

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: P631091

Luminaire Tested: GWS-SA1F-722-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-722-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6291.4 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

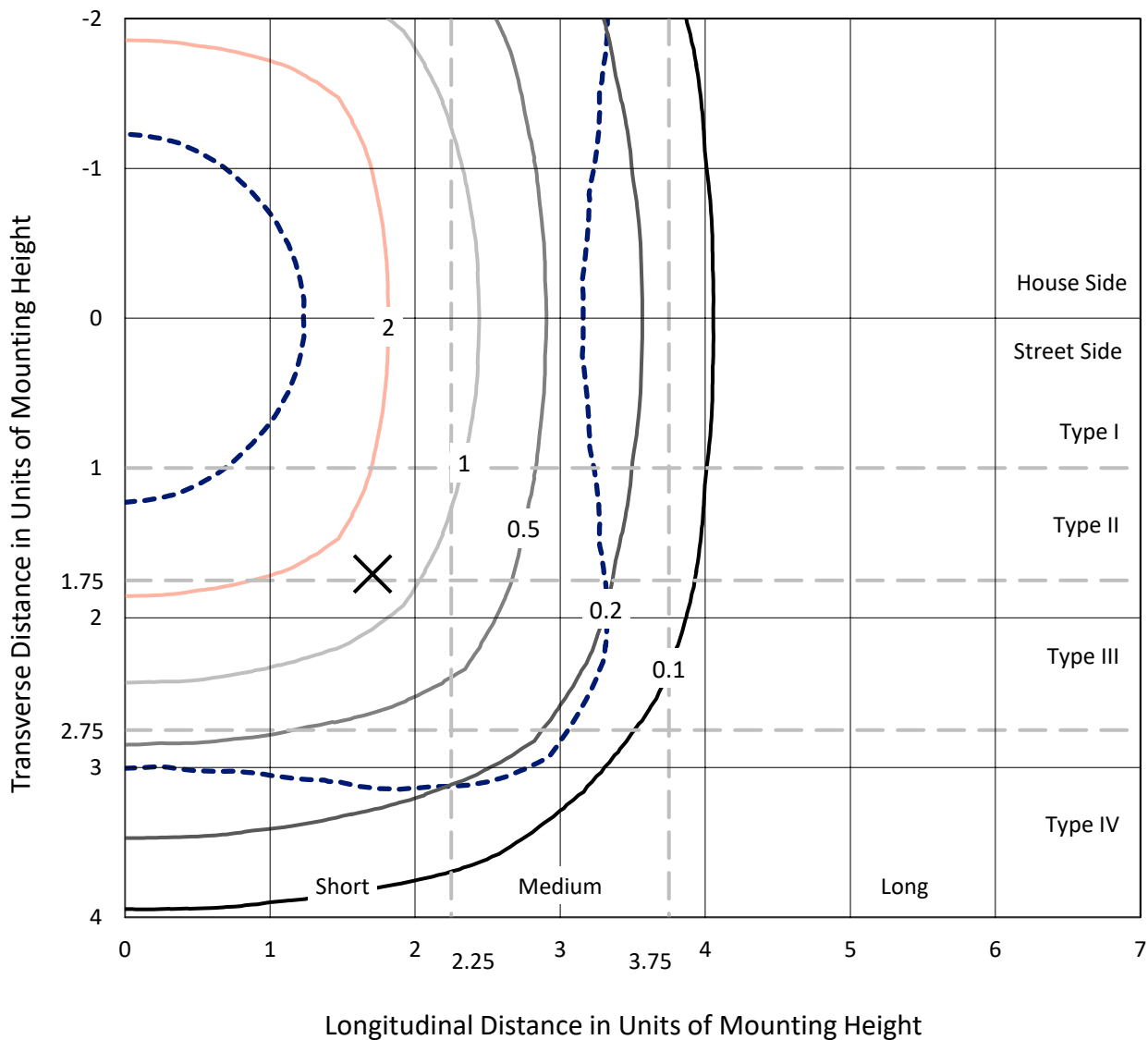
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

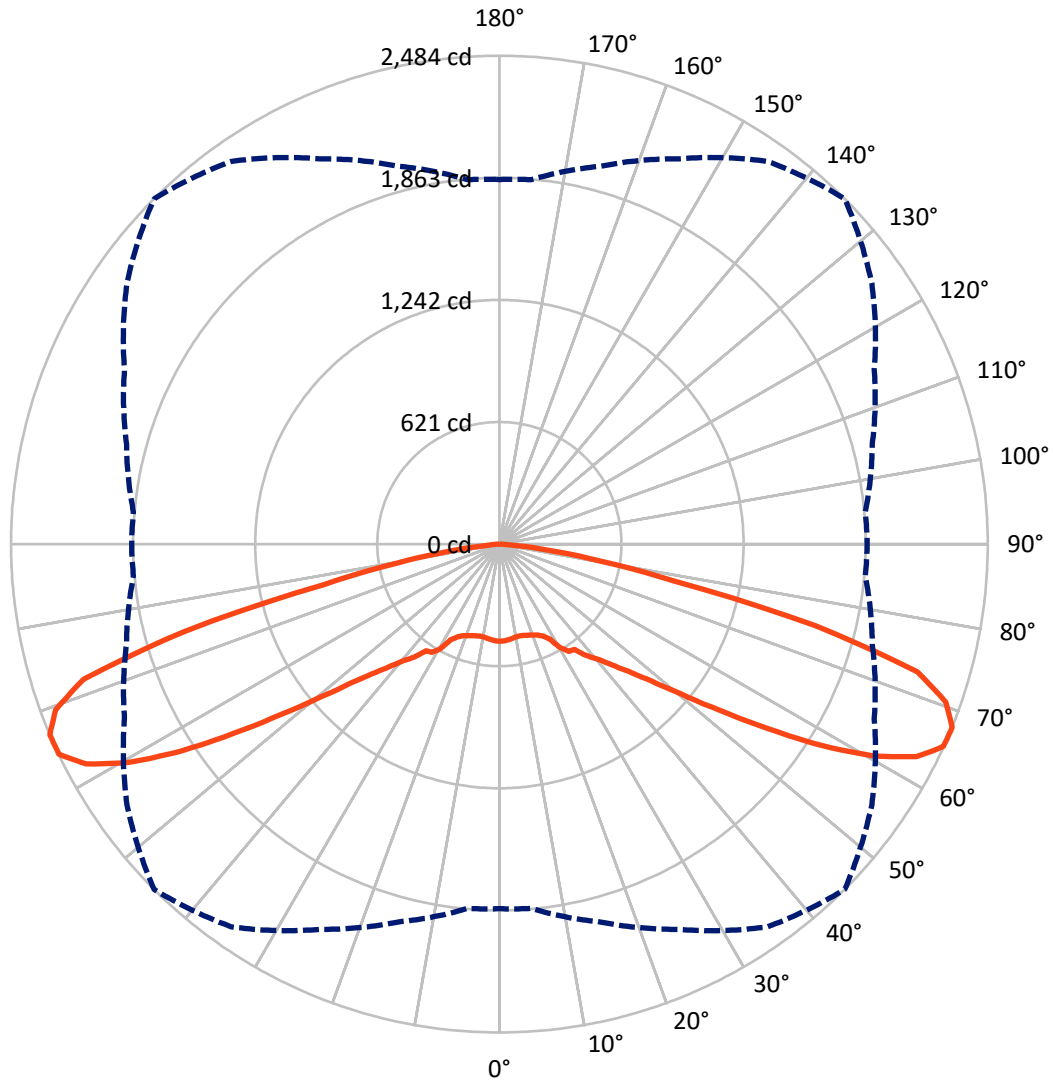
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3145.7 | 0.0 | 3145.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3145.7 | 0.0 | 3145.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6291.4 | 0.0 | 6291.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.3 | 0.7 |
| 10°-20° | 137.5 | 2.2 |
| 20°-30° | 246.6 | 3.9 |
| 30°-40° | 416.6 | 6.6 |
| 40°-50° | 731.9 | 11.6 |
| 50°-60° | 1411.9 | 22.4 |
| 60°-70° | 2048.5 | 32.6 |
| 70°-80° | 1172.1 | 18.6 |
| 80°-90° | 80.0 | 1.3 |
| 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° | 6291.4 | 100.0 |
| 0°-180° | 6291.4 | 100.0 |

Coefficient of Utilization



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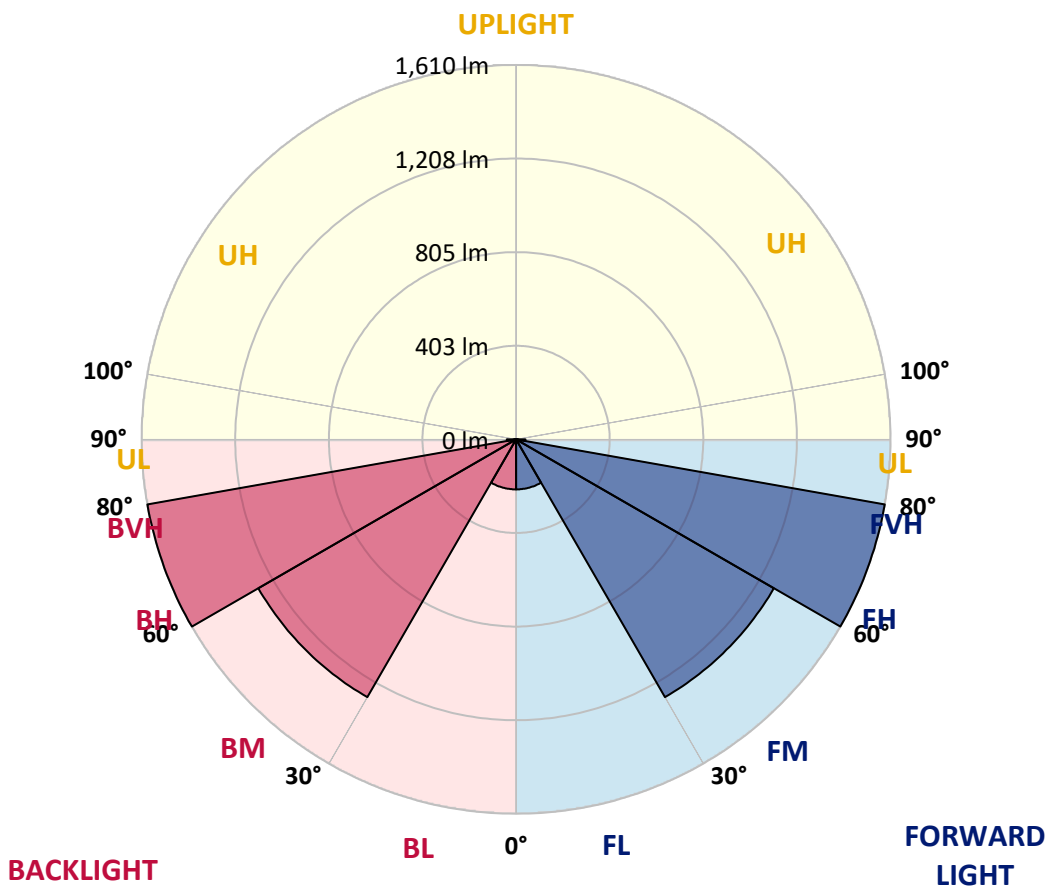
CATALOG NUMBER: GWS-SA1F-722-U-5WQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 215.2 | 3.4 | | | |
| FM (30°-60°) | 1280.2 | 20.3 | | | |
| FH (60°-80°) | 1610.3 | 25.6 | | | G1/1800 |
| FVH (80°-90°) | 40.0 | 0.6 | | | G1/100 |
| BL (0°-30°) | 215.2 | 3.4 | B1/500 | | |
| BM (30°-60°) | 1280.2 | 20.3 | B2/2500 | | |
| BH (60°-80°) | 1610.3 | 25.6 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 40.0 | 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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 493.4 | 493.4 | 493.4 | 493.4 | 493.4 | 493.4 | 493.4 | 493.4 | 493.4 | 493.4 | 493.4 |
| 2.5° | 489.4 | 489.8 | 490.7 | 490.7 | 491.6 | 492.9 | 493.4 | 492.5 | 492.9 | 490.7 | 492.9 |
| 5° | 488.0 | 488.5 | 488.9 | 488.0 | 488.0 | 488.5 | 488.5 | 487.6 | 488.0 | 485.8 | 488.0 |
| 7.5° | 484.9 | 485.4 | 485.4 | 484.0 | 482.7 | 483.6 | 483.6 | 482.7 | 483.1 | 480.9 | 483.6 |
| 10° | 482.3 | 482.3 | 481.8 | 479.1 | 477.8 | 479.1 | 479.6 | 480.0 | 481.8 | 480.0 | 483.1 |
| 12.5° | 484.0 | 484.0 | 482.7 | 479.1 | 476.9 | 477.8 | 478.7 | 479.6 | 482.7 | 482.3 | 485.8 |
| 15° | 488.9 | 489.4 | 485.8 | 481.8 | 480.5 | 481.8 | 480.9 | 480.5 | 484.5 | 485.8 | 489.8 |
| 17.5° | 492.9 | 492.9 | 488.5 | 484.5 | 484.9 | 487.1 | 485.4 | 483.1 | 487.1 | 489.8 | 494.3 |
| 20° | 496.5 | 496.0 | 491.1 | 488.5 | 490.3 | 493.4 | 492.0 | 488.9 | 491.6 | 494.7 | 498.7 |
| 22.5° | 505.4 | 504.9 | 499.6 | 498.3 | 500.0 | 503.2 | 501.8 | 499.2 | 502.3 | 506.7 | 511.6 |
| 25° | 530.7 | 529.9 | 521.8 | 517.4 | 516.5 | 518.7 | 518.3 | 517.4 | 522.3 | 527.6 | 533.4 |
| 27.5° | 564.6 | 564.1 | 558.3 | 553.9 | 548.1 | 546.3 | 547.6 | 551.7 | 558.8 | 562.8 | 567.7 |
| 30° | 581.5 | 581.5 | 580.6 | 587.7 | 600.1 | 612.2 | 602.8 | 587.7 | 581.5 | 579.7 | 584.6 |
| 32.5° | 603.7 | 605.9 | 602.8 | 610.8 | 631.7 | 649.5 | 631.7 | 607.3 | 602.8 | 602.8 | 608.2 |
| 35° | 654.9 | 655.8 | 650.9 | 649.5 | 656.2 | 658.4 | 650.0 | 641.1 | 646.0 | 646.9 | 653.5 |
| 37.5° | 695.8 | 695.8 | 693.6 | 697.1 | 710.9 | 719.4 | 705.6 | 689.6 | 690.9 | 691.8 | 700.2 |
| 40° | 759.0 | 760.7 | 755.4 | 755.0 | 760.3 | 767.9 | 753.2 | 743.0 | 750.1 | 752.3 | 765.2 |
| 42.5° | 837.7 | 837.7 | 829.7 | 827.5 | 831.0 | 839.0 | 825.3 | 818.6 | 827.9 | 829.7 | 837.3 |
| 45° | 931.6 | 933.8 | 923.1 | 919.1 | 920.9 | 923.6 | 913.8 | 910.7 | 919.6 | 923.6 | 936.9 |
| 47.5° | 1045.9 | 1048.1 | 1038.8 | 1038.4 | 1036.6 | 1038.4 | 1029.0 | 1027.2 | 1034.4 | 1031.2 | 1045.5 |
| 50° | 1186.9 | 1190.9 | 1182.9 | 1194.1 | 1192.7 | 1198.1 | 1185.2 | 1175.8 | 1175.8 | 1167.4 | 1175.4 |
| 52.5° | 1344.9 | 1352.9 | 1356.9 | 1375.6 | 1389.8 | 1403.2 | 1381.8 | 1367.1 | 1345.8 | 1328.4 | 1350.2 |
| 55° | 1517.0 | 1514.8 | 1540.2 | 1581.1 | 1622.9 | 1654.5 | 1612.7 | 1566.4 | 1531.7 | 1495.7 | 1504.1 |
| 57.5° | 1667.9 | 1675.4 | 1708.8 | 1783.5 | 1866.3 | 1933.0 | 1857.8 | 1768.9 | 1690.1 | 1638.5 | 1645.6 |
| 60° | 1793.3 | 1799.5 | 1844.0 | 1951.7 | 2096.3 | 2188.4 | 2069.1 | 1922.3 | 1808.0 | 1736.8 | 1744.4 |
| 62.5° | 1909.0 | 1914.8 | 1959.7 | 2078.5 | 2260.9 | 2381.0 | 2227.1 | 2026.4 | 1899.2 | 1827.6 | 1832.0 |
| 65° | 1975.7 | 1979.3 | 2040.7 | 2165.7 | 2357.9 | 2482.0 | 2308.5 | 2101.6 | 1976.6 | 1903.7 | 1906.3 |
| 67.5° | 1854.3 | 1860.1 | 1989.5 | 2162.1 | 2376.6 | 2483.8 | 2312.1 | 2103.8 | 1963.3 | 1868.1 | 1870.3 |
| 70° | 1462.8 | 1457.9 | 1612.3 | 1909.0 | 2269.3 | 2409.0 | 2209.3 | 1945.9 | 1728.8 | 1595.8 | 1593.6 |
| 72.5° | 1115.3 | 1116.7 | 1202.5 | 1405.8 | 1850.3 | 2223.1 | 1949.5 | 1566.9 | 1332.9 | 1231.9 | 1227.9 |
| 75° | 808.8 | 821.3 | 891.1 | 1040.1 | 1294.2 | 1661.6 | 1467.7 | 1161.1 | 1004.5 | 944.0 | 935.1 |
| 77.5° | 364.4 | 380.4 | 477.8 | 653.1 | 865.3 | 918.2 | 921.8 | 788.3 | 594.8 | 494.3 | 478.7 |
| 80° | 106.3 | 113.9 | 146.4 | 250.5 | 403.1 | 521.0 | 413.7 | 347.9 | 216.7 | 169.9 | 161.9 |
| 82.5° | 44.9 | 51.2 | 62.7 | 69.4 | 117.0 | 241.6 | 150.4 | 95.6 | 89.0 | 72.1 | 65.8 |
| 85° | 19.1 | 20.5 | 26.2 | 28.0 | 37.8 | 51.6 | 47.6 | 43.2 | 41.4 | 32.0 | 29.4 |
| 87.5° | 8.0 | 8.0 | 8.0 | 7.1 | 6.7 | 7.1 | 9.8 | 12.5 | 16.5 | 12.9 | 12.0 |
| 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)