

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: P643239

Luminaire Tested: GWS-SA6E-750-U-5MQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643239  
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-SAGE-750-U-5MQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40093.4 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 323.8  
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

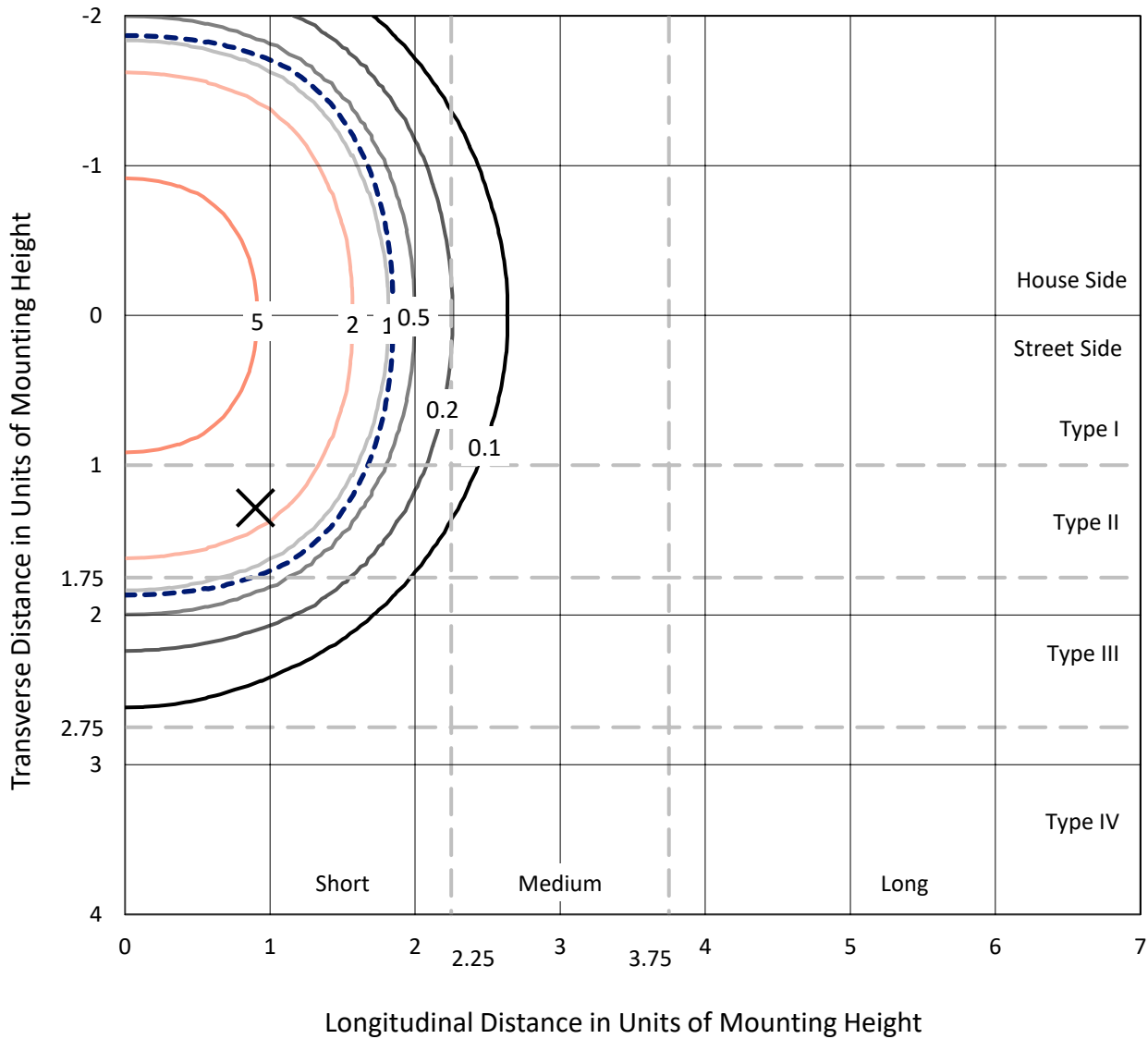


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### Iso-Footcandle Lines of Horizontal Illumination

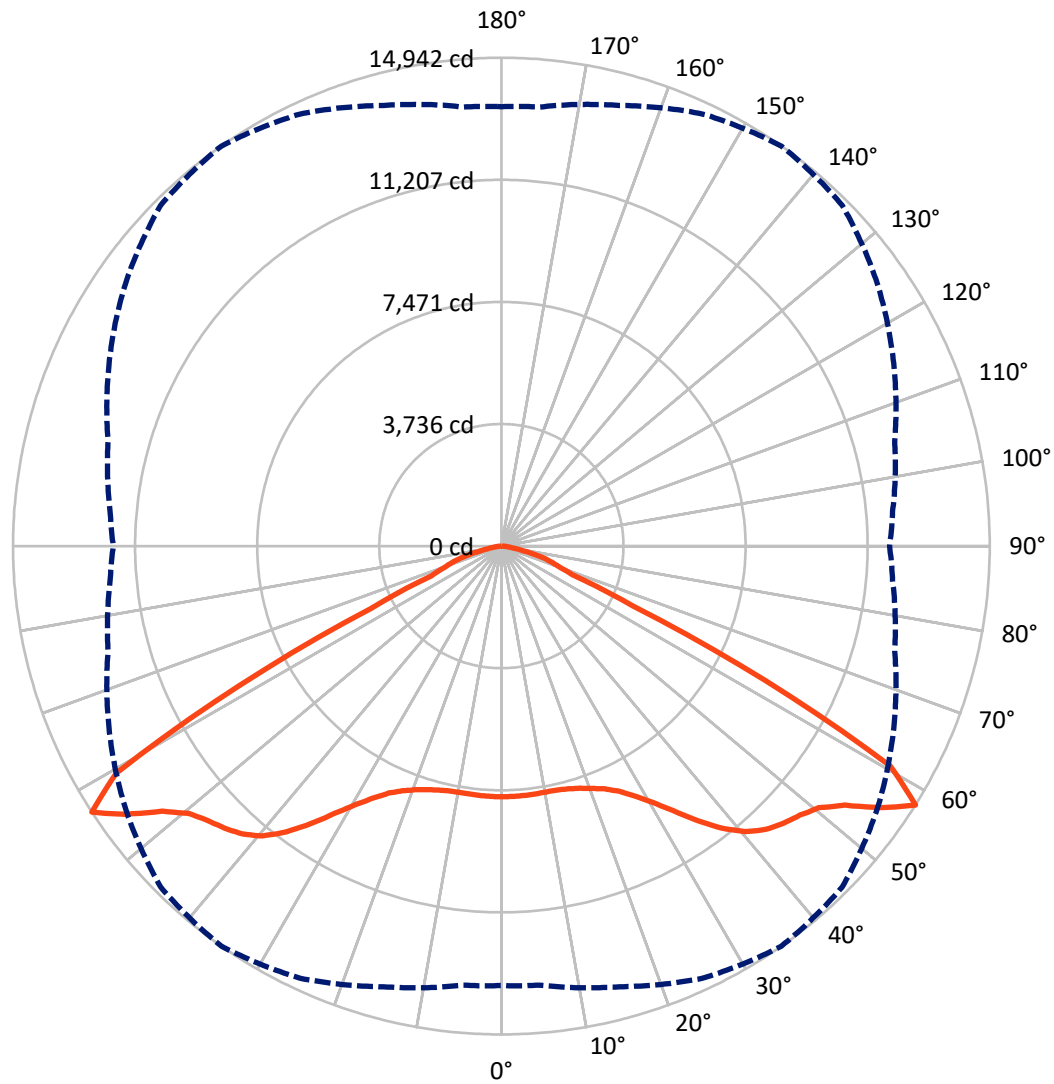
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 20046.7  | 0.0    | 20046.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 20046.7  | 0.0    | 20046.7 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 40093.4  | 0.0    | 40093.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 729.8   | 1.8       |
| 10°-20°   | 2177.4  | 5.4       |
| 20°-30°   | 3799.1  | 9.5       |
| 30°-40°   | 6229.7  | 15.5      |
| 40°-50°   | 9174.9  | 22.9      |
| 50°-60°   | 11708.8 | 29.2      |
| 60°-70°   | 4934.6  | 12.3      |
| 70°-80°   | 1178.8  | 2.9       |
| 80°-90°   | 160.4   | 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°    | 40093.4 | 100.0     |
| 0°-180°   | 40093.4 | 100.0     |

**Coefficient of Utilization**



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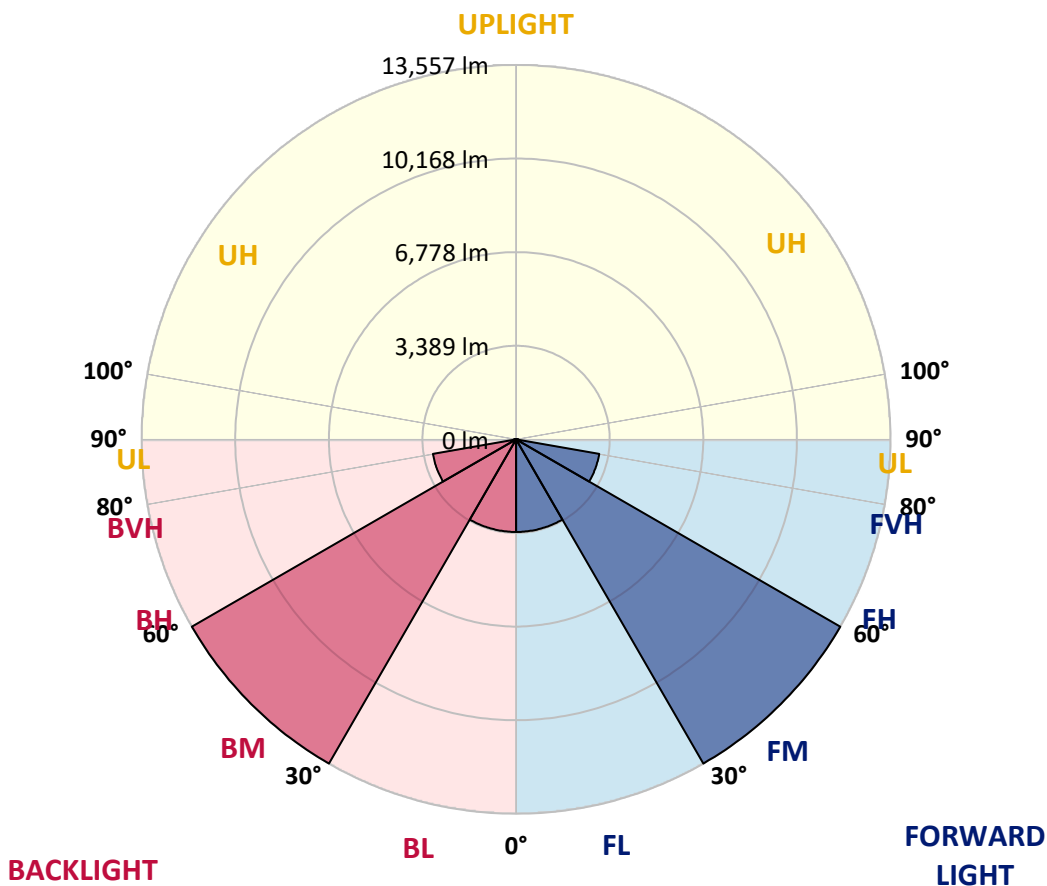
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3353.1  | 8.4       |                         |      |         |
| FM (30°-60°)   | 13556.7 | 33.8      |                         |      |         |
| FH (60°-80°)   | 3056.7  | 7.6       |                         |      | G2/5000 |
| FVH (80°-90°)  | 80.2    | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 3353.1  | 8.4       | B4/5000                 |      |         |
| BM (30°-60°)   | 13556.7 | 33.8      | B5                      |      |         |
| BH (60°-80°)   | 3056.7  | 7.6       | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 80.2    | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7671.4  | 7671.4  | 7671.4  | 7671.4  | 7671.4  | 7671.4  | 7671.4  | 7671.4  | 7671.4  | 7671.4  | 7671.4  |
| 2.5°  | 7625.5  | 7625.5  | 7641.9  | 7658.3  | 7664.8  | 7694.4  | 7691.1  | 7681.3  | 7674.7  | 7655.0  | 7681.3  |
| 5°    | 7641.9  | 7641.9  | 7655.0  | 7664.8  | 7661.6  | 7684.5  | 7674.7  | 7658.3  | 7648.4  | 7628.7  | 7658.3  |
| 7.5°  | 7638.6  | 7638.6  | 7648.4  | 7658.3  | 7651.7  | 7671.4  | 7655.0  | 7632.0  | 7615.6  | 7595.9  | 7622.2  |
| 10°   | 7595.9  | 7602.5  | 7612.3  | 7635.3  | 7645.2  | 7674.7  | 7651.7  | 7615.6  | 7589.3  | 7566.4  | 7592.6  |
| 12.5° | 7589.3  | 7595.9  | 7609.0  | 7638.6  | 7655.0  | 7697.7  | 7668.1  | 7609.0  | 7569.7  | 7540.1  | 7566.4  |
| 15°   | 7618.9  | 7625.5  | 7645.2  | 7681.3  | 7707.5  | 7753.5  | 7710.8  | 7628.7  | 7572.9  | 7533.5  | 7556.5  |
| 17.5° | 7655.0  | 7664.8  | 7694.4  | 7746.9  | 7789.6  | 7838.8  | 7786.3  | 7687.8  | 7609.0  | 7556.5  | 7576.2  |
| 20°   | 7694.4  | 7707.5  | 7753.5  | 7832.3  | 7911.0  | 7973.4  | 7907.8  | 7776.5  | 7681.3  | 7612.3  | 7632.0  |
| 22.5° | 7763.3  | 7779.7  | 7838.8  | 7950.4  | 8068.6  | 8160.5  | 8078.5  | 7901.2  | 7776.5  | 7687.8  | 7704.2  |
| 25°   | 7904.5  | 7924.2  | 7999.7  | 8134.3  | 8301.7  | 8413.3  | 8298.4  | 8098.1  | 7924.2  | 7815.8  | 7832.3  |
| 27.5° | 8154.0  | 8163.8  | 8262.3  | 8439.5  | 8646.3  | 8774.4  | 8636.5  | 8400.1  | 8206.5  | 8081.7  | 8094.9  |
| 30°   | 8482.2  | 8511.8  | 8610.2  | 8843.3  | 9089.5  | 9260.2  | 9079.6  | 8800.6  | 8577.4  | 8426.4  | 8439.5  |
| 32.5° | 8882.7  | 8902.4  | 9050.1  | 9293.0  | 9647.5  | 9844.5  | 9598.3  | 9266.8  | 8997.6  | 8813.8  | 8826.9  |
| 35°   | 9407.9  | 9424.3  | 9565.5  | 9874.0  | 10304.1 | 10487.9 | 10205.6 | 9824.8  | 9512.9  | 9339.0  | 9388.2  |
| 37.5° | 10034.9 | 10064.4 | 10166.2 | 10471.5 | 10950.7 | 11131.3 | 10806.3 | 10451.8 | 10126.8 | 9965.9  | 10002.1 |
| 40°   | 10707.8 | 10704.5 | 10786.6 | 11055.8 | 11492.3 | 11604.0 | 11311.8 | 11029.5 | 10750.5 | 10645.4 | 10704.5 |
| 42.5° | 11285.5 | 11269.1 | 11328.2 | 11551.4 | 11853.4 | 11863.3 | 11669.6 | 11512.0 | 11315.1 | 11242.9 | 11298.7 |
| 45°   | 11689.3 | 11695.9 | 11784.5 | 11938.8 | 12093.1 | 12011.0 | 11951.9 | 11925.7 | 11771.4 | 11672.9 | 11682.7 |
| 47.5° | 12007.7 | 12034.0 | 12175.1 | 12280.2 | 12299.9 | 12162.0 | 12244.1 | 12283.5 | 12155.4 | 12004.4 | 11961.8 |
| 50°   | 12290.0 | 12332.7 | 12516.5 | 12628.1 | 12585.5 | 12411.5 | 12572.3 | 12631.4 | 12349.1 | 12060.2 | 11974.9 |
| 52.5° | 12802.1 | 12851.3 | 13074.6 | 13219.0 | 13169.8 | 12995.8 | 13146.8 | 12936.7 | 12460.7 | 12106.2 | 11997.9 |
| 55°   | 13619.5 | 13642.4 | 13914.9 | 14151.2 | 14128.3 | 13914.9 | 13793.4 | 13327.3 | 12749.6 | 12381.9 | 12280.2 |
| 57.5° | 13445.5 | 13484.9 | 13957.6 | 14587.8 | 14942.4 | 14748.7 | 14036.4 | 13242.0 | 12457.4 | 12014.3 | 11876.4 |
| 60°   | 10579.8 | 10675.0 | 11262.6 | 12372.1 | 13672.0 | 13668.7 | 12345.8 | 11111.6 | 10166.2 | 9578.6  | 9519.5  |
| 62.5° | 6177.8  | 6243.5  | 6778.5  | 7901.2  | 9066.5  | 9138.7  | 8209.8  | 7362.8  | 6535.6  | 6138.4  | 5948.1  |
| 65°   | 2924.8  | 2921.5  | 3134.9  | 3640.4  | 4428.2  | 4490.6  | 4211.6  | 3748.7  | 3259.6  | 3125.0  | 3088.9  |
| 67.5° | 2159.9  | 2159.9  | 2143.5  | 2179.6  | 2330.6  | 2363.5  | 2330.6  | 2255.1  | 2209.2  | 2238.7  | 2219.0  |
| 70°   | 1874.4  | 1877.6  | 1857.9  | 1848.1  | 1848.1  | 1838.3  | 1851.4  | 1880.9  | 1900.6  | 1940.0  | 1920.3  |
| 72.5° | 1519.8  | 1523.1  | 1523.1  | 1526.4  | 1529.7  | 1516.6  | 1536.3  | 1552.7  | 1555.9  | 1569.1  | 1555.9  |
| 75°   | 1080.0  | 1086.5  | 1106.2  | 1122.6  | 1135.8  | 1135.8  | 1142.3  | 1145.6  | 1132.5  | 1148.9  | 1122.6  |
| 77.5° | 594.1   | 600.7   | 636.8   | 666.4   | 695.9   | 699.2   | 709.0   | 715.6   | 709.0   | 722.2   | 702.5   |
| 80°   | 328.3   | 334.8   | 351.2   | 364.4   | 387.3   | 407.0   | 420.2   | 426.7   | 426.7   | 436.6   | 426.7   |
| 82.5° | 187.1   | 193.7   | 203.5   | 210.1   | 229.8   | 246.2   | 259.3   | 269.2   | 269.2   | 272.5   | 265.9   |
| 85°   | 88.6    | 88.6    | 95.2    | 101.8   | 111.6   | 118.2   | 134.6   | 144.4   | 144.4   | 151.0   | 144.4   |
| 87.5° | 13.1    | 16.4    | 19.7    | 19.7    | 26.3    | 32.8    | 39.4    | 42.7    | 49.2    | 52.5    | 52.5    |
| 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)