

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: P636475

Luminaire Tested: GWS-SA3F-830-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636475
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-SA3F-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: 20114.6 lumens
Efficiency: N/A
Efficacy: 109.8 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

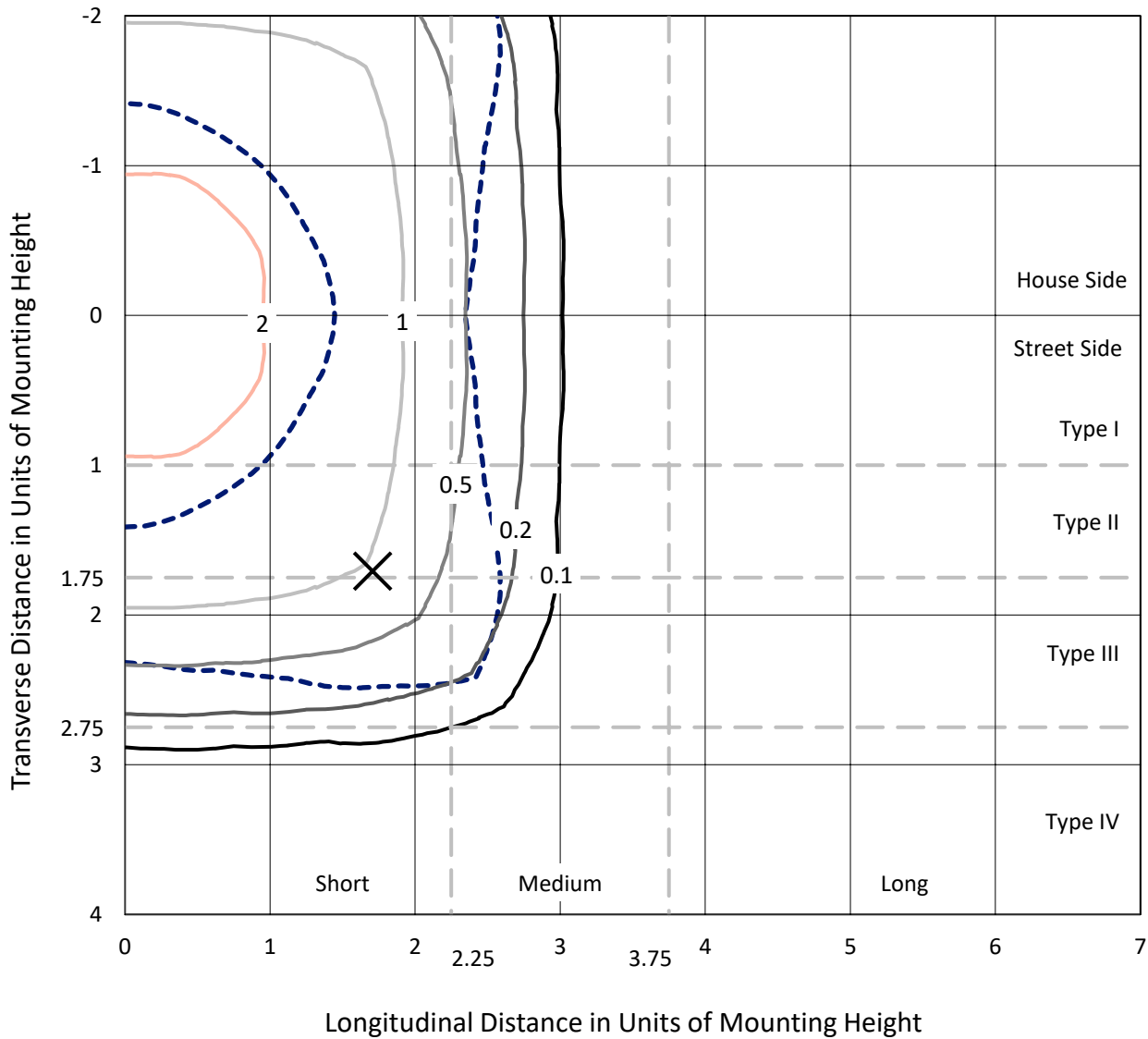
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

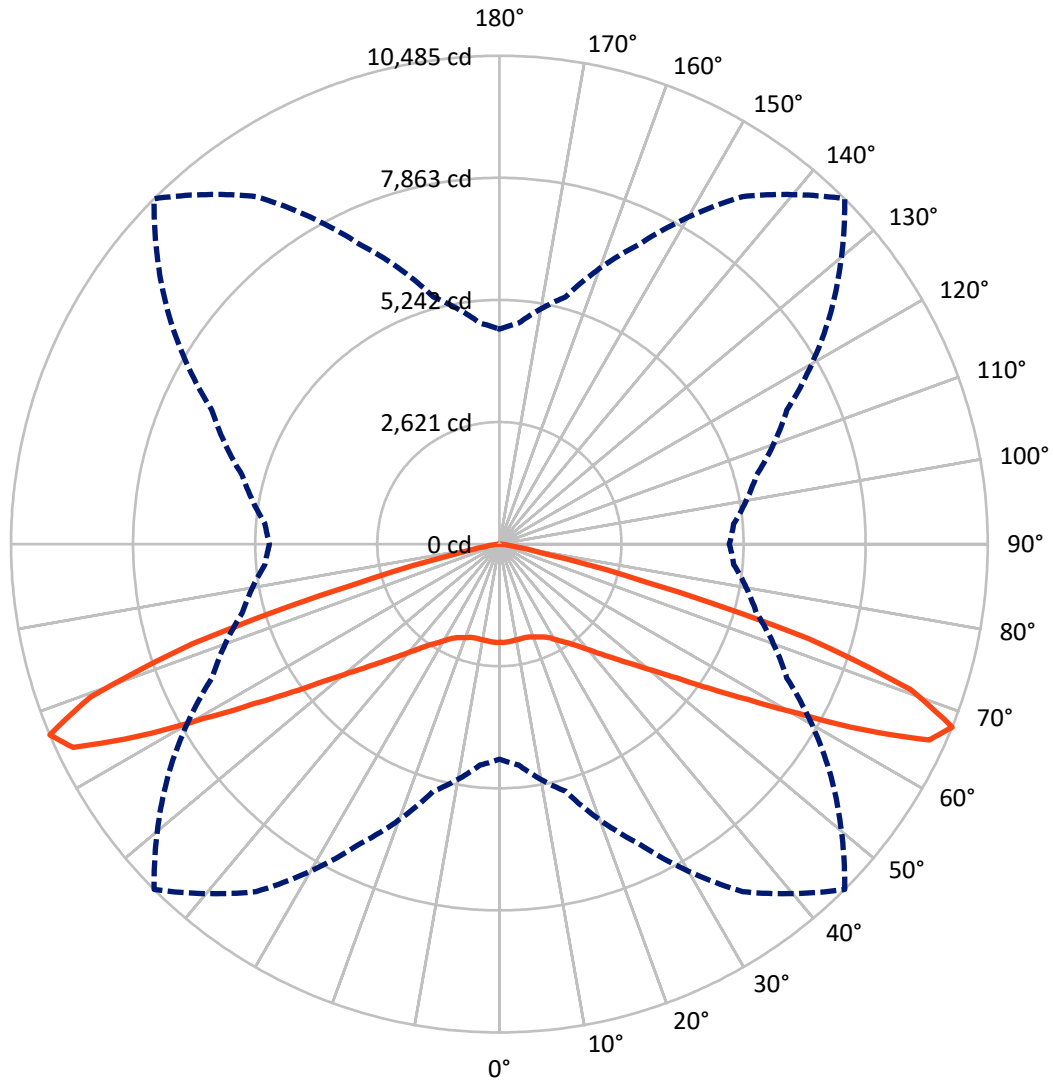
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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 | 10057.3 | 0.0 | 10057.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10057.3 | 0.0 | 10057.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 20114.6 | 0.0 | 20114.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 199.4 | 1.0 |
| 10°-20° | 585.6 | 2.9 |
| 20°-30° | 1010.0 | 5.0 |
| 30°-40° | 1642.3 | 8.2 |
| 40°-50° | 2765.4 | 13.7 |
| 50°-60° | 4899.7 | 24.4 |
| 60°-70° | 7003.8 | 34.8 |
| 70°-80° | 1922.2 | 9.6 |
| 80°-90° | 86.1 | 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° | 20114.6 | 100.0 |
| 0°-180° | 20114.6 | 100.0 |

Coefficient of Utilization



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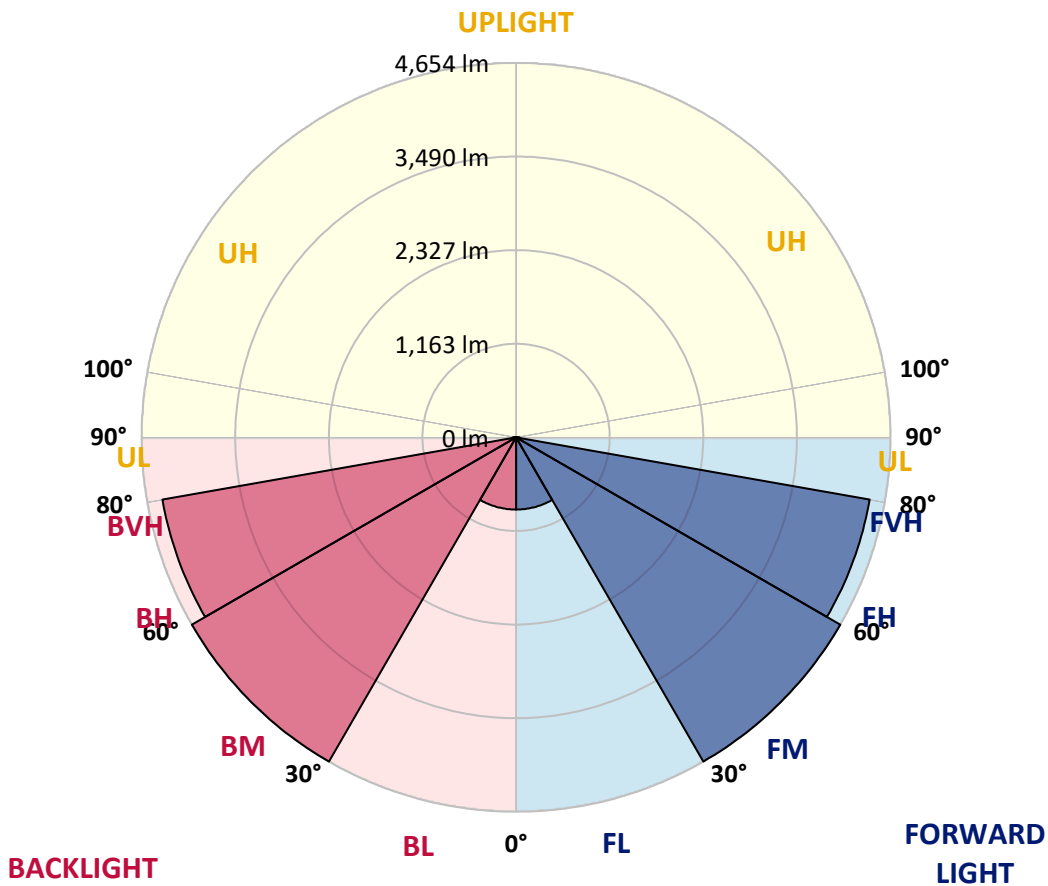
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 897.5 | 4.5 | | | |
| FM (30°-60°) | 4653.7 | 23.1 | | | |
| FH (60°-80°) | 4463.0 | 22.2 | | | G2/5000 |
| FVH (80°-90°) | 43.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 897.5 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 4653.7 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 4463.0 | 22.2 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 43.1 | 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° | 2106.6 | 2106.6 | 2106.6 | 2106.6 | 2106.6 | 2106.6 | 2106.6 | 2106.6 | 2106.6 | 2106.6 | 2106.6 |
| 2.5° | 2092.7 | 2091.3 | 2098.3 | 2102.5 | 2101.1 | 2110.8 | 2109.4 | 2106.6 | 2106.6 | 2102.5 | 2113.6 |
| 5° | 2092.7 | 2091.3 | 2096.9 | 2098.3 | 2095.5 | 2103.9 | 2101.1 | 2098.3 | 2098.3 | 2092.7 | 2102.5 |
| 7.5° | 2081.6 | 2083.0 | 2087.2 | 2089.9 | 2087.2 | 2094.1 | 2089.9 | 2084.4 | 2083.0 | 2077.4 | 2087.2 |
| 10° | 2060.7 | 2062.1 | 2066.3 | 2073.2 | 2074.6 | 2087.2 | 2080.2 | 2070.4 | 2066.3 | 2060.7 | 2070.4 |
| 12.5° | 2048.2 | 2049.6 | 2053.7 | 2062.1 | 2064.9 | 2081.6 | 2074.6 | 2059.3 | 2052.3 | 2046.8 | 2056.5 |
| 15° | 2045.4 | 2046.8 | 2052.3 | 2060.7 | 2064.9 | 2081.6 | 2074.6 | 2056.5 | 2046.8 | 2039.8 | 2048.2 |
| 17.5° | 2045.4 | 2048.2 | 2056.5 | 2069.1 | 2077.4 | 2094.1 | 2085.8 | 2064.9 | 2051.0 | 2038.4 | 2046.8 |
| 20° | 2046.8 | 2051.0 | 2063.5 | 2081.6 | 2102.5 | 2126.1 | 2115.0 | 2087.2 | 2067.7 | 2052.3 | 2057.9 |
| 22.5° | 2059.3 | 2066.3 | 2081.6 | 2105.3 | 2135.9 | 2163.7 | 2154.0 | 2116.4 | 2088.5 | 2067.7 | 2073.2 |
| 25° | 2102.5 | 2105.3 | 2124.8 | 2155.4 | 2184.6 | 2208.3 | 2198.5 | 2163.7 | 2128.9 | 2103.9 | 2110.8 |
| 27.5° | 2179.1 | 2186.0 | 2202.7 | 2234.7 | 2259.8 | 2272.3 | 2270.9 | 2247.3 | 2212.5 | 2190.2 | 2195.8 |
| 30° | 2270.9 | 2277.9 | 2300.2 | 2336.4 | 2361.5 | 2375.4 | 2371.2 | 2353.1 | 2321.1 | 2290.4 | 2296.0 |
| 32.5° | 2378.2 | 2380.9 | 2407.4 | 2447.8 | 2474.2 | 2495.1 | 2481.2 | 2461.7 | 2421.3 | 2385.1 | 2387.9 |
| 35° | 2514.6 | 2518.8 | 2546.6 | 2584.2 | 2605.1 | 2621.8 | 2619.0 | 2599.5 | 2556.4 | 2517.4 | 2527.1 |
| 37.5° | 2685.9 | 2688.7 | 2713.7 | 2761.1 | 2777.8 | 2790.3 | 2793.1 | 2783.3 | 2738.8 | 2688.7 | 2698.4 |
| 40° | 2898.9 | 2900.3 | 2928.1 | 2969.9 | 2988.0 | 2996.4 | 2997.8 | 2999.2 | 2953.2 | 2915.6 | 2912.8 |
| 42.5° | 3146.7 | 3153.7 | 3192.7 | 3233.1 | 3241.4 | 3237.3 | 3251.2 | 3265.1 | 3220.5 | 3169.0 | 3173.2 |
| 45° | 3443.3 | 3447.5 | 3500.4 | 3545.0 | 3529.6 | 3515.7 | 3542.2 | 3570.0 | 3529.6 | 3462.8 | 3443.3 |
| 47.5° | 3794.2 | 3802.6 | 3859.6 | 3904.2 | 3879.1 | 3854.1 | 3897.2 | 3926.5 | 3861.0 | 3790.0 | 3771.9 |
| 50° | 4191.0 | 4196.6 | 4277.3 | 4333.0 | 4303.8 | 4257.9 | 4312.2 | 4342.8 | 4255.1 | 4167.4 | 4128.4 |
| 52.5° | 4660.2 | 4649.1 | 4756.3 | 4853.8 | 4835.7 | 4775.8 | 4820.4 | 4825.9 | 4695.1 | 4571.1 | 4532.2 |
| 55° | 5232.5 | 5221.4 | 5328.6 | 5435.8 | 5480.4 | 5465.0 | 5444.2 | 5410.7 | 5217.2 | 5084.9 | 5048.7 |
| 57.5° | 5899.5 | 5864.6 | 6015.0 | 6159.8 | 6257.3 | 6285.1 | 6196.0 | 6118.1 | 5964.9 | 5802.0 | 5760.2 |
| 60° | 6519.1 | 6517.7 | 6755.8 | 7006.4 | 7273.7 | 7385.1 | 7159.5 | 6947.9 | 6604.0 | 6307.4 | 6247.5 |
| 62.5° | 6693.1 | 6722.3 | 7112.2 | 7733.2 | 8393.2 | 8787.2 | 8192.7 | 7492.3 | 6828.2 | 6381.2 | 6301.8 |
| 65° | 6264.3 | 6336.7 | 6890.8 | 7871.0 | 9174.3 | 10137.8 | 8795.6 | 7504.9 | 6578.9 | 6022.0 | 5938.4 |
| 67.5° | 4617.1 | 4761.9 | 5495.7 | 7102.5 | 9107.5 | 10484.5 | 8688.4 | 6810.1 | 5714.3 | 5051.5 | 4935.9 |
| 70° | 2277.9 | 2415.8 | 2997.8 | 4672.8 | 7493.7 | 9372.0 | 7517.4 | 5132.3 | 3859.6 | 3221.9 | 3116.1 |
| 72.5° | 838.2 | 893.9 | 1122.2 | 1999.4 | 4135.3 | 6922.8 | 5140.6 | 2866.9 | 1869.9 | 1488.4 | 1417.4 |
| 75° | 410.7 | 420.5 | 455.3 | 671.1 | 1526.0 | 3258.1 | 2415.8 | 1100.0 | 687.8 | 598.7 | 579.2 |
| 77.5° | 261.8 | 265.9 | 282.7 | 320.2 | 490.1 | 1026.2 | 732.4 | 434.4 | 337.0 | 323.0 | 323.0 |
| 80° | 146.2 | 150.4 | 172.7 | 199.1 | 229.7 | 352.3 | 263.2 | 260.4 | 221.4 | 193.5 | 189.4 |
| 82.5° | 69.6 | 76.6 | 110.0 | 108.6 | 121.1 | 176.8 | 154.6 | 140.6 | 142.0 | 107.2 | 101.6 |
| 85° | 32.0 | 32.0 | 43.2 | 51.5 | 54.3 | 59.9 | 71.0 | 80.8 | 79.4 | 54.3 | 58.5 |
| 87.5° | 15.3 | 15.3 | 15.3 | 13.9 | 12.5 | 11.1 | 15.3 | 25.1 | 36.2 | 25.1 | 23.7 |
| 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)