

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: P637520

Luminaire Tested: GWS-SA4D-722-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18680.5 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

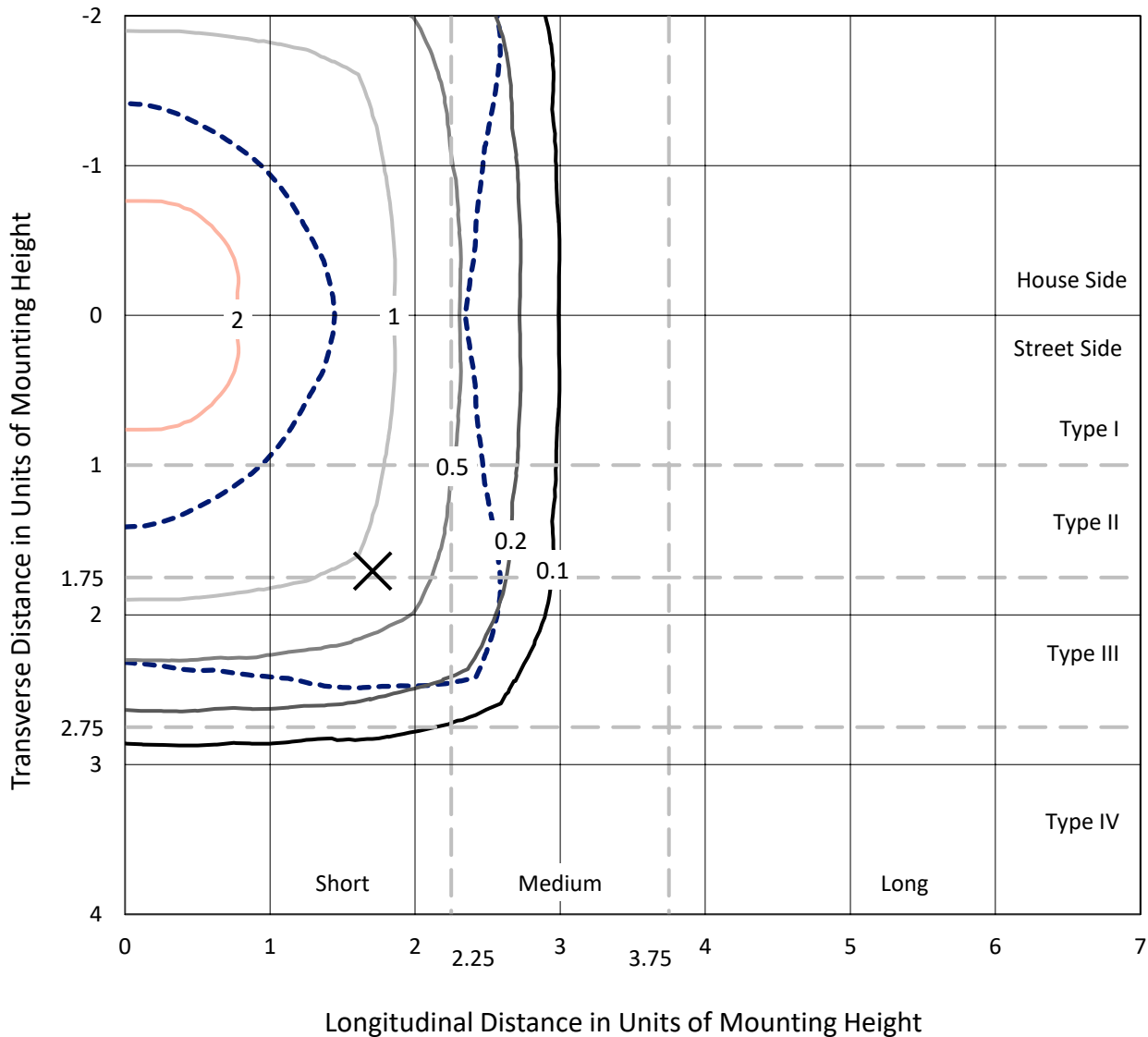
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

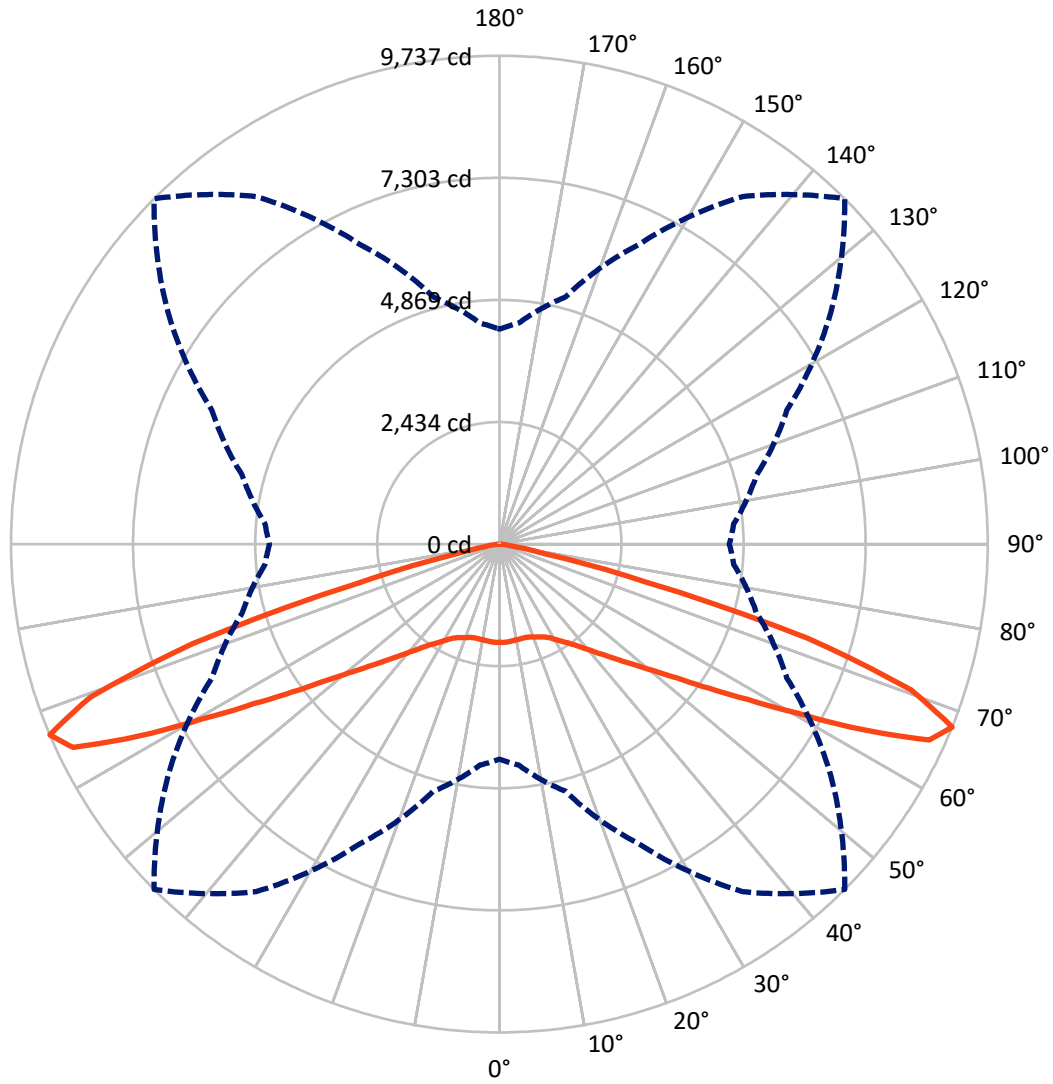
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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 | 9340.2 | 0.0 | 9340.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9340.2 | 0.0 | 9340.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18680.5 | 0.0 | 18680.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 185.2 | 1.0 |
| 10°-20° | 543.9 | 2.9 |
| 20°-30° | 938.0 | 5.0 |
| 30°-40° | 1525.2 | 8.2 |
| 40°-50° | 2568.2 | 13.7 |
| 50°-60° | 4550.4 | 24.4 |
| 60°-70° | 6504.4 | 34.8 |
| 70°-80° | 1785.2 | 9.6 |
| 80°-90° | 80.0 | 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° | 18680.5 | 100.0 |
| 0°-180° | 18680.5 | 100.0 |

Coefficient of Utilization



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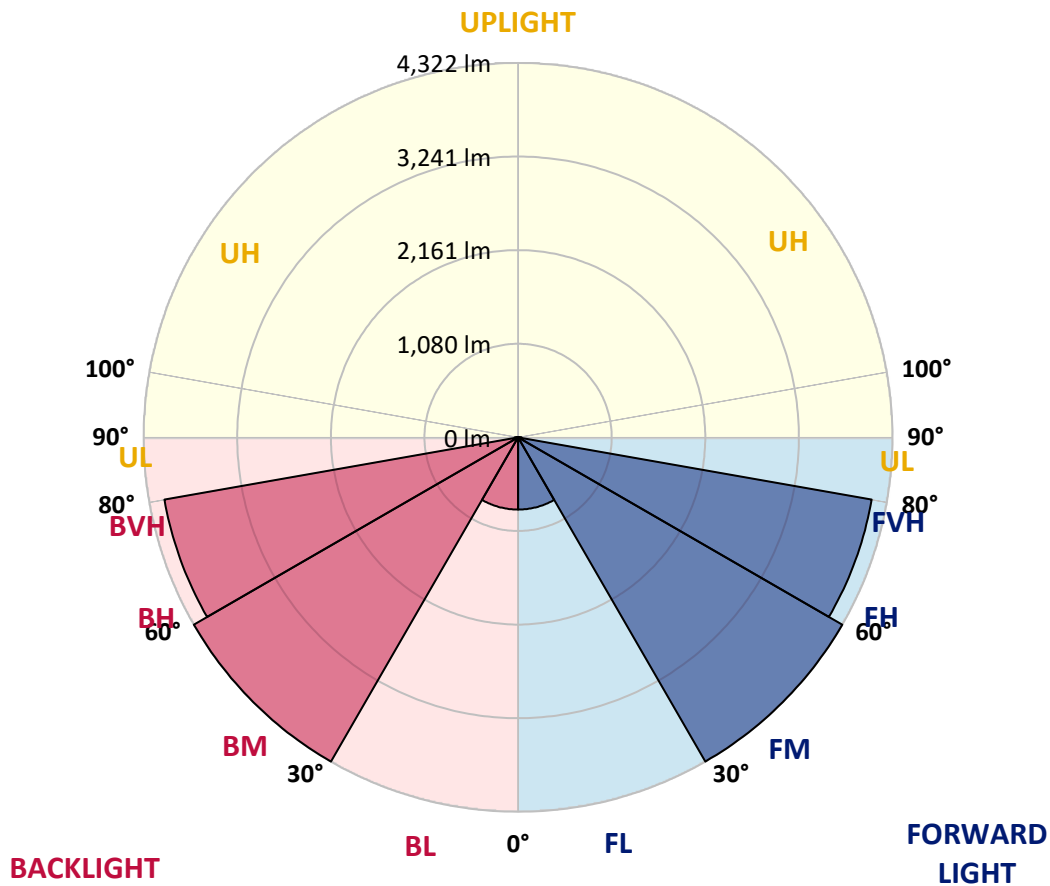
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 833.5 | 4.5 | | | |
| FM (30°-60°) | 4321.9 | 23.1 | | | |
| FH (60°-80°) | 4144.8 | 22.2 | | | G2/5000 |
| FVH (80°-90°) | 40.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 833.5 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 4321.9 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 4144.8 | 22.2 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 40.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1956.5 | 1956.5 | 1956.5 | 1956.5 | 1956.5 | 1956.5 | 1956.5 | 1956.5 | 1956.5 | 1956.5 | 1956.5 |
| 2.5° | 1943.5 | 1942.2 | 1948.7 | 1952.6 | 1951.3 | 1960.3 | 1959.0 | 1956.5 | 1956.5 | 1952.6 | 1962.9 |
| 5° | 1943.5 | 1942.2 | 1947.4 | 1948.7 | 1946.1 | 1953.9 | 1951.3 | 1948.7 | 1948.7 | 1943.5 | 1952.6 |
| 7.5° | 1933.2 | 1934.5 | 1938.3 | 1940.9 | 1938.3 | 1944.8 | 1940.9 | 1935.8 | 1934.5 | 1929.3 | 1938.3 |
| 10° | 1913.8 | 1915.1 | 1919.0 | 1925.4 | 1926.7 | 1938.3 | 1931.9 | 1922.8 | 1919.0 | 1913.8 | 1922.8 |
| 12.5° | 1902.1 | 1903.4 | 1907.3 | 1915.1 | 1917.7 | 1933.2 | 1926.7 | 1912.5 | 1906.0 | 1900.9 | 1909.9 |
| 15° | 1899.6 | 1900.9 | 1906.0 | 1913.8 | 1917.7 | 1933.2 | 1926.7 | 1909.9 | 1900.9 | 1894.4 | 1902.1 |
| 17.5° | 1899.6 | 1902.1 | 1909.9 | 1921.5 | 1929.3 | 1944.8 | 1937.1 | 1917.7 | 1904.7 | 1893.1 | 1900.9 |
| 20° | 1900.9 | 1904.7 | 1916.4 | 1933.2 | 1952.6 | 1974.6 | 1964.2 | 1938.3 | 1920.2 | 1906.0 | 1911.2 |
| 22.5° | 1912.5 | 1919.0 | 1933.2 | 1955.2 | 1983.6 | 2009.5 | 2000.4 | 1965.5 | 1939.6 | 1920.2 | 1925.4 |
| 25° | 1952.6 | 1955.2 | 1973.3 | 2001.7 | 2028.9 | 2050.8 | 2041.8 | 2009.5 | 1977.1 | 1953.9 | 1960.3 |
| 27.5° | 2023.7 | 2030.2 | 2045.7 | 2075.4 | 2098.7 | 2110.3 | 2109.0 | 2087.1 | 2054.7 | 2034.0 | 2039.2 |
| 30° | 2109.0 | 2115.5 | 2136.2 | 2169.8 | 2193.1 | 2206.0 | 2202.1 | 2185.3 | 2155.6 | 2127.1 | 2132.3 |
| 32.5° | 2208.6 | 2211.2 | 2235.8 | 2273.3 | 2297.8 | 2317.2 | 2304.3 | 2286.2 | 2248.7 | 2215.1 | 2217.7 |
| 35° | 2335.3 | 2339.2 | 2365.1 | 2400.0 | 2419.4 | 2434.9 | 2432.3 | 2414.2 | 2374.1 | 2337.9 | 2347.0 |
| 37.5° | 2494.4 | 2497.0 | 2520.2 | 2564.2 | 2579.7 | 2591.4 | 2593.9 | 2584.9 | 2543.5 | 2497.0 | 2506.0 |
| 40° | 2692.2 | 2693.5 | 2719.4 | 2758.2 | 2775.0 | 2782.7 | 2784.0 | 2785.3 | 2742.7 | 2707.7 | 2705.2 |
| 42.5° | 2922.4 | 2928.9 | 2965.1 | 3002.6 | 3010.3 | 3006.4 | 3019.4 | 3032.3 | 2990.9 | 2943.1 | 2947.0 |
| 45° | 3197.8 | 3201.7 | 3250.8 | 3292.2 | 3278.0 | 3265.1 | 3289.6 | 3315.5 | 3278.0 | 3215.9 | 3197.8 |
| 47.5° | 3523.7 | 3531.4 | 3584.5 | 3625.8 | 3602.6 | 3579.3 | 3619.4 | 3646.5 | 3585.8 | 3519.8 | 3503.0 |
| 50° | 3892.2 | 3897.4 | 3972.4 | 4024.1 | 3997.0 | 3954.3 | 4004.7 | 4033.2 | 3951.7 | 3870.2 | 3834.0 |
| 52.5° | 4328.0 | 4317.6 | 4417.2 | 4507.7 | 4490.9 | 4435.3 | 4476.7 | 4481.9 | 4360.3 | 4245.2 | 4209.0 |
| 55° | 4859.5 | 4849.1 | 4948.7 | 5048.2 | 5089.6 | 5075.4 | 5056.0 | 5025.0 | 4845.2 | 4722.4 | 4688.8 |
| 57.5° | 5478.8 | 5446.5 | 5586.2 | 5720.7 | 5811.2 | 5837.0 | 5754.3 | 5681.9 | 5539.6 | 5388.3 | 5349.5 |
| 60° | 6054.3 | 6053.0 | 6274.1 | 6506.9 | 6755.1 | 6858.6 | 6649.1 | 6452.5 | 6133.2 | 5857.7 | 5802.1 |
| 62.5° | 6215.9 | 6243.1 | 6605.1 | 7181.9 | 7794.8 | 8160.7 | 7608.6 | 6958.1 | 6341.3 | 5926.3 | 5852.5 |
| 65° | 5817.6 | 5884.9 | 6399.5 | 7309.9 | 8520.2 | 9415.0 | 8168.5 | 6969.8 | 6109.9 | 5592.6 | 5515.1 |
| 67.5° | 4287.9 | 4422.4 | 5103.8 | 6596.1 | 8458.1 | 9737.0 | 8068.9 | 6324.5 | 5306.9 | 4691.3 | 4584.0 |
| 70° | 2115.5 | 2243.5 | 2784.0 | 4339.6 | 6959.4 | 8703.8 | 6981.4 | 4766.3 | 3584.5 | 2992.2 | 2893.9 |
| 72.5° | 778.4 | 830.2 | 1042.2 | 1856.9 | 3840.5 | 6429.3 | 4774.1 | 2662.5 | 1736.6 | 1382.3 | 1316.4 |
| 75° | 381.5 | 390.5 | 422.8 | 623.3 | 1417.2 | 3025.8 | 2243.5 | 1021.5 | 638.8 | 556.0 | 537.9 |
| 77.5° | 243.1 | 247.0 | 262.5 | 297.4 | 455.2 | 953.0 | 680.2 | 403.4 | 312.9 | 300.0 | 300.0 |
| 80° | 135.8 | 139.7 | 160.3 | 184.9 | 213.4 | 327.2 | 244.4 | 241.8 | 205.6 | 179.7 | 175.9 |
| 82.5° | 64.7 | 71.1 | 102.2 | 100.9 | 112.5 | 164.2 | 143.5 | 130.6 | 131.9 | 99.6 | 94.4 |
| 85° | 29.7 | 29.7 | 40.1 | 47.8 | 50.4 | 55.6 | 65.9 | 75.0 | 73.7 | 50.4 | 54.3 |
| 87.5° | 14.2 | 14.2 | 14.2 | 12.9 | 11.6 | 10.3 | 14.2 | 23.3 | 33.6 | 23.3 | 22.0 |
| 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)