

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: P633504

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-830-U-5MQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM 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: 10148.9 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

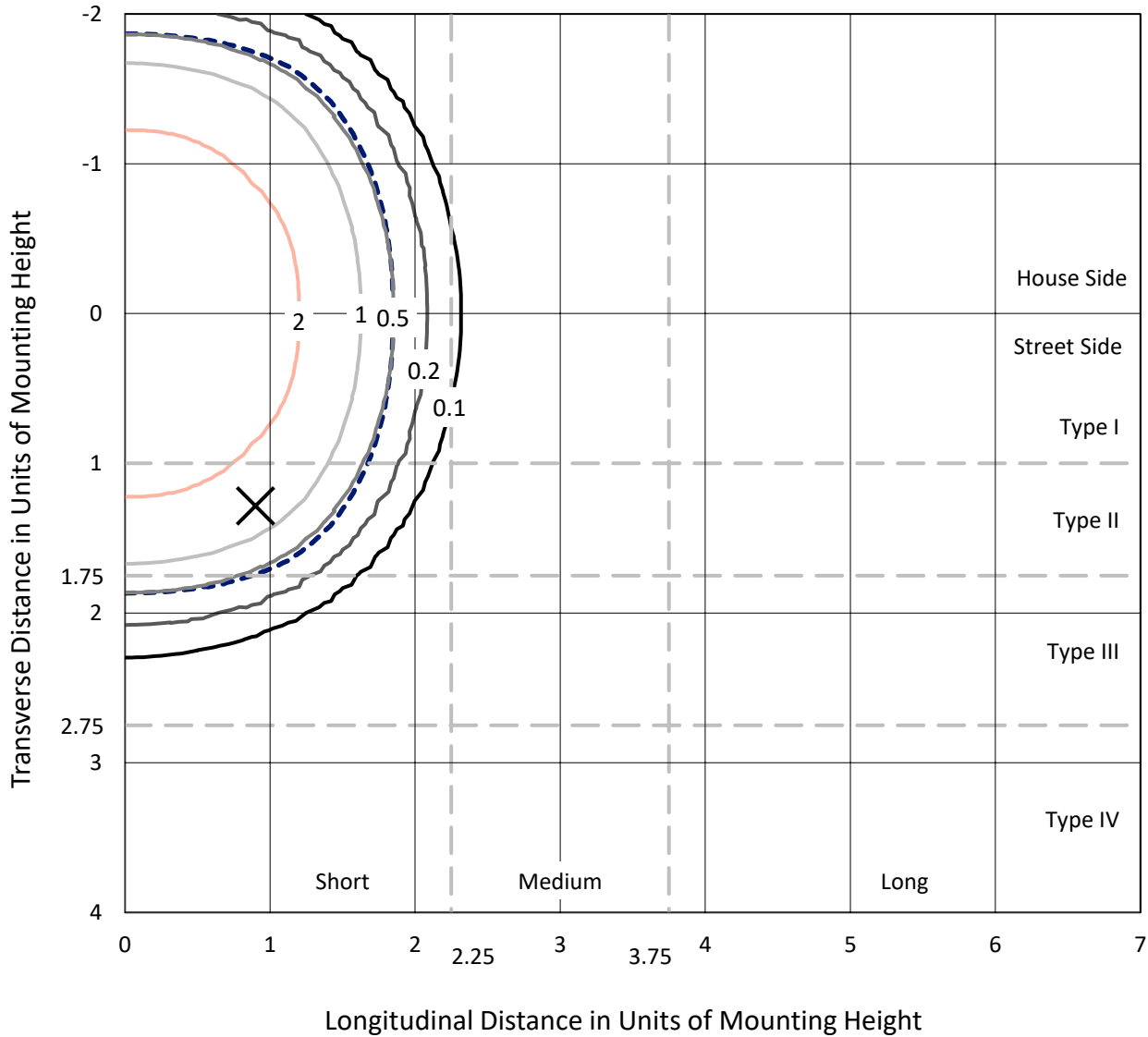
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

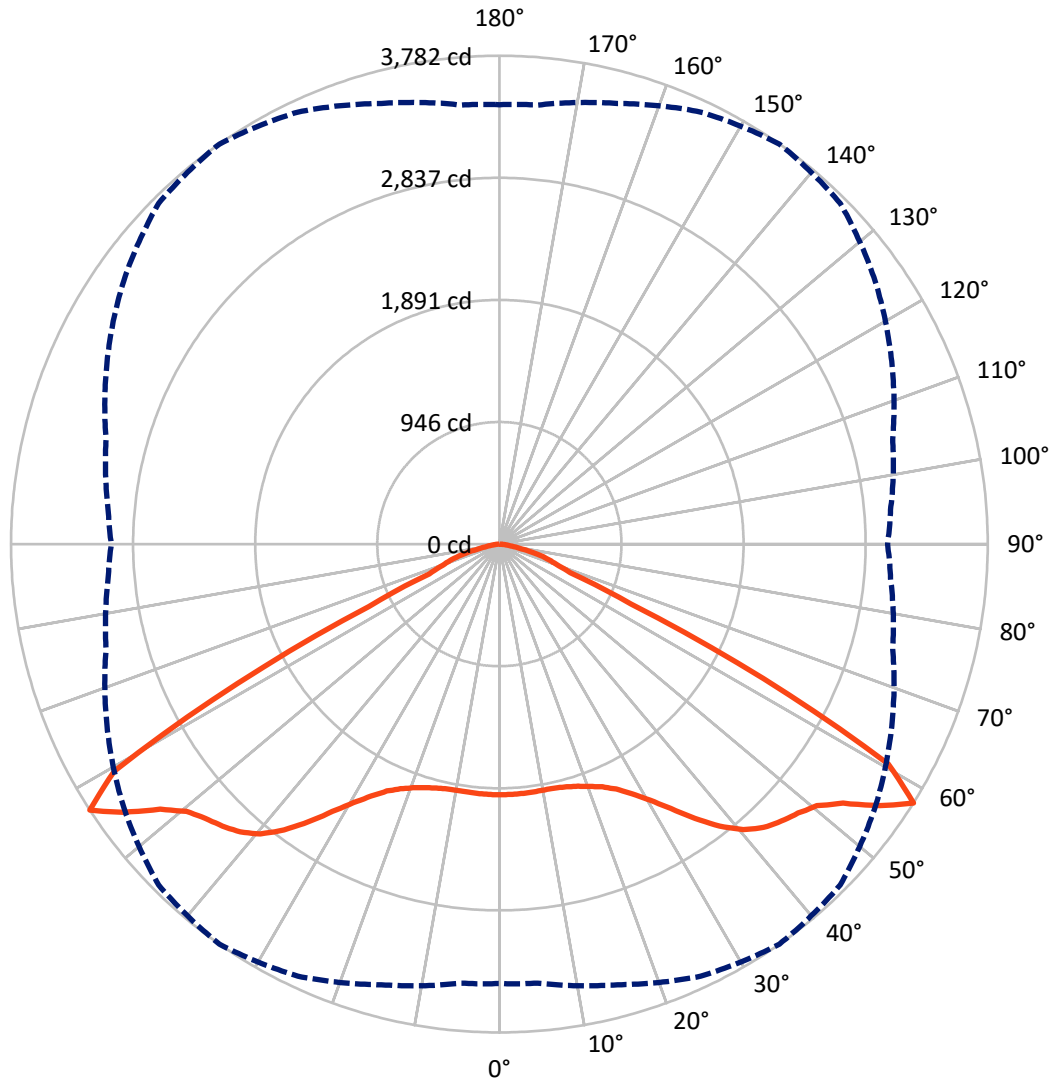
✕ Max cd
 - - - 1/2 Max cd



Based on 20 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 35-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5074.5 | 0.0 | 5074.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5074.5 | 0.0 | 5074.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10148.9 | 0.0 | 10148.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 184.7 | 1.8 |
| 10°-20° | 551.2 | 5.4 |
| 20°-30° | 961.7 | 9.5 |
| 30°-40° | 1576.9 | 15.5 |
| 40°-50° | 2322.5 | 22.9 |
| 50°-60° | 2963.9 | 29.2 |
| 60°-70° | 1249.1 | 12.3 |
| 70°-80° | 298.4 | 2.9 |
| 80°-90° | 40.6 | 0.4 |
| 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° | 10148.9 | 100.0 |
| 0°-180° | 10148.9 | 100.0 |

Coefficient of Utilization



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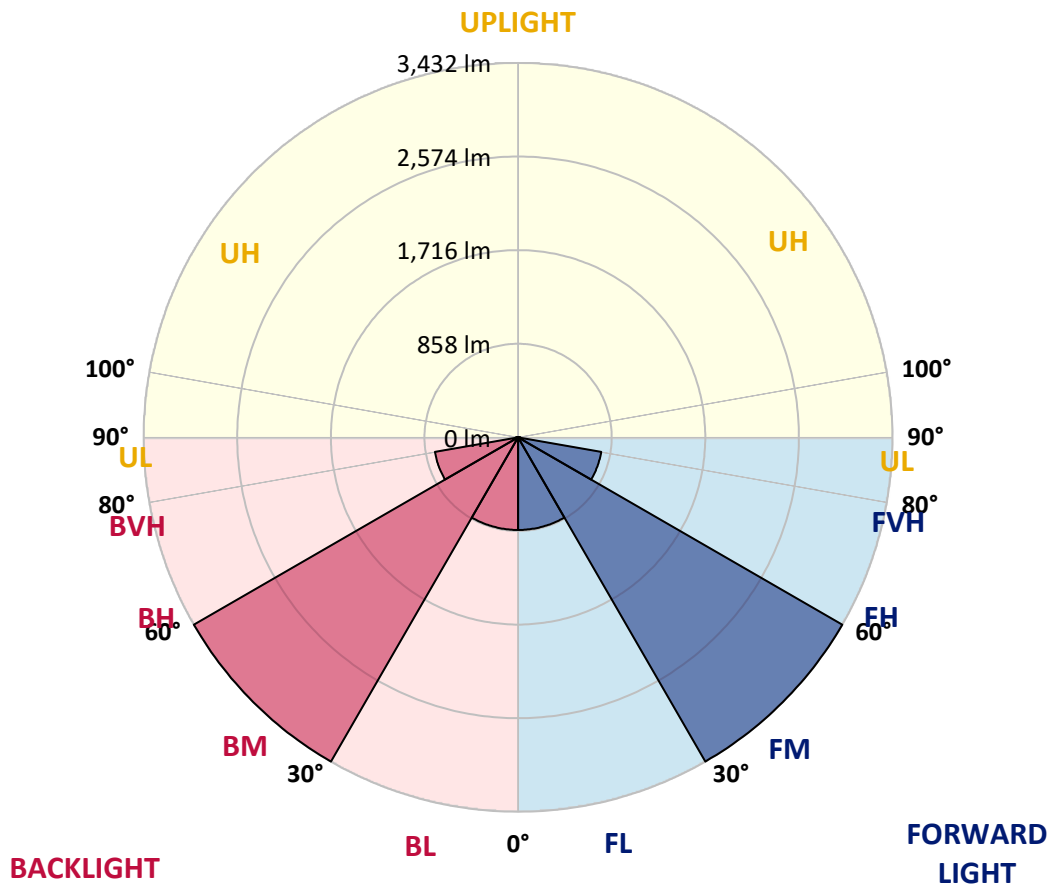
CATALOG NUMBER: GWS-SA2E-830-U-5MQ-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 848.8 | 8.4 | | | |
| FM (30°-60°) | 3431.6 | 33.8 | | | |
| FH (60°-80°) | 773.7 | 7.6 | | | G1/1800 |
| FVH (80°-90°) | 20.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 848.8 | 8.4 | B2/1000 | | |
| BM (30°-60°) | 3431.6 | 33.8 | B3/5000 | | |
| BH (60°-80°) | 773.7 | 7.6 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 20.3 | 0.2 | | | 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° | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 |
| 2.5° | 1930.2 | 1930.2 | 1934.4 | 1938.6 | 1940.2 | 1947.7 | 1946.9 | 1944.4 | 1942.7 | 1937.7 | 1944.4 |
| 5° | 1934.4 | 1934.4 | 1937.7 | 1940.2 | 1939.4 | 1945.2 | 1942.7 | 1938.6 | 1936.1 | 1931.1 | 1938.6 |
| 7.5° | 1933.6 | 1933.6 | 1936.1 | 1938.6 | 1936.9 | 1941.9 | 1937.7 | 1931.9 | 1927.8 | 1922.8 | 1929.4 |
| 10° | 1922.8 | 1924.4 | 1926.9 | 1932.7 | 1935.2 | 1942.7 | 1936.9 | 1927.8 | 1921.1 | 1915.3 | 1921.9 |
| 12.5° | 1921.1 | 1922.8 | 1926.1 | 1933.6 | 1937.7 | 1948.5 | 1941.0 | 1926.1 | 1916.1 | 1908.6 | 1915.3 |
| 15° | 1928.6 | 1930.2 | 1935.2 | 1944.4 | 1951.0 | 1962.6 | 1951.8 | 1931.1 | 1916.9 | 1907.0 | 1912.8 |
| 17.5° | 1937.7 | 1940.2 | 1947.7 | 1961.0 | 1971.8 | 1984.3 | 1971.0 | 1946.0 | 1926.1 | 1912.8 | 1917.8 |
| 20° | 1947.7 | 1951.0 | 1962.6 | 1982.6 | 2002.5 | 2018.3 | 2001.7 | 1968.5 | 1944.4 | 1926.9 | 1931.9 |
| 22.5° | 1965.1 | 1969.3 | 1984.3 | 2012.5 | 2042.4 | 2065.7 | 2044.9 | 2000.0 | 1968.5 | 1946.0 | 1950.2 |
| 25° | 2000.9 | 2005.9 | 2025.0 | 2059.0 | 2101.4 | 2129.7 | 2100.6 | 2049.9 | 2005.9 | 1978.4 | 1982.6 |
| 27.5° | 2064.0 | 2066.5 | 2091.4 | 2136.3 | 2188.7 | 2221.1 | 2186.2 | 2126.3 | 2077.3 | 2045.7 | 2049.1 |
| 30° | 2147.1 | 2154.6 | 2179.5 | 2238.5 | 2300.8 | 2344.0 | 2298.3 | 2227.7 | 2171.2 | 2133.0 | 2136.3 |
| 32.5° | 2248.5 | 2253.5 | 2290.9 | 2352.4 | 2442.1 | 2491.9 | 2429.6 | 2345.7 | 2277.6 | 2231.0 | 2234.4 |
| 35° | 2381.4 | 2385.6 | 2421.3 | 2499.4 | 2608.3 | 2654.8 | 2583.4 | 2487.0 | 2408.0 | 2364.0 | 2376.5 |
| 37.5° | 2540.1 | 2547.6 | 2573.4 | 2650.7 | 2772.0 | 2817.7 | 2735.4 | 2645.7 | 2563.4 | 2522.7 | 2531.8 |
| 40° | 2710.5 | 2709.7 | 2730.4 | 2798.6 | 2909.1 | 2937.3 | 2863.4 | 2791.9 | 2721.3 | 2694.7 | 2709.7 |
| 42.5° | 2856.7 | 2852.6 | 2867.5 | 2924.0 | 3000.5 | 3003.0 | 2953.9 | 2914.1 | 2864.2 | 2845.9 | 2860.0 |
| 45° | 2958.9 | 2960.6 | 2983.0 | 3022.1 | 3061.1 | 3040.4 | 3025.4 | 3018.8 | 2979.7 | 2954.8 | 2957.3 |
| 47.5° | 3039.5 | 3046.2 | 3081.9 | 3108.5 | 3113.5 | 3078.6 | 3099.4 | 3109.3 | 3076.9 | 3038.7 | 3027.9 |
| 50° | 3111.0 | 3121.8 | 3168.3 | 3196.6 | 3185.8 | 3141.7 | 3182.4 | 3197.4 | 3125.9 | 3052.8 | 3031.2 |
| 52.5° | 3240.6 | 3253.1 | 3309.6 | 3346.1 | 3333.7 | 3289.6 | 3327.9 | 3274.7 | 3154.2 | 3064.5 | 3037.0 |
| 55° | 3447.5 | 3453.3 | 3522.3 | 3582.1 | 3576.3 | 3522.3 | 3491.6 | 3373.6 | 3227.3 | 3134.3 | 3108.5 |
| 57.5° | 3403.5 | 3413.4 | 3533.1 | 3692.6 | 3782.4 | 3733.4 | 3553.0 | 3352.0 | 3153.4 | 3041.2 | 3006.3 |
| 60° | 2678.1 | 2702.2 | 2850.9 | 3131.8 | 3460.8 | 3460.0 | 3125.1 | 2812.7 | 2573.4 | 2424.6 | 2409.7 |
| 62.5° | 1563.8 | 1580.4 | 1715.9 | 2000.0 | 2295.0 | 2313.3 | 2078.1 | 1863.8 | 1654.4 | 1553.8 | 1505.6 |
| 65° | 740.4 | 739.5 | 793.5 | 921.5 | 1120.9 | 1136.7 | 1066.1 | 948.9 | 825.1 | 791.0 | 781.9 |
| 67.5° | 546.7 | 546.7 | 542.6 | 551.7 | 590.0 | 598.3 | 590.0 | 570.8 | 559.2 | 566.7 | 561.7 |
| 70° | 474.5 | 475.3 | 470.3 | 467.8 | 467.8 | 465.3 | 468.6 | 476.1 | 481.1 | 491.1 | 486.1 |
| 72.5° | 384.7 | 385.6 | 385.6 | 386.4 | 387.2 | 383.9 | 388.9 | 393.0 | 393.9 | 397.2 | 393.9 |
| 75° | 273.4 | 275.0 | 280.0 | 284.2 | 287.5 | 287.5 | 289.2 | 290.0 | 286.7 | 290.8 | 284.2 |
| 77.5° | 150.4 | 152.1 | 161.2 | 168.7 | 176.2 | 177.0 | 179.5 | 181.1 | 179.5 | 182.8 | 177.8 |
| 80° | 83.1 | 84.8 | 88.9 | 92.2 | 98.0 | 103.0 | 106.4 | 108.0 | 108.0 | 110.5 | 108.0 |
| 82.5° | 47.4 | 49.0 | 51.5 | 53.2 | 58.2 | 62.3 | 65.6 | 68.1 | 68.1 | 69.0 | 67.3 |
| 85° | 22.4 | 22.4 | 24.1 | 25.8 | 28.3 | 29.9 | 34.1 | 36.6 | 36.6 | 38.2 | 36.6 |
| 87.5° | 3.3 | 4.2 | 5.0 | 5.0 | 6.6 | 8.3 | 10.0 | 10.8 | 12.5 | 13.3 | 13.3 |
| 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)