180° | 37286.0 | 100.0 |



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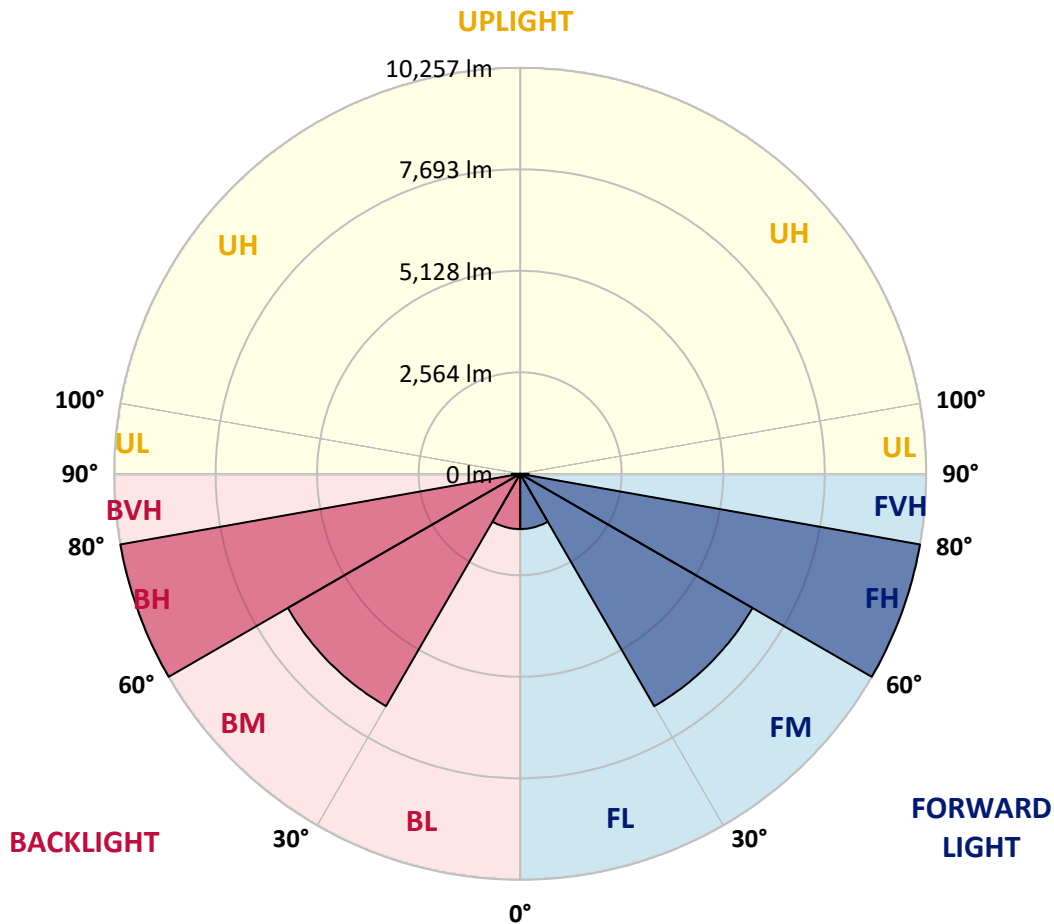
CATALOG NUMBER: GALN-SB8C-927-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1395.7 | 3.7 | | | |
| FM (30°-60°) | 6777.3 | 18.2 | | | |
| FH (60°-80°) | 10256.9 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 213.1 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1395.7 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 6777.3 | 18.2 | B4/8500 | | |
| BH (60°-80°) | 10256.9 | 27.5 | B5 | | G4/12000 |
| BVH (80°-90°) | 213.1 | 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° | 3401.2 | 3401.2 | 3401.2 | 3401.2 | 3401.2 | 3401.2 | 3401.2 | 3401.2 | 3401.2 | 3401.2 |
| 2.5° | 3379.9 | 3389.6 | 3385.7 | 3378.0 | 3378.0 | 3372.2 | 3378.0 | 3381.9 | 3387.7 | 3391.5 |
| 5° | 3335.3 | 3343.1 | 3341.2 | 3335.3 | 3337.3 | 3331.5 | 3335.3 | 3341.2 | 3345.0 | 3347.0 |
| 7.5° | 3296.6 | 3304.3 | 3300.5 | 3290.8 | 3290.8 | 3285.0 | 3286.9 | 3292.7 | 3298.5 | 3300.5 |
| 10° | 3286.9 | 3294.6 | 3283.0 | 3267.5 | 3261.7 | 3253.9 | 3255.9 | 3261.7 | 3273.3 | 3279.1 |
| 12.5° | 3290.8 | 3296.6 | 3285.0 | 3261.7 | 3255.9 | 3248.1 | 3248.1 | 3253.9 | 3269.4 | 3277.2 |
| 15° | 3302.4 | 3308.2 | 3290.8 | 3265.6 | 3259.8 | 3253.9 | 3252.0 | 3259.8 | 3277.2 | 3290.8 |
| 17.5° | 3323.7 | 3329.5 | 3302.4 | 3267.5 | 3259.8 | 3261.7 | 3259.8 | 3265.6 | 3292.7 | 3317.9 |
| 20° | 3343.1 | 3347.0 | 3310.1 | 3267.5 | 3259.8 | 3261.7 | 3259.8 | 3271.4 | 3306.3 | 3341.2 |
| 22.5° | 3348.9 | 3352.8 | 3317.9 | 3281.1 | 3275.3 | 3277.2 | 3275.3 | 3286.9 | 3319.8 | 3354.7 |
| 25° | 3350.8 | 3356.7 | 3329.5 | 3300.5 | 3310.1 | 3314.0 | 3310.1 | 3312.1 | 3337.3 | 3368.3 |
| 27.5° | 3379.9 | 3387.7 | 3362.5 | 3337.3 | 3343.1 | 3341.2 | 3347.0 | 3352.8 | 3372.2 | 3403.2 |
| 30° | 3440.0 | 3445.8 | 3424.5 | 3399.3 | 3395.4 | 3381.9 | 3399.3 | 3418.7 | 3440.0 | 3467.1 |
| 32.5° | 3538.8 | 3550.5 | 3523.3 | 3496.2 | 3478.8 | 3471.0 | 3484.6 | 3517.5 | 3546.6 | 3575.7 |
| 35° | 3703.6 | 3711.3 | 3686.1 | 3635.7 | 3604.7 | 3604.7 | 3616.4 | 3659.0 | 3705.5 | 3742.3 |
| 37.5° | 3936.1 | 3945.8 | 3901.2 | 3841.2 | 3794.7 | 3794.7 | 3810.2 | 3854.7 | 3924.5 | 3976.8 |
| 40° | 4219.1 | 4232.6 | 4176.4 | 4114.4 | 4069.9 | 4062.1 | 4081.5 | 4131.9 | 4197.8 | 4263.7 |
| 42.5° | 4560.2 | 4575.7 | 4502.0 | 4447.8 | 4412.9 | 4412.9 | 4422.6 | 4469.1 | 4529.2 | 4610.6 |
| 45° | 4996.2 | 5023.4 | 4922.6 | 4868.3 | 4835.4 | 4843.1 | 4848.9 | 4889.6 | 4943.9 | 5036.9 |
| 47.5° | 5515.6 | 5542.8 | 5436.2 | 5380.0 | 5374.1 | 5411.0 | 5387.7 | 5416.8 | 5445.9 | 5552.4 |
| 50° | 6104.8 | 6151.3 | 6077.6 | 6073.8 | 6085.4 | 6153.2 | 6099.0 | 6114.5 | 6081.5 | 6149.4 |
| 52.5° | 6825.7 | 6893.6 | 6880.0 | 6903.2 | 7033.1 | 7172.6 | 7048.6 | 6994.3 | 6870.3 | 6891.6 |
| 55° | 7699.8 | 7802.5 | 7821.9 | 7961.4 | 8256.0 | 8540.9 | 8277.3 | 8058.3 | 7794.7 | 7746.3 |
| 57.5° | 8694.0 | 8775.4 | 8868.4 | 9153.3 | 9703.7 | 10209.5 | 9703.7 | 9219.2 | 8804.4 | 8705.6 |
| 60° | 9763.8 | 9864.5 | 9953.7 | 10374.2 | 11192.1 | 11903.3 | 11176.6 | 10407.2 | 9858.7 | 9725.0 |
| 62.5° | 10913.0 | 11042.9 | 11104.9 | 11571.9 | 12525.5 | 13374.3 | 12539.0 | 11606.8 | 10998.3 | 10854.9 |
| 65° | 12015.8 | 12122.3 | 12192.1 | 12690.2 | 13601.1 | 14451.9 | 13663.1 | 12744.5 | 12118.5 | 11930.5 |
| 67.5° | 12529.3 | 12587.5 | 12758.0 | 13322.0 | 14283.2 | 15254.2 | 14446.0 | 13382.1 | 12682.4 | 12353.0 |
| 70° | 11777.4 | 11659.2 | 12070.0 | 12973.1 | 14364.6 | 15746.5 | 14550.7 | 12946.0 | 12089.4 | 11554.5 |
| 72.5° | 9101.0 | 8897.5 | 9610.7 | 11155.3 | 13434.4 | 15432.5 | 13527.4 | 11242.5 | 10054.5 | 8969.2 |
| 75° | 4951.7 | 4721.0 | 5705.5 | 7659.1 | 10713.4 | 13376.2 | 10959.5 | 7878.1 | 6352.8 | 4914.8 |
| 77.5° | 1397.3 | 1310.1 | 2104.7 | 3705.5 | 6443.9 | 9391.7 | 6692.0 | 3786.9 | 2496.2 | 1480.7 |
| 80° | 428.3 | 414.7 | 562.0 | 1116.3 | 2736.5 | 4498.2 | 2629.9 | 1129.9 | 715.1 | 451.6 |
| 82.5° | 253.9 | 232.6 | 279.1 | 407.0 | 697.7 | 1412.8 | 678.3 | 424.4 | 341.1 | 228.7 |
| 85° | 145.4 | 135.7 | 164.7 | 197.7 | 234.5 | 300.4 | 195.7 | 201.6 | 182.2 | 122.1 |
| 87.5° | 60.1 | 54.3 | 64.0 | 62.0 | 54.3 | 69.8 | 52.3 | 62.0 | 73.6 | 48.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---------|
| 3401.2 |
| 3389.6 |
| 3347.0 |
| 3300.5 |
| 3279.1 |
| 3279.1 |
| 3292.7 |
| 3317.9 |
| 3343.1 |
| 3354.7 |
| 3366.3 |
| 3395.4 |
| 3461.3 |
| 3564.0 |
| 3728.8 |
| 3957.4 |
| 4242.3 |
| 4604.7 |
| 5033.1 |
| 5521.4 |
| 6108.7 |
| 6819.9 |
| 7670.7 |
| 8635.8 |
| 9608.7 |
| 10738.6 |
| 11837.5 |
| 12356.8 |
| 11682.4 |
| 9238.6 |
| 5234.6 |
| 1645.4 |
| 476.8 |
| 248.1 |
| 127.9 |
| 44.6 |
| 0.0 |

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