

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: P636858

Luminaire Tested: GWS-SA4B-760-U-5MQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-760-U-5MQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

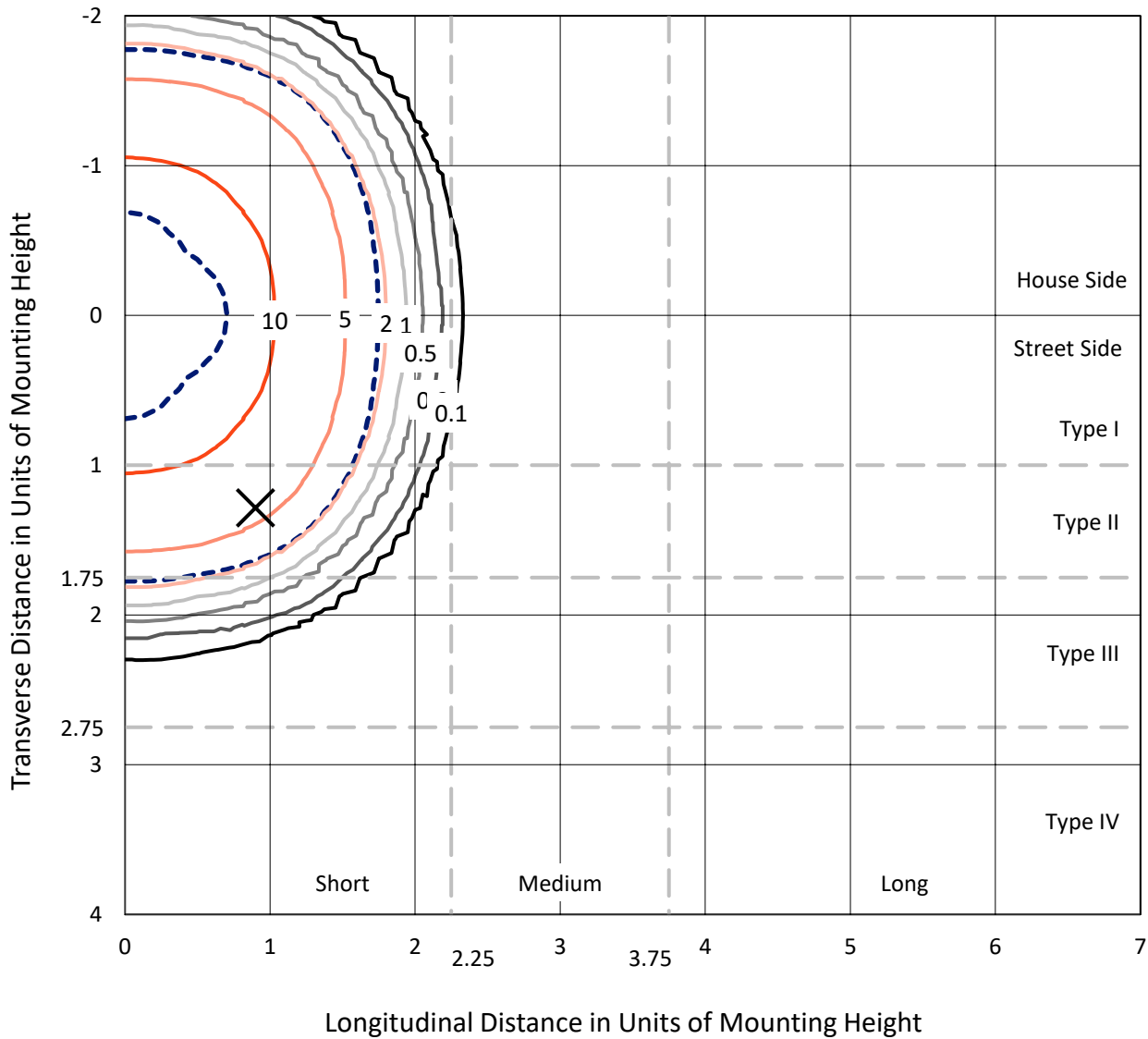
Lumens per Lamp: N/A  
Luminaire Lumens: 8922.3 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

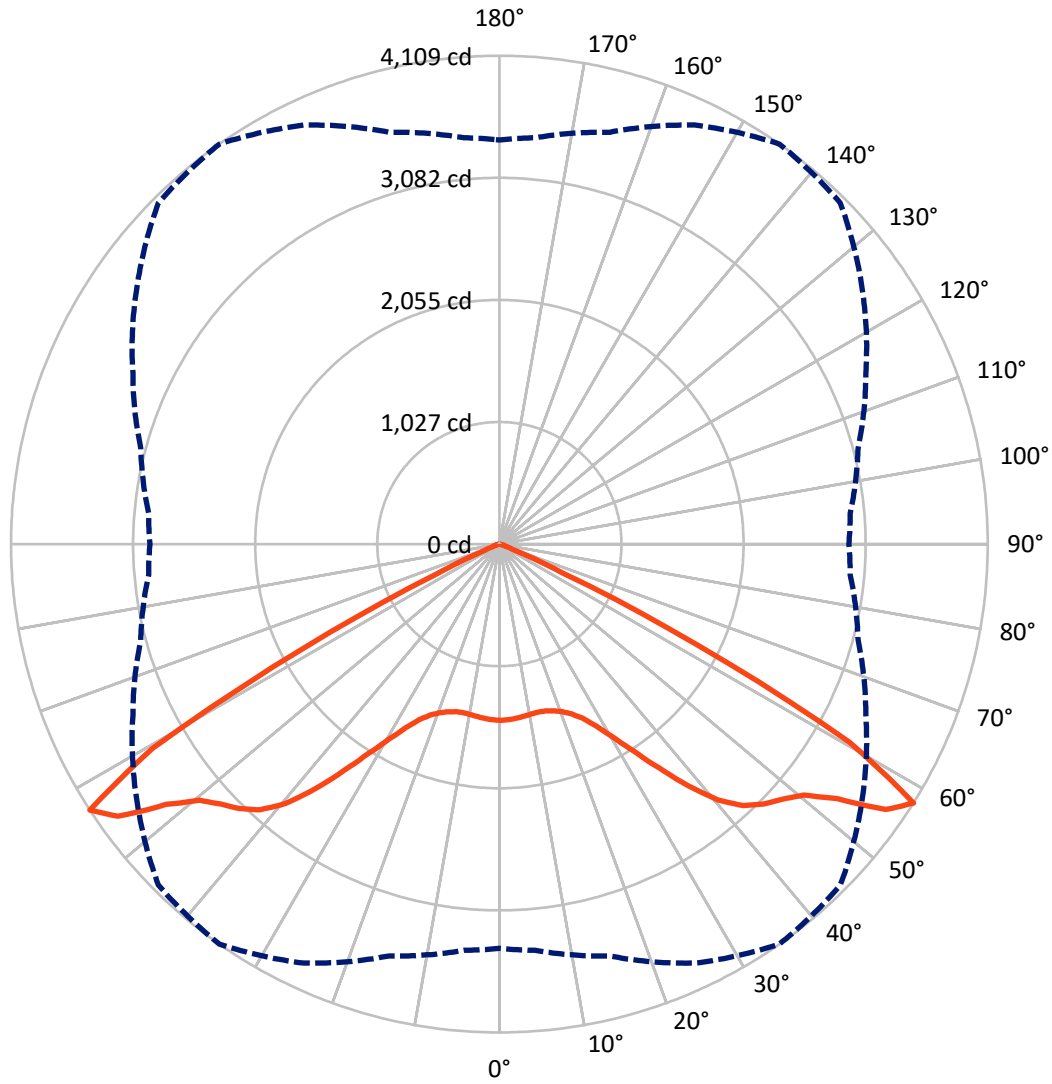
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4461.1   | 0.0    | 4461.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4461.1   | 0.0    | 4461.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8922.3   | 0.0    | 8922.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 139.8  | 1.6       |
| 10°-20°   | 411.1  | 4.6       |
| 20°-30°   | 743.1  | 8.3       |
| 30°-40°   | 1386.3 | 15.5      |
| 40°-50°   | 2325.6 | 26.1      |
| 50°-60°   | 3071.2 | 34.4      |
| 60°-70°   | 815.7  | 9.1       |
| 70°-80°   | 29.0   | 0.3       |
| 80°-90°   | 0.5    | 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°    | 8922.3 | 100.0     |
| 0°-180°   | 8922.3 | 100.0     |

**Coefficient of Utilization**



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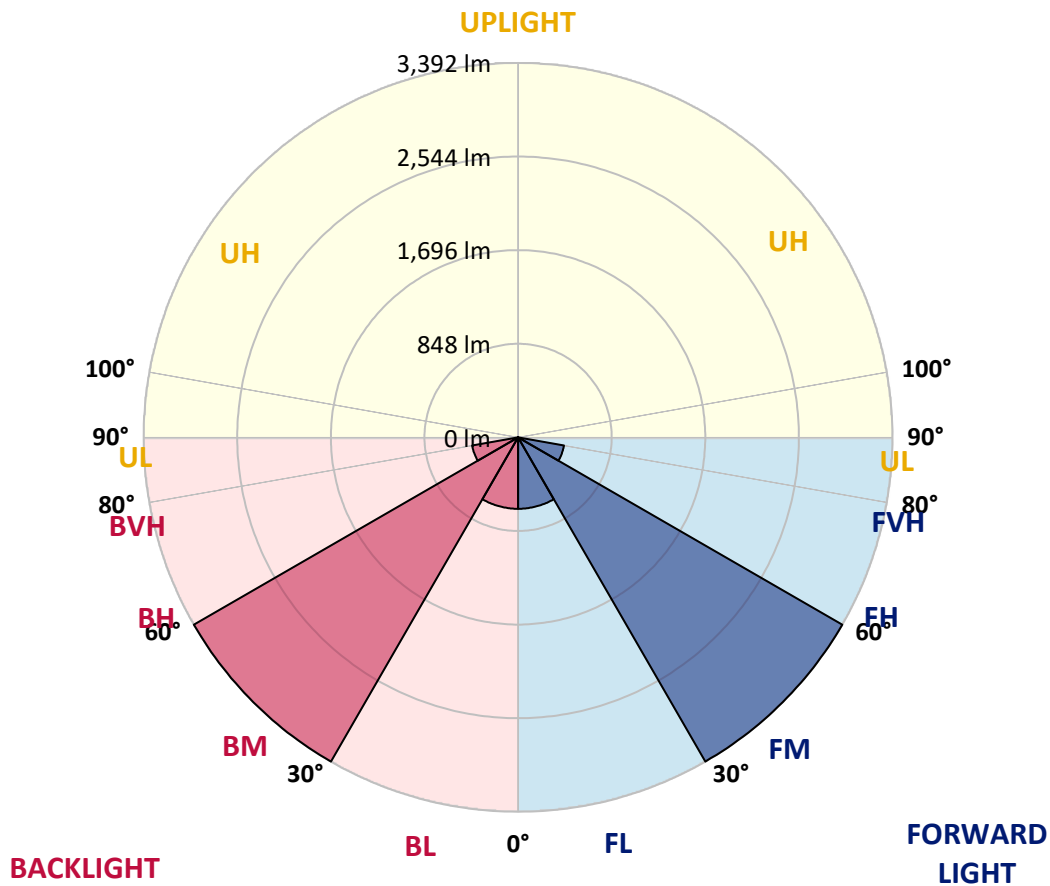
CATALOG NUMBER: GWS-SA4B-760-U-5MQ-W-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 647.0  | 7.3       |                         |      |        |
| FM (30°-60°)   | 3391.6 | 38.0      |                         |      |        |
| FH (60°-80°)   | 422.3  | 4.7       |                         |      | G0/660 |
| FVH (80°-90°)  | 0.3    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 647.0  | 7.3       | B2/1000                 |      |        |
| BM (30°-60°)   | 3391.6 | 38.0      | B3/5000                 |      |        |
| BH (60°-80°)   | 422.3  | 4.7       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 0.3    | 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°    | 1483.4 | 1483.4 | 1483.4 | 1483.4 | 1483.4 | 1483.4 | 1483.4 | 1483.4 | 1483.4 | 1483.4 | 1483.4 |
| 2.5°  | 1472.9 | 1471.9 | 1476.1 | 1479.2 | 1479.2 | 1486.6 | 1484.5 | 1482.4 | 1480.3 | 1477.1 | 1484.5 |
| 5°    | 1470.9 | 1469.8 | 1472.9 | 1475.0 | 1472.9 | 1479.2 | 1475.0 | 1470.9 | 1468.8 | 1464.6 | 1472.9 |
| 7.5°  | 1461.4 | 1462.5 | 1464.6 | 1466.7 | 1463.5 | 1468.8 | 1463.5 | 1457.2 | 1452.0 | 1447.8 | 1455.1 |
| 10°   | 1446.8 | 1447.8 | 1449.9 | 1454.1 | 1455.1 | 1462.5 | 1455.1 | 1443.6 | 1436.3 | 1430.0 | 1437.4 |
| 12.5° | 1439.4 | 1440.5 | 1443.6 | 1448.9 | 1449.9 | 1459.3 | 1449.9 | 1433.2 | 1422.7 | 1415.4 | 1422.7 |
| 15°   | 1441.5 | 1443.6 | 1447.8 | 1454.1 | 1456.2 | 1465.6 | 1453.1 | 1431.1 | 1416.4 | 1407.0 | 1413.3 |
| 17.5° | 1448.9 | 1451.0 | 1457.2 | 1467.7 | 1475.0 | 1484.5 | 1468.8 | 1440.5 | 1420.6 | 1407.0 | 1413.3 |
| 20°   | 1458.3 | 1461.4 | 1471.9 | 1488.6 | 1504.4 | 1521.1 | 1501.2 | 1462.5 | 1436.3 | 1419.6 | 1424.8 |
| 22.5° | 1484.5 | 1487.6 | 1502.3 | 1524.2 | 1550.4 | 1571.3 | 1547.3 | 1498.1 | 1462.5 | 1440.5 | 1445.7 |
| 25°   | 1537.8 | 1541.0 | 1559.8 | 1588.1 | 1621.6 | 1648.8 | 1618.5 | 1556.7 | 1510.6 | 1485.5 | 1487.6 |
| 27.5° | 1621.6 | 1624.7 | 1646.7 | 1686.5 | 1731.5 | 1770.3 | 1726.3 | 1654.1 | 1601.7 | 1572.4 | 1572.4 |
| 30°   | 1727.3 | 1731.5 | 1760.8 | 1814.2 | 1884.4 | 1935.7 | 1876.0 | 1788.1 | 1721.1 | 1681.3 | 1682.3 |
| 32.5° | 1863.4 | 1859.2 | 1901.1 | 1974.4 | 2073.8 | 2141.9 | 2054.0 | 1947.2 | 1864.5 | 1809.0 | 1814.2 |
| 35°   | 2038.3 | 2037.2 | 2084.3 | 2183.8 | 2313.6 | 2395.2 | 2290.5 | 2152.4 | 2052.9 | 1996.4 | 1997.4 |
| 37.5° | 2263.3 | 2262.3 | 2316.7 | 2424.5 | 2580.5 | 2648.6 | 2531.3 | 2391.0 | 2284.3 | 2229.8 | 2236.1 |
| 40°   | 2527.1 | 2520.9 | 2569.0 | 2672.7 | 2828.6 | 2872.6 | 2744.9 | 2631.8 | 2529.2 | 2494.7 | 2511.4 |
| 42.5° | 2778.4 | 2764.8 | 2793.0 | 2887.3 | 3007.7 | 3013.9 | 2917.6 | 2840.2 | 2770.0 | 2742.8 | 2753.3 |
| 45°   | 2980.4 | 2970.0 | 2996.1 | 3050.6 | 3119.7 | 3088.3 | 3042.2 | 3018.1 | 2961.6 | 2932.3 | 2941.7 |
| 47.5° | 3131.2 | 3131.2 | 3162.6 | 3196.1 | 3206.6 | 3149.0 | 3156.3 | 3156.3 | 3099.8 | 3053.7 | 3042.2 |
| 50°   | 3261.0 | 3270.4 | 3317.5 | 3352.1 | 3317.5 | 3244.2 | 3286.1 | 3277.7 | 3162.6 | 3070.5 | 3046.4 |
| 52.5° | 3468.3 | 3477.7 | 3549.9 | 3597.0 | 3558.3 | 3486.1 | 3491.3 | 3386.6 | 3217.0 | 3108.2 | 3070.5 |
| 55°   | 3688.1 | 3711.1 | 3815.8 | 3941.5 | 3942.5 | 3868.2 | 3730.0 | 3544.7 | 3338.5 | 3220.2 | 3181.4 |
| 57.5° | 3400.2 | 3431.6 | 3587.6 | 3890.2 | 4109.0 | 4057.7 | 3727.9 | 3402.3 | 3123.9 | 2962.6 | 2940.7 |
| 60°   | 2339.8 | 2394.2 | 2550.2 | 2963.7 | 3385.6 | 3405.5 | 3016.0 | 2650.7 | 2331.4 | 2132.5 | 2136.7 |
| 62.5° | 988.2  | 1043.7 | 1131.7 | 1471.9 | 1859.2 | 1883.3 | 1694.9 | 1433.2 | 1172.5 | 1029.1 | 1051.1 |
| 65°   | 232.4  | 248.1  | 274.3  | 407.2  | 590.4  | 617.7  | 569.5  | 443.9  | 327.7  | 277.4  | 282.7  |
| 67.5° | 101.5  | 103.6  | 98.4   | 104.7  | 129.8  | 133.0  | 128.8  | 113.1  | 106.8  | 108.9  | 108.9  |
| 70°   | 71.2   | 72.2   | 68.0   | 64.9   | 61.8   | 57.6   | 59.7   | 66.0   | 71.2   | 75.4   | 74.3   |
| 72.5° | 44.0   | 45.0   | 46.1   | 46.1   | 42.9   | 38.7   | 40.8   | 45.0   | 46.1   | 47.1   | 46.1   |
| 75°   | 22.0   | 23.0   | 25.1   | 26.2   | 25.1   | 24.1   | 24.1   | 25.1   | 25.1   | 24.1   | 24.1   |
| 77.5° | 4.2    | 5.2    | 7.3    | 8.4    | 8.4    | 8.4    | 8.4    | 8.4    | 9.4    | 8.4    | 8.4    |
| 80°   | 1.0    | 1.0    | 2.1    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 2.1    | 2.1    |
| 82.5° | 1.0    | 1.0    | 1.0    | 1.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 1.0    | 1.0    |
| 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)