

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: P531349

Luminaire Tested: **GALN-SA6C-827-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531349  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-827-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19806 lumens  
Efficiency: N/A  
Efficacy: 61.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

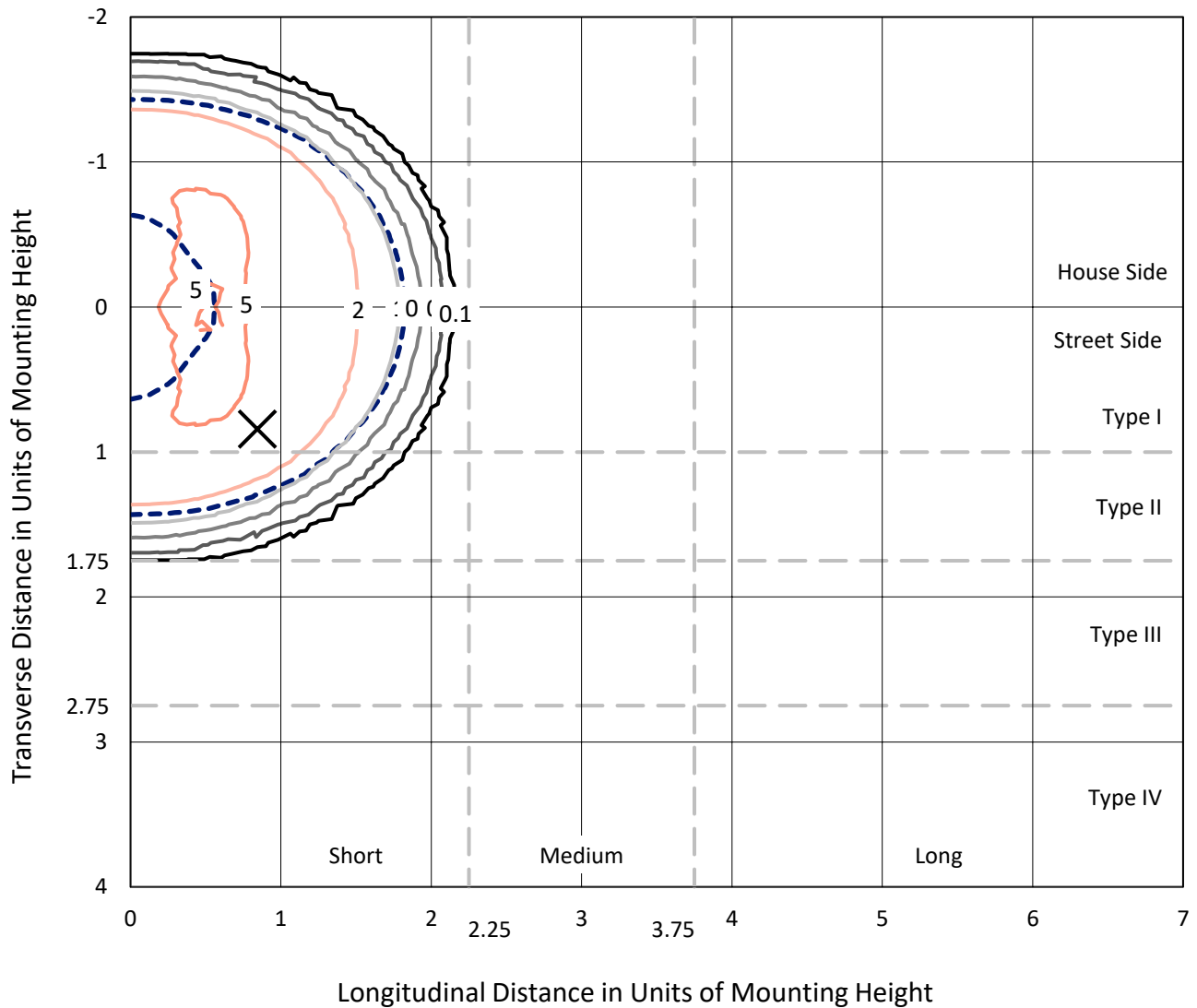
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

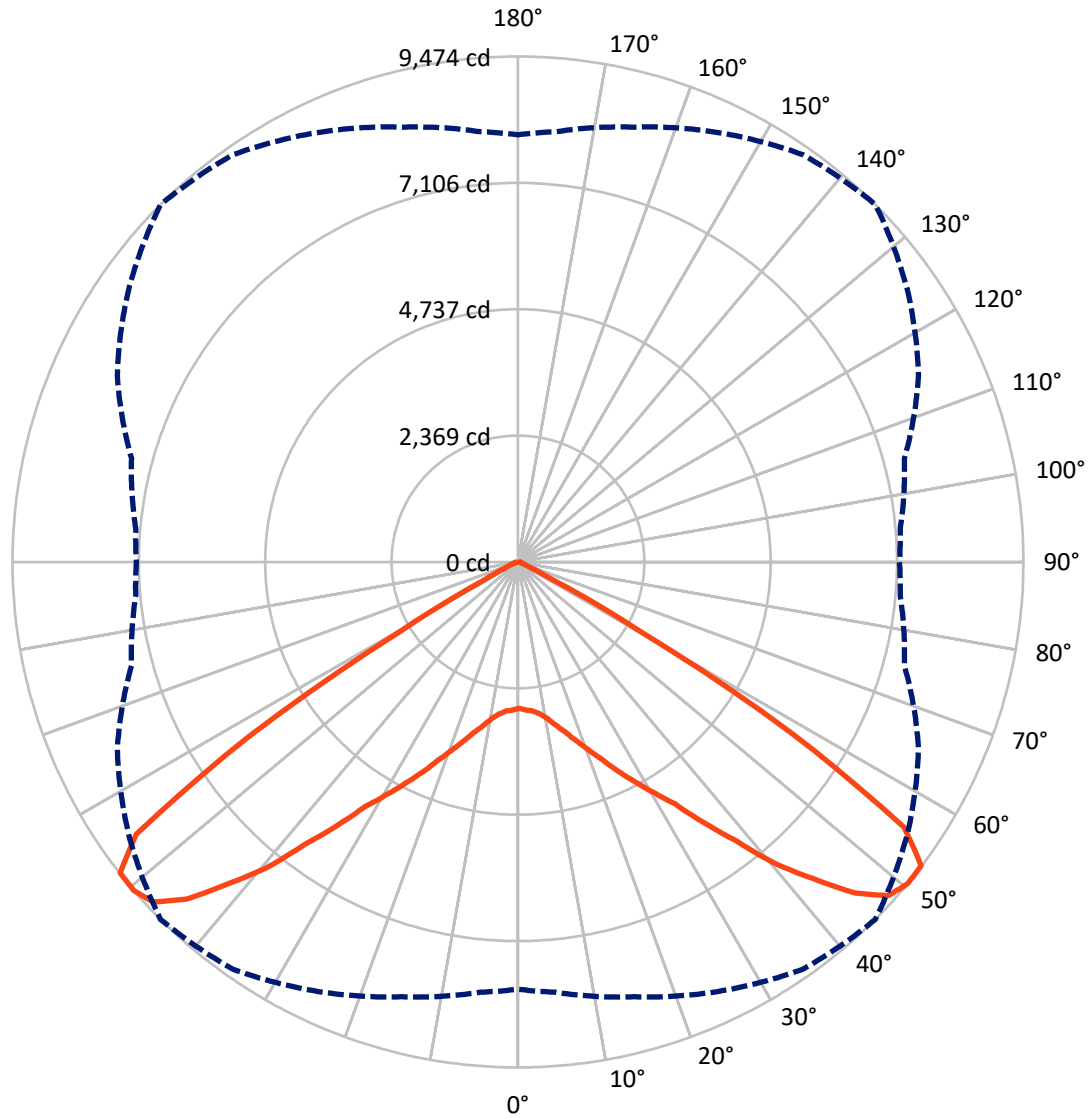
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9903.0   | 0.0    | 9903.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9903.0   | 0.0    | 9903.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 19806.0  | 0.0    | 19806.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 273.2   | 1.4       |
| 10°-20°   | 941.5   | 4.8       |
| 20°-30°   | 1922.9  | 9.7       |
| 30°-40°   | 3667.1  | 18.5      |
| 40°-50°   | 6179.5  | 31.2      |
| 50°-60°   | 5893.3  | 29.8      |
| 60°-70°   | 822.7   | 4.2       |
| 70°-80°   | 78.7    | 0.4       |
| 80°-90°   | 27.2    | 0.1       |
| 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°    | 19806.0 | 100.0     |
| 0°-180°   | 19806.0 | 100.0     |

**Coefficient of Utilization**



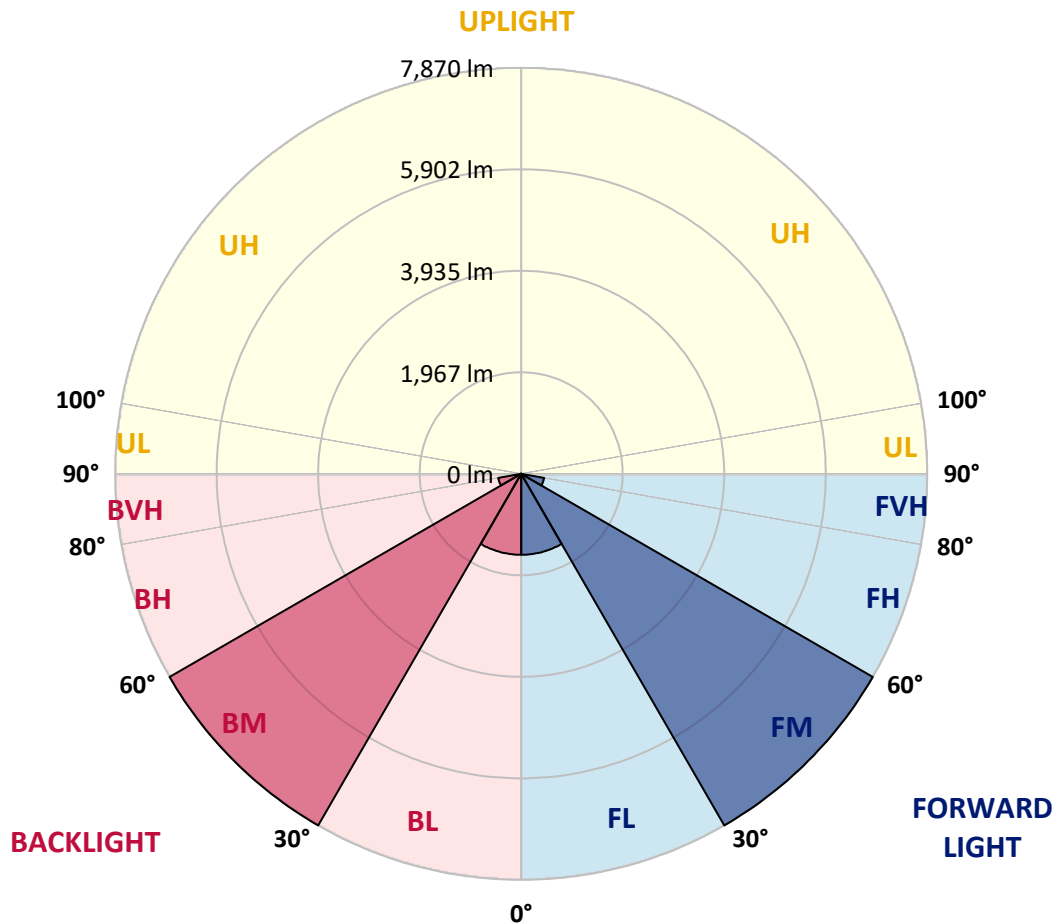
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1568.8 | 7.9       |                         |      |        |
| FM (30°-60°)   | 7869.9 | 39.7      |                         |      |        |
| FH (60°-80°)   | 450.7  | 2.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 13.6   | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 1568.8 | 7.9       | B3/2500                 |      |        |
| BM (30°-60°)   | 7869.9 | 39.7      | B4/8500                 |      |        |
| BH (60°-80°)   | 450.7  | 2.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 13.6   | 0.1       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2745.9 | 2745.9 | 2745.9 | 2745.9 | 2745.9 | 2745.9 | 2745.9 | 2745.9 | 2745.9 | 2745.9 | 2745.9 |
| 2.5°  | 2735.9 | 2735.9 | 2732.6 | 2759.2 | 2745.9 | 2775.9 | 2772.5 | 2782.5 | 2792.5 | 2789.2 | 2815.9 |
| 5°    | 2712.6 | 2709.2 | 2709.2 | 2739.2 | 2769.2 | 2802.5 | 2832.5 | 2852.5 | 2885.8 | 2885.8 | 2919.2 |
| 7.5°  | 2735.9 | 2719.2 | 2742.6 | 2755.9 | 2812.5 | 2869.2 | 2919.2 | 2959.2 | 3035.8 | 3062.5 | 3052.5 |
| 10°   | 2742.6 | 2762.5 | 2779.2 | 2819.2 | 2889.2 | 2975.8 | 3019.1 | 3119.1 | 3205.8 | 3265.7 | 3279.1 |
| 12.5° | 2785.9 | 2815.9 | 2862.5 | 2959.2 | 3022.5 | 3135.8 | 3195.8 | 3292.4 | 3412.4 | 3479.0 | 3525.7 |
| 15°   | 2869.2 | 2879.2 | 2939.2 | 3062.5 | 3199.1 | 3302.4 | 3395.7 | 3465.7 | 3582.3 | 3659.0 | 3662.3 |
| 17.5° | 2975.8 | 3019.1 | 3102.4 | 3219.1 | 3362.4 | 3515.7 | 3589.0 | 3665.6 | 3708.9 | 3812.2 | 3835.6 |
| 20°   | 3189.1 | 3195.8 | 3275.7 | 3429.0 | 3609.0 | 3748.9 | 3802.2 | 3842.2 | 3825.6 | 3932.2 | 3952.2 |
| 22.5° | 3389.0 | 3395.7 | 3495.7 | 3702.3 | 3895.6 | 4015.5 | 4038.8 | 4015.5 | 3965.5 | 4042.2 | 4048.8 |
| 25°   | 3592.3 | 3652.3 | 3725.6 | 3932.2 | 4172.1 | 4332.1 | 4335.4 | 4272.1 | 4168.8 | 4182.1 | 4215.5 |
| 27.5° | 3908.9 | 3952.2 | 4028.9 | 4218.8 | 4482.1 | 4662.0 | 4632.0 | 4555.4 | 4422.1 | 4432.1 | 4422.1 |
| 30°   | 4278.8 | 4318.8 | 4382.1 | 4625.3 | 4818.6 | 5015.2 | 5058.6 | 4985.2 | 4785.3 | 4742.0 | 4792.0 |
| 32.5° | 4725.3 | 4782.0 | 4898.6 | 5121.9 | 5285.2 | 5405.1 | 5435.1 | 5408.5 | 5221.8 | 5205.2 | 5238.5 |
| 35°   | 5268.5 | 5345.1 | 5451.8 | 5648.4 | 5781.7 | 5998.3 | 5998.3 | 5908.3 | 5738.4 | 5758.4 | 5755.0 |
| 37.5° | 5841.7 | 5955.0 | 6121.6 | 6321.5 | 6501.5 | 6618.1 | 6581.5 | 6504.8 | 6334.9 | 6291.5 | 6334.9 |
| 40°   | 6561.5 | 6618.1 | 6828.1 | 7088.0 | 7307.9 | 7441.2 | 7284.6 | 7118.0 | 6711.4 | 6774.7 | 6891.4 |
| 42.5° | 7217.9 | 7307.9 | 7467.9 | 7754.5 | 8004.4 | 8114.4 | 7927.7 | 7597.8 | 7108.0 | 7058.0 | 7144.6 |
| 45°   | 7777.8 | 7874.4 | 8084.4 | 8494.2 | 8757.5 | 8854.1 | 8440.9 | 7907.7 | 7347.9 | 7221.3 | 7257.9 |
| 47.5° | 8151.0 | 8201.0 | 8494.2 | 8884.1 | 9124.1 | 9344.0 | 8750.8 | 8121.0 | 7461.2 | 7221.3 | 7207.9 |
| 50°   | 8007.7 | 8094.4 | 8437.6 | 8880.8 | 9317.3 | 9474.0 | 8907.5 | 8284.3 | 7497.9 | 7191.3 | 7151.3 |
| 52.5° | 7111.3 | 7261.3 | 7644.5 | 8241.0 | 8900.8 | 9460.6 | 9124.1 | 8231.0 | 7484.5 | 7221.3 | 7281.3 |
| 55°   | 4948.6 | 4951.9 | 5418.5 | 6298.2 | 7464.5 | 8784.2 | 8807.5 | 8291.0 | 7571.2 | 7407.9 | 7411.2 |
| 57.5° | 1989.4 | 2089.4 | 2446.0 | 3329.1 | 4405.4 | 6031.6 | 7171.3 | 7691.1 | 7581.2 | 7541.2 | 7644.5 |
| 60°   | 503.2  | 506.5  | 616.5  | 939.7  | 1549.6 | 2585.9 | 3755.6 | 5081.9 | 5851.7 | 6114.9 | 6151.6 |
| 62.5° | 256.6  | 259.9  | 286.6  | 333.2  | 423.2  | 693.1  | 1233.0 | 1956.1 | 2782.5 | 3202.4 | 3312.4 |
| 65°   | 209.9  | 209.9  | 226.6  | 249.9  | 253.3  | 266.6  | 319.9  | 456.5  | 663.1  | 753.1  | 763.1  |
| 67.5° | 160.0  | 160.0  | 173.3  | 186.6  | 193.3  | 189.9  | 183.3  | 189.9  | 229.9  | 219.9  | 213.3  |
| 70°   | 100.0  | 103.3  | 110.0  | 123.3  | 130.0  | 133.3  | 136.6  | 143.3  | 163.3  | 170.0  | 163.3  |
| 72.5° | 60.0   | 60.0   | 63.3   | 73.3   | 83.3   | 90.0   | 100.0  | 106.6  | 116.6  | 133.3  | 130.0  |
| 75°   | 26.7   | 26.7   | 33.3   | 43.3   | 53.3   | 63.3   | 73.3   | 83.3   | 90.0   | 100.0  | 103.3  |
| 77.5° | 6.7    | 10.0   | 16.7   | 30.0   | 40.0   | 53.3   | 66.6   | 76.6   | 83.3   | 83.3   | 80.0   |
| 80°   | 3.3    | 3.3    | 13.3   | 23.3   | 43.3   | 56.7   | 73.3   | 80.0   | 90.0   | 83.3   | 73.3   |
| 82.5° | 3.3    | 3.3    | 13.3   | 23.3   | 40.0   | 56.7   | 76.6   | 86.6   | 93.3   | 83.3   | 70.0   |
| 85°   | 0.0    | 3.3    | 10.0   | 20.0   | 33.3   | 40.0   | 33.3   | 23.3   | 13.3   | 13.3   | 10.0   |
| 87.5° | 0.0    | 0.0    | 3.3    | 3.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)