

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: P639279

Luminaire Tested: GWS-SA5B-750-U-5MQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639279  
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-SA5B-750-U-5MQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

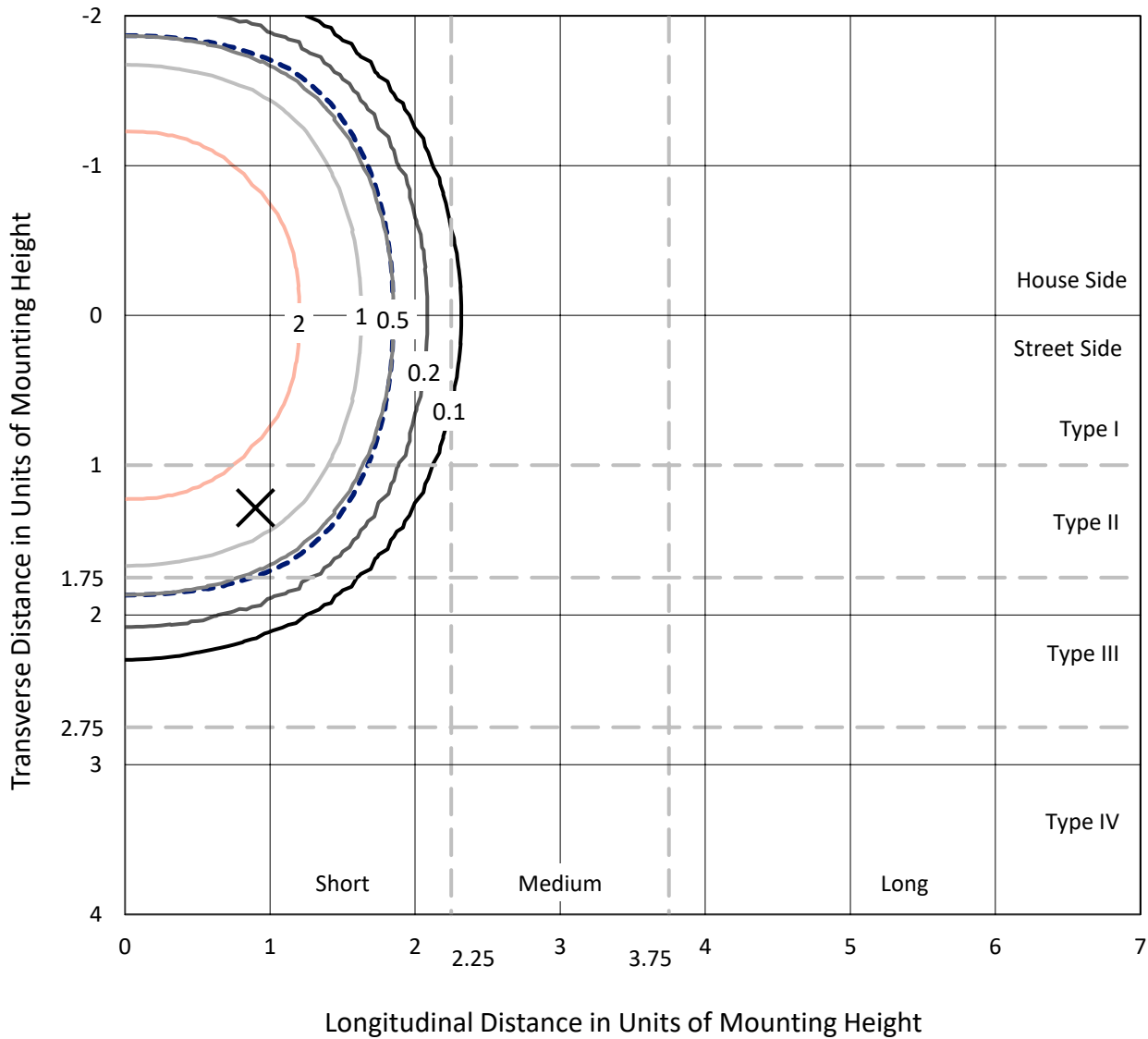
Lumens per Lamp: N/A  
Luminaire Lumens: 15903 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

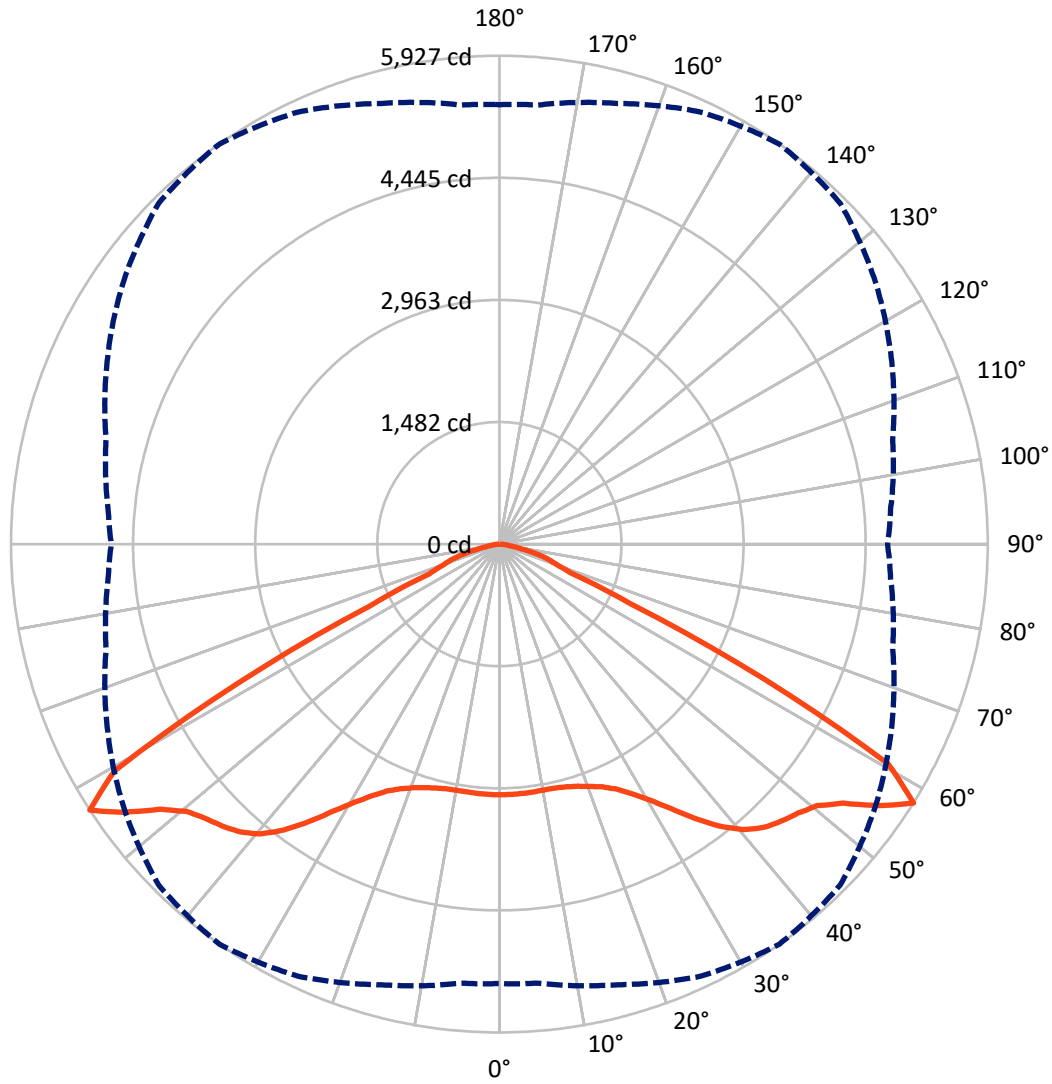
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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    | 7951.5   | 0.0    | 7951.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7951.5   | 0.0    | 7951.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 15903.0  | 0.0    | 15903.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 289.5   | 1.8       |
| 10°-20°   | 863.7   | 5.4       |
| 20°-30°   | 1506.9  | 9.5       |
| 30°-40°   | 2471.0  | 15.5      |
| 40°-50°   | 3639.2  | 22.9      |
| 50°-60°   | 4644.3  | 29.2      |
| 60°-70°   | 1957.3  | 12.3      |
| 70°-80°   | 467.6   | 2.9       |
| 80°-90°   | 63.6    | 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°    | 15903.0 | 100.0     |
| 0°-180°   | 15903.0 | 100.0     |

**Coefficient of Utilization**



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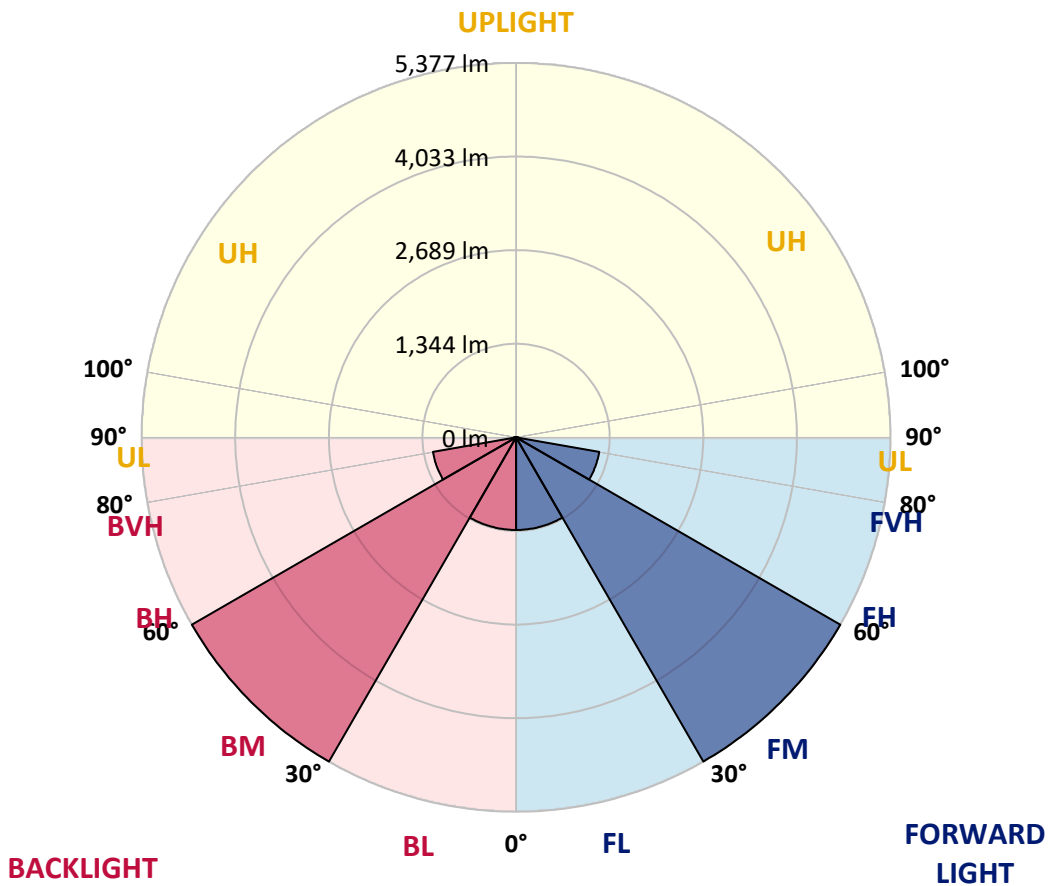
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1330.0 | 8.4       |                         |      |         |
| FM (30°-60°)   | 5377.2 | 33.8      |                         |      |         |
| FH (60°-80°)   | 1212.4 | 7.6       |                         |      | G1/1800 |
| FVH (80°-90°)  | 31.8   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1330.0 | 8.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 5377.2 | 33.8      | B4/8500                 |      |         |
| BH (60°-80°)   | 1212.4 | 7.6       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 31.8   | 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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3042.9 | 3042.9 | 3042.9 | 3042.9 | 3042.9 | 3042.9 | 3042.9 | 3042.9 | 3042.9 | 3042.9 | 3042.9 |
| 2.5°  | 3024.6 | 3024.6 | 3031.1 | 3037.6 | 3040.3 | 3052.0 | 3050.7 | 3046.8 | 3044.2 | 3036.3 | 3046.8 |
| 5°    | 3031.1 | 3031.1 | 3036.3 | 3040.3 | 3039.0 | 3048.1 | 3044.2 | 3037.6 | 3033.7 | 3025.9 | 3037.6 |
| 7.5°  | 3029.8 | 3029.8 | 3033.7 | 3037.6 | 3035.0 | 3042.9 | 3036.3 | 3027.2 | 3020.7 | 3012.9 | 3023.3 |
| 10°   | 3012.9 | 3015.5 | 3019.4 | 3028.5 | 3032.4 | 3044.2 | 3035.0 | 3020.7 | 3010.3 | 3001.2 | 3011.6 |
| 12.5° | 3010.3 | 3012.9 | 3018.1 | 3029.8 | 3036.3 | 3053.3 | 3041.6 | 3018.1 | 3002.5 | 2990.8 | 3001.2 |
| 15°   | 3022.0 | 3024.6 | 3032.4 | 3046.8 | 3057.2 | 3075.4 | 3058.5 | 3025.9 | 3003.8 | 2988.2 | 2997.3 |
| 17.5° | 3036.3 | 3040.3 | 3052.0 | 3072.8 | 3089.7 | 3109.3 | 3088.4 | 3049.4 | 3018.1 | 2997.3 | 3005.1 |
| 20°   | 3052.0 | 3057.2 | 3075.4 | 3106.7 | 3137.9 | 3162.6 | 3136.6 | 3084.5 | 3046.8 | 3019.4 | 3027.2 |
| 22.5° | 3079.3 | 3085.8 | 3109.3 | 3153.5 | 3200.4 | 3236.9 | 3204.3 | 3134.0 | 3084.5 | 3049.4 | 3055.9 |
| 25°   | 3135.3 | 3143.1 | 3173.1 | 3226.4 | 3292.8 | 3337.1 | 3291.5 | 3212.1 | 3143.1 | 3100.1 | 3106.7 |
| 27.5° | 3234.3 | 3238.2 | 3277.2 | 3347.5 | 3429.6 | 3480.3 | 3425.7 | 3331.9 | 3255.1 | 3205.6 | 3210.8 |
| 30°   | 3364.5 | 3376.2 | 3415.2 | 3507.7 | 3605.3 | 3673.0 | 3601.4 | 3490.8 | 3402.2 | 3342.3 | 3347.5 |
| 32.5° | 3523.3 | 3531.1 | 3589.7 | 3686.1 | 3826.7 | 3904.8 | 3807.2 | 3675.6 | 3568.9 | 3496.0 | 3501.2 |
| 35°   | 3731.6 | 3738.1 | 3794.1 | 3916.5 | 4087.1 | 4160.0 | 4048.0 | 3897.0 | 3773.3 | 3704.3 | 3723.8 |
| 37.5° | 3980.3 | 3992.0 | 4032.4 | 4153.5 | 4343.6 | 4415.2 | 4286.3 | 4145.7 | 4016.8 | 3953.0 | 3967.3 |
| 40°   | 4247.2 | 4245.9 | 4278.5 | 4385.3 | 4558.4 | 4602.7 | 4486.8 | 4374.8 | 4264.2 | 4222.5 | 4245.9 |
| 42.5° | 4476.4 | 4469.9 | 4493.3 | 4581.9 | 4701.7 | 4705.6 | 4628.7 | 4566.2 | 4488.1 | 4459.5 | 4481.6 |
| 45°   | 4636.5 | 4639.2 | 4674.3 | 4735.5 | 4796.7 | 4764.1 | 4740.7 | 4730.3 | 4669.1 | 4630.0 | 4633.9 |
| 47.5° | 4762.8 | 4773.3 | 4829.2 | 4870.9 | 4878.7 | 4824.0 | 4856.6 | 4872.2 | 4821.4 | 4761.5 | 4744.6 |
| 50°   | 4874.8 | 4891.7 | 4964.7 | 5008.9 | 4992.0 | 4923.0 | 4986.8 | 5010.2 | 4898.3 | 4783.7 | 4749.8 |
| 52.5° | 5077.9 | 5097.5 | 5186.0 | 5243.3 | 5223.8 | 5154.8 | 5214.7 | 5131.3 | 4942.5 | 4801.9 | 4758.9 |
| 55°   | 5402.1 | 5411.3 | 5519.3 | 5613.1 | 5604.0 | 5519.3 | 5471.2 | 5286.3 | 5057.1 | 4911.3 | 4870.9 |
| 57.5° | 5333.1 | 5348.8 | 5536.3 | 5786.2 | 5926.9 | 5850.0 | 5567.5 | 5252.4 | 4941.2 | 4765.5 | 4710.8 |
| 60°   | 4196.5 | 4234.2 | 4467.3 | 4907.4 | 5423.0 | 5421.7 | 4897.0 | 4407.4 | 4032.4 | 3799.3 | 3775.9 |
| 62.5° | 2450.4 | 2476.5 | 2688.7 | 3134.0 | 3596.2 | 3624.9 | 3256.4 | 2920.5 | 2592.4 | 2434.8 | 2359.3 |
| 65°   | 1160.1 | 1158.8 | 1243.4 | 1444.0 | 1756.4 | 1781.2 | 1670.5 | 1486.9 | 1292.9 | 1239.5 | 1225.2 |
| 67.5° | 856.7  | 856.7  | 850.2  | 864.6  | 924.4  | 937.5  | 924.4  | 894.5  | 876.3  | 888.0  | 880.2  |
| 70°   | 743.5  | 744.8  | 737.0  | 733.0  | 733.0  | 729.1  | 734.3  | 746.1  | 753.9  | 769.5  | 761.7  |
| 72.5° | 602.8  | 604.1  | 604.1  | 605.4  | 606.7  | 601.5  | 609.4  | 615.9  | 617.2  | 622.4  | 617.2  |
| 75°   | 428.4  | 431.0  | 438.8  | 445.3  | 450.5  | 450.5  | 453.1  | 454.4  | 449.2  | 455.7  | 445.3  |
| 77.5° | 235.7  | 238.3  | 252.6  | 264.3  | 276.0  | 277.3  | 281.2  | 283.8  | 281.2  | 286.4  | 278.6  |
| 80°   | 130.2  | 132.8  | 139.3  | 144.5  | 153.6  | 161.5  | 166.7  | 169.3  | 169.3  | 173.2  | 169.3  |
| 82.5° | 74.2   | 76.8   | 80.7   | 83.3   | 91.1   | 97.7   | 102.9  | 106.8  | 106.8  | 108.1  | 105.5  |
| 85°   | 35.2   | 35.2   | 37.8   | 40.4   | 44.3   | 46.9   | 53.4   | 57.3   | 57.3   | 59.9   | 57.3   |
| 87.5° | 5.2    | 6.5    | 7.8    | 7.8    | 10.4   | 13.0   | 15.6   | 16.9   | 19.5   | 20.8   | 20.8   |
| 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)