

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: P633510

Luminaire Tested: GWS-SA2E-830-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633510
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-SA2E-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9789.1 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

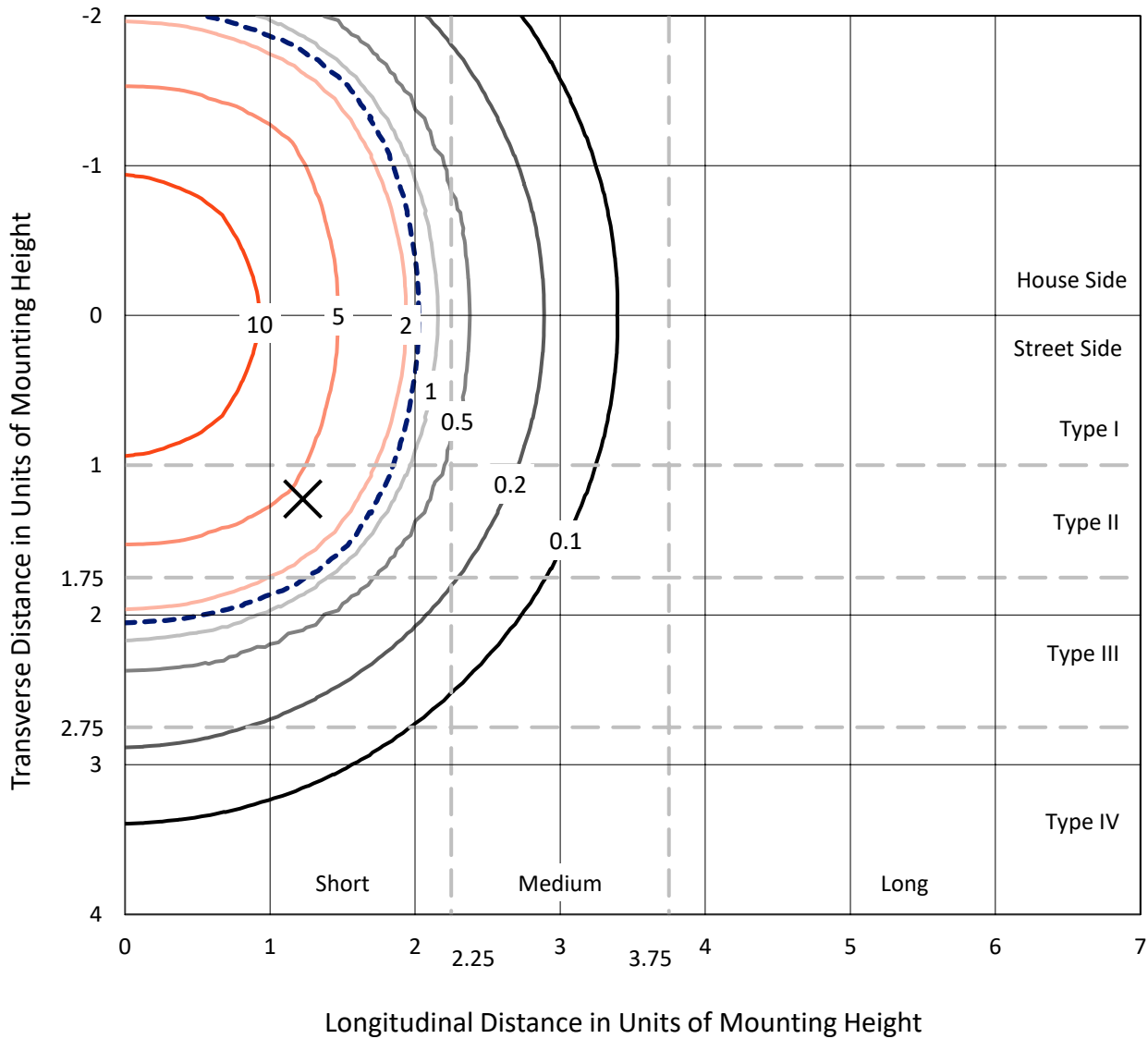
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

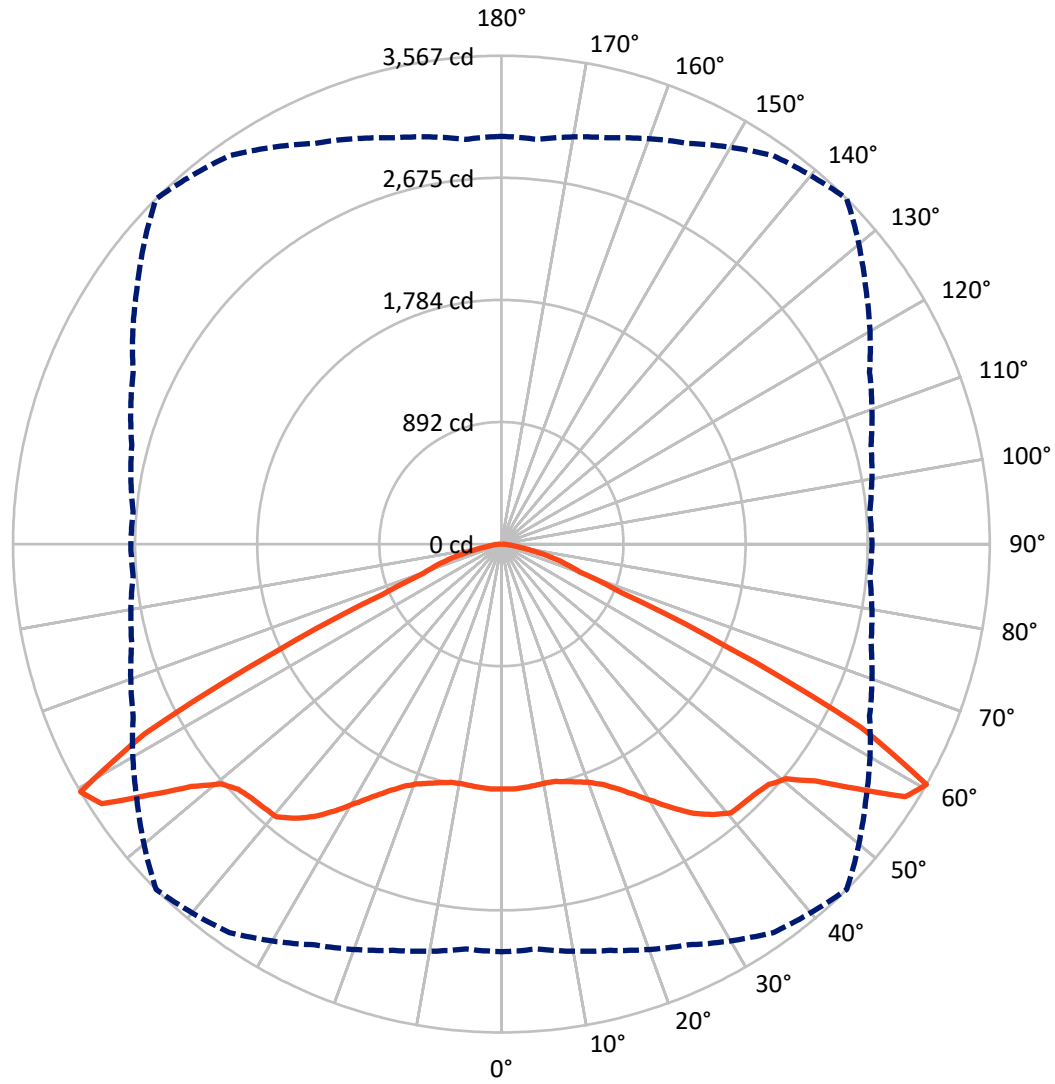
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.9 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 | 4894.5 | 0.0 | 4894.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4894.5 | 0.0 | 4894.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9789.1 | 0.0 | 9789.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 169.7 | 1.7 |
| 10°-20° | 510.3 | 5.2 |
| 20°-30° | 902.8 | 9.2 |
| 30°-40° | 1453.5 | 14.8 |
| 40°-50° | 1997.9 | 20.4 |
| 50°-60° | 2662.3 | 27.2 |
| 60°-70° | 1659.3 | 17.0 |
| 70°-80° | 381.6 | 3.9 |
| 80°-90° | 51.8 | 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° | 9789.1 | 100.0 |
| 0°-180° | 9789.1 | 100.0 |

Coefficient of Utilization



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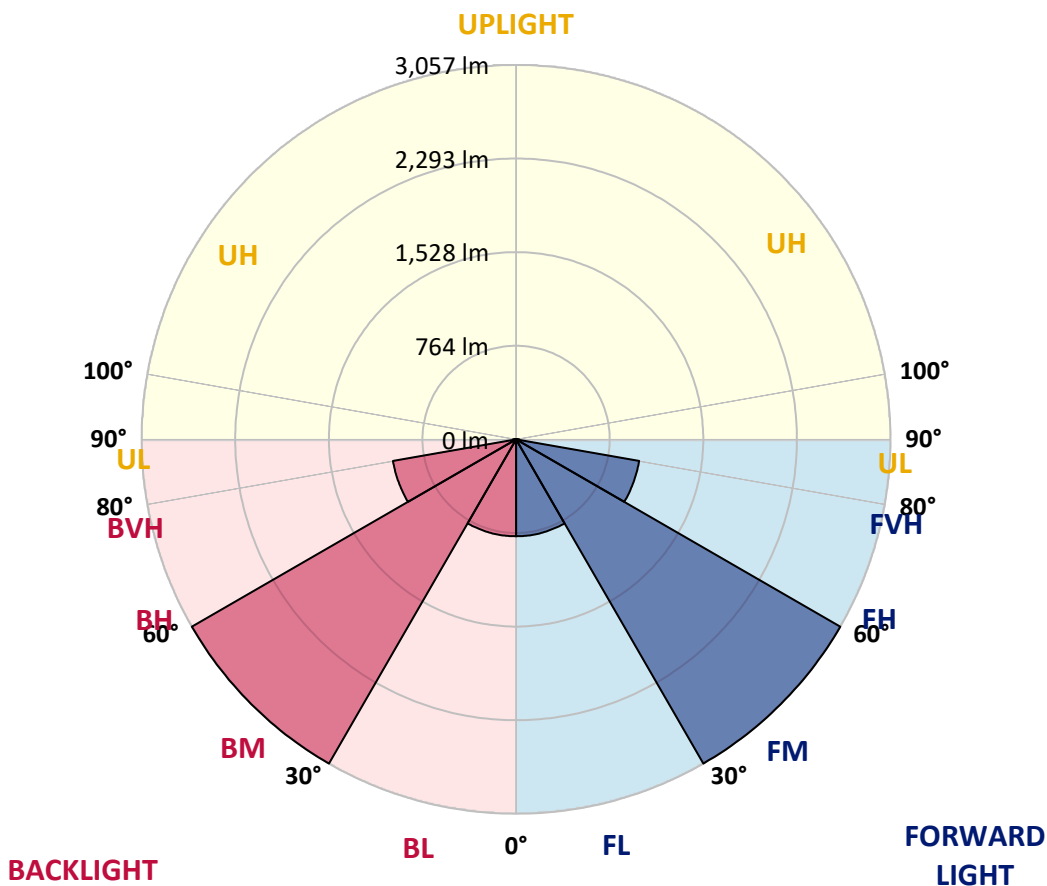
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 791.4 | 8.1 | | | |
| FM (30°-60°) | 3056.9 | 31.2 | | | |
| FH (60°-80°) | 1020.4 | 10.4 | | | G1/1800 |
| FVH (80°-90°) | 25.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 791.4 | 8.1 | B2/1000 | | |
| BM (30°-60°) | 3056.9 | 31.2 | B3/5000 | | |
| BH (60°-80°) | 1020.4 | 10.4 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 25.9 | 0.3 | | | 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° | 1788.9 | 1788.9 | 1788.9 | 1788.9 | 1788.9 | 1788.9 | 1788.9 | 1788.9 | 1788.9 | 1788.9 | 1788.9 |
| 2.5° | 1776.5 | 1778.1 | 1781.5 | 1784.0 | 1787.3 | 1790.6 | 1792.3 | 1788.9 | 1787.3 | 1780.6 | 1788.1 |
| 5° | 1778.1 | 1779.8 | 1782.3 | 1782.3 | 1783.1 | 1785.6 | 1785.6 | 1781.5 | 1777.3 | 1769.8 | 1778.1 |
| 7.5° | 1775.6 | 1777.3 | 1778.1 | 1777.3 | 1778.1 | 1779.0 | 1777.3 | 1772.3 | 1768.2 | 1761.5 | 1768.2 |
| 10° | 1771.5 | 1773.2 | 1774.8 | 1773.2 | 1771.5 | 1774.0 | 1774.0 | 1770.7 | 1768.2 | 1761.5 | 1769.0 |
| 12.5° | 1780.6 | 1783.1 | 1784.0 | 1779.8 | 1778.1 | 1779.0 | 1779.0 | 1775.6 | 1775.6 | 1769.8 | 1778.1 |
| 15° | 1802.2 | 1803.9 | 1801.4 | 1796.4 | 1797.3 | 1799.7 | 1793.9 | 1785.6 | 1784.0 | 1781.5 | 1788.1 |
| 17.5° | 1818.9 | 1820.5 | 1818.0 | 1814.7 | 1820.5 | 1826.3 | 1815.5 | 1799.7 | 1794.8 | 1793.1 | 1800.6 |
| 20° | 1837.1 | 1839.6 | 1836.3 | 1840.5 | 1852.1 | 1858.7 | 1845.4 | 1823.8 | 1813.9 | 1811.4 | 1820.5 |
| 22.5° | 1867.0 | 1870.4 | 1870.4 | 1879.5 | 1897.0 | 1907.8 | 1891.1 | 1862.1 | 1847.1 | 1843.0 | 1852.1 |
| 25° | 1914.4 | 1916.9 | 1919.4 | 1937.7 | 1965.9 | 1980.9 | 1954.3 | 1914.4 | 1893.6 | 1887.0 | 1892.0 |
| 27.5° | 1980.1 | 1984.2 | 1988.4 | 2015.0 | 2049.8 | 2071.5 | 2033.2 | 1983.4 | 1957.6 | 1944.3 | 1954.3 |
| 30° | 2058.2 | 2064.0 | 2073.9 | 2103.9 | 2152.9 | 2177.0 | 2128.0 | 2067.3 | 2038.2 | 2024.1 | 2037.4 |
| 32.5° | 2164.5 | 2165.3 | 2172.8 | 2206.1 | 2270.9 | 2298.3 | 2236.8 | 2169.5 | 2139.6 | 2123.0 | 2130.4 |
| 35° | 2290.8 | 2291.6 | 2280.0 | 2314.1 | 2383.9 | 2414.6 | 2342.3 | 2274.2 | 2249.3 | 2244.3 | 2263.4 |
| 37.5° | 2420.4 | 2413.0 | 2401.3 | 2416.3 | 2486.9 | 2506.8 | 2430.4 | 2372.2 | 2361.4 | 2370.6 | 2398.8 |
| 40° | 2512.7 | 2500.2 | 2476.9 | 2487.7 | 2559.2 | 2582.5 | 2501.0 | 2446.2 | 2442.9 | 2465.3 | 2499.4 |
| 42.5° | 2572.5 | 2559.2 | 2531.8 | 2531.8 | 2580.8 | 2590.8 | 2527.6 | 2498.5 | 2506.0 | 2531.8 | 2564.2 |
| 45° | 2601.6 | 2594.1 | 2578.3 | 2570.0 | 2597.4 | 2601.6 | 2553.4 | 2541.7 | 2555.9 | 2568.3 | 2593.3 |
| 47.5° | 2624.0 | 2624.0 | 2619.0 | 2610.7 | 2623.2 | 2625.7 | 2589.9 | 2586.6 | 2604.9 | 2604.9 | 2621.5 |
| 50° | 2663.9 | 2668.0 | 2674.7 | 2673.0 | 2686.3 | 2694.6 | 2668.0 | 2663.1 | 2670.5 | 2646.4 | 2654.7 |
| 52.5° | 2768.6 | 2779.4 | 2798.5 | 2813.5 | 2847.5 | 2873.3 | 2825.9 | 2786.0 | 2747.0 | 2693.8 | 2695.5 |
| 55° | 2956.4 | 2961.4 | 2998.7 | 3042.8 | 3100.1 | 3152.5 | 3055.2 | 2931.4 | 2846.7 | 2784.4 | 2785.2 |
| 57.5° | 3115.1 | 3122.6 | 3177.4 | 3269.6 | 3398.4 | 3479.8 | 3264.6 | 3057.7 | 2938.1 | 2861.6 | 2864.1 |
| 60° | 2978.0 | 2968.0 | 3071.9 | 3229.7 | 3463.2 | 3567.1 | 3249.7 | 2967.2 | 2795.2 | 2700.4 | 2707.1 |
| 62.5° | 2304.1 | 2285.0 | 2400.5 | 2565.8 | 2845.9 | 2949.7 | 2657.2 | 2386.4 | 2223.5 | 2149.6 | 2138.8 |
| 65° | 1402.6 | 1385.1 | 1468.2 | 1569.6 | 1759.0 | 1824.7 | 1690.9 | 1547.1 | 1405.1 | 1360.2 | 1347.7 |
| 67.5° | 763.6 | 761.1 | 783.5 | 833.4 | 916.5 | 947.2 | 921.5 | 853.3 | 816.8 | 785.2 | 785.2 |
| 70° | 605.7 | 600.7 | 596.6 | 597.4 | 604.9 | 609.1 | 609.9 | 606.6 | 610.7 | 611.5 | 608.2 |
| 72.5° | 501.9 | 500.2 | 491.9 | 492.7 | 489.4 | 487.7 | 493.6 | 496.9 | 503.5 | 504.4 | 504.4 |
| 75° | 363.9 | 359.8 | 363.9 | 364.8 | 361.4 | 361.4 | 365.6 | 364.8 | 368.1 | 369.8 | 360.6 |
| 77.5° | 206.9 | 206.9 | 212.7 | 219.4 | 224.3 | 224.3 | 228.5 | 228.5 | 232.7 | 231.8 | 230.2 |
| 80° | 113.8 | 113.8 | 117.2 | 121.3 | 126.3 | 131.3 | 135.4 | 136.3 | 138.8 | 137.9 | 135.4 |
| 82.5° | 64.8 | 65.6 | 67.3 | 69.8 | 74.8 | 78.9 | 83.1 | 83.9 | 86.4 | 86.4 | 83.9 |
| 85° | 30.7 | 29.9 | 30.7 | 32.4 | 34.9 | 38.2 | 42.4 | 44.9 | 46.5 | 46.5 | 44.9 |
| 87.5° | 5.8 | 6.6 | 5.8 | 6.6 | 7.5 | 10.0 | 11.6 | 13.3 | 15.8 | 16.6 | 15.0 |
| 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)