

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: P939220

Luminaire Tested: **GALN-SB1D-722-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939220  
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-SB1D-722-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8506 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

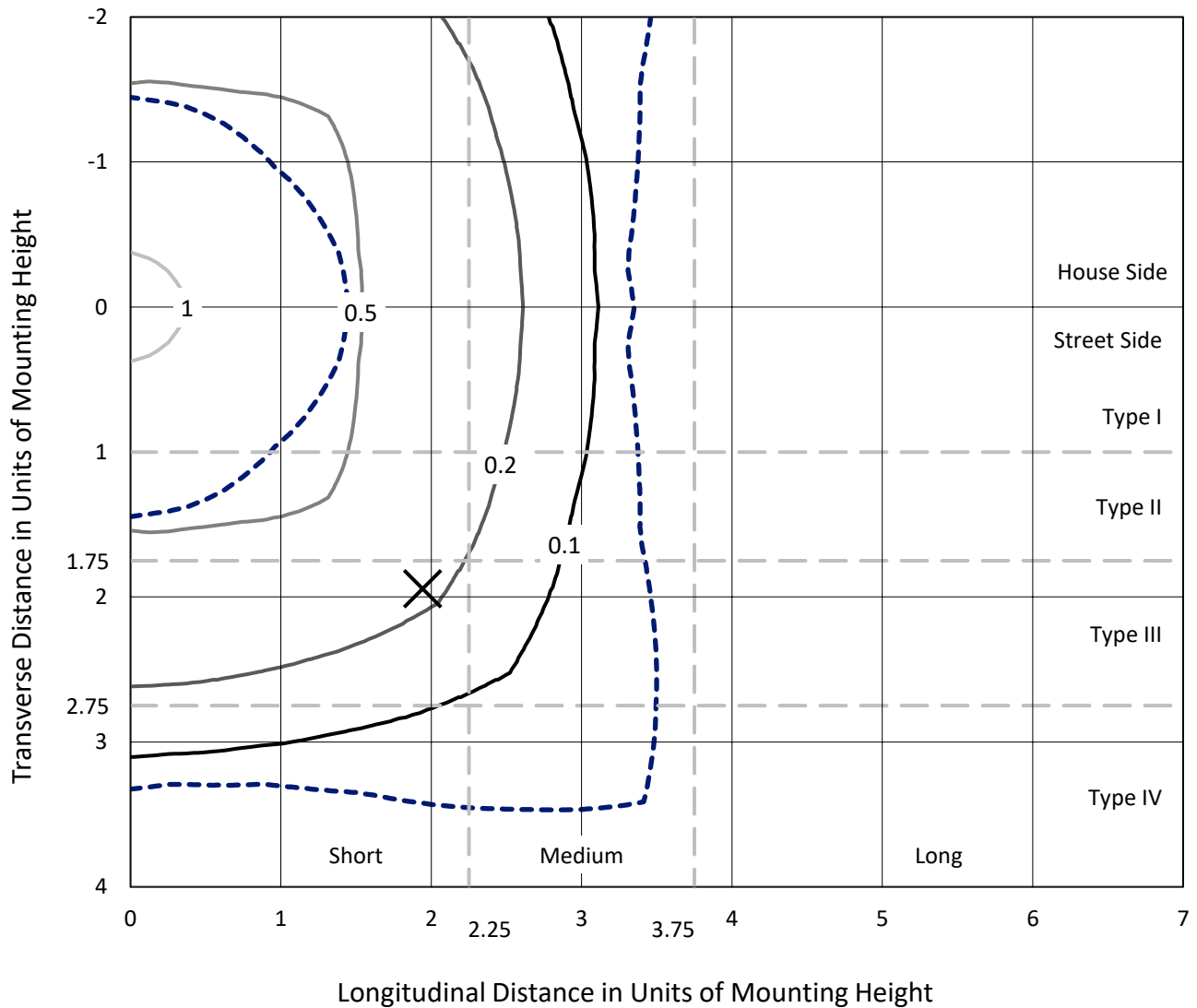
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

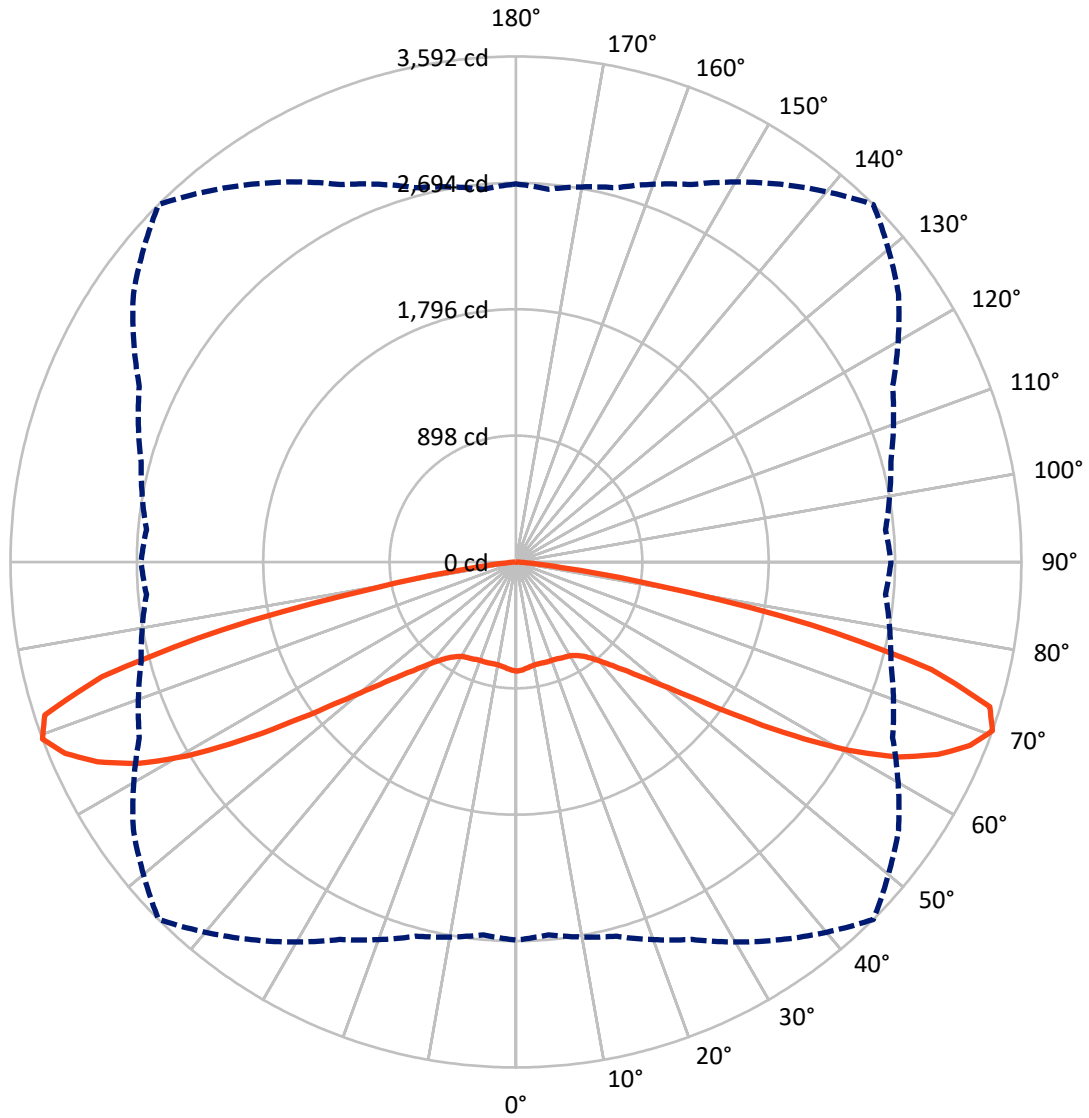
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4253.0   | 0.0    | 4253.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4253.0   | 0.0    | 4253.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8506.0   | 0.0    | 8506.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.2   | 0.8       |
| 10°-20°   | 211.9  | 2.5       |
| 20°-30°   | 352.7  | 4.1       |
| 30°-40°   | 533.4  | 6.3       |
| 40°-50°   | 886.3  | 10.4      |
| 50°-60°   | 1672.5 | 19.7      |
| 60°-70°   | 2824.1 | 33.2      |
| 70°-80°   | 1855.7 | 21.8      |
| 80°-90°   | 97.2   | 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°    | 8506.0 | 100.0     |
| 0°-180°   | 8506.0 | 100.0     |

**Coefficient of Utilization**



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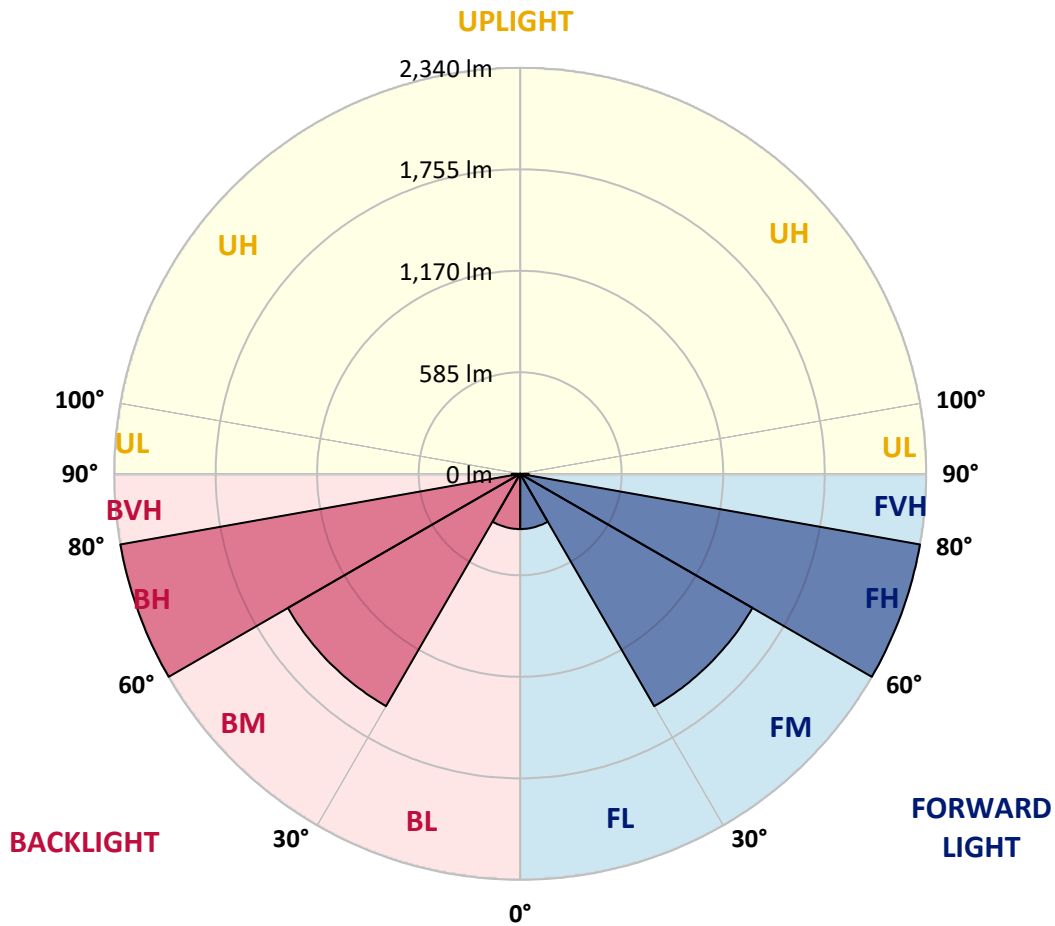
CATALOG NUMBER: GALN-SB1D-722-U-5WQ

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 318.4  | 3.7       |                         |      |         |
| FM (30°-60°)   | 1546.1 | 18.2      |                         |      |         |
| FH (60°-80°)   | 2339.9 | 27.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 48.6   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 318.4  | 3.7       | B1/500                  |      |         |
| BM (30°-60°)   | 1546.1 | 18.2      | B2/2500                 |      |         |
| BH (60°-80°)   | 2339.9 | 27.5      | B3/2500                 |      | G2/5000 |
| BVH (80°-90°)  | 48.6   | 0.6       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 775.9  | 775.9  | 775.9  | 775.9  | 775.9  | 775.9  | 775.9  | 775.9  | 775.9  | 775.9  | 775.9  |
| 2.5°  | 771.1  | 773.3  | 772.4  | 770.6  | 770.6  | 769.3  | 770.6  | 771.5  | 772.8  | 773.7  | 773.3  |
| 5°    | 760.9  | 762.7  | 762.2  | 760.9  | 761.3  | 760.0  | 760.9  | 762.2  | 763.1  | 763.5  | 763.5  |
| 7.5°  | 752.0  | 753.8  | 752.9  | 750.7  | 750.7  | 749.4  | 749.8  | 751.2  | 752.5  | 752.9  | 752.9  |
| 10°   | 749.8  | 751.6  | 748.9  | 745.4  | 744.1  | 742.3  | 742.8  | 744.1  | 746.7  | 748.1  | 748.1  |
| 12.5° | 750.7  | 752.0  | 749.4  | 744.1  | 742.8  | 741.0  | 741.0  | 742.3  | 745.9  | 747.6  | 748.1  |
| 15°   | 753.4  | 754.7  | 750.7  | 745.0  | 743.6  | 742.3  | 741.9  | 743.6  | 747.6  | 750.7  | 751.2  |
| 17.5° | 758.2  | 759.6  | 753.4  | 745.4  | 743.6  | 744.1  | 743.6  | 745.0  | 751.2  | 756.9  | 756.9  |
| 20°   | 762.7  | 763.5  | 755.1  | 745.4  | 743.6  | 744.1  | 743.6  | 746.3  | 754.3  | 762.2  | 762.7  |
| 22.5° | 764.0  | 764.9  | 756.9  | 748.5  | 747.2  | 747.6  | 747.2  | 749.8  | 757.3  | 765.3  | 765.3  |
| 25°   | 764.4  | 765.7  | 759.6  | 752.9  | 755.1  | 756.0  | 755.1  | 755.6  | 761.3  | 768.4  | 768.0  |
| 27.5° | 771.1  | 772.8  | 767.1  | 761.3  | 762.7  | 762.2  | 763.5  | 764.9  | 769.3  | 776.4  | 774.6  |
| 30°   | 784.8  | 786.1  | 781.2  | 775.5  | 774.6  | 771.5  | 775.5  | 779.9  | 784.8  | 791.0  | 789.6  |
| 32.5° | 807.3  | 810.0  | 803.8  | 797.6  | 793.6  | 791.8  | 794.9  | 802.4  | 809.1  | 815.7  | 813.1  |
| 35°   | 844.9  | 846.7  | 840.9  | 829.4  | 822.3  | 822.3  | 825.0  | 834.7  | 845.3  | 853.7  | 850.6  |
| 37.5° | 897.9  | 900.2  | 890.0  | 876.3  | 865.7  | 865.7  | 869.2  | 879.4  | 895.3  | 907.2  | 902.8  |
| 40°   | 962.5  | 965.6  | 952.8  | 938.6  | 928.4  | 926.7  | 931.1  | 942.6  | 957.6  | 972.7  | 967.8  |
| 42.5° | 1040.3 | 1043.8 | 1027.0 | 1014.7 | 1006.7 | 1006.7 | 1008.9 | 1019.5 | 1033.2 | 1051.8 | 1050.5 |
| 45°   | 1139.8 | 1146.0 | 1123.0 | 1110.6 | 1103.1 | 1104.9 | 1106.2 | 1115.5 | 1127.8 | 1149.1 | 1148.2 |
| 47.5° | 1258.3 | 1264.5 | 1240.1 | 1227.3 | 1226.0 | 1234.4 | 1229.1 | 1235.7 | 1242.4 | 1266.7 | 1259.6 |
| 50°   | 1392.7 | 1403.3 | 1386.5 | 1385.6 | 1388.3 | 1403.7 | 1391.3 | 1394.9 | 1387.4 | 1402.8 | 1393.6 |
| 52.5° | 1557.1 | 1572.6 | 1569.5 | 1574.8 | 1604.4 | 1636.3 | 1608.0 | 1595.6 | 1567.3 | 1572.2 | 1555.8 |
| 55°   | 1756.5 | 1780.0 | 1784.4 | 1816.2 | 1883.4 | 1948.4 | 1888.3 | 1838.3 | 1778.2 | 1767.1 | 1749.9 |
| 57.5° | 1983.3 | 2001.9 | 2023.1 | 2088.1 | 2213.7 | 2329.1 | 2213.7 | 2103.2 | 2008.5 | 1986.0 | 1970.1 |
| 60°   | 2227.4 | 2250.4 | 2270.7 | 2366.7 | 2553.2 | 2715.5 | 2549.7 | 2374.2 | 2249.1 | 2218.6 | 2192.0 |
| 62.5° | 2489.6 | 2519.2 | 2533.3 | 2639.9 | 2857.4 | 3051.1 | 2860.5 | 2647.8 | 2509.0 | 2476.3 | 2449.8 |
| 65°   | 2741.1 | 2765.5 | 2781.4 | 2895.0 | 3102.8 | 3296.9 | 3116.9 | 2907.4 | 2764.6 | 2721.7 | 2700.5 |
| 67.5° | 2858.3 | 2871.6 | 2910.5 | 3039.1 | 3258.4 | 3479.9 | 3295.6 | 3052.8 | 2893.2 | 2818.1 | 2818.9 |
| 70°   | 2686.8 | 2659.8 | 2753.5 | 2959.5 | 3277.0 | 3592.2 | 3319.4 | 2953.4 | 2757.9 | 2635.9 | 2665.1 |
| 72.5° | 2076.2 | 2029.8 | 2192.5 | 2544.8 | 3064.8 | 3520.6 | 3086.0 | 2564.7 | 2293.7 | 2046.1 | 2107.6 |
| 75°   | 1129.6 | 1077.0 | 1301.6 | 1747.3 | 2444.0 | 3051.5 | 2500.2 | 1797.2 | 1449.3 | 1121.2 | 1194.2 |
| 77.5° | 318.8  | 298.9  | 480.1  | 845.3  | 1470.0 | 2142.5 | 1526.6 | 863.9  | 569.4  | 337.8  | 375.4  |
| 80°   | 97.7   | 94.6   | 128.2  | 254.7  | 624.3  | 1026.2 | 600.0  | 257.8  | 163.1  | 103.0  | 108.8  |
| 82.5° | 57.9   | 53.1   | 63.7   | 92.8   | 159.2  | 322.3  | 154.7  | 96.8   | 77.8   | 52.2   | 56.6   |
| 85°   | 33.2   | 30.9   | 37.6   | 45.1   | 53.5   | 68.5   | 44.7   | 46.0   | 41.6   | 27.9   | 29.2   |
| 87.5° | 13.7   | 12.4   | 14.6   | 14.1   | 12.4   | 15.9   | 11.9   | 14.1   | 16.8   | 11.1   | 10.2   |
| 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)