

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: P641265

Luminaire Tested: GWS-SA5F-750-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-750-U-5WQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

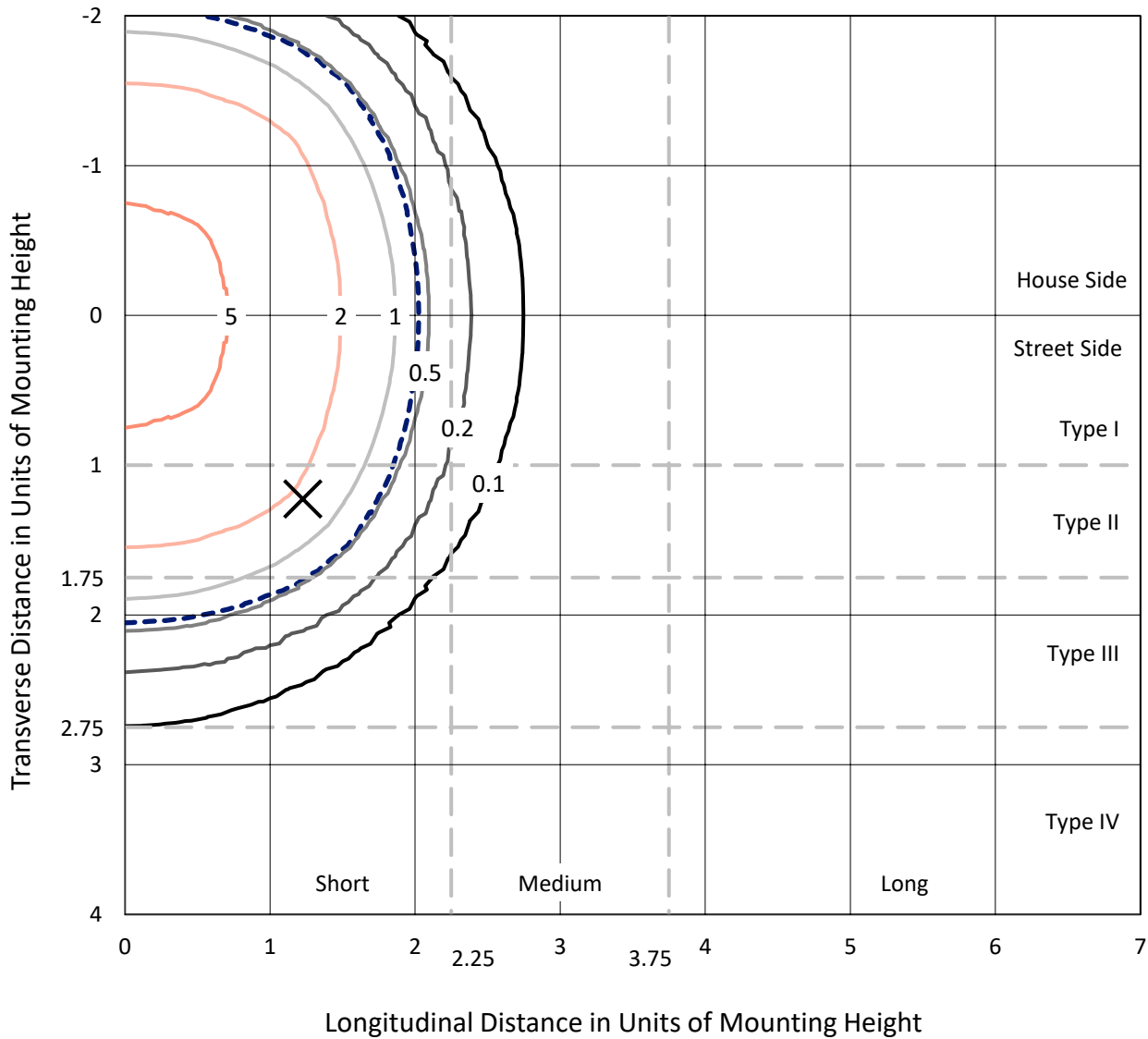
Lumens per Lamp: N/A  
Luminaire Lumens: 36057.8 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

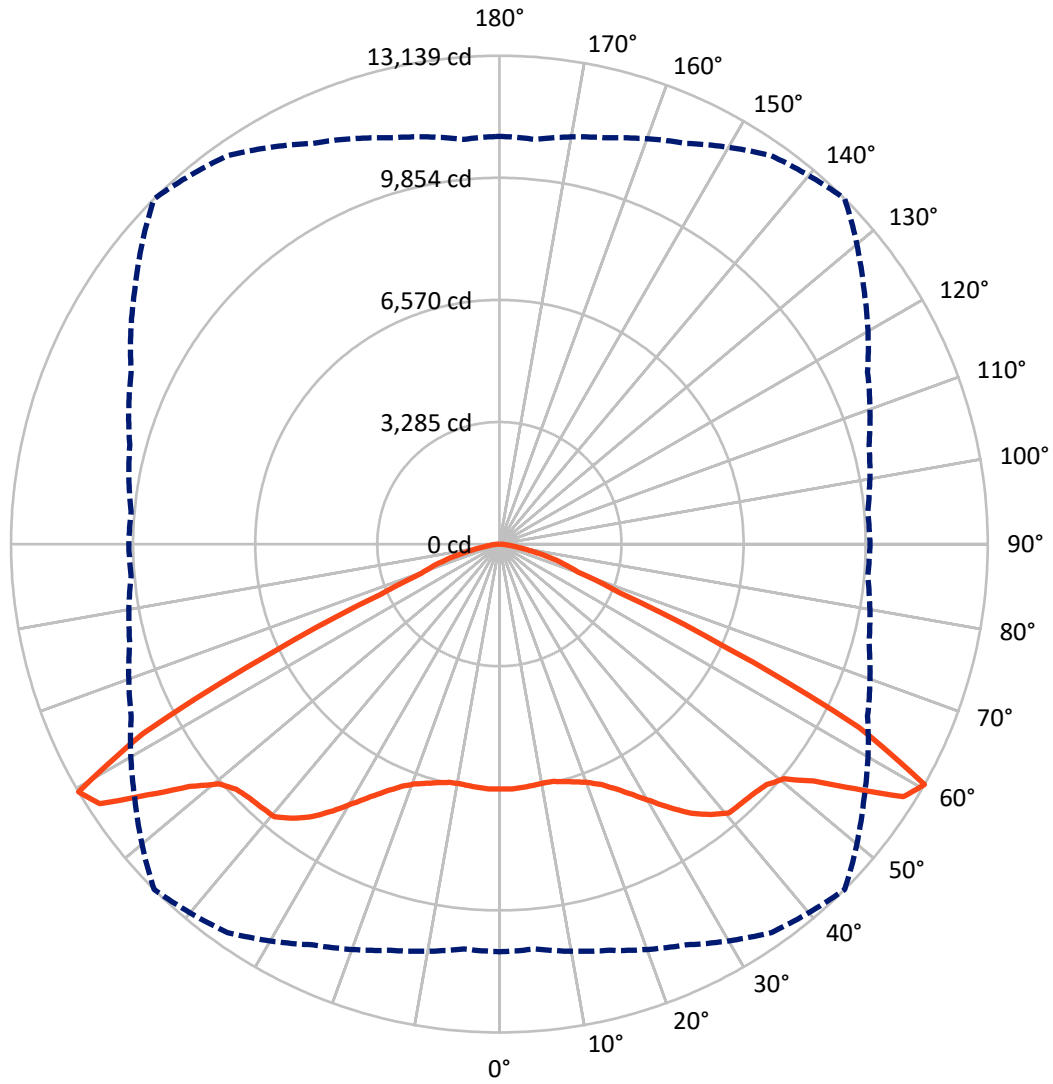
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 18028.9  | 0.0    | 18028.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 18028.9  | 0.0    | 18028.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 36057.8  | 0.0    | 36057.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 624.9   | 1.7       |
| 10°-20°   | 1879.7  | 5.2       |
| 20°-30°   | 3325.4  | 9.2       |
| 30°-40°   | 5354.0  | 14.8      |
| 40°-50°   | 7359.0  | 20.4      |
| 50°-60°   | 9806.6  | 27.2      |
| 60°-70°   | 6111.9  | 17.0      |
| 70°-80°   | 1405.5  | 3.9       |
| 80°-90°   | 190.7   | 0.5       |
| 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°    | 36057.8 | 100.0     |
| 0°-180°   | 36057.8 | 100.0     |

**Coefficient of Utilization**



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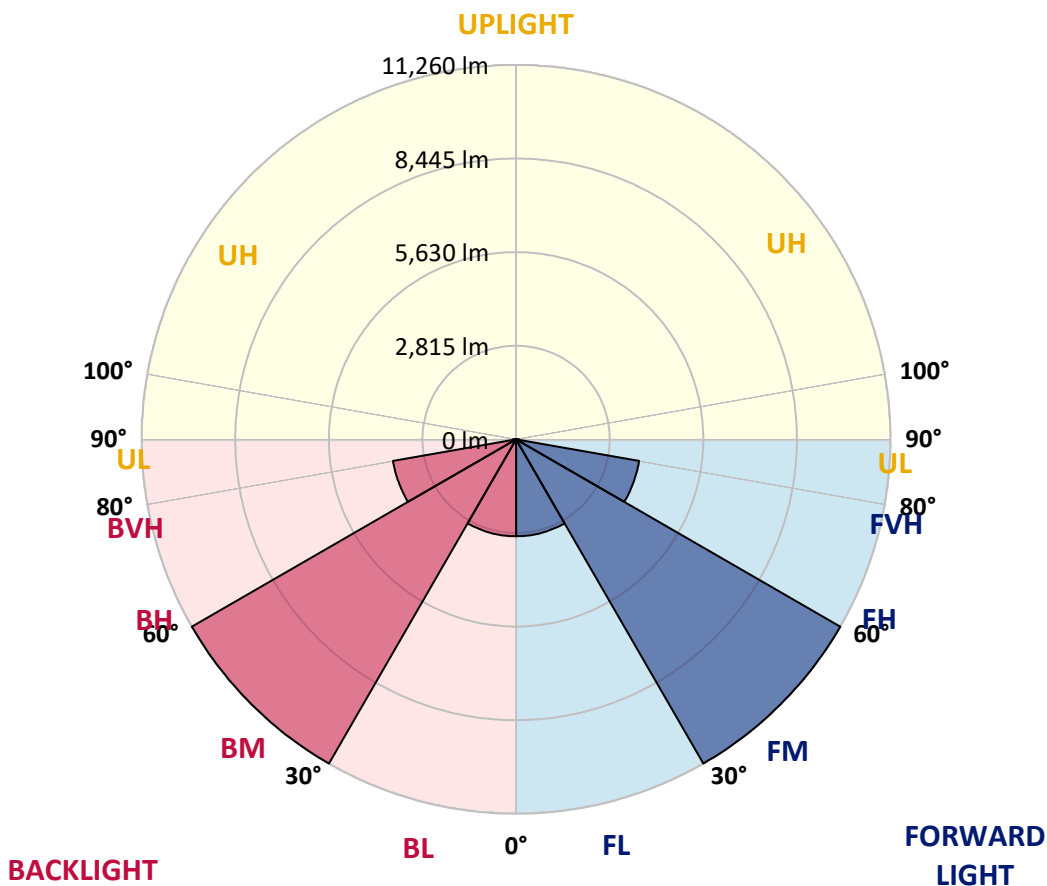
CATALOG NUMBER: GWS-SA5F-750-U-5WQ-W-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2915.0  | 8.1       |                         |      |         |
| FM (30°-60°)   | 11259.8 | 31.2      |                         |      |         |
| FH (60°-80°)   | 3758.7  | 10.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 95.3    | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 2915.0  | 8.1       | B4/5000                 |      |         |
| BM (30°-60°)   | 11259.8 | 31.2      | B5                      |      |         |
| BH (60°-80°)   | 3758.7  | 10.4      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 95.3    | 0.3       |                         |      | 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°    | 6589.5  | 6589.5  | 6589.5  | 6589.5  | 6589.5  | 6589.5  | 6589.5  | 6589.5  | 6589.5  | 6589.5  | 6589.5  |
| 2.5°  | 6543.6  | 6549.7  | 6562.0  | 6571.1  | 6583.4  | 6595.6  | 6601.8  | 6589.5  | 6583.4  | 6558.9  | 6586.5  |
| 5°    | 6549.7  | 6555.8  | 6565.0  | 6565.0  | 6568.1  | 6577.3  | 6577.3  | 6562.0  | 6546.7  | 6519.1  | 6549.7  |
| 7.5°  | 6540.5  | 6546.7  | 6549.7  | 6546.7  | 6549.7  | 6552.8  | 6546.7  | 6528.3  | 6513.0  | 6488.5  | 6513.0  |
| 10°   | 6525.2  | 6531.4  | 6537.5  | 6531.4  | 6525.2  | 6534.4  | 6534.4  | 6522.2  | 6513.0  | 6488.5  | 6516.1  |
| 12.5° | 6558.9  | 6568.1  | 6571.1  | 6555.8  | 6549.7  | 6552.8  | 6552.8  | 6540.5  | 6540.5  | 6519.1  | 6549.7  |
| 15°   | 6638.5  | 6644.6  | 6635.4  | 6617.1  | 6620.1  | 6629.3  | 6607.9  | 6577.3  | 6571.1  | 6562.0  | 6586.5  |
| 17.5° | 6699.7  | 6705.8  | 6696.6  | 6684.4  | 6705.8  | 6727.2  | 6687.5  | 6629.3  | 6610.9  | 6604.8  | 6632.4  |
| 20°   | 6767.0  | 6776.2  | 6764.0  | 6779.3  | 6822.1  | 6846.6  | 6797.6  | 6718.1  | 6681.3  | 6672.1  | 6705.8  |
| 22.5° | 6877.2  | 6889.5  | 6889.5  | 6923.1  | 6987.4  | 7027.2  | 6966.0  | 6858.8  | 6803.8  | 6788.5  | 6822.1  |
| 25°   | 7051.7  | 7060.8  | 7070.0  | 7137.4  | 7241.4  | 7296.5  | 7198.6  | 7051.7  | 6975.1  | 6950.7  | 6969.0  |
| 27.5° | 7293.5  | 7308.8  | 7324.1  | 7422.0  | 7550.5  | 7630.1  | 7489.3  | 7305.7  | 7210.8  | 7161.8  | 7198.6  |
| 30°   | 7581.2  | 7602.6  | 7639.3  | 7749.5  | 7930.1  | 8018.8  | 7838.2  | 7614.8  | 7507.7  | 7455.7  | 7504.6  |
| 32.5° | 7972.9  | 7976.0  | 8003.5  | 8125.9  | 8364.7  | 8465.7  | 8239.2  | 7991.3  | 7881.1  | 7819.9  | 7847.4  |
| 35°   | 8438.1  | 8441.2  | 8398.3  | 8523.8  | 8780.9  | 8894.2  | 8627.9  | 8376.9  | 8285.1  | 8266.7  | 8337.1  |
| 37.5° | 8915.6  | 8888.0  | 8845.2  | 8900.3  | 9160.4  | 9233.9  | 8952.3  | 8738.1  | 8698.3  | 8731.9  | 8836.0  |
| 40°   | 9255.3  | 9209.4  | 9123.7  | 9163.5  | 9426.7  | 9512.4  | 9212.5  | 9010.5  | 8998.2  | 9080.9  | 9206.3  |
| 42.5° | 9475.7  | 9426.7  | 9325.7  | 9325.7  | 9506.3  | 9543.0  | 9310.4  | 9203.3  | 9230.8  | 9325.7  | 9445.1  |
| 45°   | 9582.8  | 9555.3  | 9497.1  | 9466.5  | 9567.5  | 9582.8  | 9405.3  | 9362.4  | 9414.5  | 9460.4  | 9552.2  |
| 47.5° | 9665.4  | 9665.4  | 9647.1  | 9616.5  | 9662.4  | 9671.6  | 9539.9  | 9527.7  | 9595.0  | 9595.0  | 9656.3  |
| 50°   | 9812.3  | 9827.6  | 9852.1  | 9846.0  | 9895.0  | 9925.6  | 9827.6  | 9809.3  | 9836.8  | 9748.1  | 9778.7  |
| 52.5° | 10198.0 | 10237.8 | 10308.2 | 10363.3 | 10488.7 | 10583.6 | 10409.2 | 10262.3 | 10118.4 | 9922.5  | 9928.6  |
| 55°   | 10889.7 | 10908.0 | 11045.8 | 11208.0 | 11419.2 | 11612.0 | 11253.9 | 10797.9 | 10485.7 | 10256.1 | 10259.2 |
| 57.5° | 11474.3 | 11501.8 | 11703.8 | 12043.5 | 12517.9 | 12817.9 | 12025.2 | 11263.1 | 10822.3 | 10540.8 | 10550.0 |
| 60°   | 10969.3 | 10932.5 | 11315.1 | 11896.6 | 12756.7 | 13139.2 | 11970.1 | 10929.5 | 10295.9 | 9947.0  | 9971.5  |
| 62.5° | 8487.1  | 8416.7  | 8842.1  | 9451.2  | 10482.6 | 10865.2 | 9787.9  | 8790.1  | 8190.2  | 7917.8  | 7878.0  |
| 65°   | 5166.3  | 5102.1  | 5408.1  | 5781.5  | 6479.3  | 6721.1  | 6228.4  | 5698.9  | 5175.5  | 5010.2  | 4964.3  |
| 67.5° | 2812.7  | 2803.5  | 2886.2  | 3069.8  | 3375.9  | 3489.1  | 3394.2  | 3143.3  | 3008.6  | 2892.3  | 2892.3  |
| 70°   | 2231.2  | 2212.8  | 2197.5  | 2200.6  | 2228.1  | 2243.4  | 2246.5  | 2234.3  | 2249.6  | 2252.6  | 2240.4  |
| 72.5° | 1848.6  | 1842.5  | 1811.9  | 1814.9  | 1802.7  | 1796.6  | 1818.0  | 1830.2  | 1854.7  | 1857.8  | 1857.8  |
| 75°   | 1340.6  | 1325.2  | 1340.6  | 1343.6  | 1331.4  | 1331.4  | 1346.7  | 1343.6  | 1355.9  | 1362.0  | 1328.3  |
| 77.5° | 762.1   | 762.1   | 783.5   | 808.0   | 826.4   | 826.4   | 841.7   | 841.7   | 857.0   | 853.9   | 847.8   |
| 80°   | 419.3   | 419.3   | 431.5   | 446.9   | 465.2   | 483.6   | 498.9   | 501.9   | 511.1   | 508.1   | 498.9   |
| 82.5° | 238.7   | 241.8   | 247.9   | 257.1   | 275.5   | 290.8   | 306.1   | 309.1   | 318.3   | 318.3   | 309.1   |
| 85°   | 113.2   | 110.2   | 113.2   | 119.4   | 128.5   | 140.8   | 156.1   | 165.3   | 171.4   | 171.4   | 165.3   |
| 87.5° | 21.4    | 24.5    | 21.4    | 24.5    | 27.5    | 36.7    | 42.8    | 49.0    | 58.2    | 61.2    | 55.1    |
| 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)