

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631743

Luminaire Tested: GWS-SA2B-735-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631743  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-735-U-5MQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

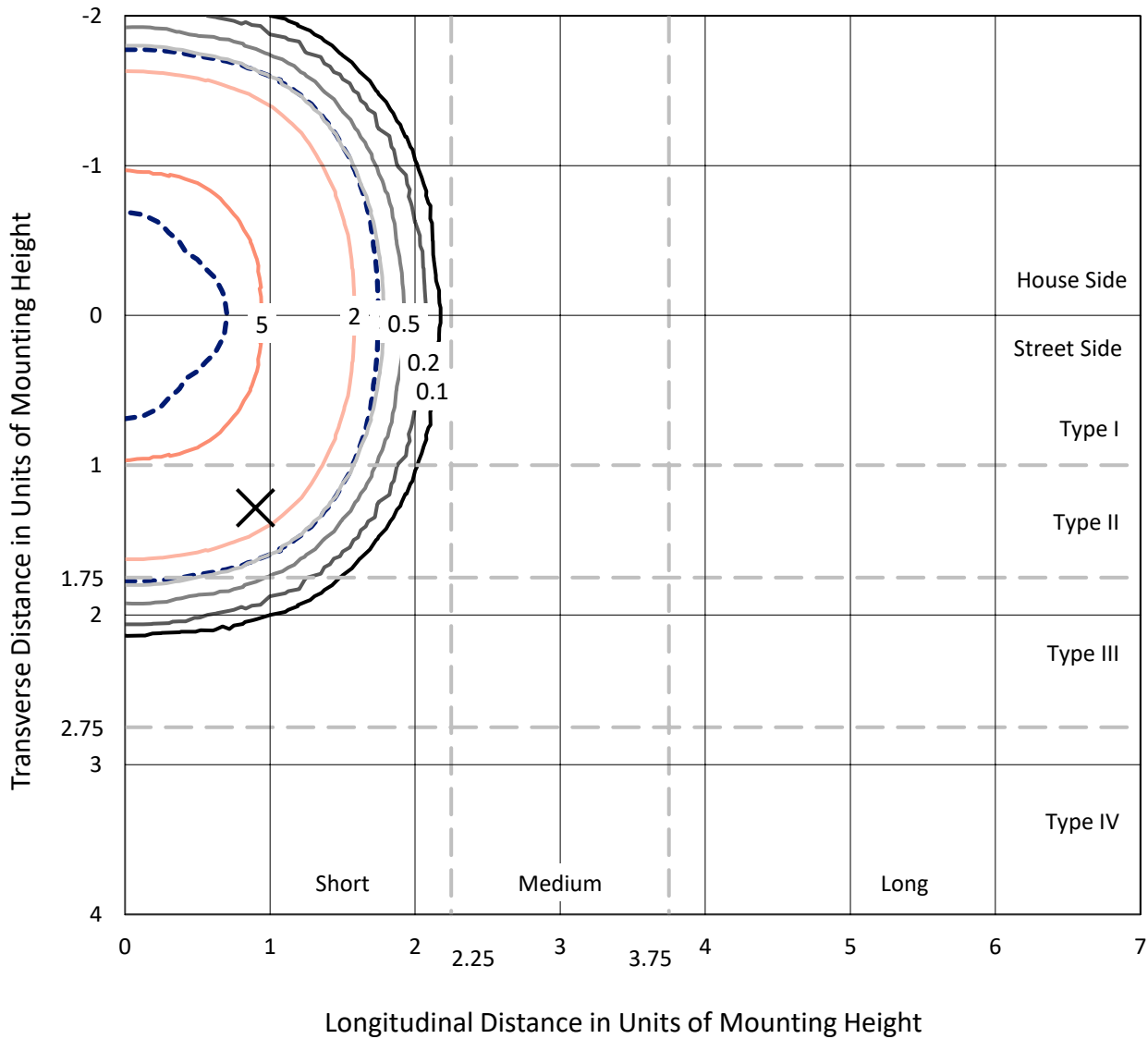
Lumens per Lamp: N/A  
Luminaire Lumens: 4158.8 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

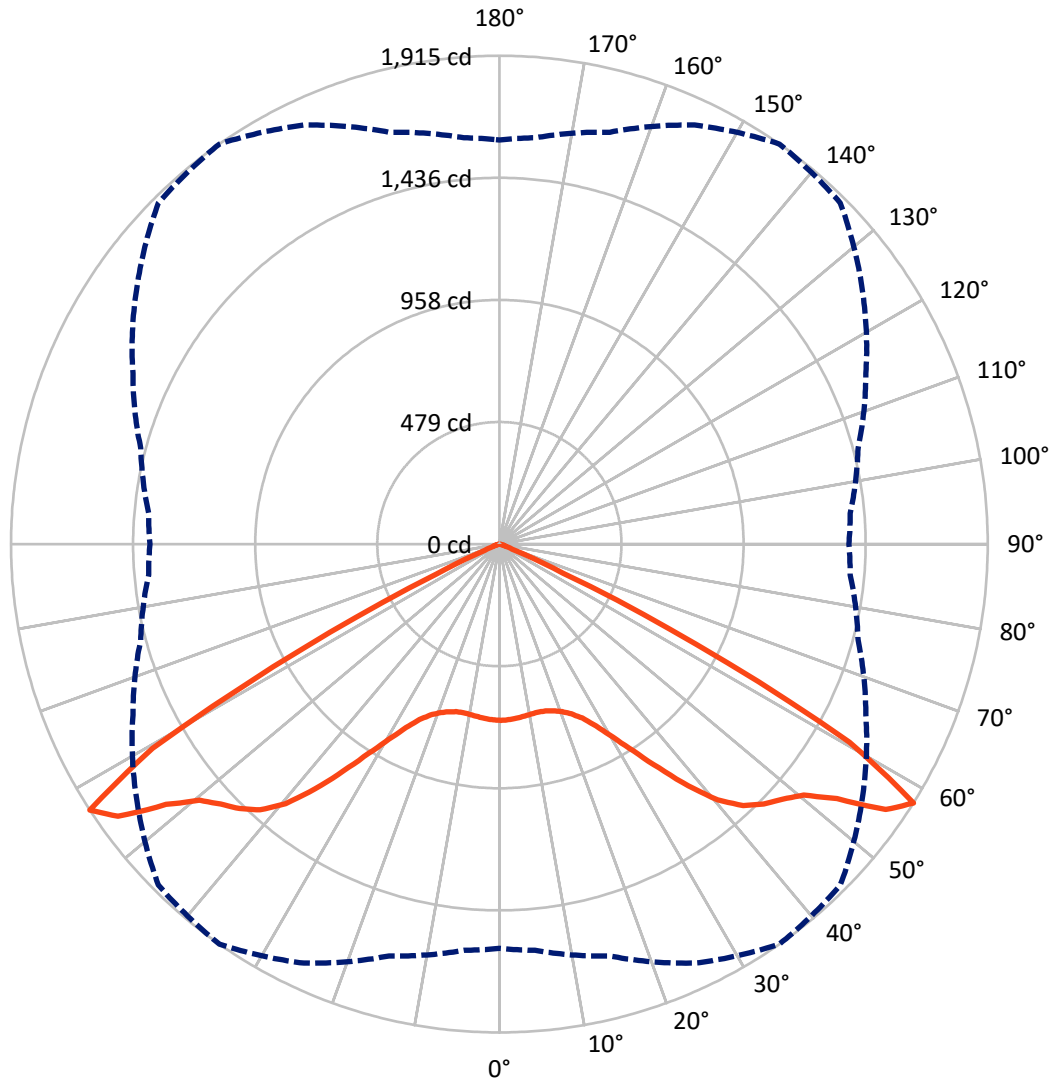
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2079.4   | 0.0    | 2079.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2079.4   | 0.0    | 2079.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4158.8   | 0.0    | 4158.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 65.1   | 1.6       |
| 10°-20°   | 191.6  | 4.6       |
| 20°-30°   | 346.4  | 8.3       |
| 30°-40°   | 646.2  | 15.5      |
| 40°-50°   | 1084.0 | 26.1      |
| 50°-60°   | 1431.5 | 34.4      |
| 60°-70°   | 380.2  | 9.1       |
| 70°-80°   | 13.5   | 0.3       |
| 80°-90°   | 0.2    | 0.0       |
| 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°    | 4158.8 | 100.0     |
| 0°-180°   | 4158.8 | 100.0     |

**Coefficient of Utilization**



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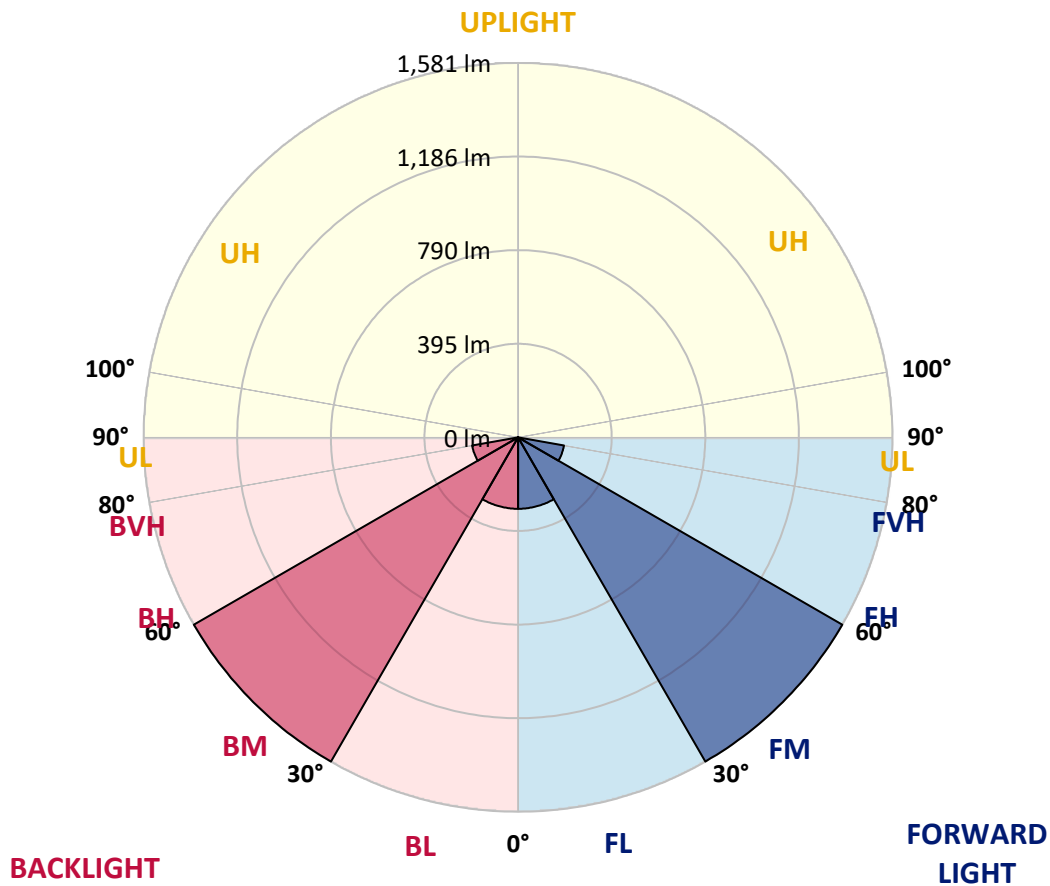
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 301.6  | 7.3       |                         |      |        |
| FM (30°-60°)   | 1580.9 | 38.0      |                         |      |        |
| FH (60°-80°)   | 196.8  | 4.7       |                         |      | G0/660 |
| FVH (80°-90°)  | 0.1    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 301.6  | 7.3       | B1/500                  |      |        |
| BM (30°-60°)   | 1580.9 | 38.0      | B2/2500                 |      |        |
| BH (60°-80°)   | 196.8  | 4.7       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 0.1    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 691.4  | 691.4  | 691.4  | 691.4  | 691.4  | 691.4  | 691.4  | 691.4  | 691.4  | 691.4  | 691.4  |
| 2.5°  | 686.6  | 686.1  | 688.0  | 689.5  | 689.5  | 692.9  | 691.9  | 690.9  | 690.0  | 688.5  | 691.9  |
| 5°    | 685.6  | 685.1  | 686.6  | 687.5  | 686.6  | 689.5  | 687.5  | 685.6  | 684.6  | 682.7  | 686.6  |
| 7.5°  | 681.2  | 681.7  | 682.7  | 683.6  | 682.2  | 684.6  | 682.2  | 679.2  | 676.8  | 674.8  | 678.3  |
| 10°   | 674.4  | 674.8  | 675.8  | 677.8  | 678.3  | 681.7  | 678.3  | 672.9  | 669.5  | 666.6  | 670.0  |
| 12.5° | 670.9  | 671.4  | 672.9  | 675.3  | 675.8  | 680.2  | 675.8  | 668.0  | 663.1  | 659.7  | 663.1  |
| 15°   | 671.9  | 672.9  | 674.8  | 677.8  | 678.8  | 683.1  | 677.3  | 667.0  | 660.2  | 655.8  | 658.7  |
| 17.5° | 675.3  | 676.3  | 679.2  | 684.1  | 687.5  | 691.9  | 684.6  | 671.4  | 662.2  | 655.8  | 658.7  |
| 20°   | 679.7  | 681.2  | 686.1  | 693.9  | 701.2  | 709.0  | 699.7  | 681.7  | 669.5  | 661.7  | 664.1  |
| 22.5° | 691.9  | 693.4  | 700.2  | 710.5  | 722.7  | 732.4  | 721.2  | 698.3  | 681.7  | 671.4  | 673.9  |
| 25°   | 716.8  | 718.3  | 727.1  | 740.2  | 755.8  | 768.5  | 754.4  | 725.6  | 704.1  | 692.4  | 693.4  |
| 27.5° | 755.8  | 757.3  | 767.6  | 786.1  | 807.1  | 825.1  | 804.6  | 771.0  | 746.6  | 732.9  | 732.9  |
| 30°   | 805.1  | 807.1  | 820.7  | 845.6  | 878.3  | 902.2  | 874.4  | 833.4  | 802.2  | 783.7  | 784.2  |
| 32.5° | 868.6  | 866.6  | 886.1  | 920.3  | 966.6  | 998.4  | 957.4  | 907.6  | 869.1  | 843.2  | 845.6  |
| 35°   | 950.1  | 949.6  | 971.5  | 1017.9 | 1078.4 | 1116.5 | 1067.7 | 1003.2 | 956.9  | 930.5  | 931.0  |
| 37.5° | 1055.0 | 1054.5 | 1079.9 | 1130.1 | 1202.8 | 1234.5 | 1179.9 | 1114.5 | 1064.7 | 1039.4 | 1042.3 |
| 40°   | 1177.9 | 1175.0 | 1197.5 | 1245.8 | 1318.5 | 1339.0 | 1279.4 | 1226.7 | 1178.9 | 1162.8 | 1170.6 |
| 42.5° | 1295.0 | 1288.7 | 1301.9 | 1345.8 | 1401.9 | 1404.8 | 1359.9 | 1323.8 | 1291.1 | 1278.5 | 1283.3 |
| 45°   | 1389.2 | 1384.3 | 1396.5 | 1421.9 | 1454.1 | 1439.5 | 1418.0 | 1406.8 | 1380.4 | 1366.8 | 1371.2 |
| 47.5° | 1459.5 | 1459.5 | 1474.1 | 1489.7 | 1494.6 | 1467.8 | 1471.2 | 1471.2 | 1444.8 | 1423.4 | 1418.0 |
| 50°   | 1520.0 | 1524.4 | 1546.3 | 1562.4 | 1546.3 | 1512.2 | 1531.7 | 1527.8 | 1474.1 | 1431.2 | 1420.0 |
| 52.5° | 1616.6 | 1621.0 | 1654.7 | 1676.6 | 1658.6 | 1624.9 | 1627.3 | 1578.5 | 1499.5 | 1448.8 | 1431.2 |
| 55°   | 1719.1 | 1729.8 | 1778.6 | 1837.2 | 1837.7 | 1803.0 | 1738.6 | 1652.2 | 1556.1 | 1501.0 | 1482.9 |
| 57.5° | 1584.9 | 1599.5 | 1672.2 | 1813.3 | 1915.2 | 1891.3 | 1737.6 | 1585.9 | 1456.1 | 1380.9 | 1370.7 |
| 60°   | 1090.6 | 1116.0 | 1188.7 | 1381.4 | 1578.1 | 1587.3 | 1405.8 | 1235.5 | 1086.7 | 994.0  | 995.9  |
| 62.5° | 460.6  | 486.5  | 527.5  | 686.1  | 866.6  | 877.8  | 790.0  | 668.0  | 546.5  | 479.7  | 489.9  |
| 65°   | 108.3  | 115.6  | 127.8  | 189.8  | 275.2  | 287.9  | 265.4  | 206.9  | 152.7  | 129.3  | 131.7  |
| 67.5° | 47.3   | 48.3   | 45.9   | 48.8   | 60.5   | 62.0   | 60.0   | 52.7   | 49.8   | 50.7   | 50.7   |
| 70°   | 33.2   | 33.7   | 31.7   | 30.3   | 28.8   | 26.8   | 27.8   | 30.7   | 33.2   | 35.1   | 34.6   |
| 72.5° | 20.5   | 21.0   | 21.5   | 21.5   | 20.0   | 18.1   | 19.0   | 21.0   | 21.5   | 22.0   | 21.5   |
| 75°   | 10.2   | 10.7   | 11.7   | 12.2   | 11.7   | 11.2   | 11.2   | 11.7   | 11.7   | 11.2   | 11.2   |
| 77.5° | 2.0    | 2.4    | 3.4    | 3.9    | 3.9    | 3.9    | 3.9    | 3.9    | 4.4    | 3.9    | 3.9    |
| 80°   | 0.5    | 0.5    | 1.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    | 1.0    | 1.0    |
| 82.5° | 0.5    | 0.5    | 0.5    | 0.5    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.5    | 0.5    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    |
| 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)