

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: P633560

Luminaire Tested: GWS-SA2F-722-U-5MQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633560  
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-SA2F-722-U-5MQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

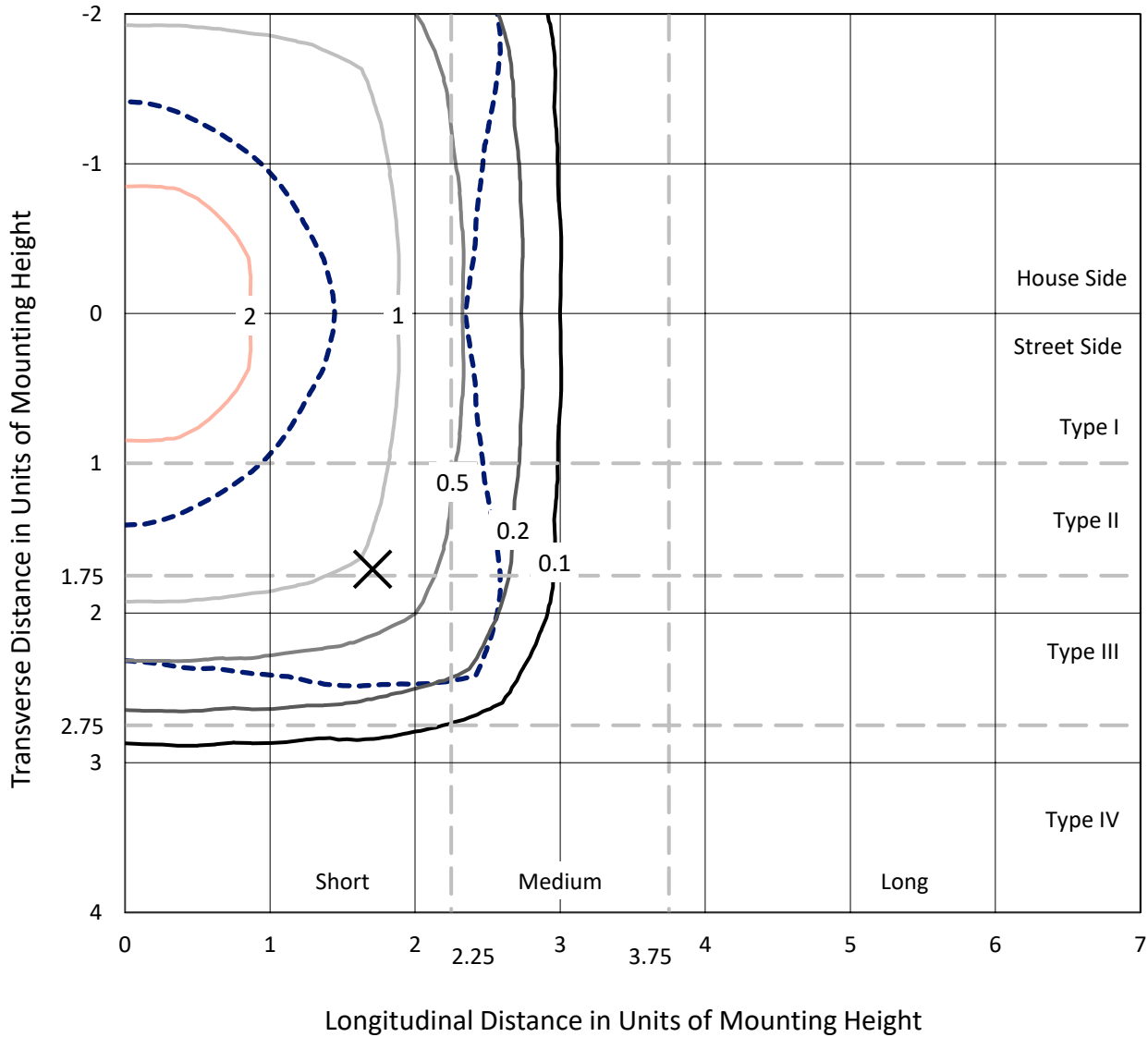
Lumens per Lamp: N/A  
Luminaire Lumens: 12374.8 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

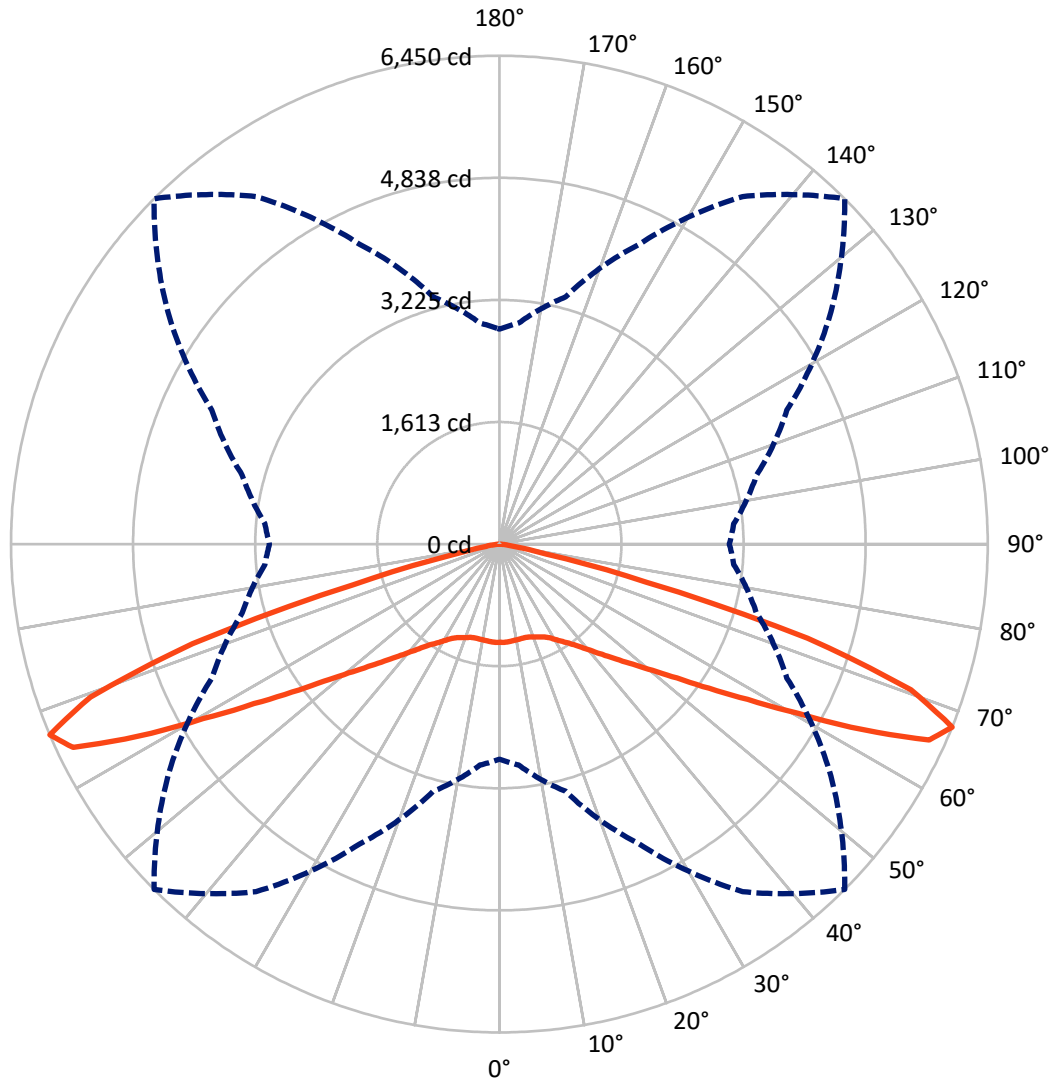
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6187.4   | 0.0    | 6187.4  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6187.4   | 0.0    | 6187.4  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12374.8  | 0.0    | 12374.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 122.7   | 1.0       |
| 10°-20°   | 360.3   | 2.9       |
| 20°-30°   | 621.4   | 5.0       |
| 30°-40°   | 1010.4  | 8.2       |
| 40°-50°   | 1701.3  | 13.7      |
| 50°-60°   | 3014.4  | 24.4      |
| 60°-70°   | 4308.8  | 34.8      |
| 70°-80°   | 1182.6  | 9.6       |
| 80°-90°   | 53.0    | 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°    | 12374.8 | 100.0     |
| 0°-180°   | 12374.8 | 100.0     |

**Coefficient of Utilization**



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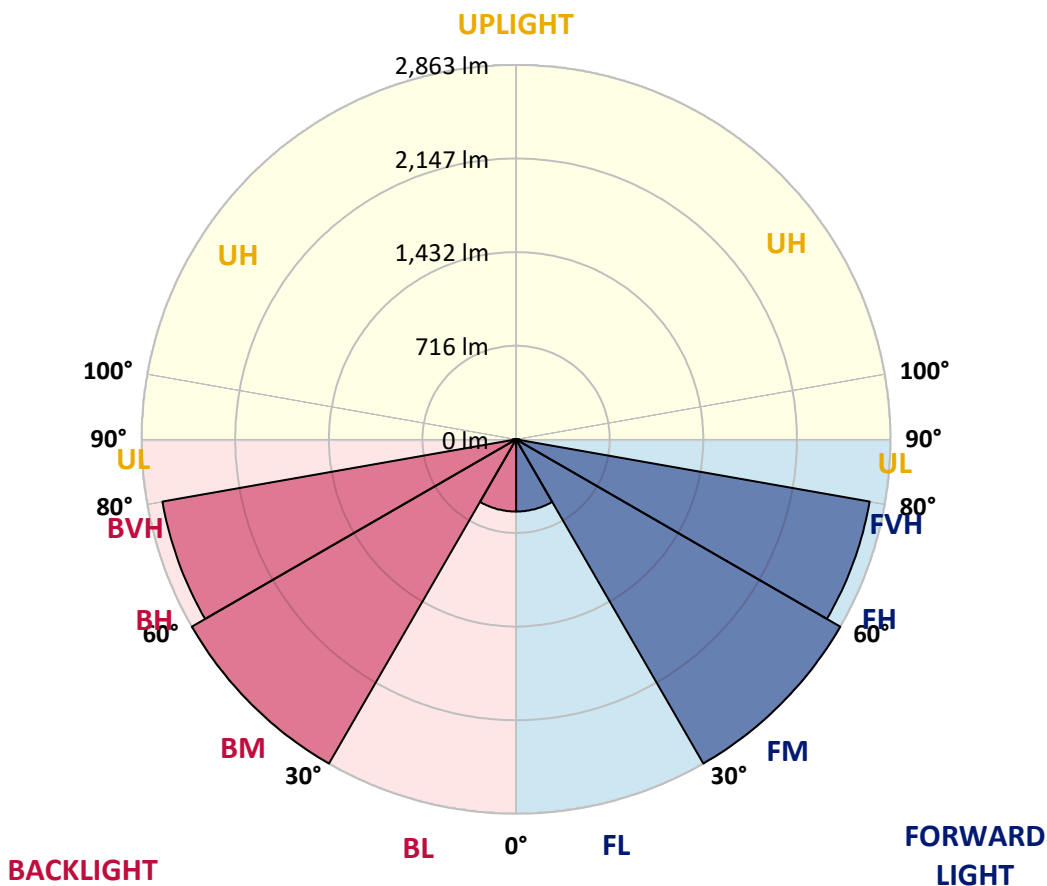
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 552.2  | 4.5       |                         |      |         |
| FM (30°-60°)   | 2863.0 | 23.1      |                         |      |         |
| FH (60°-80°)   | 2745.7 | 22.2      |                         |      | G2/5000 |
| FVH (80°-90°)  | 26.5   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 552.2  | 4.5       | B2/1000                 |      |         |
| BM (30°-60°)   | 2863.0 | 23.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 2745.7 | 22.2      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 26.5   | 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°    | 1296.0 | 1296.0 | 1296.0 | 1296.0 | 1296.0 | 1296.0 | 1296.0 | 1296.0 | 1296.0 | 1296.0 | 1296.0 |
| 2.5°  | 1287.5 | 1286.6 | 1290.9 | 1293.5 | 1292.6 | 1298.6 | 1297.8 | 1296.0 | 1296.0 | 1293.5 | 1300.3 |
| 5°    | 1287.5 | 1286.6 | 1290.0 | 1290.9 | 1289.2 | 1294.3 | 1292.6 | 1290.9 | 1290.9 | 1287.5 | 1293.5 |
| 7.5°  | 1280.6 | 1281.5 | 1284.0 | 1285.8 | 1284.0 | 1288.3 | 1285.8 | 1282.3 | 1281.5 | 1278.1 | 1284.0 |
| 10°   | 1267.8 | 1268.6 | 1271.2 | 1275.5 | 1276.3 | 1284.0 | 1279.8 | 1273.8 | 1271.2 | 1267.8 | 1273.8 |
| 12.5° | 1260.1 | 1260.9 | 1263.5 | 1268.6 | 1270.3 | 1280.6 | 1276.3 | 1266.9 | 1262.6 | 1259.2 | 1265.2 |
| 15°   | 1258.4 | 1259.2 | 1262.6 | 1267.8 | 1270.3 | 1280.6 | 1276.3 | 1265.2 | 1259.2 | 1254.9 | 1260.1 |
| 17.5° | 1258.4 | 1260.1 | 1265.2 | 1272.9 | 1278.1 | 1288.3 | 1283.2 | 1270.3 | 1261.8 | 1254.1 | 1259.2 |
| 20°   | 1259.2 | 1261.8 | 1269.5 | 1280.6 | 1293.5 | 1308.0 | 1301.2 | 1284.0 | 1272.1 | 1262.6 | 1266.1 |
| 22.5° | 1266.9 | 1271.2 | 1280.6 | 1295.2 | 1314.0 | 1331.2 | 1325.2 | 1302.0 | 1284.9 | 1272.1 | 1275.5 |
| 25°   | 1293.5 | 1295.2 | 1307.2 | 1326.0 | 1344.0 | 1358.6 | 1352.6 | 1331.2 | 1309.7 | 1294.3 | 1298.6 |
| 27.5° | 1340.6 | 1344.9 | 1355.1 | 1374.8 | 1390.3 | 1398.0 | 1397.1 | 1382.6 | 1361.1 | 1347.4 | 1350.9 |
| 30°   | 1397.1 | 1401.4 | 1415.1 | 1437.4 | 1452.8 | 1461.4 | 1458.8 | 1447.7 | 1428.0 | 1409.1 | 1412.5 |
| 32.5° | 1463.1 | 1464.8 | 1481.1 | 1505.9 | 1522.2 | 1535.0 | 1526.5 | 1514.5 | 1489.6 | 1467.4 | 1469.1 |
| 35°   | 1547.0 | 1549.6 | 1566.7 | 1589.9 | 1602.7 | 1613.0 | 1611.3 | 1599.3 | 1572.7 | 1548.7 | 1554.7 |
| 37.5° | 1652.4 | 1654.1 | 1669.5 | 1698.6 | 1708.9 | 1716.6 | 1718.3 | 1712.4 | 1684.9 | 1654.1 | 1660.1 |
| 40°   | 1783.5 | 1784.3 | 1801.4 | 1827.1 | 1838.3 | 1843.4 | 1844.3 | 1845.1 | 1816.9 | 1793.7 | 1792.0 |
| 42.5° | 1935.9 | 1940.2 | 1964.2 | 1989.0 | 1994.2 | 1991.6 | 2000.2 | 2008.7 | 1981.3 | 1949.6 | 1952.2 |
| 45°   | 2118.4 | 2121.0 | 2153.5 | 2180.9 | 2171.5 | 2162.9 | 2179.2 | 2196.3 | 2171.5 | 2130.4 | 2118.4 |
| 47.5° | 2334.2 | 2339.4 | 2374.5 | 2401.9 | 2386.5 | 2371.1 | 2397.6 | 2415.6 | 2375.4 | 2331.7 | 2320.5 |
| 50°   | 2578.4 | 2581.8 | 2631.5 | 2665.8 | 2647.8 | 2619.5 | 2652.9 | 2671.7 | 2617.8 | 2563.8 | 2539.8 |
| 52.5° | 2867.1 | 2860.2 | 2926.2 | 2986.1 | 2975.0 | 2938.2 | 2965.6 | 2969.0 | 2888.5 | 2812.2 | 2788.2 |
| 55°   | 3219.1 | 3212.3 | 3278.2 | 3344.2 | 3371.6 | 3362.2 | 3349.3 | 3328.8 | 3209.7 | 3128.3 | 3106.0 |
| 57.5° | 3629.4 | 3608.0 | 3700.5 | 3789.6 | 3849.6 | 3866.7 | 3811.9 | 3763.9 | 3669.7 | 3569.5 | 3543.8 |
| 60°   | 4010.6 | 4009.8 | 4156.2 | 4310.4 | 4474.9 | 4543.4 | 4404.7 | 4274.5 | 4062.9 | 3880.4 | 3843.6 |
| 62.5° | 4117.7 | 4135.7 | 4375.5 | 4757.6 | 5163.6 | 5406.0 | 5040.3 | 4609.4 | 4200.8 | 3925.8 | 3877.0 |
| 65°   | 3853.9 | 3898.4 | 4239.3 | 4842.4 | 5644.2 | 6236.9 | 5411.2 | 4617.1 | 4047.5 | 3704.8 | 3653.4 |
| 67.5° | 2840.5 | 2929.6 | 3381.0 | 4369.5 | 5603.0 | 6450.2 | 5345.2 | 4189.7 | 3515.5 | 3107.8 | 3036.7 |
| 70°   | 1401.4 | 1486.2 | 1844.3 | 2874.8 | 4610.2 | 5765.8 | 4624.8 | 3157.4 | 2374.5 | 1982.2 | 1917.1 |
| 72.5° | 515.7  | 549.9  | 690.4  | 1230.1 | 2544.1 | 4259.0 | 3162.6 | 1763.7 | 1150.4 | 915.7  | 872.0  |
| 75°   | 252.7  | 258.7  | 280.1  | 412.9  | 938.8  | 2004.5 | 1486.2 | 676.7  | 423.2  | 368.3  | 356.3  |
| 77.5° | 161.0  | 163.6  | 173.9  | 197.0  | 301.5  | 631.3  | 450.6  | 267.3  | 207.3  | 198.7  | 198.7  |
| 80°   | 89.9   | 92.5   | 106.2  | 122.5  | 141.3  | 216.7  | 161.9  | 160.2  | 136.2  | 119.1  | 116.5  |
| 82.5° | 42.8   | 47.1   | 67.7   | 66.8   | 74.5   | 108.8  | 95.1   | 86.5   | 87.4   | 66.0   | 62.5   |
| 85°   | 19.7   | 19.7   | 26.6   | 31.7   | 33.4   | 36.8   | 43.7   | 49.7   | 48.8   | 33.4   | 36.0   |
| 87.5° | 9.4    | 9.4    | 9.4    | 8.6    | 7.7    | 6.9    | 9.4    | 15.4   | 22.3   | 15.4   | 14.6   |
| 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)