

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: P635980

Luminaire Tested: GWS-SA3E-830-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635980
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-SA3E-830-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18091.6 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

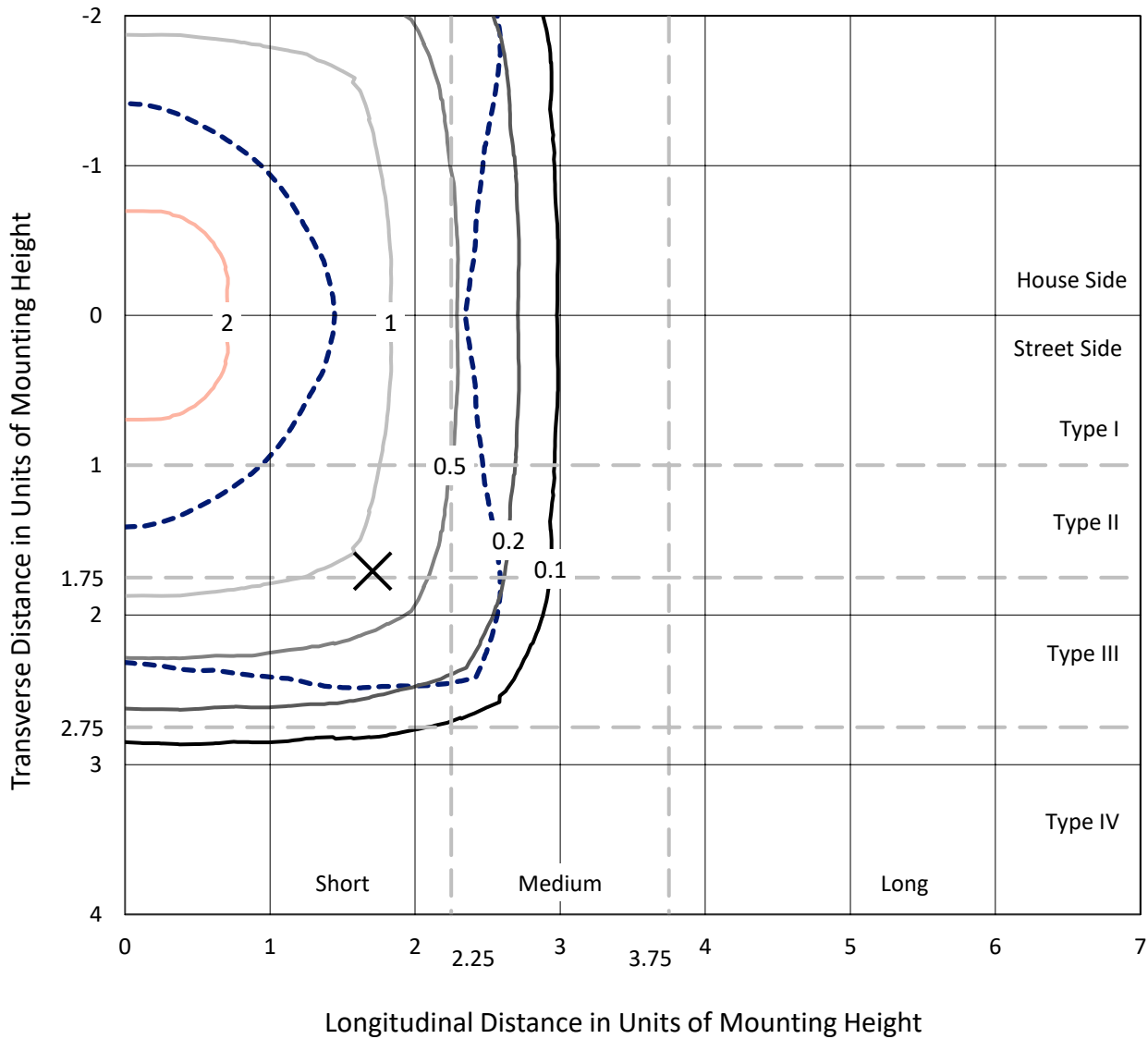
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

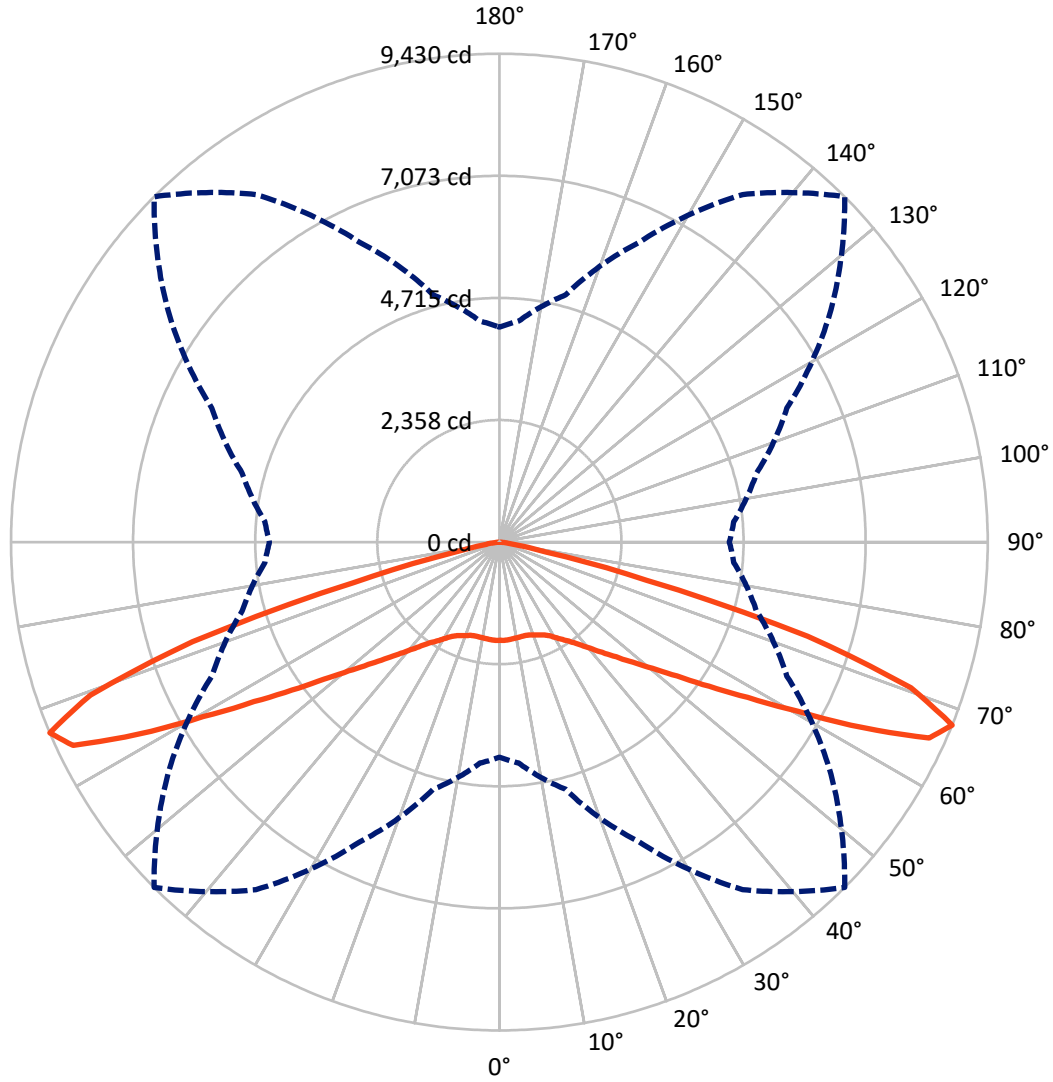
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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 | 9045.8 | 0.0 | 9045.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9045.8 | 0.0 | 9045.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18091.6 | 0.0 | 18091.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 179.3 | 1.0 |
| 10°-20° | 526.7 | 2.9 |
| 20°-30° | 908.4 | 5.0 |
| 30°-40° | 1477.2 | 8.2 |
| 40°-50° | 2487.2 | 13.7 |
| 50°-60° | 4406.9 | 24.4 |
| 60°-70° | 6299.4 | 34.8 |
| 70°-80° | 1728.9 | 9.6 |
| 80°-90° | 77.5 | 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° | 18091.6 | 100.0 |
| 0°-180° | 18091.6 | 100.0 |

Coefficient of Utilization



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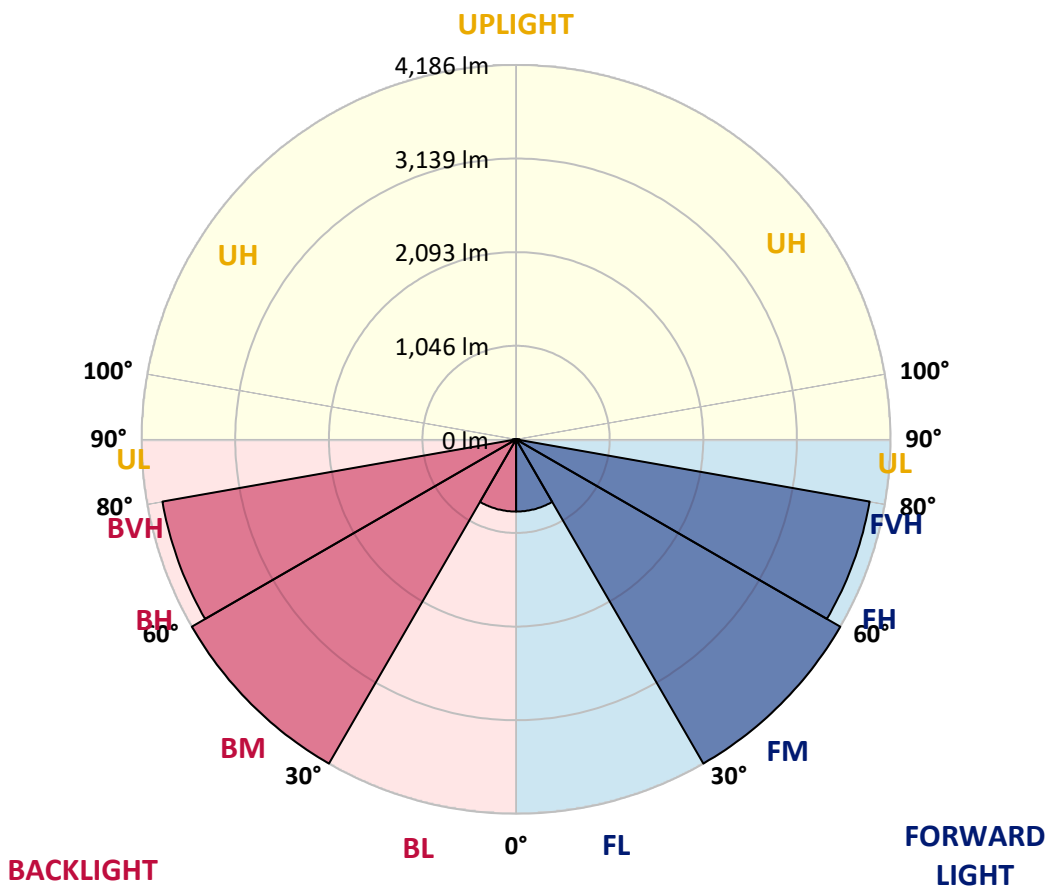
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 807.2 | 4.5 | | | |
| FM (30°-60°) | 4185.7 | 23.1 | | | |
| FH (60°-80°) | 4014.2 | 22.2 | | | G2/5000 |
| FVH (80°-90°) | 38.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 807.2 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 4185.7 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 4014.2 | 22.2 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 38.7 | 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° | 1894.8 | 1894.8 | 1894.8 | 1894.8 | 1894.8 | 1894.8 | 1894.8 | 1894.8 | 1894.8 | 1894.8 | 1894.8 |
| 2.5° | 1882.3 | 1881.0 | 1887.3 | 1891.0 | 1889.8 | 1898.5 | 1897.3 | 1894.8 | 1894.8 | 1891.0 | 1901.0 |
| 5° | 1882.3 | 1881.0 | 1886.0 | 1887.3 | 1884.8 | 1892.3 | 1889.8 | 1887.3 | 1887.3 | 1882.3 | 1891.0 |
| 7.5° | 1872.2 | 1873.5 | 1877.2 | 1879.7 | 1877.2 | 1883.5 | 1879.7 | 1874.7 | 1873.5 | 1868.5 | 1877.2 |
| 10° | 1853.4 | 1854.7 | 1858.5 | 1864.7 | 1866.0 | 1877.2 | 1871.0 | 1862.2 | 1858.5 | 1853.4 | 1862.2 |
| 12.5° | 1842.2 | 1843.4 | 1847.2 | 1854.7 | 1857.2 | 1872.2 | 1866.0 | 1852.2 | 1845.9 | 1840.9 | 1849.7 |
| 15° | 1839.7 | 1840.9 | 1845.9 | 1853.4 | 1857.2 | 1872.2 | 1866.0 | 1849.7 | 1840.9 | 1834.7 | 1842.2 |
| 17.5° | 1839.7 | 1842.2 | 1849.7 | 1861.0 | 1868.5 | 1883.5 | 1876.0 | 1857.2 | 1844.7 | 1833.4 | 1840.9 |
| 20° | 1840.9 | 1844.7 | 1856.0 | 1872.2 | 1891.0 | 1912.3 | 1902.3 | 1877.2 | 1859.7 | 1845.9 | 1850.9 |
| 22.5° | 1852.2 | 1858.5 | 1872.2 | 1893.5 | 1921.1 | 1946.1 | 1937.4 | 1903.5 | 1878.5 | 1859.7 | 1864.7 |
| 25° | 1891.0 | 1893.5 | 1911.1 | 1938.6 | 1964.9 | 1986.2 | 1977.4 | 1946.1 | 1914.8 | 1892.3 | 1898.5 |
| 27.5° | 1959.9 | 1966.2 | 1981.2 | 2010.0 | 2032.5 | 2043.8 | 2042.6 | 2021.3 | 1990.0 | 1969.9 | 1974.9 |
| 30° | 2042.6 | 2048.8 | 2068.9 | 2101.4 | 2124.0 | 2136.5 | 2132.7 | 2116.4 | 2087.6 | 2060.1 | 2065.1 |
| 32.5° | 2139.0 | 2141.5 | 2165.3 | 2201.6 | 2225.4 | 2244.2 | 2231.7 | 2214.1 | 2177.8 | 2145.2 | 2147.7 |
| 35° | 2261.7 | 2265.5 | 2290.5 | 2324.3 | 2343.1 | 2358.1 | 2355.6 | 2338.1 | 2299.3 | 2264.2 | 2273.0 |
| 37.5° | 2415.7 | 2418.3 | 2440.8 | 2483.4 | 2498.4 | 2509.7 | 2512.2 | 2503.4 | 2463.3 | 2418.3 | 2427.0 |
| 40° | 2607.4 | 2608.6 | 2633.7 | 2671.2 | 2687.5 | 2695.0 | 2696.3 | 2697.5 | 2656.2 | 2622.4 | 2619.9 |
| 42.5° | 2830.3 | 2836.5 | 2871.6 | 2907.9 | 2915.4 | 2911.7 | 2924.2 | 2936.7 | 2896.6 | 2850.3 | 2854.1 |
| 45° | 3097.0 | 3100.8 | 3148.4 | 3188.4 | 3174.7 | 3162.1 | 3185.9 | 3211.0 | 3174.7 | 3114.5 | 3097.0 |
| 47.5° | 3412.6 | 3420.1 | 3471.5 | 3511.5 | 3489.0 | 3466.5 | 3505.3 | 3531.6 | 3472.7 | 3408.8 | 3392.6 |
| 50° | 3769.5 | 3774.5 | 3847.2 | 3897.3 | 3871.0 | 3829.6 | 3878.5 | 3906.0 | 3827.1 | 3748.2 | 3713.2 |
| 52.5° | 4191.6 | 4181.5 | 4278.0 | 4365.6 | 4349.3 | 4295.5 | 4335.6 | 4340.6 | 4222.9 | 4111.4 | 4076.3 |
| 55° | 4706.3 | 4696.2 | 4792.7 | 4889.1 | 4929.2 | 4915.4 | 4896.6 | 4866.6 | 4692.5 | 4573.5 | 4541.0 |
| 57.5° | 5306.1 | 5274.8 | 5410.1 | 5540.3 | 5628.0 | 5653.0 | 5572.9 | 5502.7 | 5365.0 | 5218.5 | 5180.9 |
| 60° | 5863.4 | 5862.2 | 6076.3 | 6301.7 | 6542.2 | 6642.4 | 6439.5 | 6249.1 | 5939.8 | 5673.1 | 5619.2 |
| 62.5° | 6020.0 | 6046.3 | 6396.9 | 6955.4 | 7549.0 | 7903.5 | 7368.7 | 6738.8 | 6141.4 | 5739.4 | 5668.0 |
| 65° | 5634.2 | 5699.4 | 6197.8 | 7079.4 | 8251.6 | 9118.2 | 7911.0 | 6750.1 | 5917.3 | 5416.3 | 5341.2 |
| 67.5° | 4152.7 | 4283.0 | 4942.9 | 6388.1 | 8191.5 | 9430.1 | 7814.5 | 6125.1 | 5139.6 | 4543.5 | 4439.5 |
| 70° | 2048.8 | 2172.8 | 2696.3 | 4202.8 | 6740.0 | 8429.4 | 6761.3 | 4616.1 | 3471.5 | 2897.9 | 2802.7 |
| 72.5° | 753.9 | 804.0 | 1009.4 | 1798.3 | 3719.4 | 6226.6 | 4623.6 | 2578.5 | 1681.9 | 1338.7 | 1274.9 |
| 75° | 369.4 | 378.2 | 409.5 | 603.6 | 1372.6 | 2930.5 | 2172.8 | 989.3 | 618.7 | 538.5 | 521.0 |
| 77.5° | 235.4 | 239.2 | 254.2 | 288.0 | 440.8 | 923.0 | 658.7 | 390.7 | 303.1 | 290.5 | 290.5 |
| 80° | 131.5 | 135.3 | 155.3 | 179.1 | 206.6 | 316.8 | 236.7 | 234.2 | 199.1 | 174.1 | 170.3 |
| 82.5° | 62.6 | 68.9 | 98.9 | 97.7 | 109.0 | 159.0 | 139.0 | 126.5 | 127.7 | 96.4 | 91.4 |
| 85° | 28.8 | 28.8 | 38.8 | 46.3 | 48.8 | 53.9 | 63.9 | 72.6 | 71.4 | 48.8 | 52.6 |
| 87.5° | 13.8 | 13.8 | 13.8 | 12.5 | 11.3 | 10.0 | 13.8 | 22.5 | 32.6 | 22.5 | 21.3 |
| 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)