

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: P634281

Luminaire Tested: GWS-SA3B-740-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3B-740-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10545 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

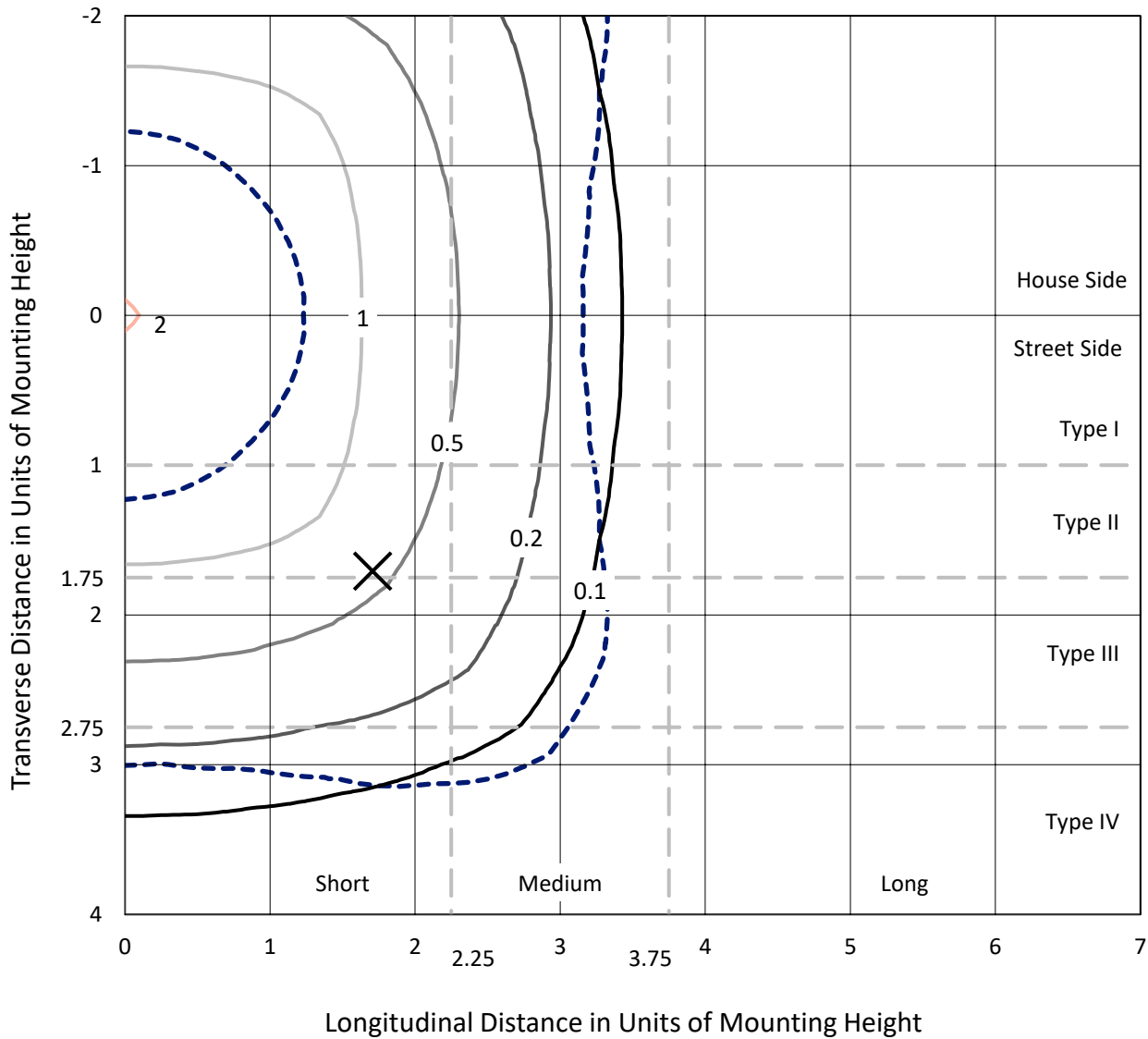
Input Watts (W): 68.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

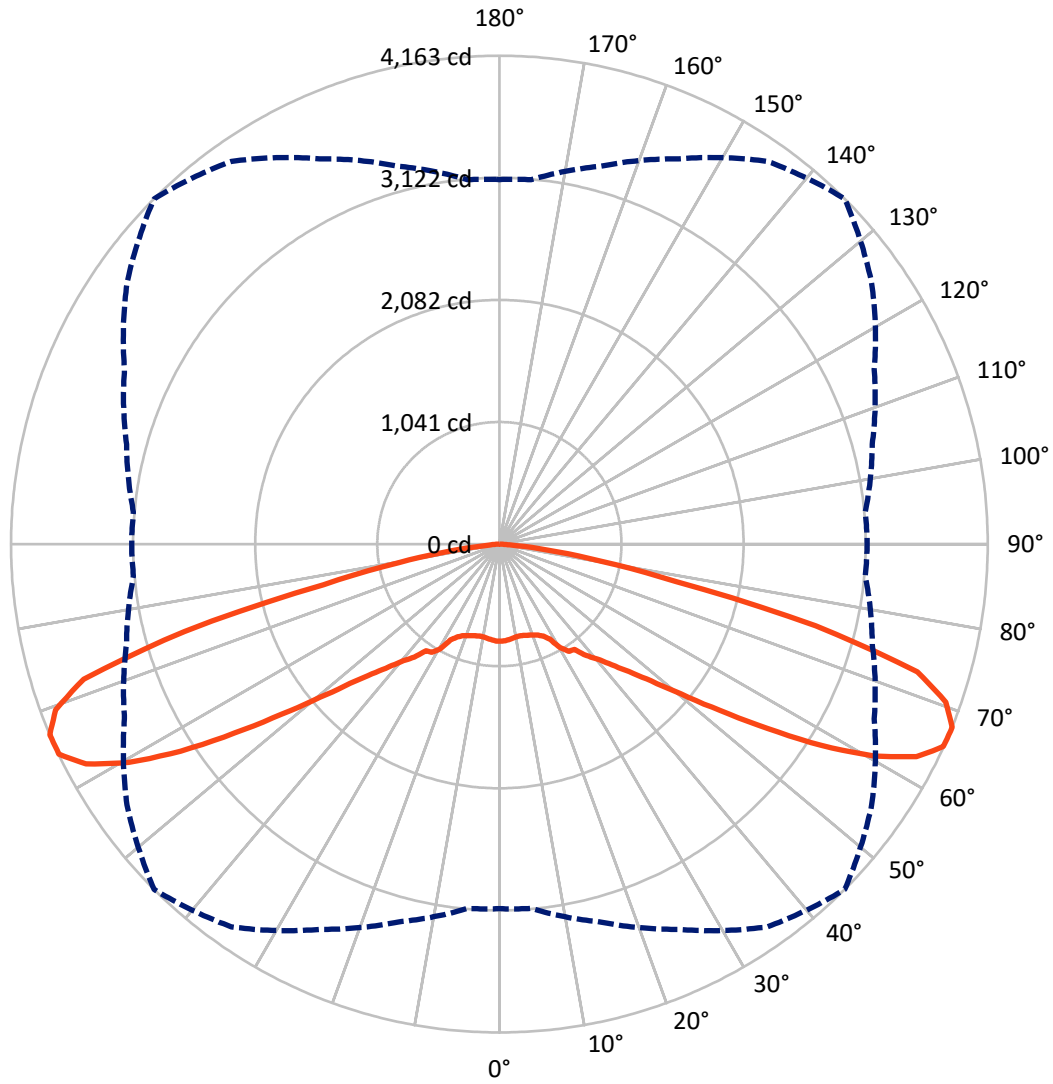
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.1 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 | 5272.5 | 0.0 | 5272.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5272.5 | 0.0 | 5272.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10545.0 | 0.0 | 10545.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 77.6 | 0.7 |
| 10°-20° | 230.4 | 2.2 |
| 20°-30° | 413.3 | 3.9 |
| 30°-40° | 698.2 | 6.6 |
| 40°-50° | 1226.8 | 11.6 |
| 50°-60° | 2366.5 | 22.4 |
| 60°-70° | 3433.5 | 32.6 |
| 70°-80° | 1964.5 | 18.6 |
| 80°-90° | 134.1 | 1.3 |
| 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° | 10545.0 | 100.0 |
| 0°-180° | 10545.0 | 100.0 |

Coefficient of Utilization



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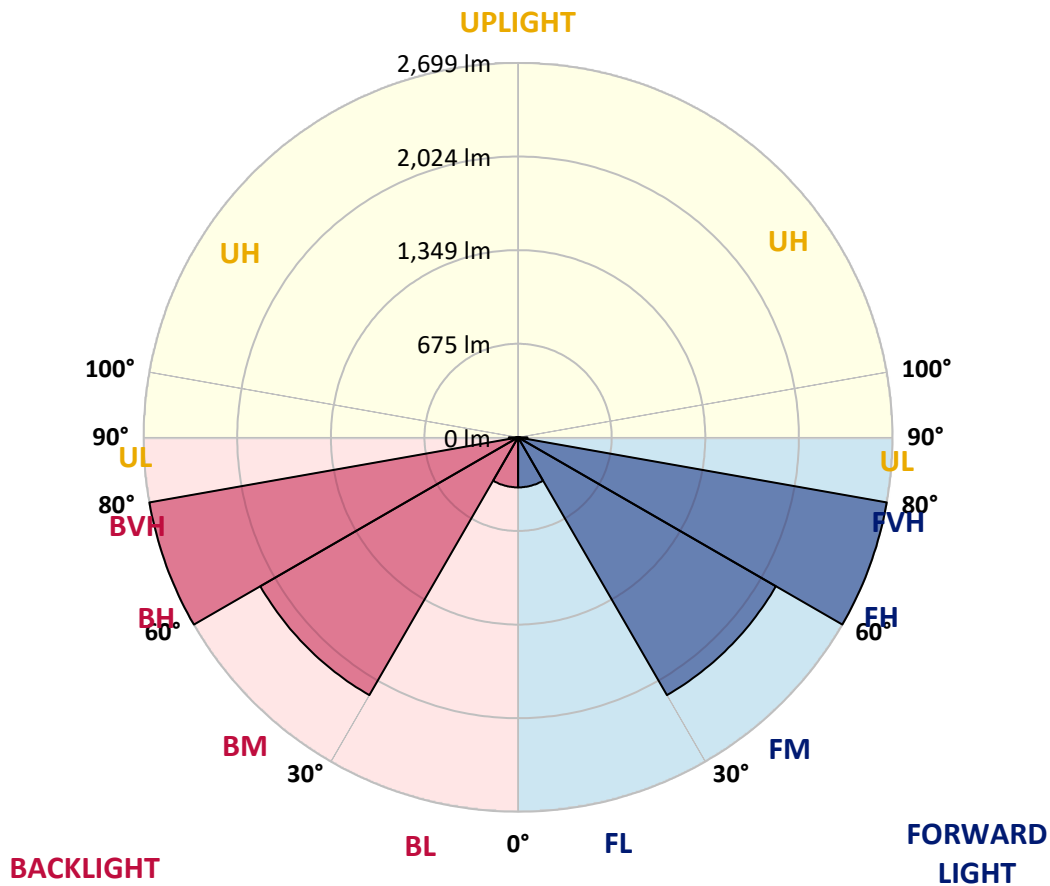
CATALOG NUMBER: GWS-SA3B-740-U-5WQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 360.7 | 3.4 | | | |
| FM (30°-60°) | 2145.8 | 20.3 | | | |
| FH (60°-80°) | 2699.0 | 25.6 | | | G2/5000 |
| FVH (80°-90°) | 67.0 | 0.6 | | | G1/100 |
| BL (0°-30°) | 360.7 | 3.4 | B1/500 | | |
| BM (30°-60°) | 2145.8 | 20.3 | B2/2500 | | |
| BH (60°-80°) | 2699.0 | 25.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 67.0 | 0.6 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 | 826.9 |
| 2.5° | 820.2 | 821.0 | 822.5 | 822.5 | 824.0 | 826.2 | 826.9 | 825.5 | 826.2 | 822.5 | 826.2 |
| 5° | 818.0 | 818.7 | 819.5 | 818.0 | 818.0 | 818.7 | 818.7 | 817.2 | 818.0 | 814.3 | 818.0 |
| 7.5° | 812.8 | 813.5 | 813.5 | 811.3 | 809.0 | 810.5 | 810.5 | 809.0 | 809.8 | 806.1 | 810.5 |
| 10° | 808.3 | 808.3 | 807.6 | 803.1 | 800.8 | 803.1 | 803.8 | 804.6 | 807.6 | 804.6 | 809.8 |
| 12.5° | 811.3 | 811.3 | 809.0 | 803.1 | 799.4 | 800.8 | 802.3 | 803.8 | 809.0 | 808.3 | 814.3 |
| 15° | 819.5 | 820.2 | 814.3 | 807.6 | 805.3 | 807.6 | 806.1 | 805.3 | 812.0 | 814.3 | 821.0 |
| 17.5° | 826.2 | 826.2 | 818.7 | 812.0 | 812.8 | 816.5 | 813.5 | 809.8 | 816.5 | 821.0 | 828.4 |
| 20° | 832.2 | 831.4 | 823.2 | 818.7 | 821.7 | 826.9 | 824.7 | 819.5 | 824.0 | 829.2 | 835.9 |
| 22.5° | 847.1 | 846.3 | 837.4 | 835.1 | 838.1 | 843.3 | 841.1 | 836.6 | 841.9 | 849.3 | 857.5 |
| 25° | 889.6 | 888.1 | 874.7 | 867.2 | 865.7 | 869.4 | 868.7 | 867.2 | 875.4 | 884.4 | 894.1 |
| 27.5° | 946.2 | 945.5 | 935.8 | 928.4 | 918.7 | 915.7 | 917.9 | 924.6 | 936.6 | 943.3 | 951.5 |
| 30° | 974.6 | 974.6 | 973.1 | 985.0 | 1005.9 | 1026.0 | 1010.4 | 985.0 | 974.6 | 971.6 | 979.8 |
| 32.5° | 1011.9 | 1015.6 | 1010.4 | 1023.8 | 1058.8 | 1088.7 | 1058.8 | 1017.8 | 1010.4 | 1010.4 | 1019.3 |
| 35° | 1097.6 | 1099.1 | 1090.9 | 1088.7 | 1099.9 | 1103.6 | 1089.4 | 1074.5 | 1082.7 | 1084.2 | 1095.4 |
| 37.5° | 1166.2 | 1166.2 | 1162.5 | 1168.5 | 1191.6 | 1205.7 | 1182.6 | 1155.8 | 1158.0 | 1159.5 | 1173.7 |
| 40° | 1272.1 | 1275.1 | 1266.1 | 1265.4 | 1274.3 | 1287.0 | 1262.4 | 1245.3 | 1257.2 | 1260.9 | 1282.5 |
| 42.5° | 1404.1 | 1404.1 | 1390.7 | 1386.9 | 1392.9 | 1406.3 | 1383.2 | 1372.0 | 1387.7 | 1390.7 | 1403.3 |
| 45° | 1561.4 | 1565.2 | 1547.3 | 1540.5 | 1543.5 | 1548.0 | 1531.6 | 1526.4 | 1541.3 | 1548.0 | 1570.4 |
| 47.5° | 1753.1 | 1756.8 | 1741.1 | 1740.4 | 1737.4 | 1740.4 | 1724.7 | 1721.7 | 1733.7 | 1728.5 | 1752.3 |
| 50° | 1989.4 | 1996.1 | 1982.7 | 2001.4 | 1999.1 | 2008.1 | 1986.5 | 1970.8 | 1970.8 | 1956.6 | 1970.0 |
| 52.5° | 2254.1 | 2267.6 | 2274.3 | 2305.6 | 2329.5 | 2351.8 | 2316.0 | 2291.4 | 2255.6 | 2226.6 | 2263.1 |
| 55° | 2542.7 | 2539.0 | 2581.5 | 2650.1 | 2720.2 | 2773.1 | 2703.0 | 2625.5 | 2567.3 | 2506.9 | 2521.1 |
| 57.5° | 2795.5 | 2808.2 | 2864.1 | 2989.4 | 3128.1 | 3239.9 | 3113.9 | 2964.8 | 2832.8 | 2746.3 | 2758.2 |
| 60° | 3005.8 | 3016.2 | 3090.8 | 3271.2 | 3513.6 | 3667.9 | 3468.1 | 3222.0 | 3030.4 | 2911.1 | 2923.8 |
| 62.5° | 3199.7 | 3209.3 | 3284.7 | 3483.8 | 3789.5 | 3990.8 | 3732.8 | 3396.5 | 3183.2 | 3063.2 | 3070.7 |
| 65° | 3311.5 | 3317.5 | 3420.4 | 3629.9 | 3952.0 | 4160.1 | 3869.3 | 3522.5 | 3313.0 | 3190.7 | 3195.2 |
| 67.5° | 3107.9 | 3117.6 | 3334.6 | 3623.9 | 3983.3 | 4163.1 | 3875.2 | 3526.3 | 3290.6 | 3131.1 | 3134.8 |
| 70° | 2451.7 | 2443.5 | 2702.3 | 3199.7 | 3803.6 | 4037.8 | 3703.0 | 3261.5 | 2897.7 | 2674.7 | 2671.0 |
| 72.5° | 1869.4 | 1871.6 | 2015.5 | 2356.3 | 3101.2 | 3726.1 | 3267.5 | 2626.2 | 2234.0 | 2064.7 | 2058.0 |
| 75° | 1355.6 | 1376.5 | 1493.6 | 1743.4 | 2169.1 | 2785.1 | 2460.0 | 1946.2 | 1683.7 | 1582.3 | 1567.4 |
| 77.5° | 610.7 | 637.5 | 800.8 | 1094.6 | 1450.3 | 1539.1 | 1545.0 | 1321.3 | 997.0 | 828.4 | 802.3 |
| 80° | 178.2 | 190.9 | 245.3 | 419.8 | 675.6 | 873.2 | 693.5 | 583.1 | 363.1 | 284.8 | 271.4 |
| 82.5° | 75.3 | 85.8 | 105.1 | 116.3 | 196.1 | 404.9 | 252.0 | 160.3 | 149.1 | 120.8 | 110.4 |
| 85° | 32.1 | 34.3 | 44.0 | 47.0 | 63.4 | 86.5 | 79.8 | 72.3 | 69.3 | 53.7 | 49.2 |
| 87.5° | 13.4 | 13.4 | 13.4 | 11.9 | 11.2 | 11.9 | 16.4 | 20.9 | 27.6 | 21.6 | 20.1 |
| 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)