

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: STREETWORKS

Report Number: P316072

Luminaire Tested: **GAN-SA8A-727-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P316072  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32898 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

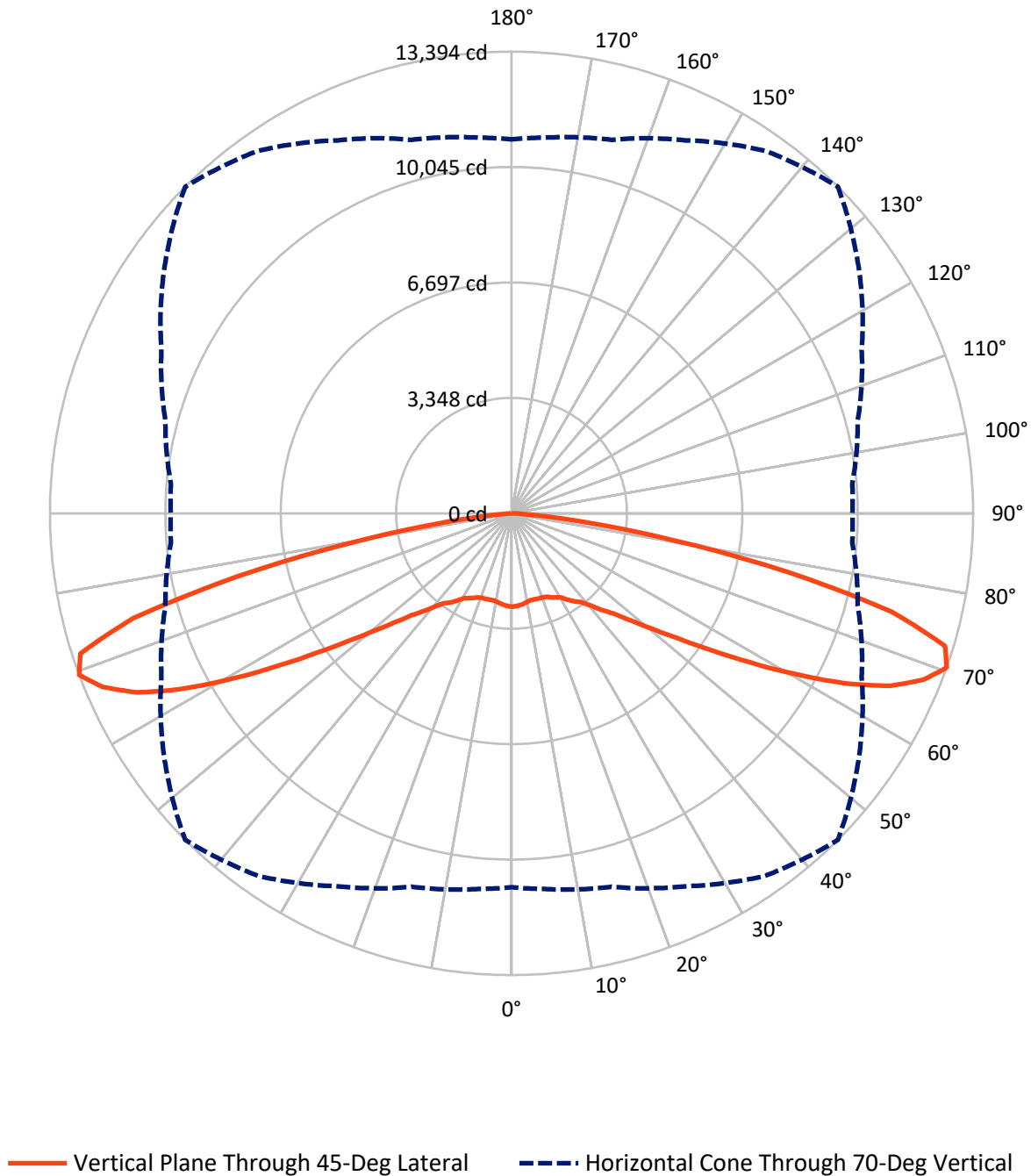
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT





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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16449.0  | 0.0    | 16449.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16449.0  | 0.0    | 16449.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 32898.0  | 0.0    | 32898.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 252.7   | 0.8       |
| 10°-20°   | 738.1   | 2.2       |
| 20°-30°   | 1258.5  | 3.8       |
| 30°-40°   | 1966.5  | 6.0       |
| 40°-50°   | 3332.7  | 10.1      |
| 50°-60°   | 6077.5  | 18.5      |
| 60°-70°   | 10462.8 | 31.8      |
| 70°-80°   | 8201.1  | 24.9      |
| 80°-90°   | 608.1   | 1.8       |
| 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°    | 32898.0 | 100.0     |
| 0°-180°   | 32898.0 | 100.0     |

**Coefficient of Utilization**



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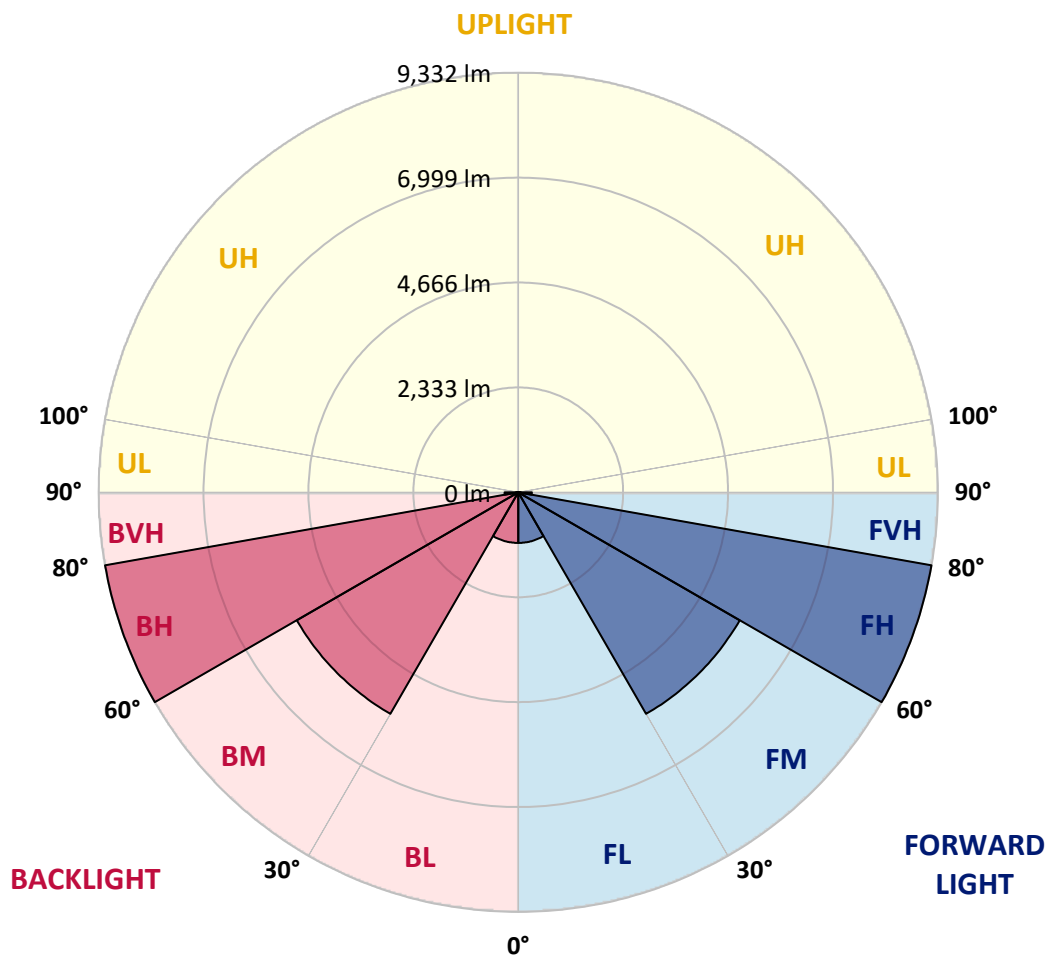
CATALOG NUMBER: GAN-SA8A-727-U-5WQ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1124.7 | 3.4       |                         |      |          |
| FM   | (30°-60°)   | 5688.3 | 17.3      |                         |      |          |
| FH   | (60°-80°)   | 9331.9 | 28.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 304.1  | 0.9       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1124.7 | 3.4       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 5688.3 | 17.3      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 9331.9 | 28.4      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 304.1  | 0.9       |                         |      | G3/500   |
| 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°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2707.5  | 2707.5  | 2707.5  | 2707.5  | 2707.5  | 2707.5  | 2707.5  | 2707.5  | 2707.5  | 2707.5  | 2707.5  |
| 2.5°  | 2695.5  | 2698.8  | 2695.5  | 2697.7  | 2692.3  | 2694.5  | 2694.5  | 2694.5  | 2693.4  | 2694.5  | 2692.3  |
| 5°    | 2671.6  | 2673.8  | 2669.4  | 2671.6  | 2668.3  | 2671.6  | 2672.7  | 2671.6  | 2669.4  | 2670.5  | 2666.2  |
| 7.5°  | 2635.7  | 2637.9  | 2634.6  | 2637.9  | 2633.5  | 2639.0  | 2637.9  | 2634.6  | 2631.3  | 2631.3  | 2627.0  |
| 10°   | 2616.1  | 2617.2  | 2608.5  | 2605.2  | 2595.4  | 2597.6  | 2600.9  | 2604.1  | 2607.4  | 2613.9  | 2612.8  |
| 12.5° | 2617.2  | 2617.2  | 2604.1  | 2590.0  | 2575.8  | 2579.1  | 2584.5  | 2596.5  | 2609.6  | 2621.5  | 2622.6  |
| 15°   | 2628.1  | 2627.0  | 2607.4  | 2584.5  | 2574.7  | 2584.5  | 2587.8  | 2595.4  | 2616.1  | 2636.8  | 2637.9  |
| 17.5° | 2635.7  | 2635.7  | 2605.2  | 2579.1  | 2578.0  | 2593.2  | 2592.2  | 2595.4  | 2618.3  | 2648.7  | 2649.8  |
| 20°   | 2649.8  | 2649.8  | 2610.7  | 2582.4  | 2582.4  | 2598.7  | 2599.8  | 2605.2  | 2628.1  | 2661.8  | 2667.2  |
| 22.5° | 2681.4  | 2682.5  | 2641.1  | 2618.3  | 2620.5  | 2630.2  | 2633.5  | 2642.2  | 2662.9  | 2699.9  | 2706.4  |
| 25°   | 2726.0  | 2728.2  | 2685.7  | 2672.7  | 2680.3  | 2698.8  | 2696.6  | 2703.2  | 2726.0  | 2761.9  | 2768.5  |
| 27.5° | 2788.0  | 2782.6  | 2743.4  | 2738.0  | 2745.6  | 2758.7  | 2757.6  | 2758.7  | 2777.2  | 2809.8  | 2817.4  |
| 30°   | 2868.6  | 2866.4  | 2838.1  | 2841.4  | 2838.1  | 2833.7  | 2834.8  | 2843.5  | 2853.3  | 2879.4  | 2887.1  |
| 32.5° | 2946.9  | 2949.1  | 2931.7  | 2948.0  | 2971.9  | 2988.3  | 2963.2  | 2939.3  | 2928.4  | 2942.6  | 2949.1  |
| 35°   | 3088.4  | 3093.8  | 3066.6  | 3055.7  | 3088.4  | 3136.3  | 3065.5  | 3026.4  | 3048.1  | 3066.6  | 3072.1  |
| 37.5° | 3328.9  | 3332.2  | 3286.4  | 3242.9  | 3219.0  | 3264.7  | 3193.9  | 3197.2  | 3273.4  | 3308.2  | 3307.1  |
| 40°   | 3603.1  | 3604.2  | 3573.7  | 3535.7  | 3494.3  | 3505.2  | 3476.9  | 3485.6  | 3535.7  | 3567.2  | 3575.9  |
| 42.5° | 3929.6  | 3926.3  | 3878.4  | 3824.0  | 3812.1  | 3822.9  | 3775.1  | 3768.5  | 3826.2  | 3882.8  | 3883.9  |
| 45°   | 4352.9  | 4345.3  | 4283.3  | 4223.4  | 4165.7  | 4141.8  | 4129.8  | 4161.4  | 4240.8  | 4293.1  | 4294.1  |
| 47.5° | 4808.9  | 4788.2  | 4755.6  | 4707.7  | 4657.6  | 4633.7  | 4614.1  | 4629.3  | 4687.0  | 4707.7  | 4709.8  |
| 50°   | 5277.9  | 5282.3  | 5288.8  | 5270.3  | 5251.8  | 5244.2  | 5193.0  | 5163.6  | 5181.1  | 5143.0  | 5137.5  |
| 52.5° | 5834.0  | 5842.7  | 5905.8  | 5959.1  | 5990.7  | 6007.0  | 5910.2  | 5809.0  | 5752.4  | 5678.4  | 5656.6  |
| 55°   | 6490.2  | 6504.3  | 6596.8  | 6744.8  | 6897.2  | 6977.7  | 6802.5  | 6613.2  | 6438.0  | 6299.7  | 6255.1  |
| 57.5° | 7221.5  | 7246.5  | 7373.8  | 7657.9  | 7970.2  | 8160.6  | 7864.6  | 7520.7  | 7182.3  | 6983.2  | 6948.3  |
| 60°   | 8079.0  | 8102.9  | 8279.2  | 8686.2  | 9192.3  | 9478.5  | 9030.1  | 8467.5  | 8046.4  | 7855.9  | 7791.7  |
| 62.5° | 9099.8  | 9101.9  | 9318.5  | 9794.0  | 10462.2 | 10860.5 | 10253.3 | 9501.3  | 9067.1  | 8837.5  | 8775.5  |
| 65°   | 10197.8 | 10203.2 | 10427.4 | 10941.0 | 11632.1 | 12065.2 | 11379.6 | 10596.1 | 10065.0 | 9726.6  | 9678.7  |
| 67.5° | 10973.7 | 10996.5 | 11232.7 | 11850.8 | 12497.2 | 12887.9 | 12178.4 | 11292.5 | 10678.8 | 10275.0 | 10234.8 |
| 70°   | 10849.6 | 10938.9 | 11216.4 | 11937.9 | 12836.7 | 13393.9 | 12307.9 | 11209.8 | 10400.2 | 9923.5  | 9889.8  |
| 72.5° | 9462.1  | 9633.0  | 10003.0 | 10949.7 | 12387.3 | 13154.5 | 11601.6 | 10040.0 | 9123.7  | 8717.8  | 8656.8  |
| 75°   | 6443.4  | 6720.9  | 7279.2  | 8644.9  | 10583.0 | 11389.4 | 9766.8  | 8005.0  | 7143.1  | 6581.6  | 6540.2  |
| 77.5° | 2872.9  | 2936.0  | 3643.4  | 5215.9  | 7303.1  | 8179.1  | 7096.3  | 5236.6  | 3930.7  | 3135.2  | 2967.6  |
| 80°   | 800.9   | 810.7   | 1081.7  | 1942.5  | 3655.4  | 4805.6  | 3924.1  | 2040.4  | 1147.0  | 808.6   | 761.8   |
| 82.5° | 254.6   | 276.4   | 337.4   | 503.8   | 1228.6  | 2192.8  | 1261.3  | 544.1   | 387.4   | 309.1   | 278.6   |
| 85°   | 124.1   | 123.0   | 170.9   | 204.6   | 313.4   | 485.3   | 334.1   | 252.5   | 220.9   | 146.9   | 132.8   |
| 87.5° | 52.2    | 53.3    | 79.4    | 71.8    | 91.4    | 78.4    | 107.7   | 113.2   | 118.6   | 65.3    | 56.6    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)