

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: P631089

Luminaire Tested: GWS-SA1F-722-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-722-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3265.8 lumens
Efficiency: N/A
Efficacy: 48.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

Input Watts (W): 67.2
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

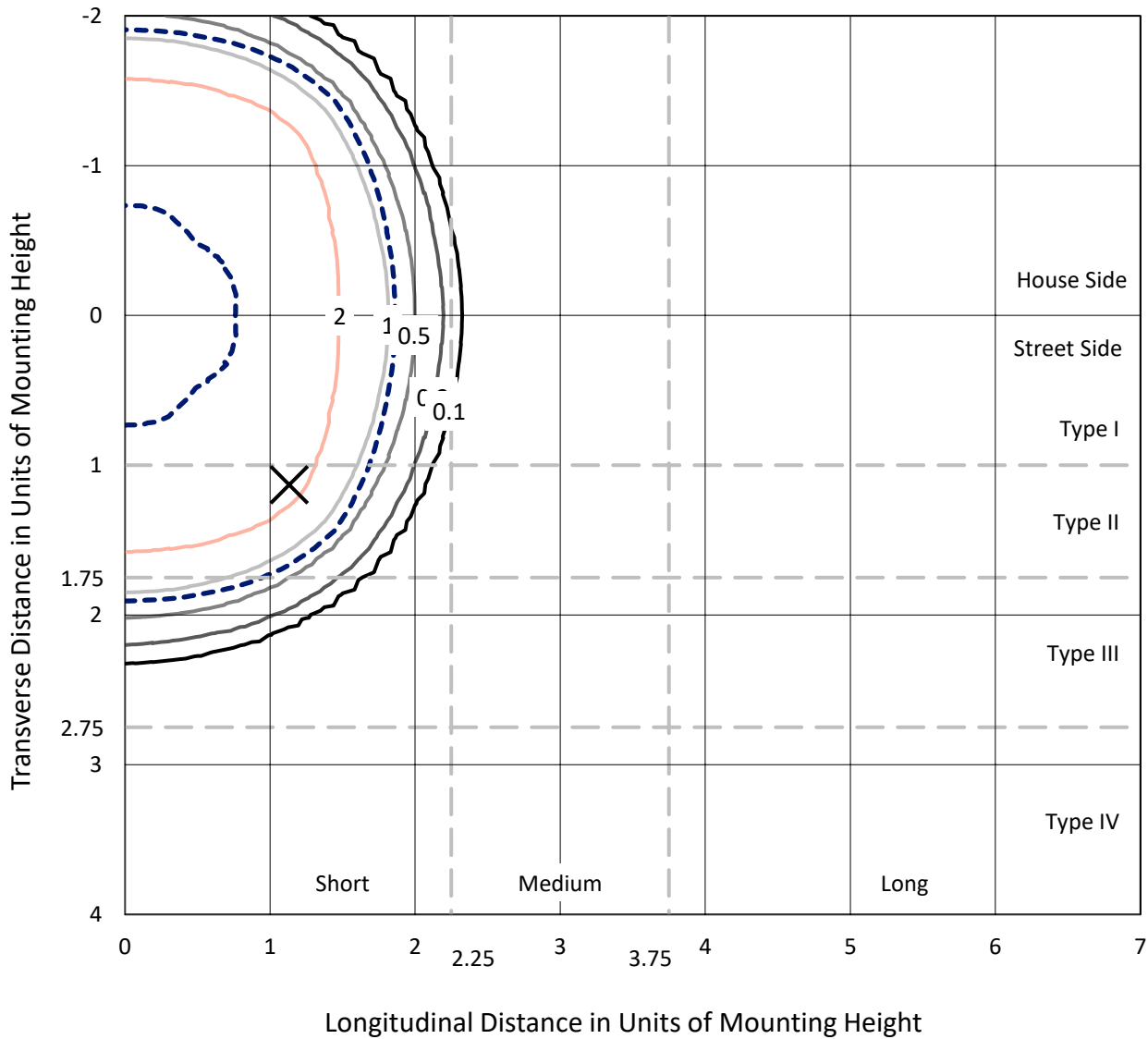


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Iso-Footcandle Lines of Horizontal Illumination

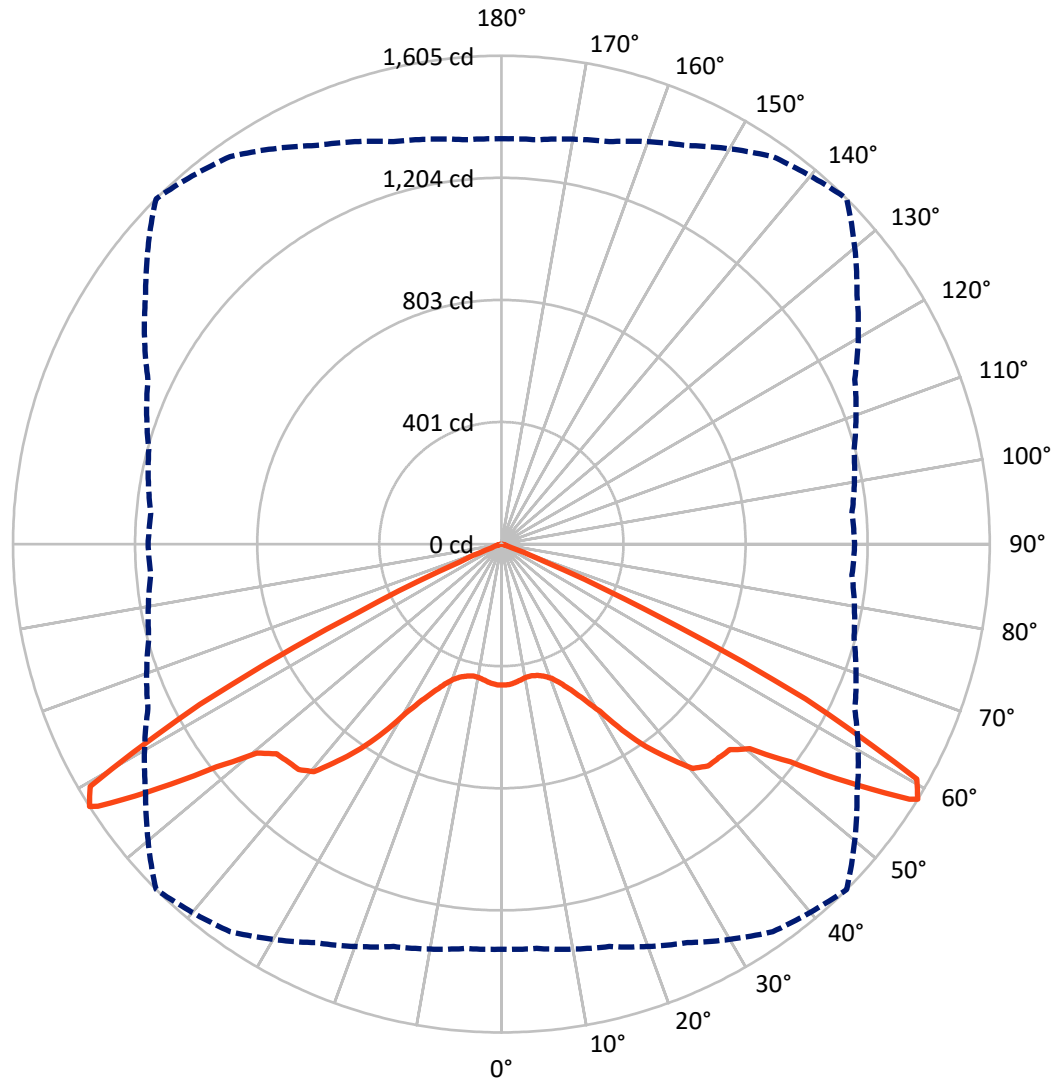
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1632.9 | 0.0 | 1632.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1632.9 | 0.0 | 1632.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3265.8 | 0.0 | 3265.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 43.2 | 1.3 |
| 10°-20° | 127.9 | 3.9 |
| 20°-30° | 241.8 | 7.4 |
| 30°-40° | 476.9 | 14.6 |
| 40°-50° | 754.7 | 23.1 |
| 50°-60° | 1109.4 | 34.0 |
| 60°-70° | 495.2 | 15.2 |
| 70°-80° | 16.6 | 0.5 |
| 80°-90° | 0.1 | 0.0 |
| 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° | 3265.8 | 100.0 |
| 0°-180° | 3265.8 | 100.0 |

Coefficient of Utilization



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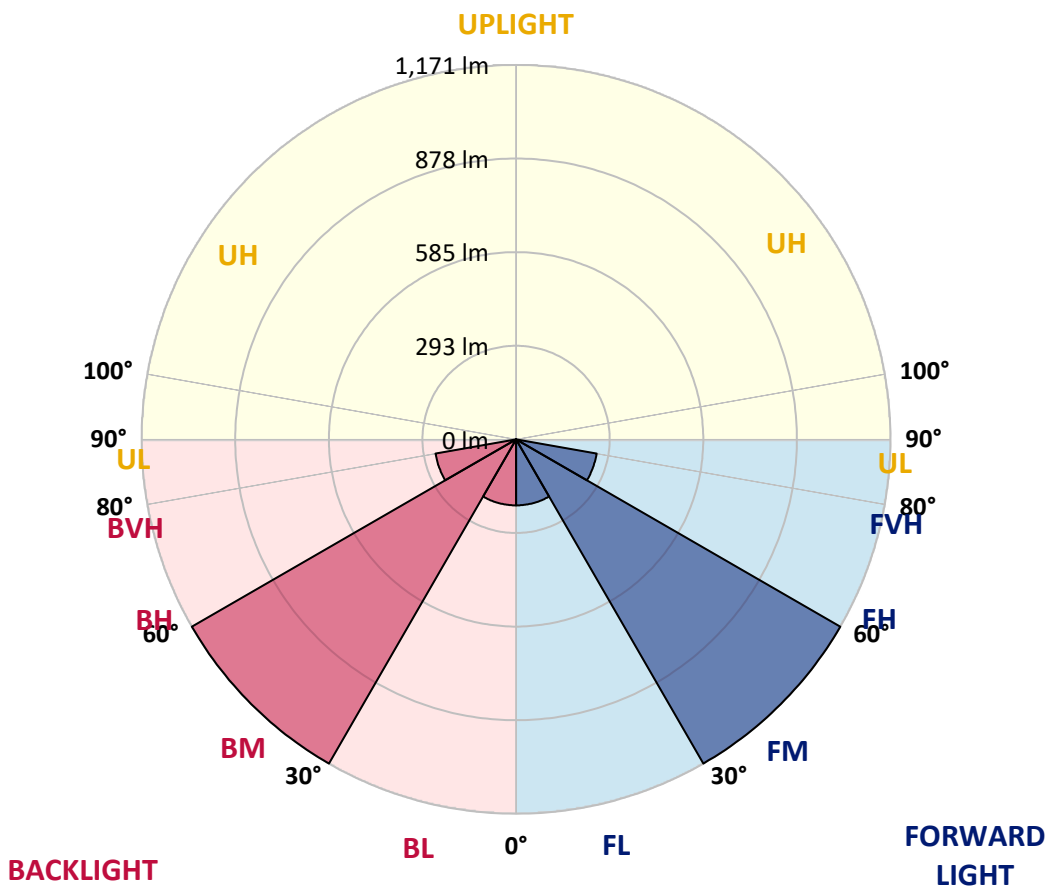
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 206.4 | 6.3 | | | |
| FM (30°-60°) | 1170.5 | 35.8 | | | |
| FH (60°-80°) | 255.9 | 7.8 | | | G0/660 |
| FVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 206.4 | 6.3 | B1/500 | | |
| BM (30°-60°) | 1170.5 | 35.8 | B2/2500 | | |
| BH (60°-80°) | 255.9 | 7.8 | B1/500 | | G0/660 |
| BVH (80°-90°) | 0.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 463.1 | 463.1 | 463.1 | 463.1 | 463.1 | 463.1 | 463.1 | 463.1 | 463.1 | 463.1 | 463.1 |
| 2.5° | 458.7 | 459.6 | 460.5 | 460.9 | 461.4 | 462.7 | 463.1 | 461.8 | 461.8 | 459.1 | 462.2 |
| 5° | 456.5 | 457.4 | 458.2 | 457.8 | 457.8 | 457.8 | 457.4 | 455.6 | 455.1 | 452.5 | 455.6 |
| 7.5° | 452.5 | 453.3 | 453.3 | 452.0 | 451.1 | 451.1 | 450.7 | 448.5 | 448.0 | 445.3 | 448.5 |
| 10° | 449.3 | 449.8 | 449.3 | 446.7 | 444.9 | 444.9 | 444.4 | 443.6 | 444.0 | 442.2 | 444.9 |
| 12.5° | 451.1 | 451.6 | 449.8 | 446.2 | 444.0 | 443.6 | 442.2 | 440.9 | 442.2 | 441.8 | 444.4 |
| 15° | 456.9 | 457.4 | 454.2 | 449.8 | 448.0 | 448.0 | 444.4 | 440.9 | 442.7 | 443.1 | 446.2 |
| 17.5° | 464.0 | 464.0 | 460.0 | 456.0 | 456.5 | 456.5 | 450.7 | 444.4 | 444.9 | 446.7 | 449.8 |
| 20° | 472.5 | 472.5 | 468.5 | 467.6 | 470.7 | 471.1 | 464.0 | 454.2 | 452.0 | 453.3 | 456.9 |
| 22.5° | 487.6 | 487.6 | 484.5 | 486.7 | 493.8 | 496.1 | 485.4 | 471.6 | 466.2 | 467.1 | 470.7 |
| 25° | 511.2 | 511.2 | 510.3 | 515.6 | 525.9 | 530.8 | 516.5 | 498.3 | 489.4 | 488.0 | 492.1 |
| 27.5° | 550.8 | 551.2 | 549.9 | 557.9 | 570.8 | 576.6 | 557.0 | 533.0 | 522.3 | 520.1 | 524.1 |
| 30° | 601.9 | 601.9 | 602.4 | 613.5 | 630.4 | 638.0 | 612.2 | 584.1 | 571.7 | 564.6 | 569.9 |
| 32.5° | 658.9 | 659.8 | 664.2 | 682.9 | 712.7 | 728.3 | 690.5 | 651.3 | 631.3 | 623.7 | 629.5 |
| 35° | 752.8 | 744.3 | 739.0 | 752.8 | 795.9 | 816.4 | 767.9 | 722.1 | 706.9 | 706.0 | 720.7 |
| 37.5° | 845.7 | 840.8 | 829.7 | 844.0 | 882.7 | 892.0 | 838.6 | 800.4 | 789.7 | 795.5 | 810.2 |
| 40° | 919.6 | 910.7 | 896.0 | 909.4 | 960.1 | 969.4 | 903.6 | 865.8 | 861.8 | 874.7 | 894.7 |
| 42.5° | 977.9 | 965.4 | 945.8 | 949.0 | 989.9 | 996.6 | 938.3 | 909.8 | 912.5 | 928.5 | 951.2 |
| 45° | 1004.1 | 994.3 | 977.0 | 975.7 | 1001.5 | 1001.9 | 956.1 | 941.4 | 948.5 | 961.0 | 978.8 |
| 47.5° | 1015.2 | 1010.8 | 1001.0 | 998.8 | 1013.5 | 1009.9 | 981.4 | 975.2 | 981.9 | 985.4 | 995.7 |
| 50° | 1042.8 | 1042.8 | 1044.2 | 1045.9 | 1061.1 | 1057.5 | 1037.5 | 1030.4 | 1021.9 | 1009.5 | 1012.6 |
| 52.5° | 1120.2 | 1123.4 | 1136.3 | 1150.5 | 1178.1 | 1189.6 | 1157.2 | 1115.8 | 1075.3 | 1048.2 | 1048.2 |
| 55° | 1259.9 | 1263.1 | 1278.2 | 1302.2 | 1352.9 | 1380.5 | 1304.9 | 1213.7 | 1158.1 | 1121.1 | 1126.0 |
| 57.5° | 1336.9 | 1340.5 | 1371.6 | 1436.6 | 1534.9 | 1581.6 | 1419.2 | 1284.0 | 1206.1 | 1163.8 | 1167.4 |
| 58° | 1332.0 | 1334.2 | 1369.4 | 1445.5 | 1554.9 | 1605.2 | 1427.2 | 1281.7 | 1199.9 | 1156.7 | 1161.2 |
| 60° | 1183.4 | 1180.3 | 1236.4 | 1344.9 | 1499.3 | 1568.7 | 1347.6 | 1170.1 | 1074.9 | 1030.8 | 1033.0 |
| 62.5° | 773.7 | 775.4 | 823.9 | 937.4 | 1057.5 | 1122.9 | 941.4 | 809.3 | 732.7 | 706.0 | 699.4 |
| 65° | 323.0 | 317.2 | 347.0 | 410.2 | 482.3 | 518.7 | 445.8 | 377.3 | 330.1 | 312.3 | 317.2 |
| 67.5° | 83.2 | 81.0 | 82.8 | 103.7 | 126.8 | 149.9 | 125.9 | 96.1 | 83.6 | 84.5 | 84.5 |
| 70° | 47.2 | 44.5 | 36.0 | 33.4 | 32.5 | 32.5 | 32.5 | 32.5 | 37.4 | 44.0 | 45.4 |
| 72.5° | 35.6 | 33.4 | 26.2 | 22.7 | 20.0 | 18.7 | 19.6 | 22.7 | 27.1 | 32.9 | 33.8 |
| 75° | 17.8 | 17.8 | 16.0 | 15.1 | 13.3 | 12.5 | 12.9 | 14.2 | 16.5 | 18.7 | 18.2 |
| 77.5° | 3.6 | 4.0 | 4.4 | 5.3 | 4.4 | 4.4 | 4.4 | 5.3 | 5.3 | 5.8 | 5.3 |
| 80° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 82.5° | 0.0 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)