

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: P949199

Luminaire Tested: **GALN-SB4A-740-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4A-740-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

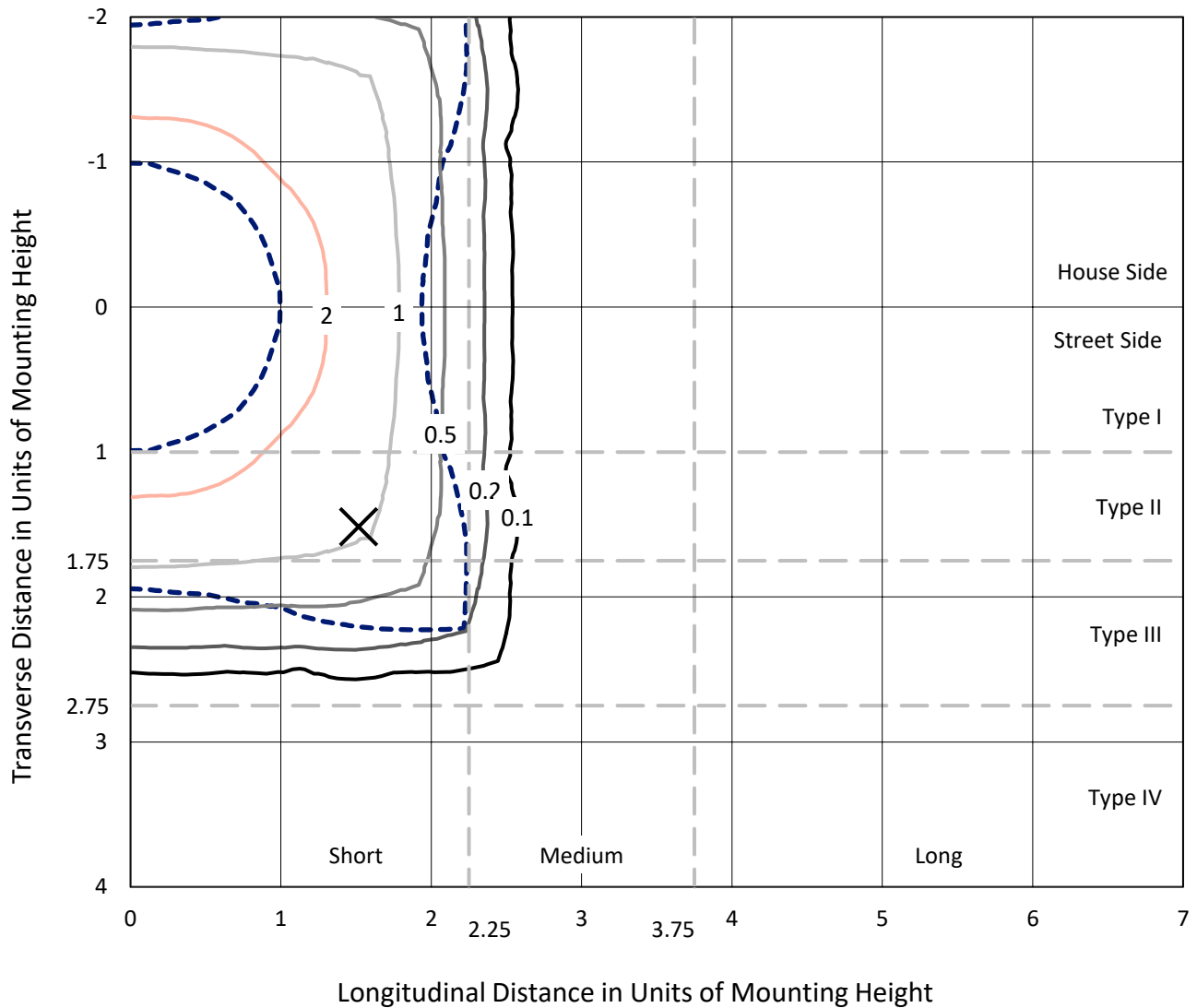
Lumens per Lamp: N/A  
Luminaire Lumens: 19931.1 lumens  
Efficiency: N/A  
Efficacy: 174.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

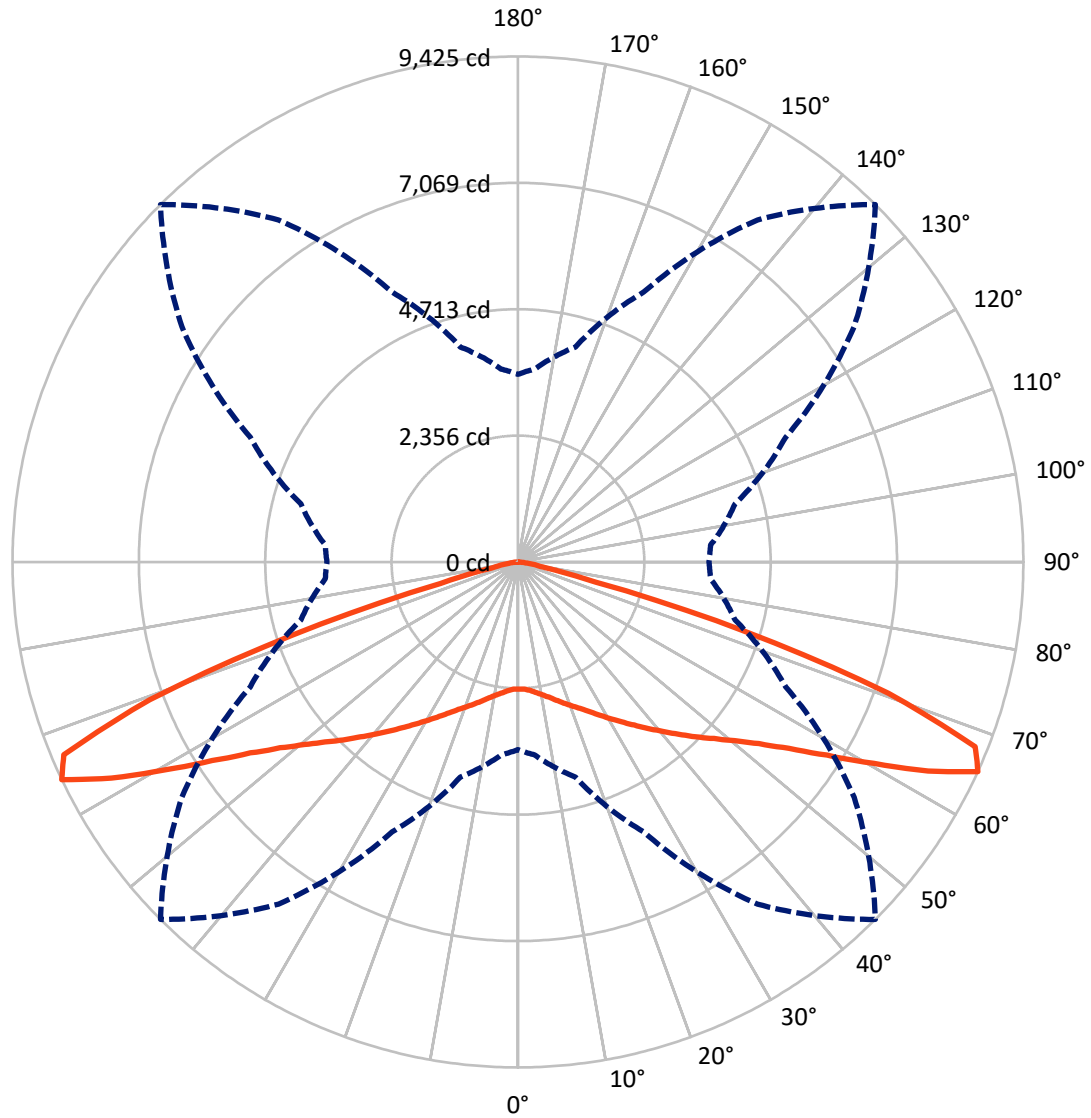
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9965.5   | 0.0    | 9965.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9965.5   | 0.0    | 9965.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 19931.1  | 0.0    | 19931.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 234.1   | 1.2       |
| 10°-20°   | 763.9   | 3.8       |
| 20°-30°   | 1442.3  | 7.2       |
| 30°-40°   | 2361.7  | 11.8      |
| 40°-50°   | 3661.8  | 18.4      |
| 50°-60°   | 5409.2  | 27.1      |
| 60°-70°   | 5149.1  | 25.8      |
| 70°-80°   | 830.9   | 4.2       |
| 80°-90°   | 78.3    | 0.4       |
| 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°    | 19931.1 | 100.0     |
| 0°-180°   | 19931.1 | 100.0     |

**Coefficient of Utilization**



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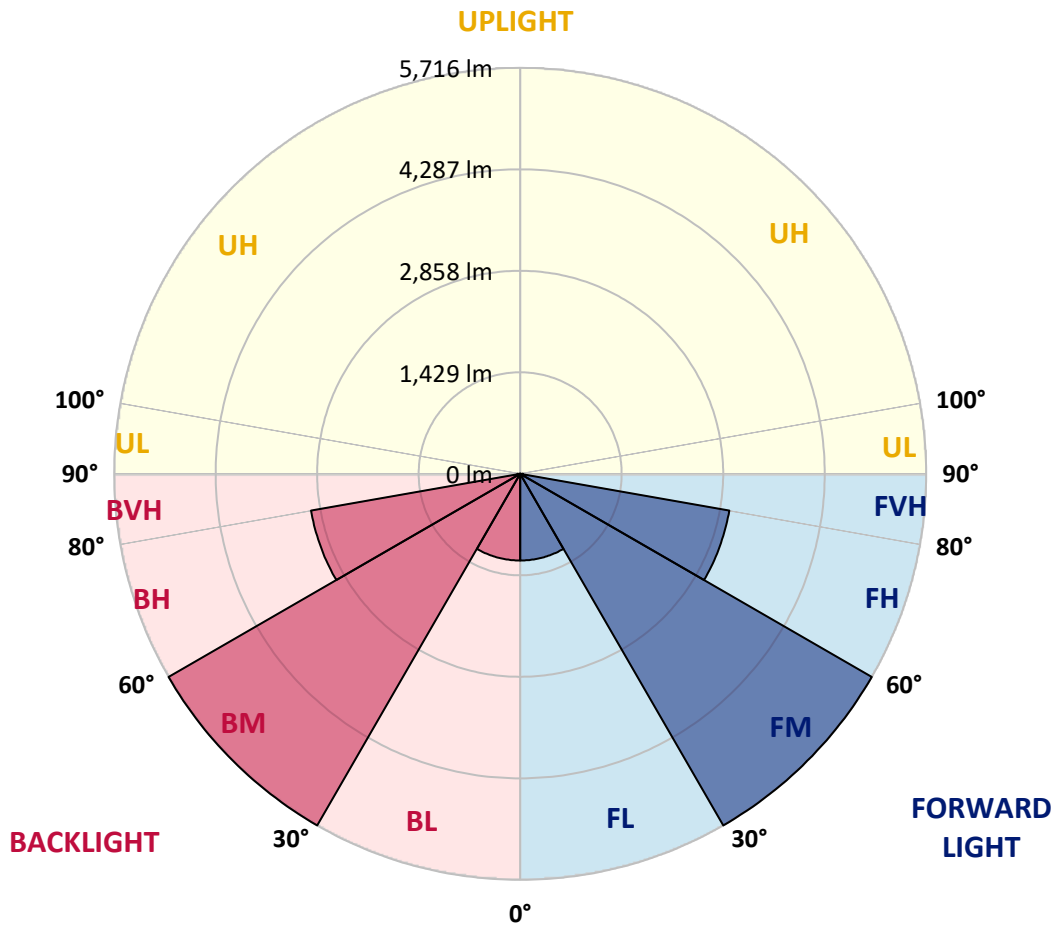
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1220.1 | 6.1       |                         |      |         |
| FM (30°-60°)   | 5716.3 | 28.7      |                         |      |         |
| FH (60°-80°)   | 2990.0 | 15.0      |                         |      | G2/5000 |
| FVH (80°-90°)  | 39.2   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1220.1 | 6.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 5716.3 | 28.7      | B4/8500                 |      |         |
| BH (60°-80°)   | 2990.0 | 15.0      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 39.2   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0°    | 2372 | 2372 | 2372 | 2372 | 2372 | 2372 | 2372 | 2372 | 2372 | 2372 |
| 2.5°  | 2388 | 2380 | 2386 | 2381 | 2377 | 2373 | 2375 | 2382 | 2385 | 2386 |
| 5°    | 2420 | 2413 | 2416 | 2416 | 2409 | 2407 | 2408 | 2413 | 2419 | 2419 |
| 7.5°  | 2472 | 2465 | 2472 | 2468 | 2462 | 2460 | 2459 | 2463 | 2472 | 2472 |
| 10°   | 2535 | 2527 | 2531 | 2529 | 2522 | 2519 | 2518 | 2524 | 2532 | 2531 |
| 12.5° | 2604 | 2595 | 2600 | 2594 | 2592 | 2589 | 2589 | 2588 | 2593 | 2589 |
| 15°   | 2681 | 2675 | 2677 | 2673 | 2676 | 2674 | 2666 | 2662 | 2664 | 2658 |
| 17.5° | 2772 | 2758 | 2765 | 2763 | 2763 | 2767 | 2754 | 2749 | 2753 | 2747 |
| 20°   | 2877 | 2863 | 2866 | 2862 | 2857 | 2861 | 2845 | 2849 | 2852 | 2848 |
| 22.5° | 2992 | 2974 | 2973 | 2975 | 2964 | 2965 | 2954 | 2964 | 2970 | 2959 |
| 25°   | 3110 | 3091 | 3104 | 3099 | 3085 | 3088 | 3080 | 3090 | 3095 | 3081 |
| 27.5° | 3235 | 3222 | 3234 | 3237 | 3220 | 3232 | 3220 | 3229 | 3234 | 3213 |
| 30°   | 3381 | 3368 | 3379 | 3387 | 3367 | 3386 | 3376 | 3382 | 3383 | 3358 |
| 32.5° | 3540 | 3520 | 3548 | 3552 | 3530 | 3553 | 3540 | 3548 | 3553 | 3519 |
| 35°   | 3734 | 3709 | 3741 | 3736 | 3717 | 3736 | 3724 | 3736 | 3748 | 3707 |
| 37.5° | 3943 | 3917 | 3951 | 3942 | 3924 | 3937 | 3930 | 3938 | 3957 | 3913 |
| 40°   | 4173 | 4141 | 4187 | 4171 | 4154 | 4152 | 4156 | 4161 | 4186 | 4137 |
| 42.5° | 4419 | 4385 | 4454 | 4429 | 4405 | 4389 | 4402 | 4412 | 4436 | 4381 |
| 45°   | 4700 | 4661 | 4751 | 4721 | 4683 | 4650 | 4671 | 4686 | 4721 | 4655 |
| 47.5° | 5010 | 4966 | 5062 | 5053 | 4991 | 4919 | 4967 | 5010 | 5036 | 4956 |
| 50°   | 5313 | 5279 | 5405 | 5416 | 5340 | 5239 | 5306 | 5371 | 5378 | 5273 |
| 52.5° | 5597 | 5563 | 5746 | 5815 | 5747 | 5627 | 5698 | 5764 | 5711 | 5575 |
| 55°   | 5824 | 5796 | 6029 | 6207 | 6230 | 6131 | 6173 | 6171 | 5997 | 5788 |
| 57.5° | 5879 | 5875 | 6169 | 6546 | 6786 | 6798 | 6715 | 6503 | 6128 | 5847 |
| 60°   | 5629 | 5654 | 6058 | 6723 | 7363 | 7629 | 7270 | 6665 | 5979 | 5589 |
| 62.5° | 4881 | 4947 | 5434 | 6507 | 7829 | 8585 | 7715 | 6419 | 5367 | 4858 |
| 65°   | 3498 | 3613 | 4151 | 5553 | 7787 | 9425 | 7651 | 5508 | 4191 | 3604 |
| 67.5° | 1587 | 1704 | 2161 | 3802 | 6769 | 9197 | 6753 | 3842 | 2269 | 1710 |
| 70°   | 575  | 595  | 742  | 1522 | 4326 | 7328 | 4511 | 1533 | 789  | 634  |
| 72.5° | 348  | 351  | 382  | 545  | 1503 | 4449 | 1567 | 563  | 390  | 346  |
| 75°   | 221  | 219  | 272  | 333  | 533  | 1501 | 559  | 333  | 271  | 247  |
| 77.5° | 159  | 164  | 195  | 249  | 336  | 509  | 330  | 238  | 195  | 160  |
| 80°   | 119  | 122  | 142  | 194  | 236  | 317  | 210  | 176  | 147  | 100  |
| 82.5° | 86   | 86   | 93   | 141  | 144  | 171  | 114  | 124  | 97   | 71   |
| 85°   | 51   | 50   | 58   | 84   | 75   | 63   | 52   | 76   | 61   | 44   |
| 87.5° | 18   | 19   | 18   | 24   | 20   | 17   | 16   | 21   | 17   | 15   |
| 90°   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

(END C

| 90°  |
|------|
| 2372 |
| 2386 |
| 2419 |
| 2469 |
| 2529 |
| 2591 |
| 2659 |
| 2752 |
| 2857 |
| 2970 |
| 3097 |
| 3229 |
| 3373 |
| 3542 |
| 3732 |
| 3940 |
| 4153 |
| 4410 |
| 4689 |
| 4983 |
| 5286 |
| 5579 |
| 5795 |
| 5829 |
| 5543 |
| 4828 |
| 3561 |
| 1685 |
| 626  |
| 352  |
| 249  |
| 163  |
| 103  |
| 71   |
| 43   |
| 14   |
| 0    |

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