

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: P637031

Luminaire Tested: GWS-SA4C-722-U-5WQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637031
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-SA4C-722-U-5WQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14495.8 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

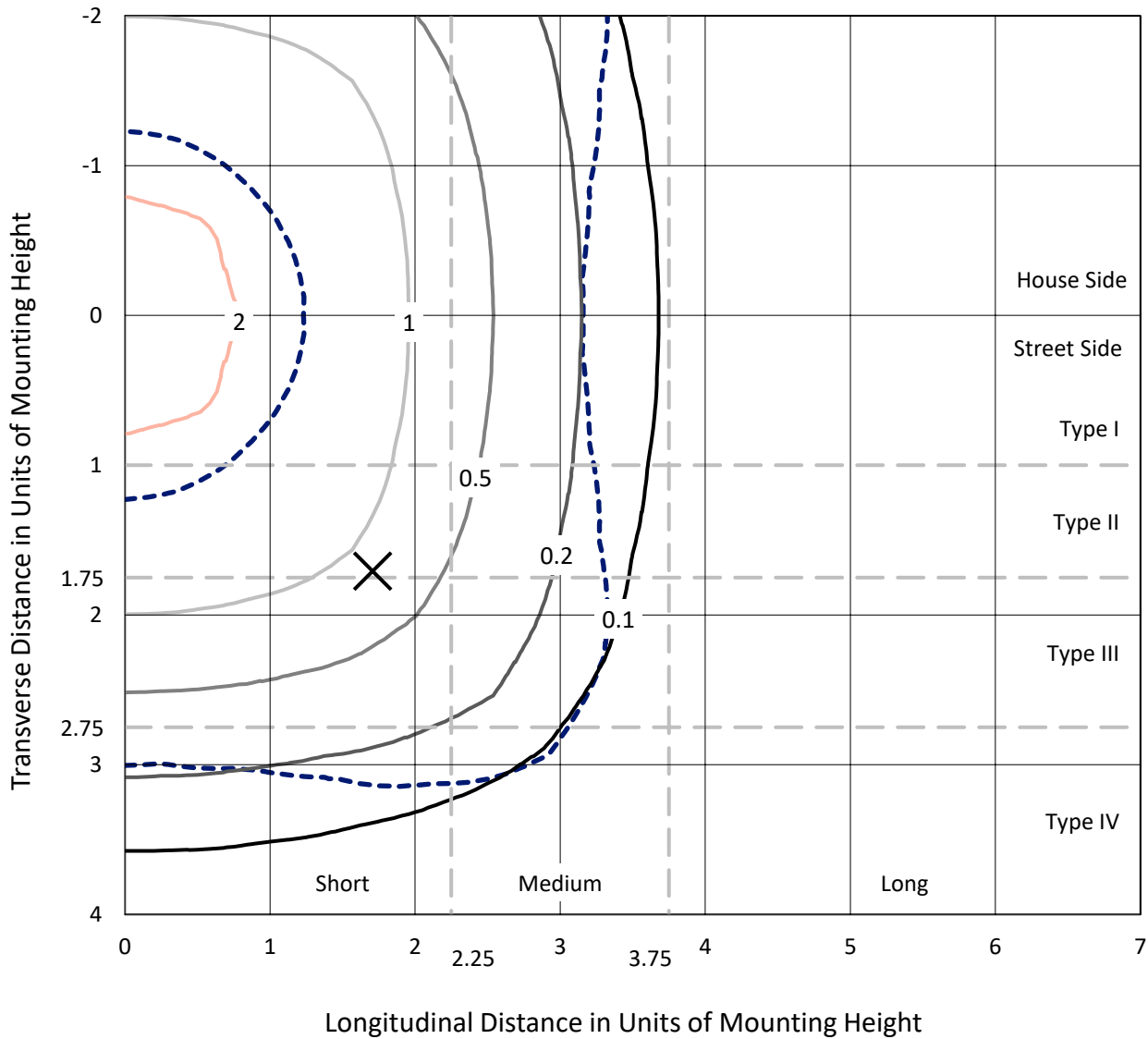
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

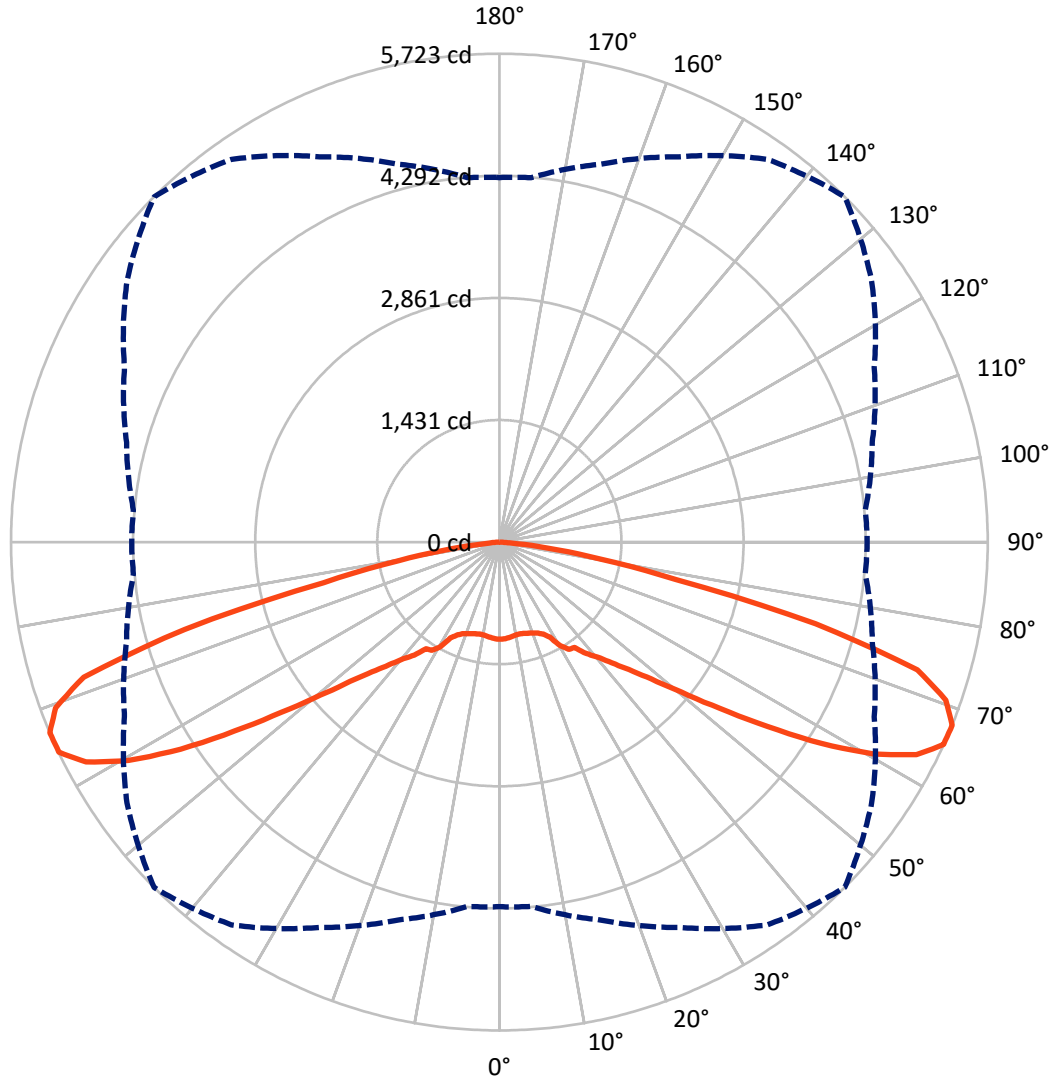
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 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 | 7247.9 | 0.0 | 7247.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7247.9 | 0.0 | 7247.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14495.8 | 0.0 | 14495.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 106.7 | 0.7 |
| 10°-20° | 316.7 | 2.2 |
| 20°-30° | 568.2 | 3.9 |
| 30°-40° | 959.8 | 6.6 |
| 40°-50° | 1686.4 | 11.6 |
| 50°-60° | 3253.2 | 22.4 |
| 60°-70° | 4719.9 | 32.6 |
| 70°-80° | 2700.5 | 18.6 |
| 80°-90° | 184.3 | 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° | 14495.8 | 100.0 |
| 0°-180° | 14495.8 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P637031

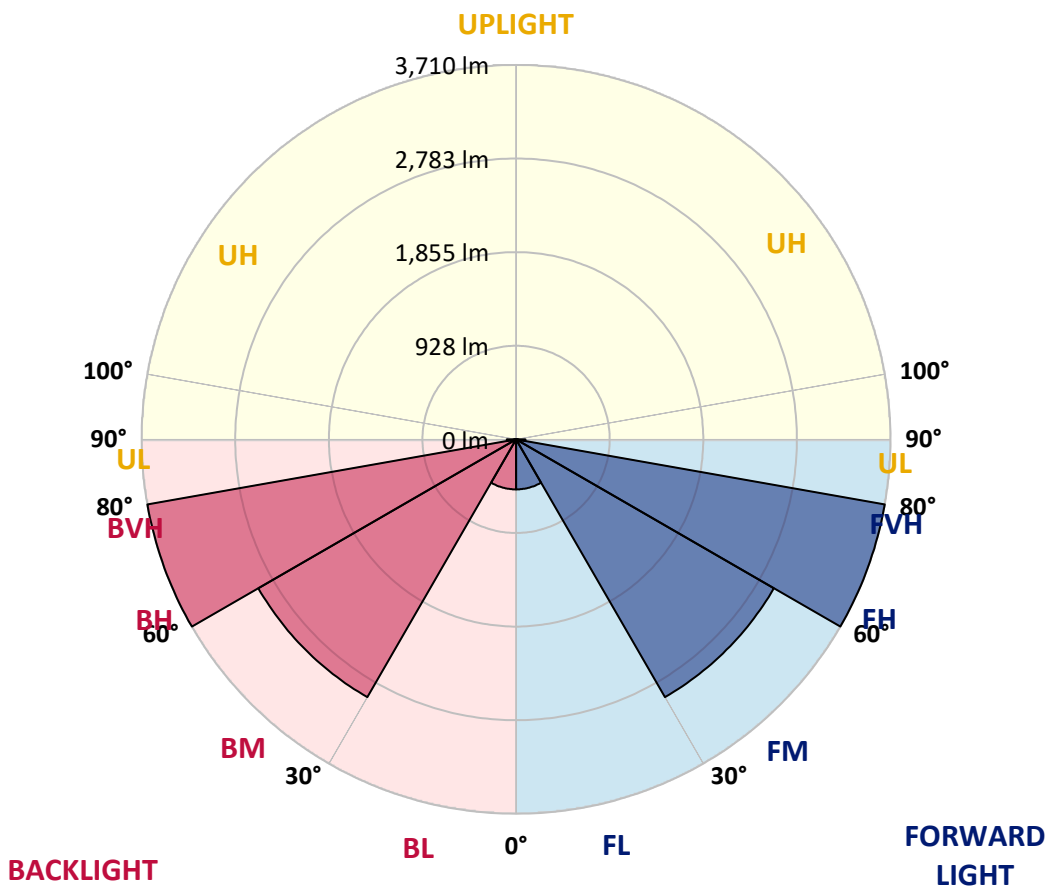
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 495.8 | 3.4 | | | |
| FM (30°-60°) | 2949.7 | 20.3 | | | |
| FH (60°-80°) | 3710.2 | 25.6 | | | G2/5000 |
| FVH (80°-90°) | 92.2 | 0.6 | | | G1/100 |
| BL (0°-30°) | 495.8 | 3.4 | B1/500 | | |
| BM (30°-60°) | 2949.7 | 20.3 | B3/5000 | | |
| BH (60°-80°) | 3710.2 | 25.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 92.2 | 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° | 1136.8 | 1136.8 | 1136.8 | 1136.8 | 1136.8 | 1136.8 | 1136.8 | 1136.8 | 1136.8 | 1136.8 | 1136.8 |
| 2.5° | 1127.5 | 1128.6 | 1130.6 | 1130.6 | 1132.7 | 1135.7 | 1136.8 | 1134.7 | 1135.7 | 1130.6 | 1135.7 |
| 5° | 1124.5 | 1125.5 | 1126.5 | 1124.5 | 1124.5 | 1125.5 | 1125.5 | 1123.4 | 1124.5 | 1119.3 | 1124.5 |
| 7.5° | 1117.3 | 1118.3 | 1118.3 | 1115.2 | 1112.2 | 1114.2 | 1114.2 | 1112.2 | 1113.2 | 1108.1 | 1114.2 |
| 10° | 1111.1 | 1111.1 | 1110.1 | 1104.0 | 1100.9 | 1104.0 | 1105.0 | 1106.0 | 1110.1 | 1106.0 | 1113.2 |
| 12.5° | 1115.2 | 1115.2 | 1112.2 | 1104.0 | 1098.8 | 1100.9 | 1102.9 | 1105.0 | 1112.2 | 1111.1 | 1119.3 |
| 15° | 1126.5 | 1127.5 | 1119.3 | 1110.1 | 1107.0 | 1110.1 | 1108.1 | 1107.0 | 1116.3 | 1119.3 | 1128.6 |
| 17.5° | 1135.7 | 1135.7 | 1125.5 | 1116.3 | 1117.3 | 1122.4 | 1118.3 | 1113.2 | 1122.4 | 1128.6 | 1138.8 |
| 20° | 1143.9 | 1142.9 | 1131.6 | 1125.5 | 1129.6 | 1136.8 | 1133.7 | 1126.5 | 1132.7 | 1139.8 | 1149.1 |
| 22.5° | 1164.4 | 1163.4 | 1151.1 | 1148.0 | 1152.1 | 1159.3 | 1156.2 | 1150.1 | 1157.3 | 1167.5 | 1178.8 |
| 25° | 1222.9 | 1220.8 | 1202.4 | 1192.1 | 1190.1 | 1195.2 | 1194.2 | 1192.1 | 1203.4 | 1215.7 | 1229.0 |
| 27.5° | 1300.8 | 1299.7 | 1286.4 | 1276.2 | 1262.8 | 1258.7 | 1261.8 | 1271.0 | 1287.4 | 1296.7 | 1307.9 |
| 30° | 1339.7 | 1339.7 | 1337.7 | 1354.1 | 1382.8 | 1410.5 | 1388.9 | 1354.1 | 1339.7 | 1335.6 | 1346.9 |
| 32.5° | 1391.0 | 1396.1 | 1388.9 | 1407.4 | 1455.6 | 1496.6 | 1455.6 | 1399.2 | 1388.9 | 1388.9 | 1401.2 |
| 35° | 1508.9 | 1510.9 | 1499.6 | 1496.6 | 1511.9 | 1517.1 | 1497.6 | 1477.1 | 1488.4 | 1490.4 | 1505.8 |
| 37.5° | 1603.2 | 1603.2 | 1598.0 | 1606.2 | 1638.0 | 1657.5 | 1625.7 | 1588.8 | 1591.9 | 1593.9 | 1613.4 |
| 40° | 1748.7 | 1752.8 | 1740.5 | 1739.5 | 1751.8 | 1769.2 | 1735.4 | 1711.8 | 1728.2 | 1733.3 | 1763.1 |
| 42.5° | 1930.1 | 1930.1 | 1911.7 | 1906.6 | 1914.8 | 1933.2 | 1901.4 | 1886.1 | 1907.6 | 1911.7 | 1929.1 |
| 45° | 2146.4 | 2151.6 | 2127.0 | 2117.7 | 2121.8 | 2128.0 | 2105.4 | 2098.3 | 2118.8 | 2128.0 | 2158.7 |
| 47.5° | 2409.9 | 2415.0 | 2393.5 | 2392.4 | 2388.3 | 2392.4 | 2370.9 | 2366.8 | 2383.2 | 2376.0 | 2408.8 |
| 50° | 2734.8 | 2744.0 | 2725.6 | 2751.2 | 2748.1 | 2760.4 | 2730.7 | 2709.2 | 2709.2 | 2689.7 | 2708.1 |
| 52.5° | 3098.7 | 3117.1 | 3126.4 | 3169.4 | 3202.2 | 3233.0 | 3183.8 | 3149.9 | 3100.7 | 3060.8 | 3111.0 |
| 55° | 3495.4 | 3490.3 | 3548.7 | 3643.0 | 3739.3 | 3812.1 | 3715.8 | 3609.2 | 3529.2 | 3446.2 | 3465.7 |
| 57.5° | 3842.9 | 3860.3 | 3937.2 | 4109.4 | 4300.0 | 4453.8 | 4280.6 | 4075.5 | 3894.1 | 3775.2 | 3791.6 |
| 60° | 4131.9 | 4146.3 | 4248.8 | 4496.8 | 4830.0 | 5042.2 | 4767.4 | 4429.2 | 4165.8 | 4001.7 | 4019.2 |
| 62.5° | 4398.4 | 4411.8 | 4515.3 | 4789.0 | 5209.2 | 5486.0 | 5131.3 | 4669.0 | 4375.9 | 4210.9 | 4221.1 |
| 65° | 4552.2 | 4560.4 | 4701.8 | 4989.9 | 5432.7 | 5718.7 | 5318.9 | 4842.3 | 4554.2 | 4386.1 | 4392.3 |
| 67.5° | 4272.4 | 4285.7 | 4584.0 | 4981.7 | 5475.8 | 5722.8 | 5327.1 | 4847.4 | 4523.5 | 4304.1 | 4309.3 |
| 70° | 3370.3 | 3359.0 | 3714.7 | 4398.4 | 5228.7 | 5550.6 | 5090.3 | 4483.5 | 3983.3 | 3676.8 | 3671.7 |
| 72.5° | 2569.8 | 2572.8 | 2770.7 | 3239.1 | 4263.1 | 5122.1 | 4491.7 | 3610.2 | 3071.0 | 2838.3 | 2829.1 |
| 75° | 1863.5 | 1892.2 | 2053.2 | 2396.5 | 2981.8 | 3828.5 | 3381.6 | 2675.3 | 2314.5 | 2175.1 | 2154.6 |
| 77.5° | 839.5 | 876.4 | 1100.9 | 1504.8 | 1993.7 | 2115.7 | 2123.9 | 1816.4 | 1370.5 | 1138.8 | 1102.9 |
| 80° | 245.0 | 262.4 | 337.2 | 577.1 | 928.7 | 1200.3 | 953.3 | 801.6 | 499.2 | 391.6 | 373.1 |
| 82.5° | 103.5 | 117.9 | 144.5 | 159.9 | 269.6 | 556.6 | 346.5 | 220.4 | 205.0 | 166.1 | 151.7 |
| 85° | 44.1 | 47.2 | 60.5 | 64.6 | 87.1 | 118.9 | 109.7 | 99.4 | 95.3 | 73.8 | 67.7 |
| 87.5° | 18.5 | 18.5 | 18.5 | 16.4 | 15.4 | 16.4 | 22.6 | 28.7 | 37.9 | 29.7 | 27.7 |
| 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)