

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: P632796

Luminaire Tested: GWS-SA2D-740-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632796
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-SA2D-740-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11837.2 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

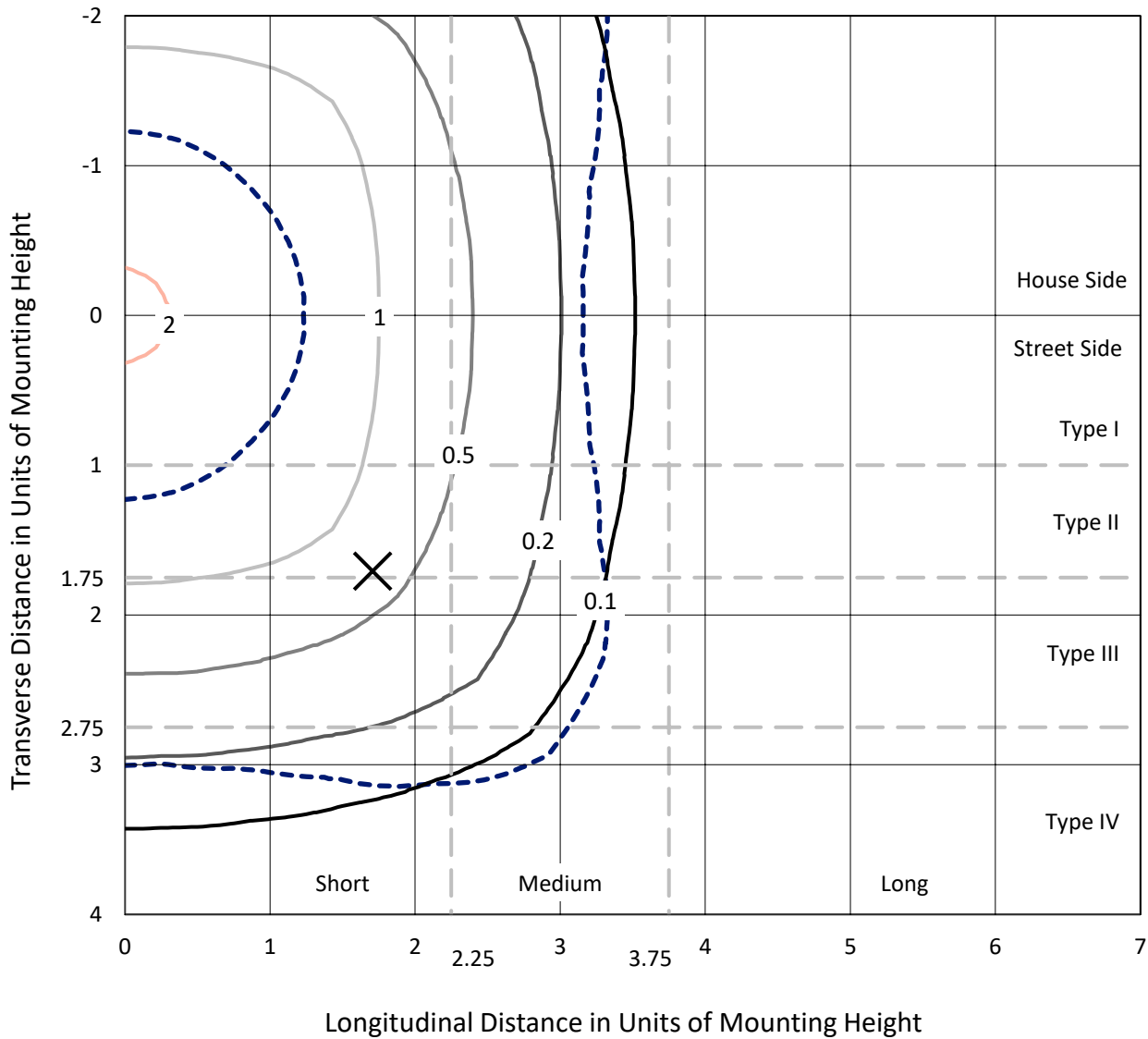
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

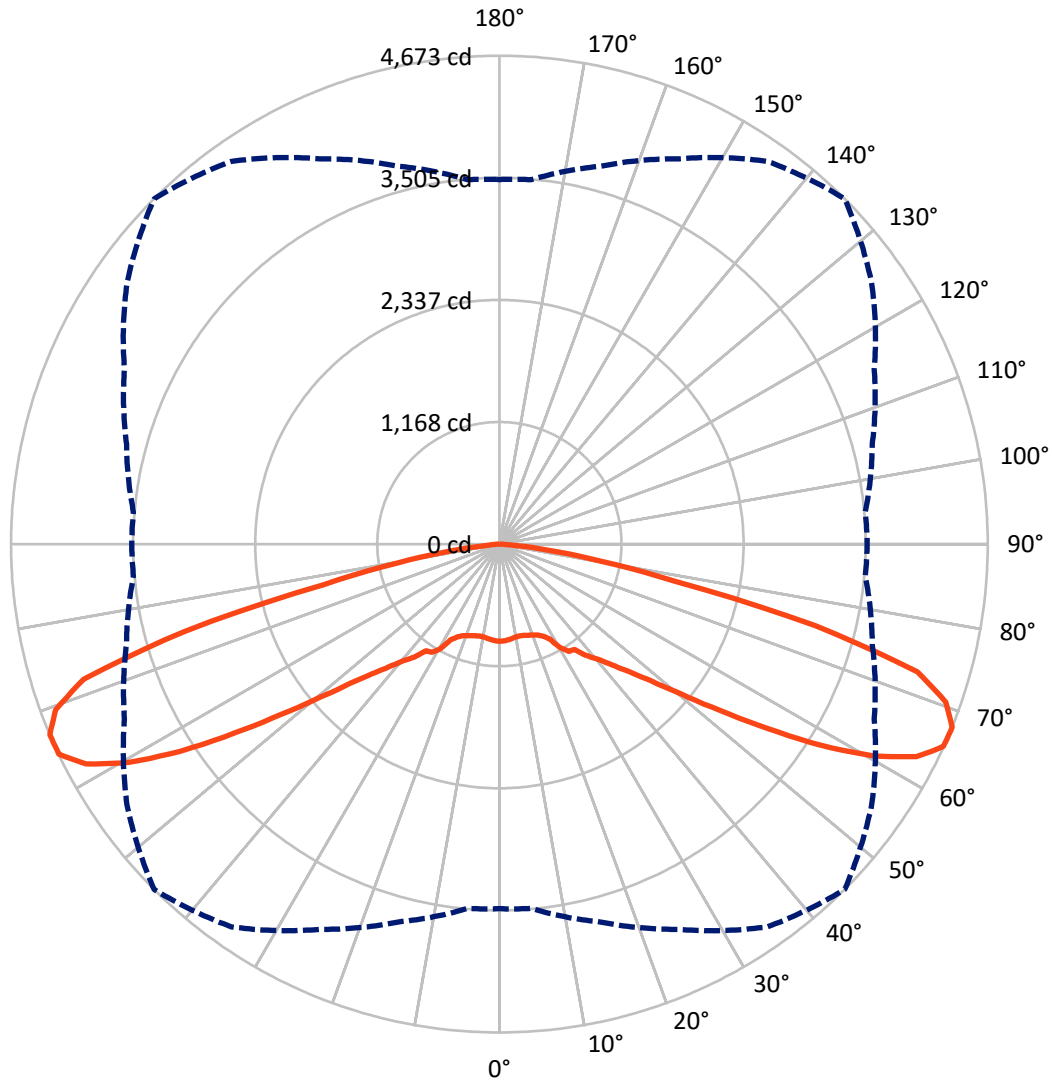
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 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 | 5918.6 | 0.0 | 5918.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5918.6 | 0.0 | 5918.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11837.2 | 0.0 | 11837.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 87.2 | 0.7 |
| 10°-20° | 258.6 | 2.2 |
| 20°-30° | 464.0 | 3.9 |
| 30°-40° | 783.8 | 6.6 |
| 40°-50° | 1377.1 | 11.6 |
| 50°-60° | 2656.5 | 22.4 |
| 60°-70° | 3854.2 | 32.6 |
| 70°-80° | 2205.2 | 18.6 |
| 80°-90° | 150.5 | 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° | 11837.2 | 100.0 |
| 0°-180° | 11837.2 | 100.0 |

Coefficient of Utilization



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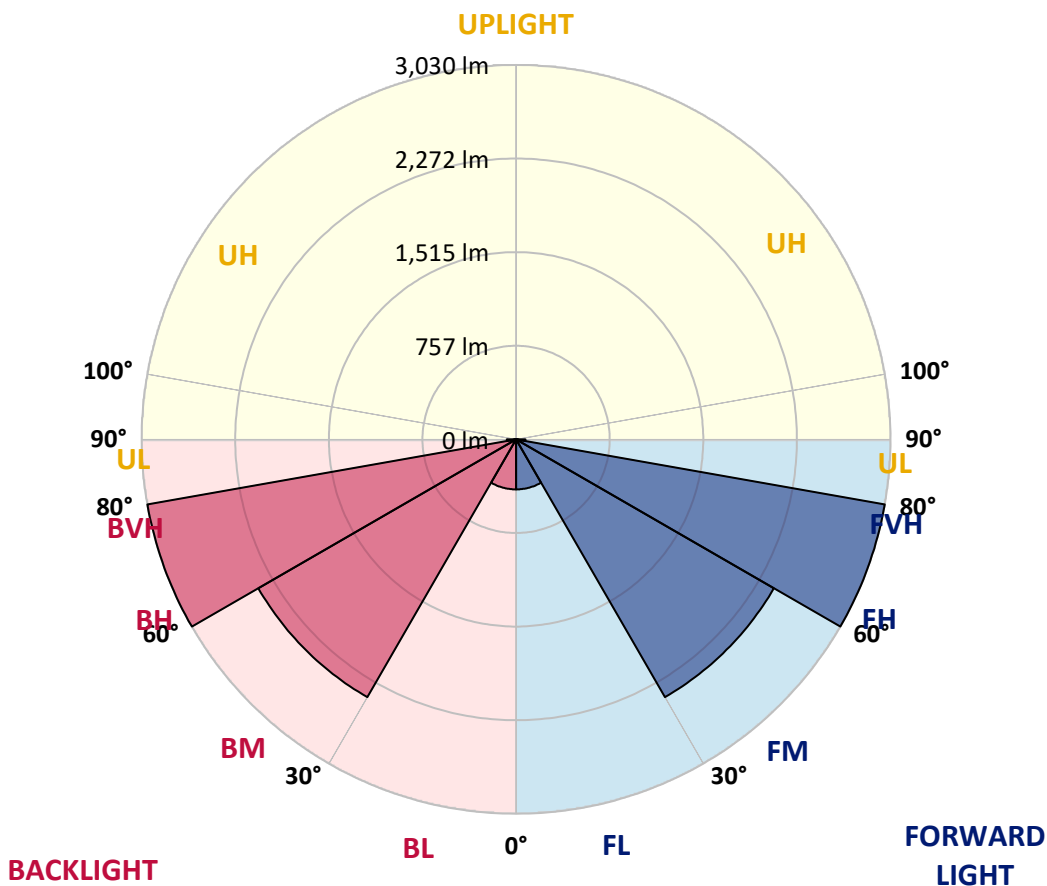
CATALOG NUMBER: GWS-SA2D-740-U-5WQ-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 404.9 | 3.4 | | | |
| FM (30°-60°) | 2408.7 | 20.3 | | | |
| FH (60°-80°) | 3029.7 | 25.6 | | | G2/5000 |
| FVH (80°-90°) | 75.3 | 0.6 | | | G1/100 |
| BL (0°-30°) | 404.9 | 3.4 | B1/500 | | |
| BM (30°-60°) | 2408.7 | 20.3 | B2/2500 | | |
| BH (60°-80°) | 3029.7 | 25.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 75.3 | 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° | 928.3 | 928.3 | 928.3 | 928.3 | 928.3 | 928.3 | 928.3 | 928.3 | 928.3 | 928.3 | 928.3 |
| 2.5° | 920.7 | 921.6 | 923.3 | 923.3 | 924.9 | 927.4 | 928.3 | 926.6 | 927.4 | 923.3 | 927.4 |
| 5° | 918.2 | 919.1 | 919.9 | 918.2 | 918.2 | 919.1 | 919.1 | 917.4 | 918.2 | 914.0 | 918.2 |
| 7.5° | 912.4 | 913.2 | 913.2 | 910.7 | 908.2 | 909.9 | 909.9 | 908.2 | 909.0 | 904.8 | 909.9 |
| 10° | 907.4 | 907.4 | 906.5 | 901.5 | 899.0 | 901.5 | 902.3 | 903.2 | 906.5 | 903.2 | 909.0 |
| 12.5° | 910.7 | 910.7 | 908.2 | 901.5 | 897.3 | 899.0 | 900.7 | 902.3 | 908.2 | 907.4 | 914.0 |
| 15° | 919.9 | 920.7 | 914.0 | 906.5 | 904.0 | 906.5 | 904.8 | 904.0 | 911.5 | 914.0 | 921.6 |
| 17.5° | 927.4 | 927.4 | 919.1 | 911.5 | 912.4 | 916.6 | 913.2 | 909.0 | 916.6 | 921.6 | 930.0 |
| 20° | 934.1 | 933.3 | 924.1 | 919.1 | 922.4 | 928.3 | 925.8 | 919.9 | 924.9 | 930.8 | 938.3 |
| 22.5° | 950.9 | 950.0 | 940.0 | 937.5 | 940.8 | 946.7 | 944.2 | 939.2 | 945.0 | 953.4 | 962.6 |
| 25° | 998.6 | 996.9 | 981.8 | 973.5 | 971.8 | 976.0 | 975.2 | 973.5 | 982.7 | 992.7 | 1003.6 |
| 27.5° | 1062.2 | 1061.4 | 1050.5 | 1042.1 | 1031.2 | 1027.9 | 1030.4 | 1037.9 | 1051.3 | 1058.9 | 1068.1 |
| 30° | 1094.0 | 1094.0 | 1092.3 | 1105.7 | 1129.2 | 1151.8 | 1134.2 | 1105.7 | 1094.0 | 1090.7 | 1099.9 |
| 32.5° | 1135.9 | 1140.0 | 1134.2 | 1149.3 | 1188.6 | 1222.1 | 1188.6 | 1142.6 | 1134.2 | 1134.2 | 1144.2 |
| 35° | 1232.1 | 1233.8 | 1224.6 | 1222.1 | 1234.6 | 1238.8 | 1222.9 | 1206.2 | 1215.4 | 1217.1 | 1229.6 |
| 37.5° | 1309.1 | 1309.1 | 1304.9 | 1311.6 | 1337.6 | 1353.5 | 1327.5 | 1297.4 | 1299.9 | 1301.6 | 1317.5 |
| 40° | 1428.0 | 1431.3 | 1421.3 | 1420.5 | 1430.5 | 1444.7 | 1417.1 | 1397.9 | 1411.3 | 1415.4 | 1439.7 |
| 42.5° | 1576.1 | 1576.1 | 1561.1 | 1556.9 | 1563.6 | 1578.7 | 1552.7 | 1540.2 | 1557.7 | 1561.1 | 1575.3 |
| 45° | 1752.8 | 1756.9 | 1736.9 | 1729.3 | 1732.7 | 1737.7 | 1719.3 | 1713.4 | 1730.2 | 1737.7 | 1762.8 |
| 47.5° | 1967.9 | 1972.1 | 1954.5 | 1953.7 | 1950.3 | 1953.7 | 1936.1 | 1932.7 | 1946.1 | 1940.3 | 1967.0 |
| 50° | 2233.2 | 2240.8 | 2225.7 | 2246.6 | 2244.1 | 2254.2 | 2229.9 | 2212.3 | 2212.3 | 2196.4 | 2211.5 |
| 52.5° | 2530.4 | 2545.4 | 2553.0 | 2588.1 | 2614.9 | 2640.0 | 2599.8 | 2572.2 | 2532.0 | 2499.4 | 2540.4 |
| 55° | 2854.3 | 2850.1 | 2897.8 | 2974.8 | 3053.5 | 3113.0 | 3034.3 | 2947.2 | 2881.9 | 2814.1 | 2830.0 |
| 57.5° | 3138.1 | 3152.3 | 3215.1 | 3355.7 | 3511.4 | 3636.9 | 3495.5 | 3328.1 | 3179.9 | 3082.8 | 3096.2 |
| 60° | 3374.1 | 3385.8 | 3469.5 | 3672.1 | 3944.1 | 4117.4 | 3893.1 | 3616.9 | 3401.7 | 3267.8 | 3282.0 |
| 62.5° | 3591.7 | 3602.6 | 3687.2 | 3910.7 | 4253.8 | 4479.8 | 4190.2 | 3812.7 | 3573.3 | 3438.6 | 3446.9 |
| 65° | 3717.3 | 3724.0 | 3839.5 | 4074.7 | 4436.3 | 4669.8 | 4343.4 | 3954.2 | 3719.0 | 3581.7 | 3586.7 |
| 67.5° | 3488.8 | 3499.7 | 3743.2 | 4068.0 | 4471.5 | 4673.2 | 4350.1 | 3958.4 | 3693.9 | 3514.7 | 3518.9 |
| 70° | 2752.2 | 2743.0 | 3033.4 | 3591.7 | 4269.7 | 4532.6 | 4156.7 | 3661.2 | 3252.7 | 3002.5 | 2998.3 |
| 72.5° | 2098.5 | 2101.0 | 2262.5 | 2645.0 | 3481.3 | 4182.7 | 3667.9 | 2948.1 | 2507.8 | 2317.8 | 2310.2 |
| 75° | 1521.7 | 1545.2 | 1676.6 | 1957.0 | 2435.0 | 3126.3 | 2761.4 | 2184.7 | 1890.0 | 1776.2 | 1759.5 |
| 77.5° | 685.5 | 715.7 | 899.0 | 1228.8 | 1628.0 | 1727.7 | 1734.3 | 1483.2 | 1119.1 | 930.0 | 900.7 |
| 80° | 200.1 | 214.3 | 275.4 | 471.3 | 758.4 | 980.2 | 778.4 | 654.6 | 407.6 | 319.7 | 304.7 |
| 82.5° | 84.5 | 96.3 | 118.0 | 130.6 | 220.1 | 454.5 | 282.9 | 180.0 | 167.4 | 135.6 | 123.9 |
| 85° | 36.0 | 38.5 | 49.4 | 52.7 | 71.1 | 97.1 | 89.6 | 81.2 | 77.8 | 60.3 | 55.2 |
| 87.5° | 15.1 | 15.1 | 15.1 | 13.4 | 12.6 | 13.4 | 18.4 | 23.4 | 31.0 | 24.3 | 22.6 |
| 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)