

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: P632300

Luminaire Tested: GWS-SA2C-740-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-740-U-5WQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7816.5 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

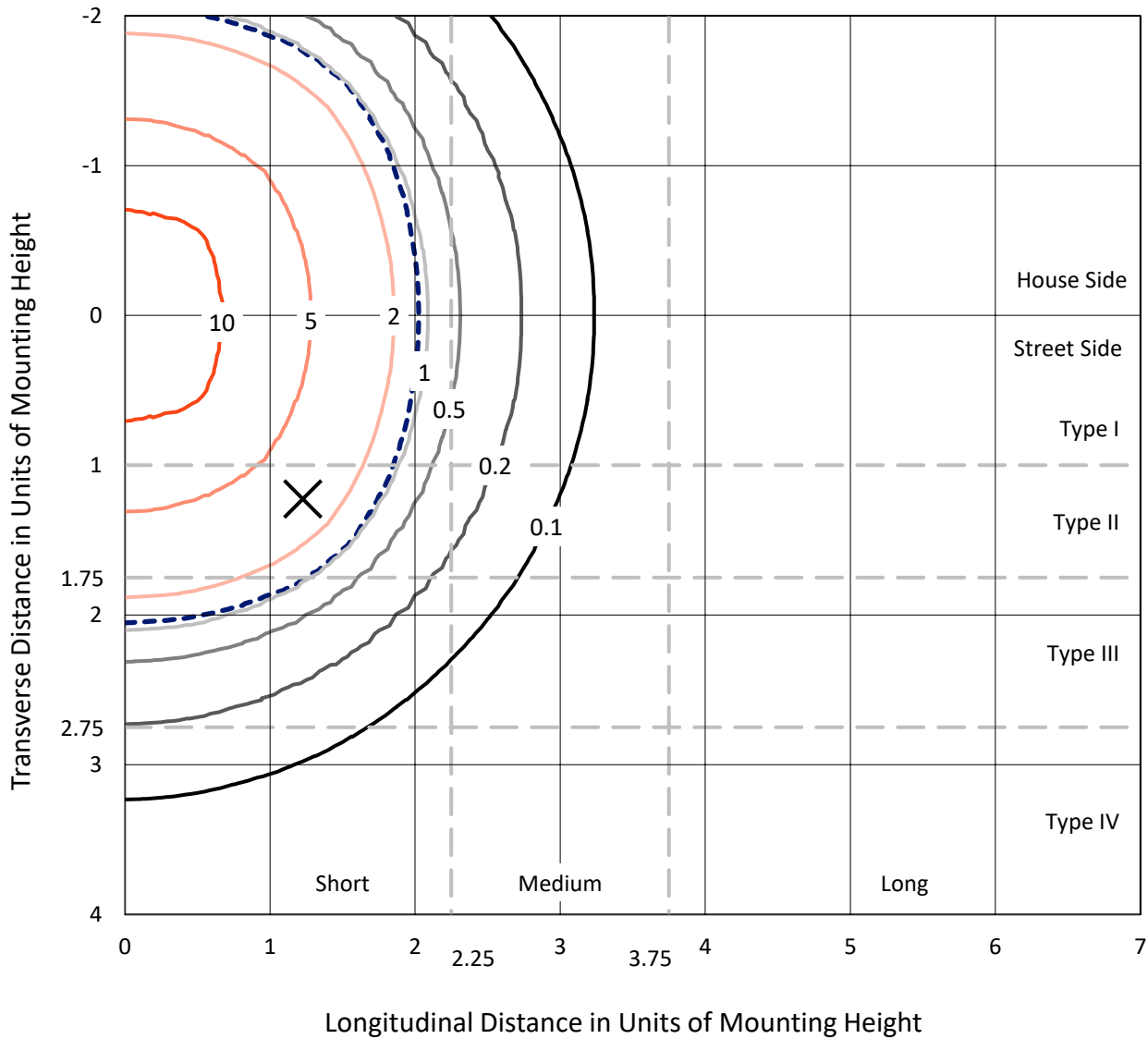
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

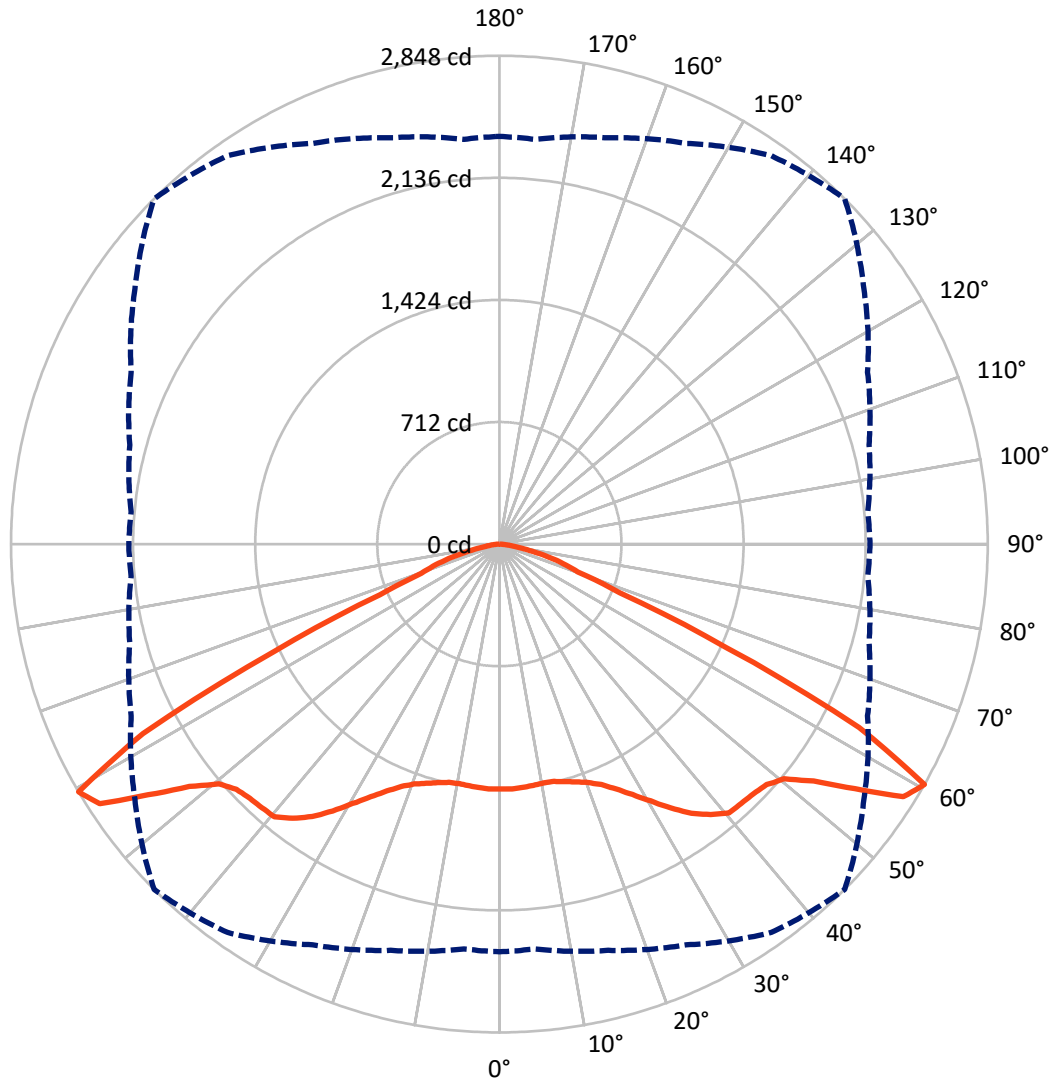
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3908.2 | 0.0 | 3908.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3908.2 | 0.0 | 3908.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7816.5 | 0.0 | 7816.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 135.5 | 1.7 |
| 10°-20° | 407.5 | 5.2 |
| 20°-30° | 720.9 | 9.2 |
| 30°-40° | 1160.6 | 14.8 |
| 40°-50° | 1595.3 | 20.4 |
| 50°-60° | 2125.9 | 27.2 |
| 60°-70° | 1324.9 | 17.0 |
| 70°-80° | 304.7 | 3.9 |
| 80°-90° | 41.3 | 0.5 |
| 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° | 7816.5 | 100.0 |
| 0°-180° | 7816.5 | 100.0 |

Coefficient of Utilization



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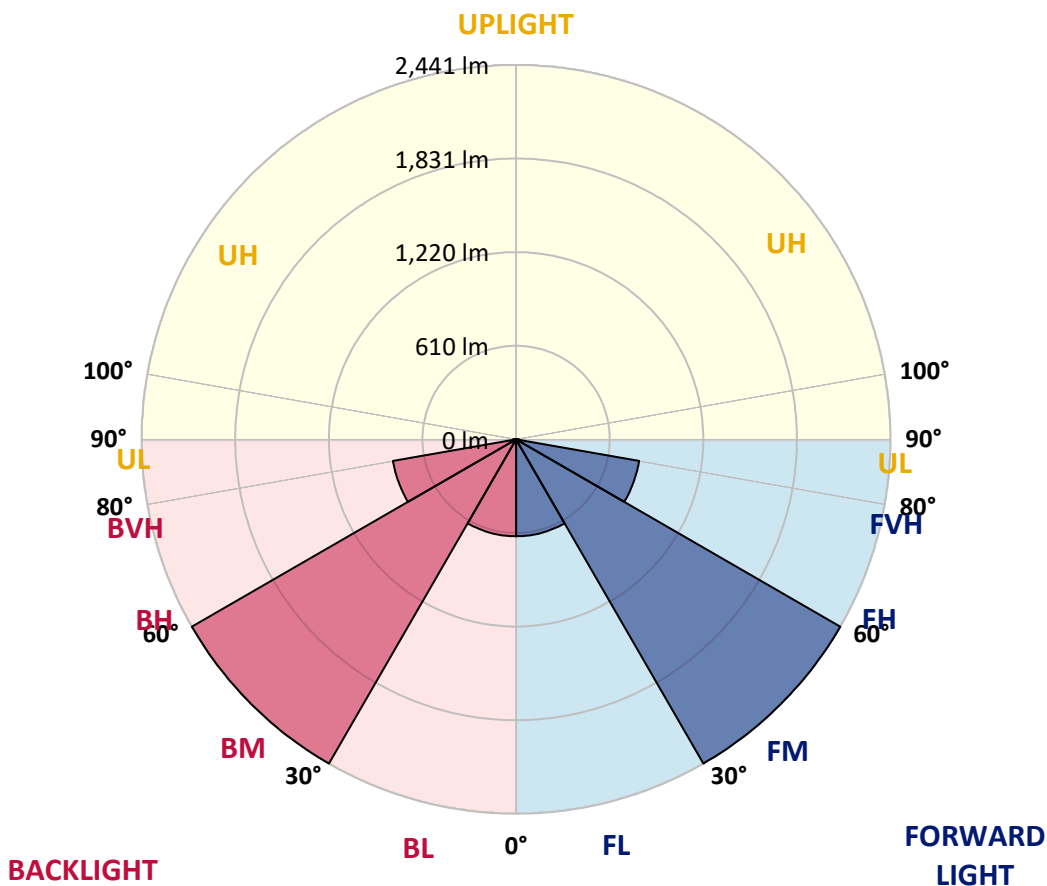
CATALOG NUMBER: GWS-SA2C-740-U-5WQ-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 631.9 | 8.1 | | | |
| FM (30°-60°) | 2440.9 | 31.2 | | | |
| FH (60°-80°) | 814.8 | 10.4 | | | G1/1800 |
| FVH (80°-90°) | 20.7 | 0.3 | | | G1/100 |
| BL (0°-30°) | 631.9 | 8.1 | B2/1000 | | |
| BM (30°-60°) | 2440.9 | 31.2 | B2/2500 | | |
| BH (60°-80°) | 814.8 | 10.4 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 20.7 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1428.5 | 1428.5 | 1428.5 | 1428.5 | 1428.5 | 1428.5 | 1428.5 | 1428.5 | 1428.5 | 1428.5 | 1428.5 |
| 2.5° | 1418.5 | 1419.8 | 1422.5 | 1424.5 | 1427.1 | 1429.8 | 1431.1 | 1428.5 | 1427.1 | 1421.8 | 1427.8 |
| 5° | 1419.8 | 1421.2 | 1423.1 | 1423.1 | 1423.8 | 1425.8 | 1425.8 | 1422.5 | 1419.2 | 1413.2 | 1419.8 |
| 7.5° | 1417.8 | 1419.2 | 1419.8 | 1419.2 | 1419.8 | 1420.5 | 1419.2 | 1415.2 | 1411.9 | 1406.6 | 1411.9 |
| 10° | 1414.5 | 1415.8 | 1417.2 | 1415.8 | 1414.5 | 1416.5 | 1416.5 | 1413.9 | 1411.9 | 1406.6 | 1412.5 |
| 12.5° | 1421.8 | 1423.8 | 1424.5 | 1421.2 | 1419.8 | 1420.5 | 1420.5 | 1417.8 | 1417.8 | 1413.2 | 1419.8 |
| 15° | 1439.1 | 1440.4 | 1438.4 | 1434.4 | 1435.1 | 1437.1 | 1432.4 | 1425.8 | 1424.5 | 1422.5 | 1427.8 |
| 17.5° | 1452.3 | 1453.7 | 1451.7 | 1449.0 | 1453.7 | 1458.3 | 1449.7 | 1437.1 | 1433.1 | 1431.8 | 1437.7 |
| 20° | 1466.9 | 1468.9 | 1466.3 | 1469.6 | 1478.9 | 1484.2 | 1473.6 | 1456.3 | 1448.4 | 1446.4 | 1453.7 |
| 22.5° | 1490.8 | 1493.5 | 1493.5 | 1500.8 | 1514.7 | 1523.3 | 1510.1 | 1486.8 | 1474.9 | 1471.6 | 1478.9 |
| 25° | 1528.6 | 1530.6 | 1532.6 | 1547.2 | 1569.8 | 1581.7 | 1560.5 | 1528.6 | 1512.1 | 1506.7 | 1510.7 |
| 27.5° | 1581.1 | 1584.4 | 1587.7 | 1608.9 | 1636.8 | 1654.0 | 1623.5 | 1583.7 | 1563.1 | 1552.5 | 1560.5 |
| 30° | 1643.4 | 1648.1 | 1656.0 | 1679.9 | 1719.1 | 1738.3 | 1699.2 | 1650.7 | 1627.5 | 1616.2 | 1626.8 |
| 32.5° | 1728.3 | 1729.0 | 1735.0 | 1761.5 | 1813.3 | 1835.2 | 1786.1 | 1732.3 | 1708.4 | 1695.2 | 1701.1 |
| 35° | 1829.2 | 1829.9 | 1820.6 | 1847.8 | 1903.5 | 1928.0 | 1870.3 | 1815.9 | 1796.0 | 1792.0 | 1807.3 |
| 37.5° | 1932.7 | 1926.7 | 1917.4 | 1929.4 | 1985.8 | 2001.7 | 1940.7 | 1894.2 | 1885.6 | 1892.9 | 1915.4 |
| 40° | 2006.3 | 1996.4 | 1977.8 | 1986.4 | 2043.5 | 2062.1 | 1997.0 | 1953.3 | 1950.6 | 1968.5 | 1995.7 |
| 42.5° | 2054.1 | 2043.5 | 2021.6 | 2021.6 | 2060.7 | 2068.7 | 2018.3 | 1995.1 | 2001.0 | 2021.6 | 2047.5 |
| 45° | 2077.3 | 2071.4 | 2058.8 | 2052.1 | 2074.0 | 2077.3 | 2038.8 | 2029.6 | 2040.8 | 2050.8 | 2070.7 |
| 47.5° | 2095.2 | 2095.2 | 2091.3 | 2084.6 | 2094.6 | 2096.6 | 2068.0 | 2065.4 | 2080.0 | 2080.0 | 2093.3 |
| 50° | 2127.1 | 2130.4 | 2135.7 | 2134.4 | 2145.0 | 2151.6 | 2130.4 | 2126.4 | 2132.4 | 2113.2 | 2119.8 |
| 52.5° | 2210.7 | 2219.3 | 2234.6 | 2246.5 | 2273.7 | 2294.3 | 2256.5 | 2224.6 | 2193.4 | 2151.0 | 2152.3 |
| 55° | 2360.6 | 2364.6 | 2394.5 | 2429.6 | 2475.4 | 2517.2 | 2439.6 | 2340.7 | 2273.1 | 2223.3 | 2224.0 |
| 57.5° | 2487.4 | 2493.3 | 2537.1 | 2610.8 | 2713.6 | 2778.6 | 2606.8 | 2441.6 | 2346.0 | 2285.0 | 2287.0 |
| 60° | 2377.9 | 2369.9 | 2452.9 | 2578.9 | 2765.3 | 2848.3 | 2594.8 | 2369.3 | 2231.9 | 2156.3 | 2161.6 |
| 62.5° | 1839.8 | 1824.5 | 1916.8 | 2048.8 | 2272.4 | 2355.3 | 2121.8 | 1905.5 | 1775.4 | 1716.4 | 1707.8 |
| 65° | 1119.9 | 1106.0 | 1172.4 | 1253.3 | 1404.6 | 1457.0 | 1350.2 | 1235.4 | 1121.9 | 1086.1 | 1076.2 |
| 67.5° | 609.7 | 607.7 | 625.7 | 665.5 | 731.8 | 756.4 | 735.8 | 681.4 | 652.2 | 627.0 | 627.0 |
| 70° | 483.7 | 479.7 | 476.4 | 477.0 | 483.0 | 486.3 | 487.0 | 484.3 | 487.7 | 488.3 | 485.7 |
| 72.5° | 400.7 | 399.4 | 392.8 | 393.4 | 390.8 | 389.5 | 394.1 | 396.8 | 402.1 | 402.7 | 402.7 |
| 75° | 290.6 | 287.3 | 290.6 | 291.3 | 288.6 | 288.6 | 291.9 | 291.3 | 293.9 | 295.2 | 287.9 |
| 77.5° | 165.2 | 165.2 | 169.8 | 175.2 | 179.1 | 179.1 | 182.5 | 182.5 | 185.8 | 185.1 | 183.8 |
| 80° | 90.9 | 90.9 | 93.5 | 96.9 | 100.8 | 104.8 | 108.1 | 108.8 | 110.8 | 110.1 | 108.1 |
| 82.5° | 51.8 | 52.4 | 53.7 | 55.7 | 59.7 | 63.0 | 66.3 | 67.0 | 69.0 | 69.0 | 67.0 |
| 85° | 24.5 | 23.9 | 24.5 | 25.9 | 27.9 | 30.5 | 33.8 | 35.8 | 37.2 | 37.2 | 35.8 |
| 87.5° | 4.6 | 5.3 | 4.6 | 5.3 | 6.0 | 8.0 | 9.3 | 10.6 | 12.6 | 13.3 | 11.9 |
| 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)