

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: P632574

Luminaire Tested: GWS-SA2D-722-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-722-U-5WQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4526.1 lumens  
Efficiency: N/A  
Efficacy: 55.1 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): 82.1  
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

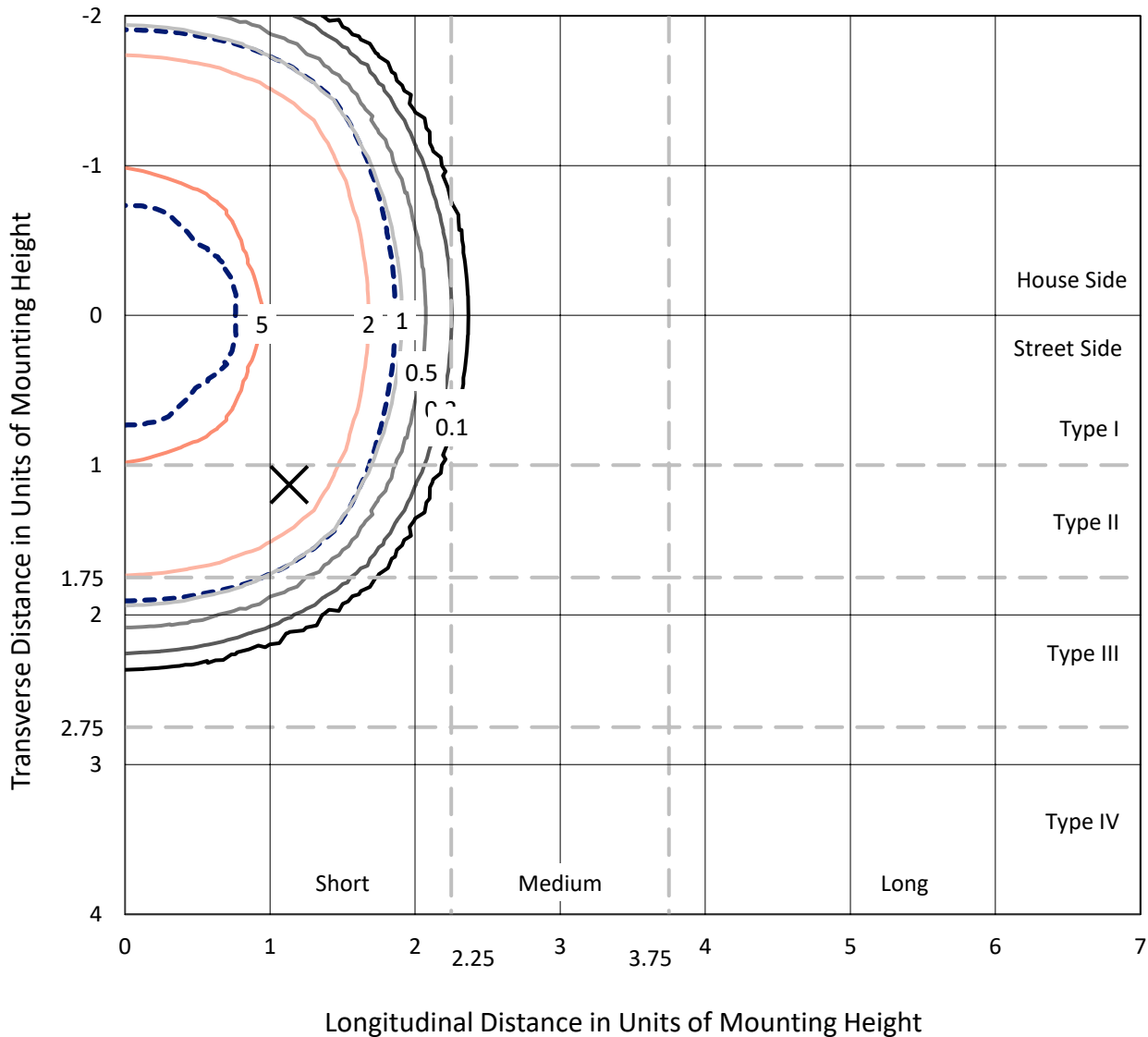


REPORT NUMBER: P632574

CATALOG NUMBER: GWS-SA2D-722-U-5WQ-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

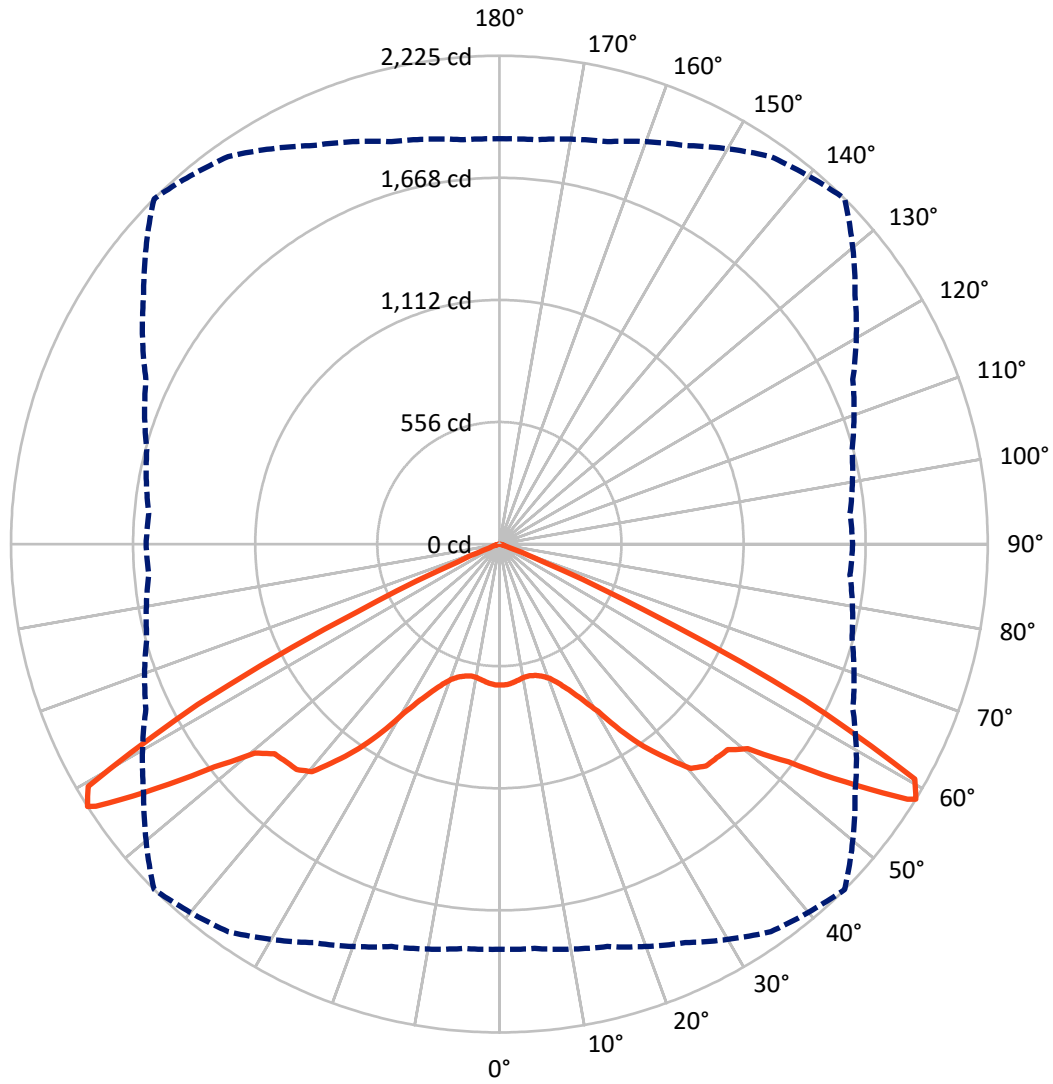
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
 Type V - Short - N/A

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CATALOG NUMBER: GWS-SA2D-722-U-5WQ-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2263.0   | 0.0    | 2263.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2263.0   | 0.0    | 2263.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4526.1   | 0.0    | 4526.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.9   | 1.3       |
| 10°-20°   | 177.2  | 3.9       |
| 20°-30°   | 335.1  | 7.4       |
| 30°-40°   | 661.0  | 14.6      |
| 40°-50°   | 1046.0 | 23.1      |
| 50°-60°   | 1537.5 | 34.0      |
| 60°-70°   | 686.3  | 15.2      |
| 70°-80°   | 23.0   | 0.5       |
| 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°    | 4526.1 | 100.0     |
| 0°-180°   | 4526.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P632574

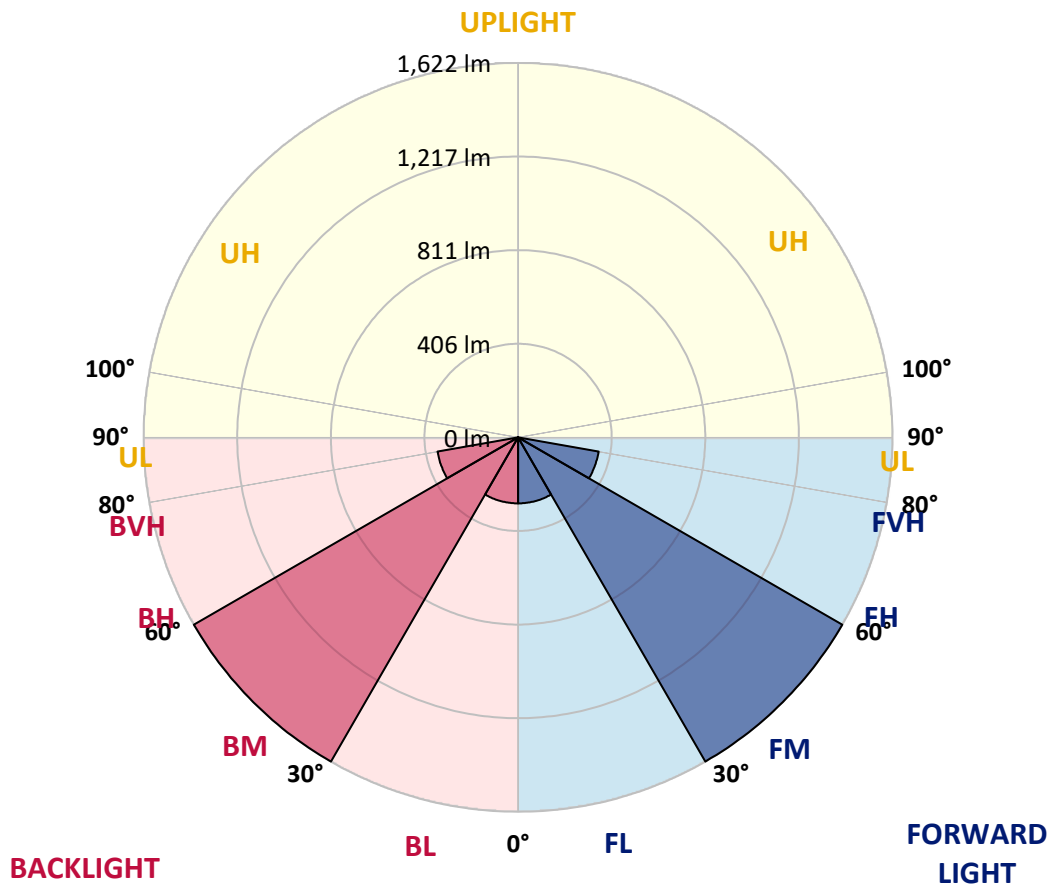
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 286.1  | 6.3       |                         |      |        |
| FM (30°-60°)   | 1622.2 | 35.8      |                         |      |        |
| FH (60°-80°)   | 354.6  | 7.8       |                         |      | G0/660 |
| FVH (80°-90°)  | 0.1    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 286.1  | 6.3       | B1/500                  |      |        |
| BM (30°-60°)   | 1622.2 | 35.8      | B2/2500                 |      |        |
| BH (60°-80°)   | 354.6  | 7.8       | 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°    | 641.9  | 641.9  | 641.9  | 641.9  | 641.9  | 641.9  | 641.9  | 641.9  | 641.9  | 641.9  | 641.9  |
| 2.5°  | 635.7  | 636.9  | 638.2  | 638.8  | 639.4  | 641.2  | 641.9  | 640.0  | 640.0  | 636.3  | 640.6  |
| 5°    | 632.6  | 633.8  | 635.1  | 634.5  | 634.5  | 634.5  | 633.8  | 631.4  | 630.8  | 627.1  | 631.4  |
| 7.5°  | 627.1  | 628.3  | 628.3  | 626.4  | 625.2  | 625.2  | 624.6  | 621.5  | 620.9  | 617.2  | 621.5  |
| 10°   | 622.7  | 623.4  | 622.7  | 619.0  | 616.6  | 616.6  | 616.0  | 614.7  | 615.3  | 612.9  | 616.6  |
| 12.5° | 625.2  | 625.8  | 623.4  | 618.4  | 615.3  | 614.7  | 612.9  | 611.0  | 612.9  | 612.3  | 616.0  |
| 15°   | 633.2  | 633.8  | 629.5  | 623.4  | 620.9  | 620.9  | 616.0  | 611.0  | 613.5  | 614.1  | 618.4  |
| 17.5° | 643.1  | 643.1  | 637.5  | 632.0  | 632.6  | 632.6  | 624.6  | 616.0  | 616.6  | 619.0  | 623.4  |
| 20°   | 654.8  | 654.8  | 649.3  | 648.0  | 652.3  | 653.0  | 643.1  | 629.5  | 626.4  | 628.3  | 633.2  |
| 22.5° | 675.8  | 675.8  | 671.5  | 674.5  | 684.4  | 687.5  | 672.7  | 653.6  | 646.2  | 647.4  | 652.3  |
| 25°   | 708.5  | 708.5  | 707.2  | 714.6  | 728.8  | 735.6  | 715.9  | 690.6  | 678.2  | 676.4  | 681.9  |
| 27.5° | 763.3  | 763.9  | 762.1  | 773.2  | 791.1  | 799.1  | 772.0  | 738.7  | 723.9  | 720.8  | 726.3  |
| 30°   | 834.2  | 834.2  | 834.9  | 850.3  | 873.7  | 884.2  | 848.4  | 809.6  | 792.3  | 782.4  | 789.8  |
| 32.5° | 913.2  | 914.4  | 920.6  | 946.5  | 987.8  | 1009.3 | 956.9  | 902.7  | 874.9  | 864.4  | 872.5  |
| 35°   | 1043.3 | 1031.5 | 1024.1 | 1043.3 | 1103.1 | 1131.4 | 1064.2 | 1000.7 | 979.7  | 978.5  | 998.9  |
| 37.5° | 1172.1 | 1165.3 | 1149.9 | 1169.7 | 1223.3 | 1236.2 | 1162.3 | 1109.2 | 1094.4 | 1102.4 | 1122.8 |
| 40°   | 1274.5 | 1262.1 | 1241.8 | 1260.3 | 1330.6 | 1343.5 | 1252.3 | 1199.9 | 1194.3 | 1212.2 | 1239.9 |
| 42.5° | 1355.2 | 1338.0 | 1310.9 | 1315.2 | 1371.9 | 1381.1 | 1300.4 | 1260.9 | 1264.6 | 1286.8 | 1318.3 |
| 45°   | 1391.6 | 1378.1 | 1354.0 | 1352.2 | 1387.9 | 1388.5 | 1325.0 | 1304.7 | 1314.6 | 1331.8 | 1356.5 |
| 47.5° | 1407.0 | 1400.9 | 1387.3 | 1384.2 | 1404.6 | 1399.6 | 1360.2 | 1351.5 | 1360.8 | 1365.7 | 1379.9 |
| 50°   | 1445.3 | 1445.3 | 1447.1 | 1449.6 | 1470.5 | 1465.6 | 1437.9 | 1428.0 | 1416.3 | 1399.0 | 1403.3 |
| 52.5° | 1552.6 | 1556.9 | 1574.7 | 1594.5 | 1632.7 | 1648.7 | 1603.7 | 1546.4 | 1490.3 | 1452.7 | 1452.7 |
| 55°   | 1746.2 | 1750.5 | 1771.4 | 1804.7 | 1875.0 | 1913.3 | 1808.4 | 1682.0 | 1605.0 | 1553.8 | 1560.6 |
| 57.5° | 1852.8 | 1857.8 | 1900.9 | 1990.9 | 2127.2 | 2191.9 | 1966.9 | 1779.5 | 1671.6 | 1613.0 | 1617.9 |
| 58°   | 1846.0 | 1849.1 | 1897.8 | 2003.3 | 2155.0 | 2224.6 | 1978.0 | 1776.4 | 1662.9 | 1603.1 | 1609.3 |
| 60°   | 1640.1 | 1635.8 | 1713.5 | 1863.9 | 2077.9 | 2174.1 | 1867.6 | 1621.6 | 1489.7 | 1428.6 | 1431.7 |
| 62.5° | 1072.2 | 1074.7 | 1141.9 | 1299.1 | 1465.6 | 1556.3 | 1304.7 | 1121.6 | 1015.5 | 978.5  | 969.3  |
| 65°   | 447.6  | 439.6  | 480.9  | 568.5  | 668.4  | 718.9  | 617.8  | 522.9  | 457.5  | 432.8  | 439.6  |
| 67.5° | 115.3  | 112.2  | 114.7  | 143.7  | 175.7  | 207.8  | 174.5  | 133.2  | 115.9  | 117.2  | 117.2  |
| 70°   | 65.4   | 61.7   | 49.9   | 46.2   | 45.0   | 45.0   | 45.0   | 45.0   | 51.8   | 61.0   | 62.9   |
| 72.5° | 49.3   | 46.2   | 36.4   | 31.4   | 27.7   | 25.9   | 27.1   | 31.4   | 37.6   | 45.6   | 46.9   |
| 75°   | 24.7   | 24.7   | 22.2   | 21.0   | 18.5   | 17.3   | 17.9   | 19.7   | 22.8   | 25.9   | 25.3   |
| 77.5° | 4.9    | 5.5    | 6.2    | 7.4    | 6.2    | 6.2    | 6.2    | 7.4    | 7.4    | 8.0    | 7.4    |
| 80°   | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    | 0.6    |
| 82.5° | 0.0    | 0.6    | 0.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    | 0.6    | 0.6    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.6    | 0.6    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 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)