

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: P628837

Luminaire Tested: GWS-SA1A-740-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P628837  
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-SA1A-740-U-5WQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

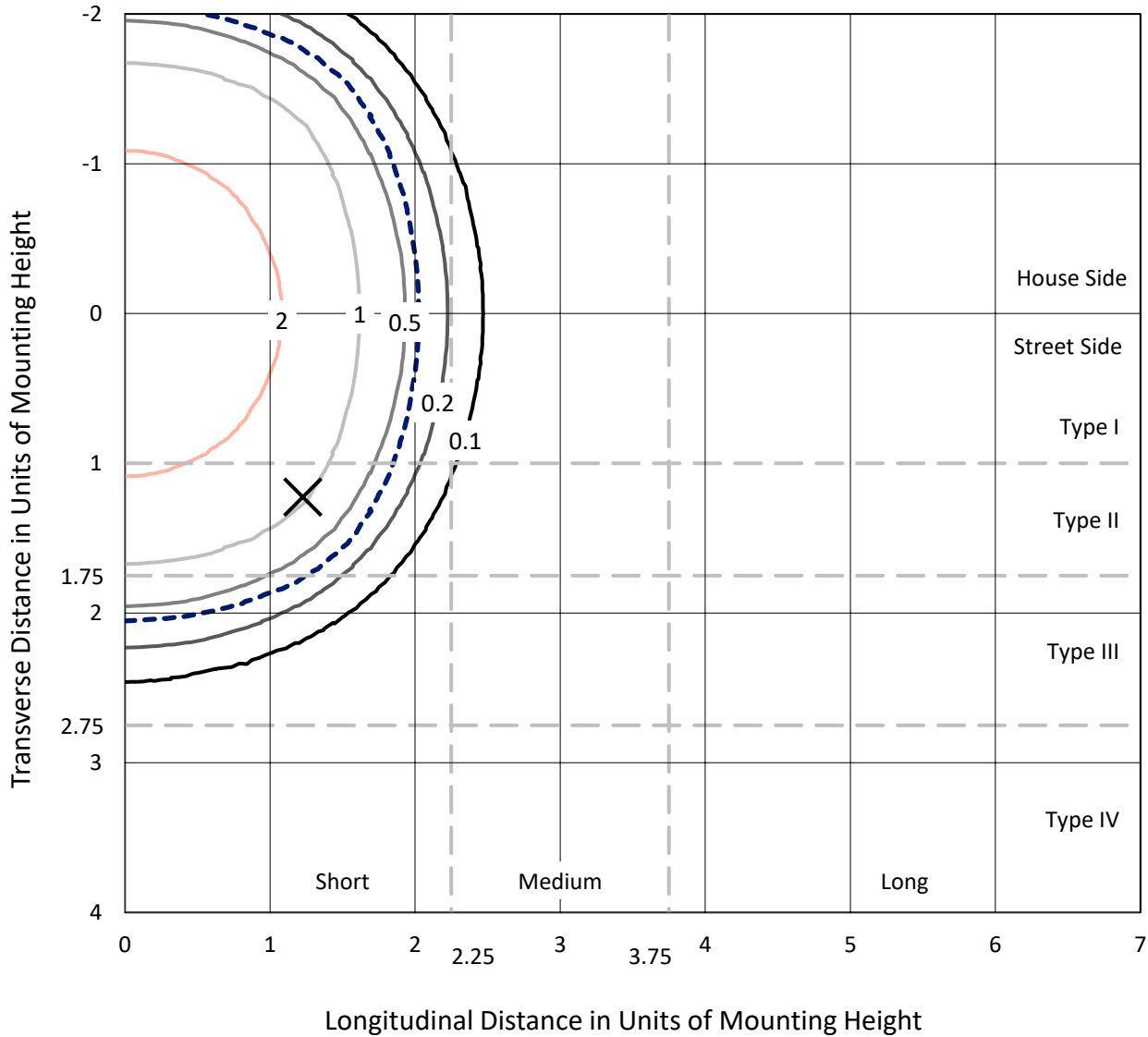
Lumens per Lamp: N/A  
Luminaire Lumens: 2401.7 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 19.7  
Input Voltage (V): 120  
Input Current (Ain): 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

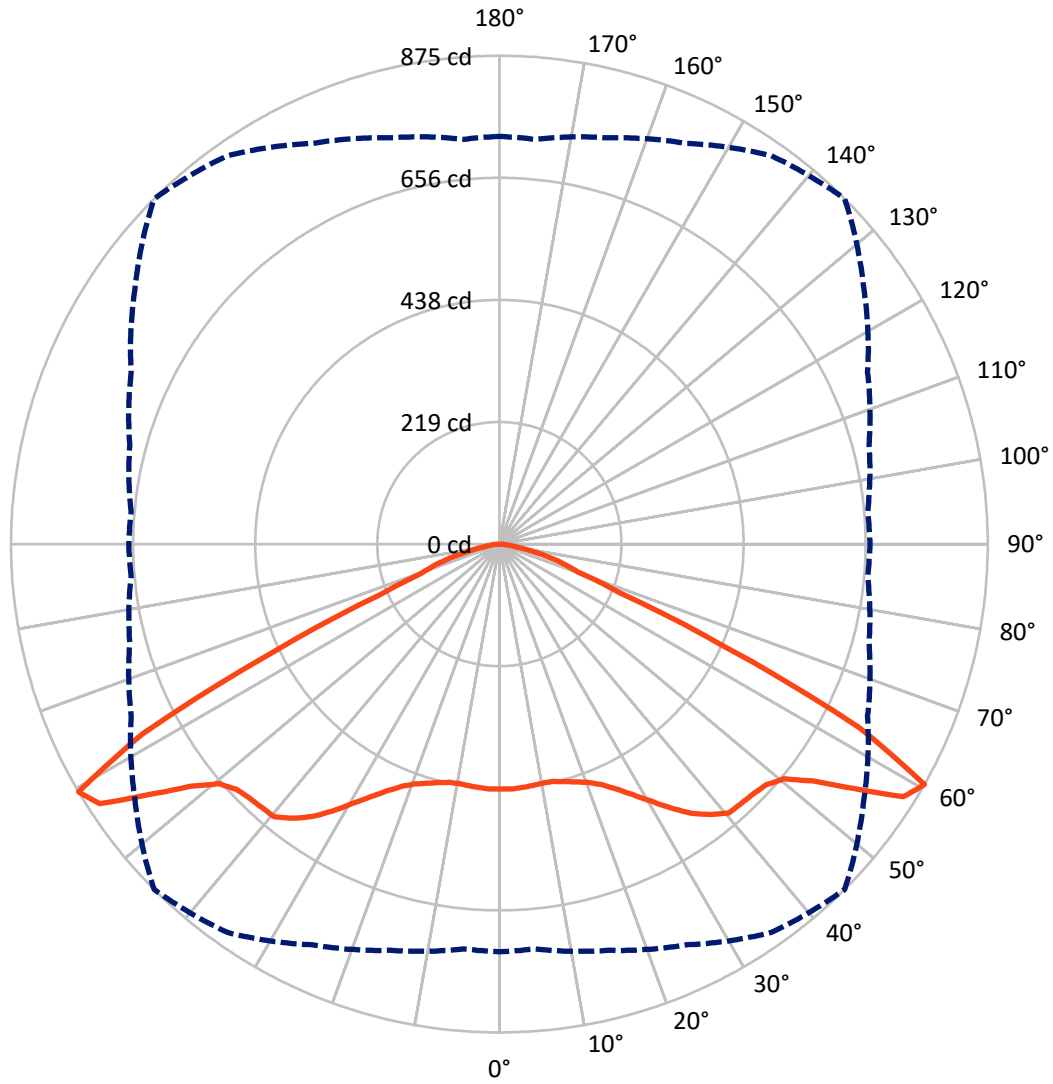
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 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    | 1200.8   | 0.0    | 1200.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1200.8   | 0.0    | 1200.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 2401.7   | 0.0    | 2401.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.6   | 1.7       |
| 10°-20°   | 125.2  | 5.2       |
| 20°-30°   | 221.5  | 9.2       |
| 30°-40°   | 356.6  | 14.8      |
| 40°-50°   | 490.2  | 20.4      |
| 50°-60°   | 653.2  | 27.2      |
| 60°-70°   | 407.1  | 17.0      |
| 70°-80°   | 93.6   | 3.9       |
| 80°-90°   | 12.7   | 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°    | 2401.7 | 100.0     |
| 0°-180°   | 2401.7 | 100.0     |

**Coefficient of Utilization**



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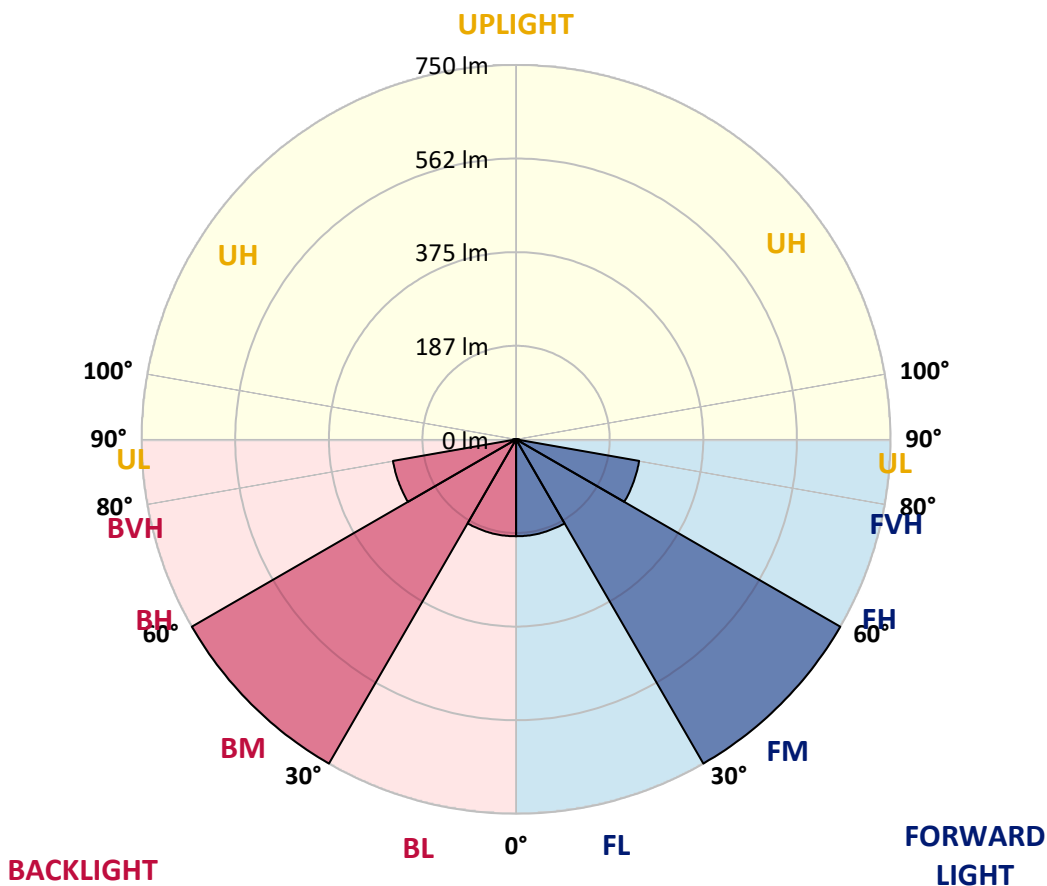
CATALOG NUMBER: GWS-SA1A-740-U-5WQ-W-GRSWH

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 194.2  | 8.1       |                         |      |        |
| FM (30°-60°)   | 750.0  | 31.2      |                         |      |        |
| FH (60°-80°)   | 250.4  | 10.4      |                         |      | G0/660 |
| FVH (80°-90°)  | 6.3    | 0.3       |                         |      | G0/10  |
| BL (0°-30°)    | 194.2  | 8.1       | B1/500                  |      |        |
| BM (30°-60°)   | 750.0  | 31.2      | B1/1000                 |      |        |
| BH (60°-80°)   | 250.4  | 10.4      | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 6.3    | 0.3       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G0**

Type V Short





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CATALOG NUMBER: GWS-SA1A-740-U-5WQ-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 438.9 | 438.9 | 438.9 | 438.9 | 438.9 | 438.9 | 438.9 | 438.9 | 438.9 | 438.9 | 438.9 |
| 2.5°  | 435.8 | 436.3 | 437.1 | 437.7 | 438.5 | 439.3 | 439.7 | 438.9 | 438.5 | 436.9 | 438.7 |
| 5°    | 436.3 | 436.7 | 437.3 | 437.3 | 437.5 | 438.1 | 438.1 | 437.1 | 436.1 | 434.2 | 436.3 |
| 7.5°  | 435.6 | 436.1 | 436.3 | 436.1 | 436.3 | 436.5 | 436.1 | 434.8 | 433.8 | 432.2 | 433.8 |
| 10°   | 434.6 | 435.0 | 435.4 | 435.0 | 434.6 | 435.2 | 435.2 | 434.4 | 433.8 | 432.2 | 434.0 |
| 12.5° | 436.9 | 437.5 | 437.7 | 436.7 | 436.3 | 436.5 | 436.5 | 435.6 | 435.6 | 434.2 | 436.3 |
| 15°   | 442.2 | 442.6 | 442.0 | 440.7 | 440.9 | 441.6 | 440.1 | 438.1 | 437.7 | 437.1 | 438.7 |
| 17.5° | 446.2 | 446.7 | 446.0 | 445.2 | 446.7 | 448.1 | 445.4 | 441.6 | 440.3 | 439.9 | 441.8 |
| 20°   | 450.7 | 451.3 | 450.5 | 451.5 | 454.4 | 456.0 | 452.8 | 447.5 | 445.0 | 444.4 | 446.7 |
| 22.5° | 458.1 | 458.9 | 458.9 | 461.1 | 465.4 | 468.1 | 464.0 | 456.8 | 453.2 | 452.2 | 454.4 |
| 25°   | 469.7 | 470.3 | 470.9 | 475.4 | 482.3 | 486.0 | 479.5 | 469.7 | 464.6 | 463.0 | 464.2 |
| 27.5° | 485.8 | 486.8 | 487.8 | 494.4 | 502.9 | 508.2 | 498.8 | 486.6 | 480.3 | 477.0 | 479.5 |
| 30°   | 505.0 | 506.4 | 508.8 | 516.2 | 528.2 | 534.1 | 522.1 | 507.2 | 500.1 | 496.6 | 499.9 |
| 32.5° | 531.1 | 531.3 | 533.1 | 541.2 | 557.1 | 563.9 | 548.8 | 532.3 | 524.9 | 520.9 | 522.7 |
| 35°   | 562.0 | 562.2 | 559.4 | 567.7 | 584.9 | 592.4 | 574.7 | 558.0 | 551.8 | 550.6 | 555.3 |
| 37.5° | 593.8 | 592.0 | 589.2 | 592.8 | 610.1 | 615.0 | 596.3 | 582.0 | 579.4 | 581.6 | 588.5 |
| 40°   | 616.5 | 613.4 | 607.7 | 610.4 | 627.9 | 633.6 | 613.6 | 600.2 | 599.3 | 604.8 | 613.2 |
| 42.5° | 631.1 | 627.9 | 621.2 | 621.2 | 633.2 | 635.6 | 620.1 | 613.0 | 614.8 | 621.2 | 629.1 |
| 45°   | 638.3 | 636.4 | 632.6 | 630.5 | 637.3 | 638.3 | 626.5 | 623.6 | 627.1 | 630.1 | 636.2 |
| 47.5° | 643.8 | 643.8 | 642.6 | 640.5 | 643.6 | 644.2 | 635.4 | 634.6 | 639.1 | 639.1 | 643.2 |
| 50°   | 653.6 | 654.6 | 656.2 | 655.8 | 659.1 | 661.1 | 654.6 | 653.4 | 655.2 | 649.3 | 651.3 |
| 52.5° | 679.3 | 681.9 | 686.6 | 690.3 | 698.6 | 704.9 | 693.3 | 683.5 | 674.0 | 660.9 | 661.3 |
| 55°   | 725.3 | 726.6 | 735.7 | 746.5 | 760.6 | 773.4 | 749.6 | 719.2 | 698.4 | 683.1 | 683.3 |
| 57.5° | 764.3 | 766.1 | 779.6 | 802.2 | 833.8 | 853.8 | 801.0 | 750.2 | 720.8 | 702.1 | 702.7 |
| 60°   | 730.6 | 728.2 | 753.7 | 792.4 | 849.7 | 875.2 | 797.3 | 728.0 | 685.8 | 662.5 | 664.2 |
| 62.5° | 565.3 | 560.6 | 588.9 | 629.5 | 698.2 | 723.7 | 651.9 | 585.5 | 545.5 | 527.4 | 524.7 |
| 65°   | 344.1 | 339.8 | 360.2 | 385.1 | 431.6 | 447.7 | 414.9 | 379.6 | 344.7 | 333.7 | 330.7 |
| 67.5° | 187.3 | 186.7 | 192.2 | 204.5 | 224.9 | 232.4 | 226.1 | 209.4 | 200.4 | 192.6 | 192.6 |
| 70°   | 148.6 | 147.4 | 146.4 | 146.6 | 148.4 | 149.4 | 149.6 | 148.8 | 149.8 | 150.0 | 149.2 |
| 72.5° | 123.1 | 122.7 | 120.7 | 120.9 | 120.1 | 119.7 | 121.1 | 121.9 | 123.5 | 123.7 | 123.7 |
| 75°   | 89.3  | 88.3  | 89.3  | 89.5  | 88.7  | 88.7  | 89.7  | 89.5  | 90.3  | 90.7  | 88.5  |
| 77.5° | 50.8  | 50.8  | 52.2  | 53.8  | 55.0  | 55.0  | 56.1  | 56.1  | 57.1  | 56.9  | 56.5  |
| 80°   | 27.9  | 27.9  | 28.7  | 29.8  | 31.0  | 32.2  | 33.2  | 33.4  | 34.0  | 33.8  | 33.2  |
| 82.5° | 15.9  | 16.1  | 16.5  | 17.1  | 18.3  | 19.4  | 20.4  | 20.6  | 21.2  | 21.2  | 20.6  |
| 85°   | 7.5   | 7.3   | 7.5   | 8.0   | 8.6   | 9.4   | 10.4  | 11.0  | 11.4  | 11.4  | 11.0  |
| 87.5° | 1.4   | 1.6   | 1.4   | 1.6   | 1.8   | 2.4   | 2.9   | 3.3   | 3.9   | 4.1   | 3.7   |
| 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)