

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: P633344

Luminaire Tested: GWS-SA2E-750-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633344
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-SA2E-750-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7854.6 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

Input Watts (W): 108.2
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

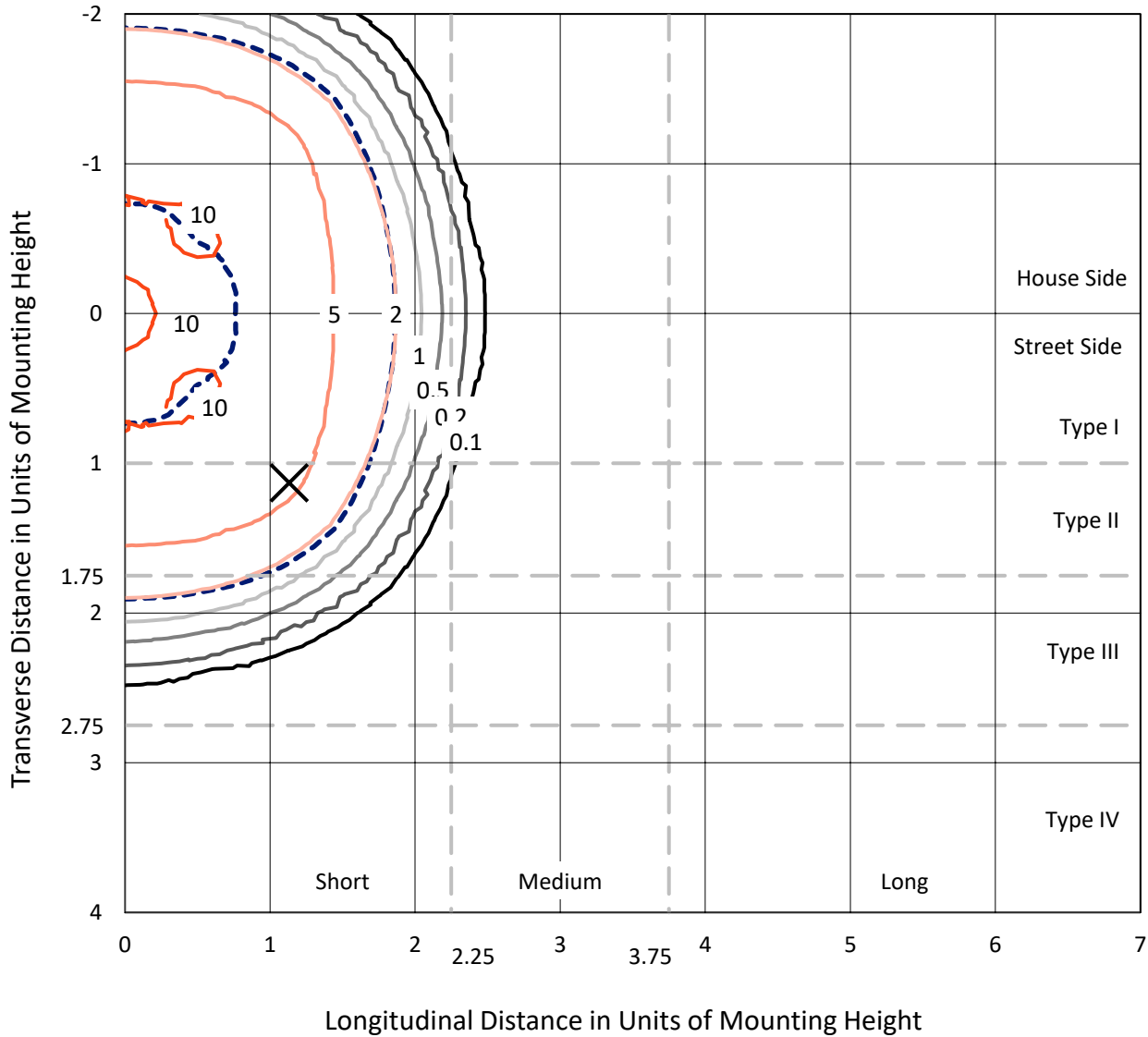


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Iso-Footcandle Lines of Horizontal Illumination

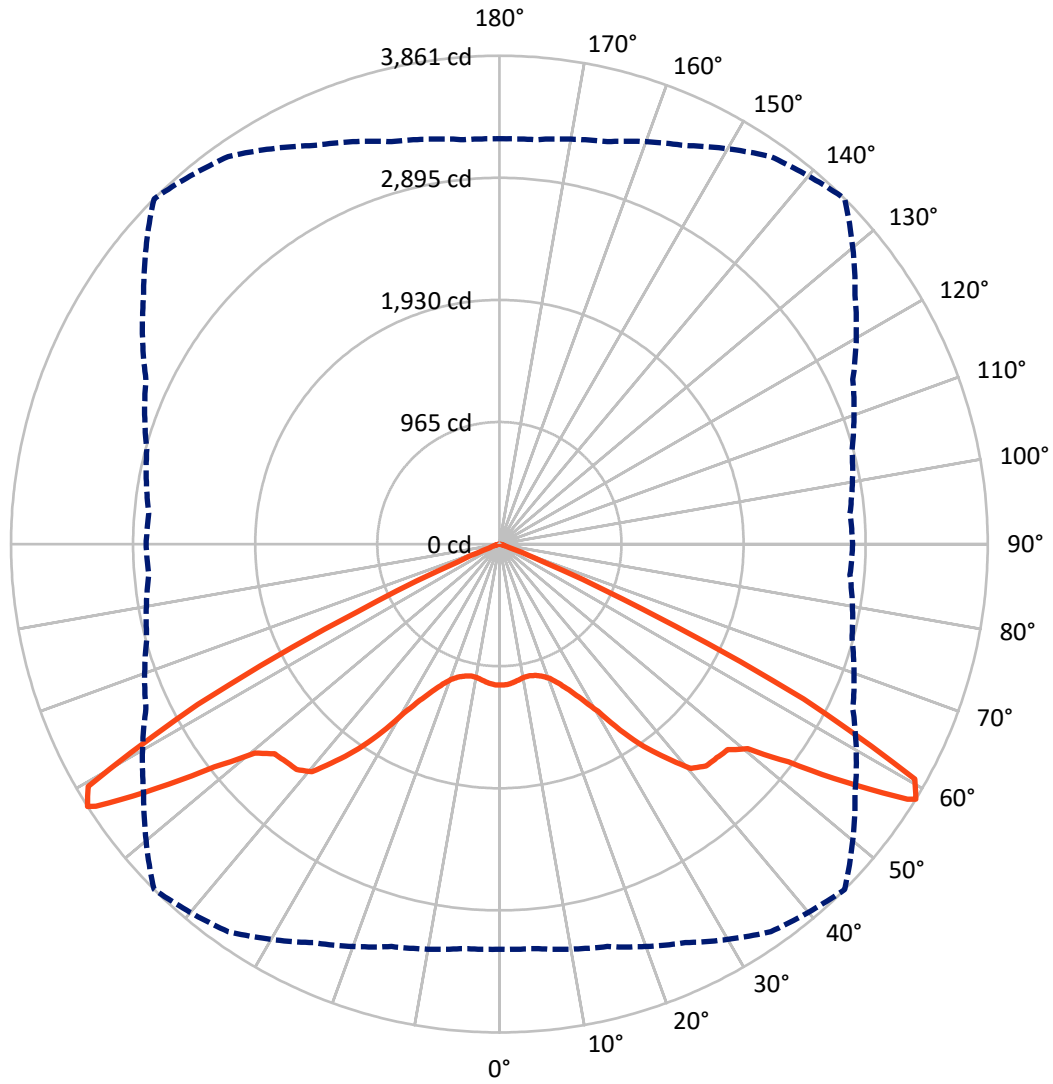
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 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 | 3927.3 | 0.0 | 3927.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3927.3 | 0.0 | 3927.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7854.6 | 0.0 | 7854.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 103.9 | 1.3 |
| 10°-20° | 307.5 | 3.9 |
| 20°-30° | 581.6 | 7.4 |
| 30°-40° | 1147.0 | 14.6 |
| 40°-50° | 1815.2 | 23.1 |
| 50°-60° | 2668.2 | 34.0 |
| 60°-70° | 1191.0 | 15.2 |
| 70°-80° | 39.9 | 0.5 |
| 80°-90° | 0.3 | 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° | 7854.6 | 100.0 |
| 0°-180° | 7854.6 | 100.0 |

Coefficient of Utilization



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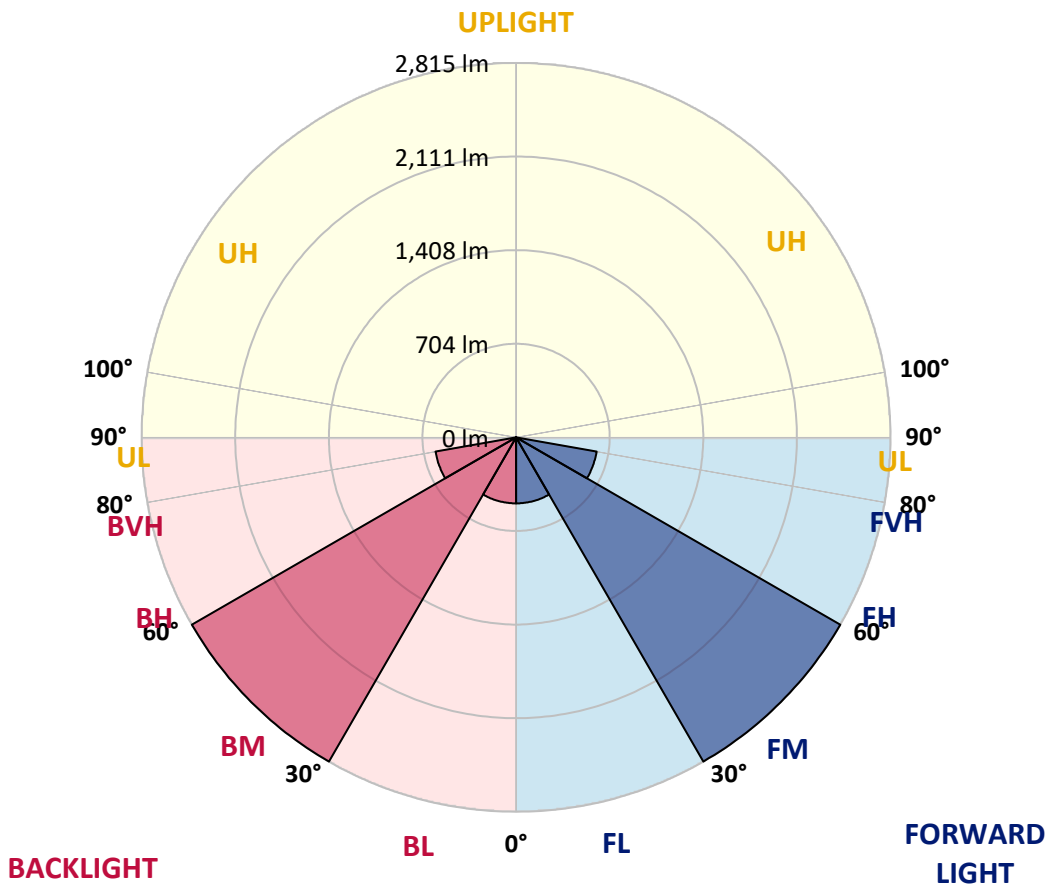
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 496.5 | 6.3 | | | |
| FM (30°-60°) | 2815.2 | 35.8 | | | |
| FH (60°-80°) | 615.4 | 7.8 | | | G0/660 |
| FVH (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| BL (0°-30°) | 496.5 | 6.3 | B1/500 | | |
| BM (30°-60°) | 2815.2 | 35.8 | B3/5000 | | |
| BH (60°-80°) | 615.4 | 7.8 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 0.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1113.9 | 1113.9 | 1113.9 | 1113.9 | 1113.9 | 1113.9 | 1113.9 | 1113.9 | 1113.9 | 1113.9 | 1113.9 |
| 2.5° | 1103.2 | 1105.3 | 1107.5 | 1108.5 | 1109.6 | 1112.8 | 1113.9 | 1110.7 | 1110.7 | 1104.3 | 1111.7 |
| 5° | 1097.8 | 1100.0 | 1102.1 | 1101.0 | 1101.0 | 1101.0 | 1100.0 | 1095.7 | 1094.6 | 1088.2 | 1095.7 |
| 7.5° | 1088.2 | 1090.3 | 1090.3 | 1087.1 | 1085.0 | 1085.0 | 1083.9 | 1078.6 | 1077.5 | 1071.1 | 1078.6 |
| 10° | 1080.7 | 1081.8 | 1080.7 | 1074.3 | 1070.0 | 1070.0 | 1068.9 | 1066.8 | 1067.9 | 1063.6 | 1070.0 |
| 12.5° | 1085.0 | 1086.1 | 1081.8 | 1073.2 | 1067.9 | 1066.8 | 1063.6 | 1060.4 | 1063.6 | 1062.5 | 1068.9 |
| 15° | 1098.9 | 1100.0 | 1092.5 | 1081.8 | 1077.5 | 1077.5 | 1068.9 | 1060.4 | 1064.7 | 1065.7 | 1073.2 |
| 17.5° | 1116.0 | 1116.0 | 1106.4 | 1096.8 | 1097.8 | 1097.8 | 1083.9 | 1068.9 | 1070.0 | 1074.3 | 1081.8 |
| 20° | 1136.4 | 1136.4 | 1126.7 | 1124.6 | 1132.1 | 1133.1 | 1116.0 | 1092.5 | 1087.1 | 1090.3 | 1098.9 |
| 22.5° | 1172.7 | 1172.7 | 1165.2 | 1170.6 | 1187.7 | 1193.1 | 1167.4 | 1134.2 | 1121.4 | 1123.5 | 1132.1 |
| 25° | 1229.4 | 1229.4 | 1227.3 | 1240.1 | 1264.8 | 1276.5 | 1242.3 | 1198.4 | 1177.0 | 1173.8 | 1183.4 |
| 27.5° | 1324.7 | 1325.8 | 1322.5 | 1341.8 | 1372.8 | 1386.7 | 1339.7 | 1281.9 | 1256.2 | 1250.8 | 1260.5 |
| 30° | 1447.7 | 1447.7 | 1448.8 | 1475.6 | 1516.2 | 1534.4 | 1472.3 | 1404.9 | 1375.0 | 1357.9 | 1370.7 |
| 32.5° | 1584.7 | 1586.8 | 1597.5 | 1642.5 | 1714.2 | 1751.6 | 1660.7 | 1566.5 | 1518.4 | 1500.2 | 1514.1 |
| 35° | 1810.5 | 1790.1 | 1777.3 | 1810.5 | 1914.3 | 1963.5 | 1846.8 | 1736.6 | 1700.3 | 1698.1 | 1733.4 |
| 37.5° | 2034.1 | 2022.3 | 1995.6 | 2029.8 | 2122.9 | 2145.4 | 2017.0 | 1925.0 | 1899.3 | 1913.2 | 1948.5 |
| 40° | 2211.7 | 2190.3 | 2155.0 | 2187.1 | 2309.1 | 2331.6 | 2173.2 | 2082.3 | 2072.6 | 2103.7 | 2151.8 |
| 42.5° | 2351.9 | 2321.9 | 2274.9 | 2282.3 | 2380.8 | 2396.8 | 2256.7 | 2188.2 | 2194.6 | 2233.1 | 2287.7 |
| 45° | 2415.0 | 2391.5 | 2349.8 | 2346.5 | 2408.6 | 2409.7 | 2299.5 | 2264.2 | 2281.3 | 2311.2 | 2354.0 |
| 47.5° | 2441.8 | 2431.1 | 2407.5 | 2402.2 | 2437.5 | 2428.9 | 2360.5 | 2345.5 | 2361.5 | 2370.1 | 2394.7 |
| 50° | 2508.1 | 2508.1 | 2511.3 | 2515.6 | 2552.0 | 2543.4 | 2495.3 | 2478.2 | 2457.8 | 2427.9 | 2435.4 |
| 52.5° | 2694.3 | 2701.8 | 2732.8 | 2767.1 | 2833.4 | 2861.2 | 2783.1 | 2683.6 | 2586.2 | 2521.0 | 2521.0 |
| 55° | 3030.3 | 3037.8 | 3074.2 | 3131.9 | 3253.9 | 3320.3 | 3138.4 | 2919.0 | 2785.3 | 2696.4 | 2708.2 |
| 57.5° | 3215.4 | 3224.0 | 3298.9 | 3455.1 | 3691.6 | 3803.9 | 3413.4 | 3088.1 | 2900.8 | 2799.2 | 2807.7 |
| 58° | 3203.6 | 3209.0 | 3293.5 | 3476.5 | 3739.7 | 3860.6 | 3432.6 | 3082.7 | 2885.8 | 2782.0 | 2792.7 |
| 60° | 2846.2 | 2838.8 | 2973.6 | 3234.7 | 3606.0 | 3772.9 | 3241.1 | 2814.1 | 2585.2 | 2479.2 | 2484.6 |
| 62.5° | 1860.8 | 1865.0 | 1981.7 | 2254.5 | 2543.4 | 2700.7 | 2264.2 | 1946.4 | 1762.3 | 1698.1 | 1682.1 |
| 65° | 776.8 | 762.9 | 834.6 | 986.6 | 1159.9 | 1247.6 | 1072.2 | 907.4 | 794.0 | 751.2 | 762.9 |
| 67.5° | 200.1 | 194.7 | 199.0 | 249.3 | 305.0 | 360.6 | 302.8 | 231.1 | 201.2 | 203.3 | 203.3 |
| 70° | 113.4 | 107.0 | 86.7 | 80.3 | 78.1 | 78.1 | 78.1 | 78.1 | 89.9 | 105.9 | 109.1 |
| 72.5° | 85.6 | 80.3 | 63.1 | 54.6 | 48.2 | 44.9 | 47.1 | 54.6 | 65.3 | 79.2 | 81.3 |
| 75° | 42.8 | 42.8 | 38.5 | 36.4 | 32.1 | 30.0 | 31.0 | 34.2 | 39.6 | 44.9 | 43.9 |
| 77.5° | 8.6 | 9.6 | 10.7 | 12.8 | 10.7 | 10.7 | 10.7 | 12.8 | 12.8 | 13.9 | 12.8 |
| 80° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 82.5° | 0.0 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 1.1 | 1.1 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 |
| 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)