

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: P628887

Luminaire Tested: GWS-SA1A-750-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628887
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-SA1A-750-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3012.5 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

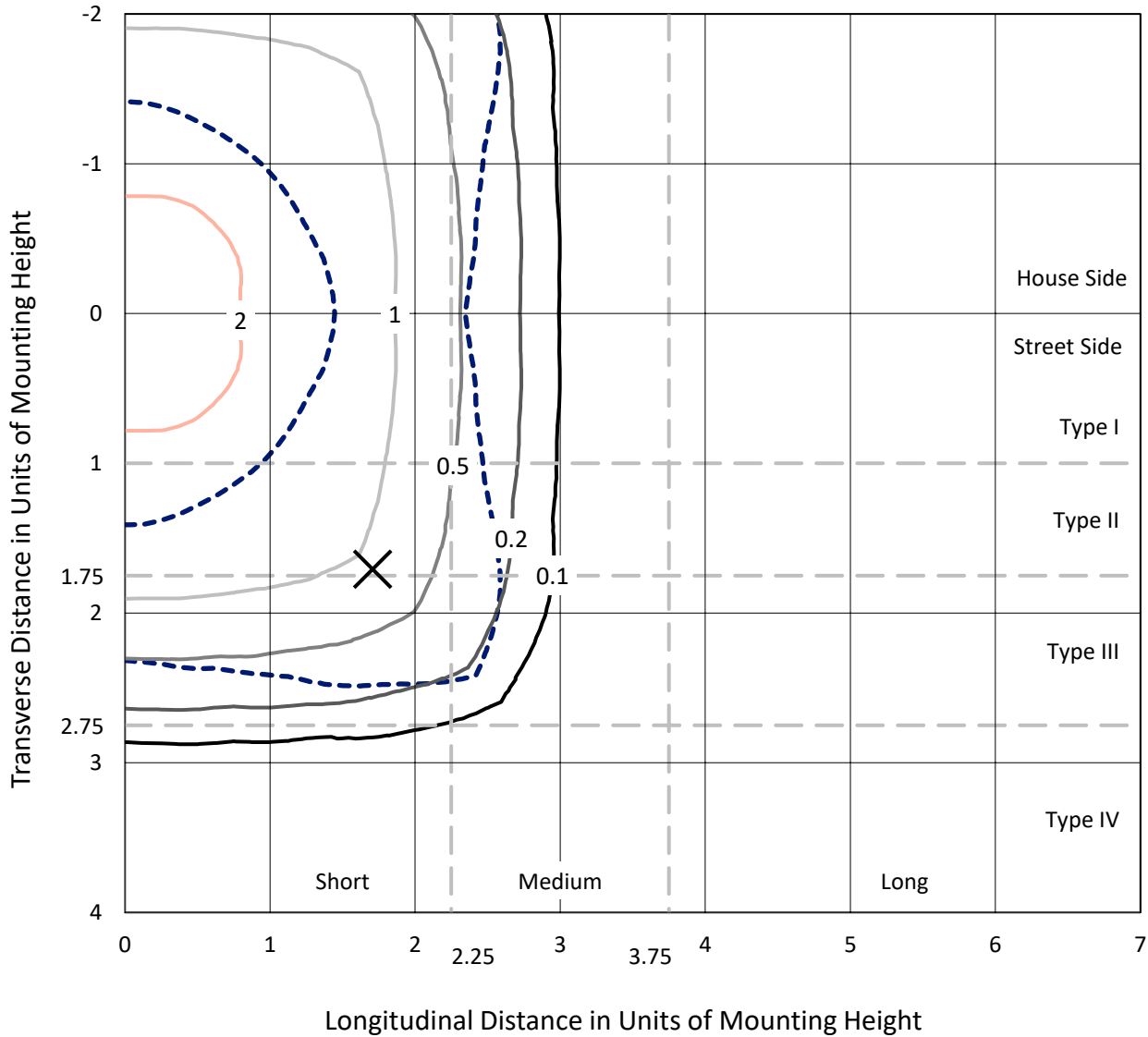
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

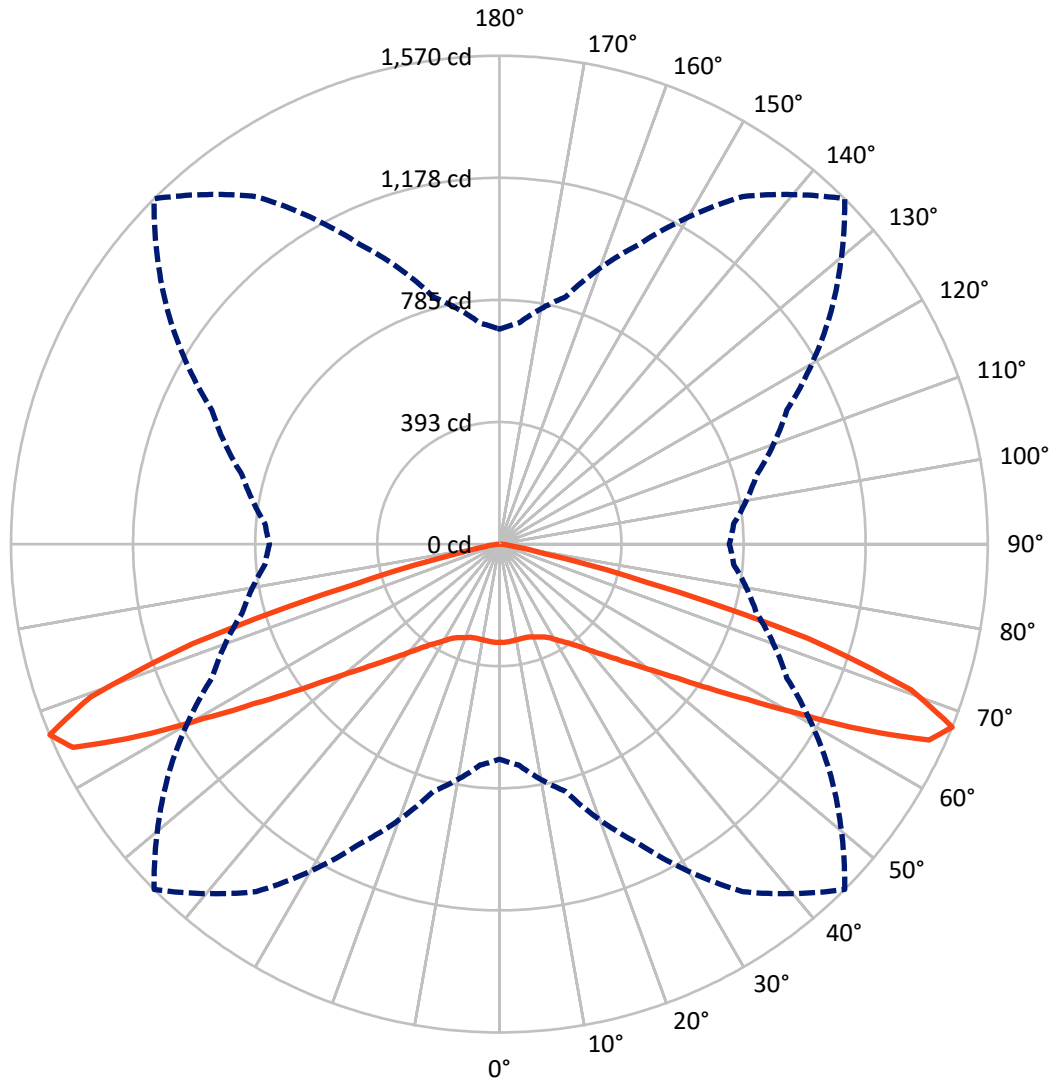
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 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 |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1506.3 | 0.0 | 1506.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1506.3 | 0.0 | 1506.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3012.5 | 0.0 | 3012.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.9 | 1.0 |
| 10°-20° | 87.7 | 2.9 |
| 20°-30° | 151.3 | 5.0 |
| 30°-40° | 246.0 | 8.2 |
| 40°-50° | 414.2 | 13.7 |
| 50°-60° | 733.8 | 24.4 |
| 60°-70° | 1048.9 | 34.8 |
| 70°-80° | 287.9 | 9.6 |
| 80°-90° | 12.9 | 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° | 3012.5 | 100.0 |
| 0°-180° | 3012.5 | 100.0 |

Coefficient of Utilization



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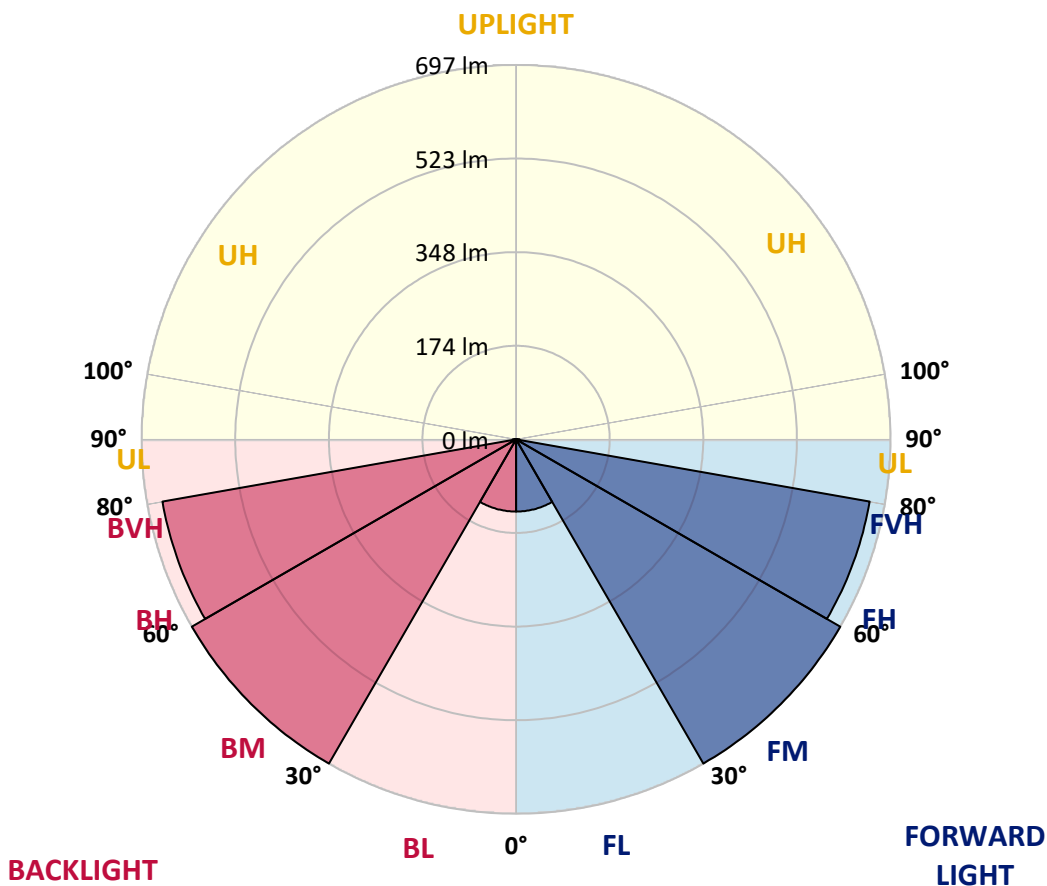
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 134.4 | 4.5 | | | |
| FM (30°-60°) | 697.0 | 23.1 | | | |
| FH (60°-80°) | 668.4 | 22.2 | | | G1/1800 |
| FVH (80°-90°) | 6.5 | 0.2 | | | G0/10 |
| BL (0°-30°) | 134.4 | 4.5 | B1/500 | | |
| BM (30°-60°) | 697.0 | 23.1 | B1/1000 | | |
| BH (60°-80°) | 668.4 | 22.2 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 6.5 | 0.2 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 315.5 | 315.5 | 315.5 | 315.5 | 315.5 | 315.5 | 315.5 | 315.5 | 315.5 | 315.5 | 315.5 |
| 2.5° | 313.4 | 313.2 | 314.3 | 314.9 | 314.7 | 316.1 | 315.9 | 315.5 | 315.5 | 314.9 | 316.5 |
| 5° | 313.4 | 313.2 | 314.0 | 314.3 | 313.8 | 315.1 | 314.7 | 314.3 | 314.3 | 313.4 | 314.9 |
| 7.5° | 311.8 | 312.0 | 312.6 | 313.0 | 312.6 | 313.6 | 313.0 | 312.2 | 312.0 | 311.1 | 312.6 |
| 10° | 308.6 | 308.8 | 309.5 | 310.5 | 310.7 | 312.6 | 311.5 | 310.1 | 309.5 | 308.6 | 310.1 |
| 12.5° | 306.7 | 307.0 | 307.6 | 308.8 | 309.3 | 311.8 | 310.7 | 308.4 | 307.4 | 306.5 | 308.0 |
| 15° | 306.3 | 306.5 | 307.4 | 308.6 | 309.3 | 311.8 | 310.7 | 308.0 | 306.5 | 305.5 | 306.7 |
| 17.5° | 306.3 | 306.7 | 308.0 | 309.9 | 311.1 | 313.6 | 312.4 | 309.3 | 307.2 | 305.3 | 306.5 |
| 20° | 306.5 | 307.2 | 309.0 | 311.8 | 314.9 | 318.4 | 316.8 | 312.6 | 309.7 | 307.4 | 308.2 |
| 22.5° | 308.4 | 309.5 | 311.8 | 315.3 | 319.9 | 324.1 | 322.6 | 317.0 | 312.8 | 309.7 | 310.5 |
| 25° | 314.9 | 315.3 | 318.2 | 322.8 | 327.2 | 330.7 | 329.3 | 324.1 | 318.8 | 315.1 | 316.1 |
| 27.5° | 326.3 | 327.4 | 329.9 | 334.7 | 338.4 | 340.3 | 340.1 | 336.6 | 331.4 | 328.0 | 328.9 |
| 30° | 340.1 | 341.2 | 344.5 | 349.9 | 353.7 | 355.8 | 355.1 | 352.4 | 347.6 | 343.0 | 343.9 |
| 32.5° | 356.2 | 356.6 | 360.5 | 366.6 | 370.6 | 373.7 | 371.6 | 368.7 | 362.6 | 357.2 | 357.6 |
| 35° | 376.6 | 377.2 | 381.4 | 387.0 | 390.2 | 392.7 | 392.2 | 389.3 | 382.9 | 377.0 | 378.5 |
| 37.5° | 402.3 | 402.7 | 406.4 | 413.5 | 416.0 | 417.9 | 418.3 | 416.9 | 410.2 | 402.7 | 404.1 |
| 40° | 434.2 | 434.4 | 438.5 | 444.8 | 447.5 | 448.8 | 449.0 | 449.2 | 442.3 | 436.7 | 436.2 |
| 42.5° | 471.3 | 472.3 | 478.2 | 484.2 | 485.5 | 484.8 | 486.9 | 489.0 | 482.3 | 474.6 | 475.2 |
| 45° | 515.7 | 516.3 | 524.2 | 530.9 | 528.6 | 526.5 | 530.5 | 534.7 | 528.6 | 518.6 | 515.7 |
| 47.5° | 568.2 | 569.5 | 578.0 | 584.7 | 581.0 | 577.2 | 583.7 | 588.1 | 578.3 | 567.6 | 564.9 |
| 50° | 627.7 | 628.5 | 640.6 | 648.9 | 644.6 | 637.7 | 645.8 | 650.4 | 637.3 | 624.1 | 618.3 |
| 52.5° | 698.0 | 696.3 | 712.3 | 726.9 | 724.2 | 715.3 | 721.9 | 722.8 | 703.2 | 684.6 | 678.8 |
| 55° | 783.7 | 782.0 | 798.0 | 814.1 | 820.8 | 818.5 | 815.4 | 810.3 | 781.4 | 761.6 | 756.1 |
| 57.5° | 883.5 | 878.3 | 900.9 | 922.5 | 937.1 | 941.3 | 928.0 | 916.3 | 893.3 | 868.9 | 862.7 |
| 60° | 976.3 | 976.1 | 1011.8 | 1049.3 | 1089.4 | 1106.0 | 1072.3 | 1040.6 | 989.1 | 944.6 | 935.7 |
| 62.5° | 1002.4 | 1006.8 | 1065.2 | 1158.2 | 1257.0 | 1316.0 | 1227.0 | 1122.1 | 1022.6 | 955.7 | 943.8 |
| 65° | 938.2 | 949.0 | 1032.0 | 1178.8 | 1374.0 | 1518.3 | 1317.3 | 1124.0 | 985.3 | 901.9 | 889.4 |
| 67.5° | 691.5 | 713.2 | 823.1 | 1063.7 | 1364.0 | 1570.2 | 1301.2 | 1019.9 | 855.8 | 756.5 | 739.2 |
| 70° | 341.2 | 361.8 | 449.0 | 699.8 | 1122.3 | 1403.6 | 1125.9 | 768.6 | 578.0 | 482.5 | 466.7 |
| 72.5° | 125.5 | 133.9 | 168.1 | 299.4 | 619.3 | 1036.8 | 769.9 | 429.4 | 280.1 | 222.9 | 212.3 |
| 75° | 61.5 | 63.0 | 68.2 | 100.5 | 228.5 | 488.0 | 361.8 | 164.7 | 103.0 | 89.7 | 86.7 |
| 77.5° | 39.2 | 39.8 | 42.3 | 48.0 | 73.4 | 153.7 | 109.7 | 65.1 | 50.5 | 48.4 | 48.4 |
| 80° | 21.9 | 22.5 | 25.9 | 29.8 | 34.4 | 52.8 | 39.4 | 39.0 | 33.2 | 29.0 | 28.4 |
| 82.5° | 10.4 | 11.5 | 16.5 | 16.3 | 18.1 | 26.5 | 23.1 | 21.1 | 21.3 | 16.1 | 15.2 |
| 85° | 4.8 | 4.8 | 6.5 | 7.7 | 8.1 | 9.0 | 10.6 | 12.1 | 11.9 | 8.1 | 8.8 |
| 87.5° | 2.3 | 2.3 | 2.3 | 2.1 | 1.9 | 1.7 | 2.3 | 3.8 | 5.4 | 3.8 | 3.5 |
| 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)