

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: P637801

Luminaire Tested: GWS-SA4D-750-U-5WQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637801  
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-SA4D-750-U-5WQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

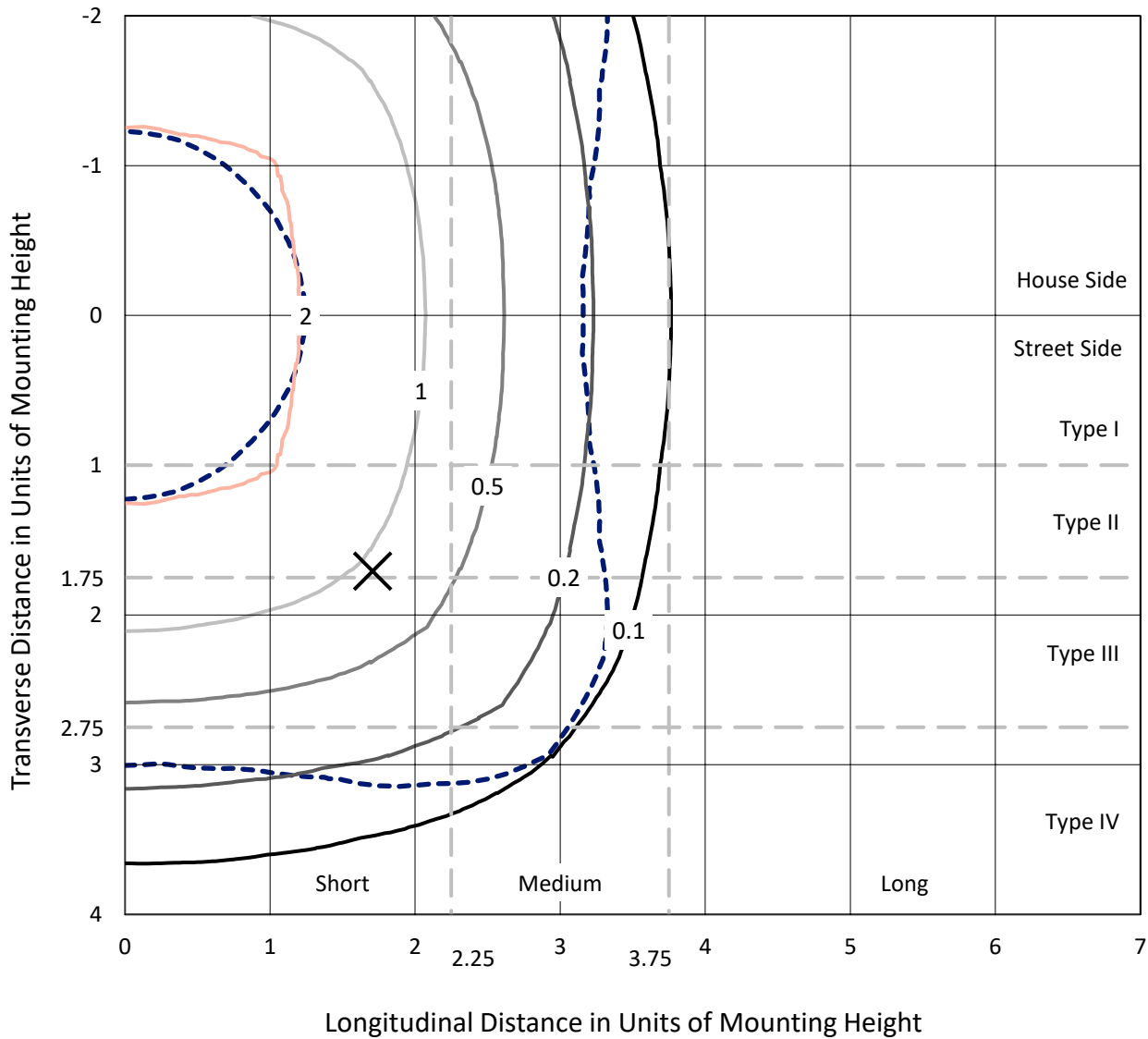
Lumens per Lamp: N/A  
Luminaire Lumens: 25395.8 lumens  
Efficiency: N/A  
Efficacy: 156.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P637801  
 CATALOG NUMBER: GWS-SA4D-750-U-5WQ-W

### Iso-Footcandle Lines of Horizontal Illumination

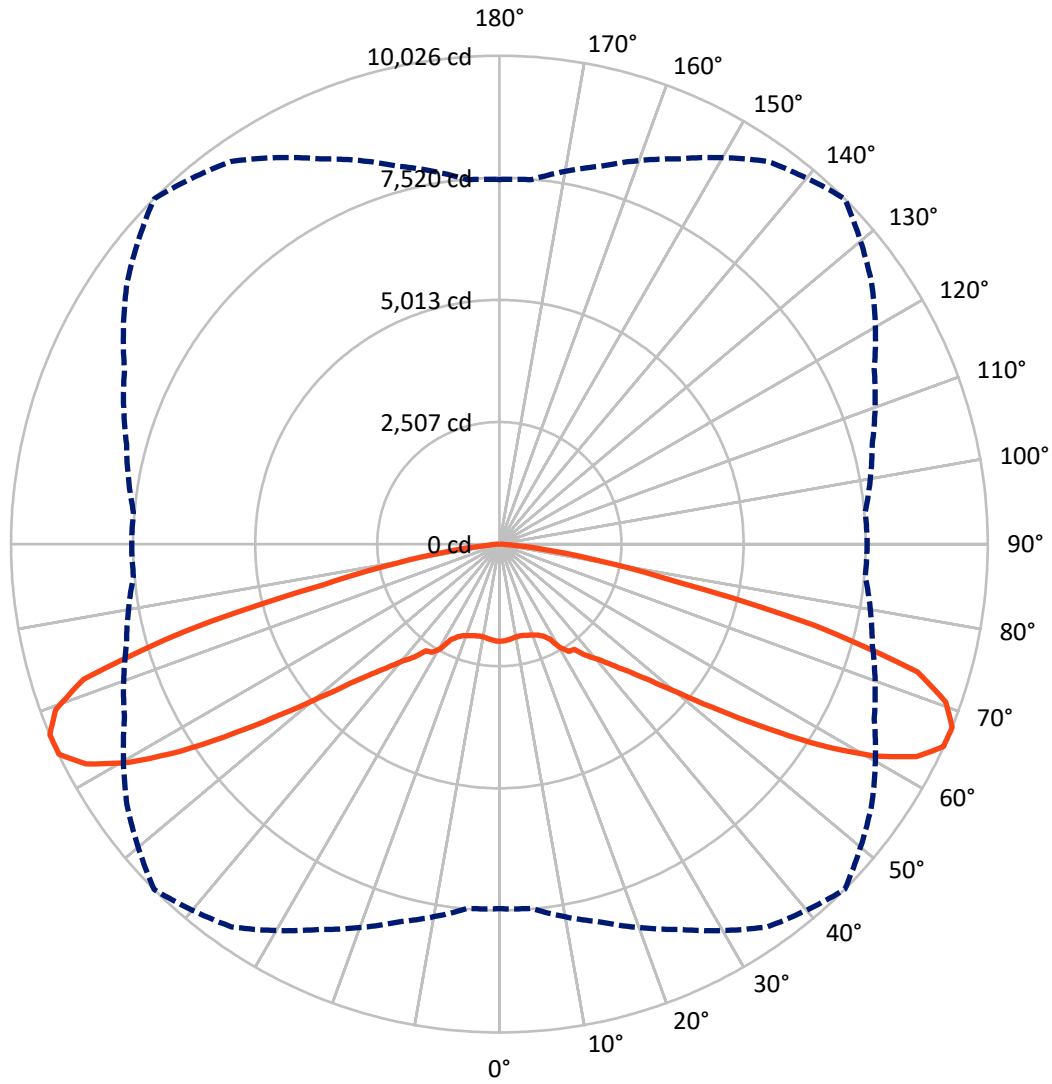
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P637801  
CATALOG NUMBER: GWS-SA4D-750-U-5WQ-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P637801

CATALOG NUMBER: GWS-SA4D-750-U-5WQ-W

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12697.9  | 0.0    | 12697.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12697.9  | 0.0    | 12697.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 25395.8  | 0.0    | 25395.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 187.0   | 0.7       |
| 10°-20°   | 554.9   | 2.2       |
| 20°-30°   | 995.4   | 3.9       |
| 30°-40°   | 1681.6  | 6.6       |
| 40°-50°   | 2954.5  | 11.6      |
| 50°-60°   | 5699.4  | 22.4      |
| 60°-70°   | 8269.0  | 32.6      |
| 70°-80°   | 4731.1  | 18.6      |
| 80°-90°   | 322.9   | 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°    | 25395.8 | 100.0     |
| 0°-180°   | 25395.8 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P637801

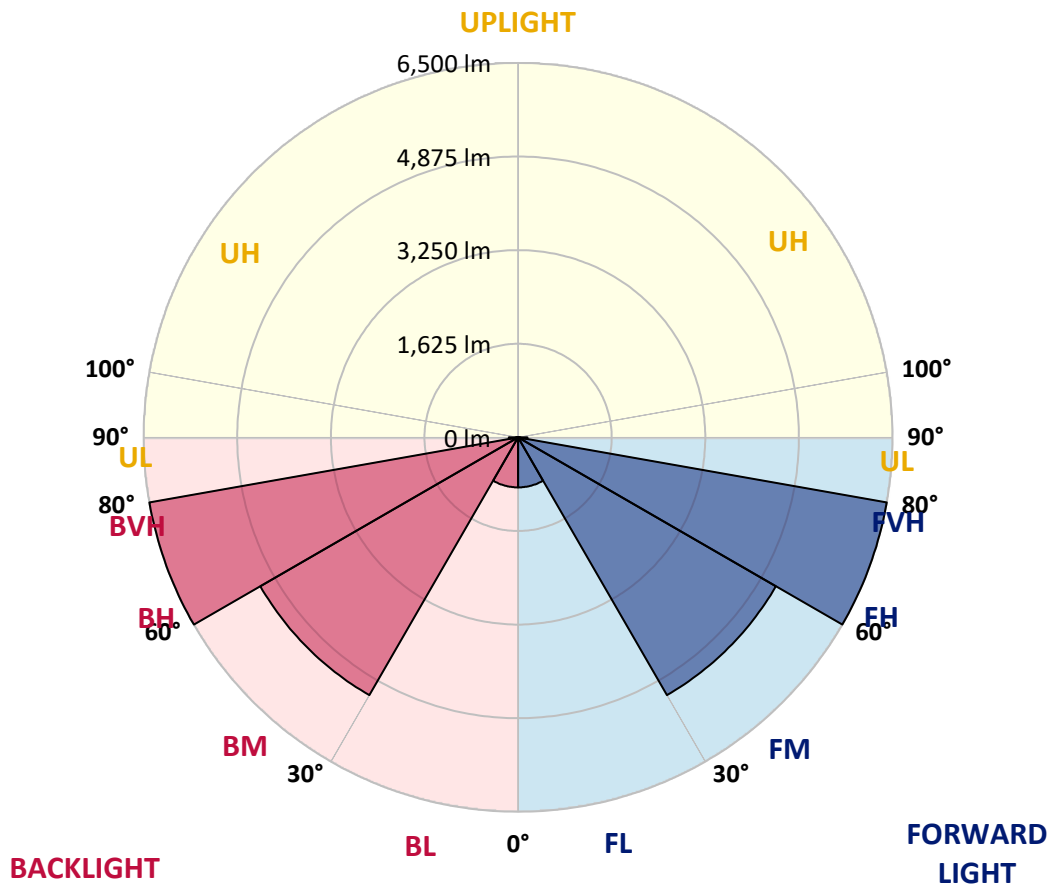
CATALOG NUMBER: GWS-SA4D-750-U-5WQ-W

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 868.7  | 3.4       |                         |      |         |
| FM (30°-60°)   | 5167.7 | 20.3      |                         |      |         |
| FH (60°-80°)   | 6500.1 | 25.6      |                         |      | G3/7500 |
| FVH (80°-90°)  | 161.4  | 0.6       |                         |      | G2/225  |
| BL (0°-30°)    | 868.7  | 3.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 5167.7 | 20.3      | B4/8500                 |      |         |
| BH (60°-80°)   | 6500.1 | 25.6      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 161.4  | 0.6       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





REPORT NUMBER: P637801  
 CATALOG NUMBER: GWS-SA4D-750-U-5WQ-W

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0°    | 1991.5 | 1991.5 | 1991.5 | 1991.5 | 1991.5 | 1991.5  | 1991.5 | 1991.5 | 1991.5 | 1991.5 | 1991.5 |
| 2.5°  | 1975.4 | 1977.2 | 1980.8 | 1980.8 | 1984.4 | 1989.8  | 1991.5 | 1988.0 | 1989.8 | 1980.8 | 1989.8 |
| 5°    | 1970.0 | 1971.8 | 1973.6 | 1970.0 | 1970.0 | 1971.8  | 1971.8 | 1968.2 | 1970.0 | 1961.0 | 1970.0 |
| 7.5°  | 1957.4 | 1959.2 | 1959.2 | 1953.8 | 1948.4 | 1952.0  | 1952.0 | 1948.4 | 1950.2 | 1941.3 | 1952.0 |
| 10°   | 1946.7 | 1946.7 | 1944.9 | 1934.1 | 1928.7 | 1934.1  | 1935.9 | 1937.7 | 1944.9 | 1937.7 | 1950.2 |
| 12.5° | 1953.8 | 1953.8 | 1948.4 | 1934.1 | 1925.1 | 1928.7  | 1932.3 | 1935.9 | 1948.4 | 1946.7 | 1961.0 |
| 15°   | 1973.6 | 1975.4 | 1961.0 | 1944.9 | 1939.5 | 1944.9  | 1941.3 | 1939.5 | 1955.6 | 1961.0 | 1977.2 |
| 17.5° | 1989.8 | 1989.8 | 1971.8 | 1955.6 | 1957.4 | 1966.4  | 1959.2 | 1950.2 | 1966.4 | 1977.2 | 1995.1 |
| 20°   | 2004.1 | 2002.3 | 1982.6 | 1971.8 | 1979.0 | 1991.5  | 1986.2 | 1973.6 | 1984.4 | 1996.9 | 2013.1 |
| 22.5° | 2040.0 | 2038.2 | 2016.7 | 2011.3 | 2018.5 | 2031.1  | 2025.7 | 2014.9 | 2027.5 | 2045.4 | 2065.2 |
| 25°   | 2142.4 | 2138.8 | 2106.5 | 2088.5 | 2084.9 | 2093.9  | 2092.1 | 2088.5 | 2108.3 | 2129.8 | 2153.2 |
| 27.5° | 2278.9 | 2277.1 | 2253.7 | 2235.8 | 2212.4 | 2205.3  | 2210.6 | 2226.8 | 2255.5 | 2271.7 | 2291.4 |
| 30°   | 2347.1 | 2347.1 | 2343.5 | 2372.3 | 2422.5 | 2471.0  | 2433.3 | 2372.3 | 2347.1 | 2339.9 | 2359.7 |
| 32.5° | 2436.9 | 2445.9 | 2433.3 | 2465.6 | 2550.0 | 2621.9  | 2550.0 | 2451.3 | 2433.3 | 2433.3 | 2454.9 |
| 35°   | 2643.4 | 2647.0 | 2627.3 | 2621.9 | 2648.8 | 2657.8  | 2623.7 | 2587.8 | 2607.5 | 2611.1 | 2638.0 |
| 37.5° | 2808.6 | 2808.6 | 2799.7 | 2814.0 | 2869.7 | 2903.8  | 2848.1 | 2783.5 | 2788.9 | 2792.5 | 2826.6 |
| 40°   | 3063.6 | 3070.8 | 3049.3 | 3047.5 | 3069.0 | 3099.6  | 3040.3 | 2999.0 | 3027.7 | 3036.7 | 3088.8 |
| 42.5° | 3381.5 | 3381.5 | 3349.2 | 3340.2 | 3354.6 | 3386.9  | 3331.2 | 3304.3 | 3342.0 | 3349.2 | 3379.7 |
| 45°   | 3760.4 | 3769.4 | 3726.3 | 3710.1 | 3717.3 | 3728.1  | 3688.6 | 3676.0 | 3711.9 | 3728.1 | 3782.0 |
| 47.5° | 4221.9 | 4230.9 | 4193.2 | 4191.4 | 4184.2 | 4191.4  | 4153.7 | 4146.5 | 4175.2 | 4162.7 | 4220.1 |
| 50°   | 4791.2 | 4807.4 | 4775.0 | 4819.9 | 4814.6 | 4836.1  | 4784.0 | 4746.3 | 4746.3 | 4712.2 | 4744.5 |
| 52.5° | 5428.7 | 5461.0 | 5477.2 | 5552.6 | 5610.1 | 5664.0  | 5577.8 | 5518.5 | 5432.3 | 5362.3 | 5450.3 |
| 55°   | 6123.7 | 6114.7 | 6217.1 | 6382.3 | 6551.1 | 6678.6  | 6509.8 | 6323.0 | 6183.0 | 6037.5 | 6071.6 |
| 57.5° | 6732.5 | 6763.0 | 6897.7 | 7199.4 | 7533.4 | 7802.8  | 7499.3 | 7140.1 | 6822.3 | 6614.0 | 6642.7 |
| 60°   | 7238.9 | 7264.0 | 7443.6 | 7878.2 | 8461.8 | 8833.6  | 8352.3 | 7759.7 | 7298.2 | 7010.8 | 7041.4 |
| 62.5° | 7705.8 | 7729.1 | 7910.5 | 8390.0 | 9126.3 | 9611.2  | 8989.8 | 8179.9 | 7666.3 | 7377.2 | 7395.1 |
| 65°   | 7975.2 | 7989.5 | 8237.4 | 8742.0 | 9517.8 | 10018.8 | 9318.4 | 8483.4 | 7978.8 | 7684.3 | 7695.0 |
| 67.5° | 7484.9 | 7508.3 | 8030.8 | 8727.6 | 9593.2 | 10026.0 | 9332.8 | 8492.4 | 7924.9 | 7540.6 | 7549.6 |
| 70°   | 5904.6 | 5884.9 | 6508.0 | 7705.8 | 9160.4 | 9724.3  | 8918.0 | 7854.9 | 6978.5 | 6441.6 | 6432.6 |
| 72.5° | 4502.1 | 4507.5 | 4854.1 | 5674.7 | 7468.8 | 8973.6  | 7869.2 | 6324.8 | 5380.2 | 4972.6 | 4956.4 |
| 75°   | 3264.8 | 3315.1 | 3597.0 | 4198.6 | 5224.0 | 6707.3  | 5924.4 | 4687.1 | 4054.9 | 3810.7 | 3774.8 |
| 77.5° | 1470.8 | 1535.4 | 1928.7 | 2636.2 | 3492.8 | 3706.5  | 3720.9 | 3182.2 | 2401.0 | 1995.1 | 1932.3 |
| 80°   | 429.2  | 459.7  | 590.8  | 1011.0 | 1627.0 | 2102.9  | 1670.1 | 1404.3 | 874.6  | 686.0  | 653.7  |
| 82.5° | 181.4  | 206.5  | 253.2  | 280.1  | 472.3  | 975.1   | 607.0  | 386.1  | 359.2  | 290.9  | 265.8  |
| 85°   | 77.2   | 82.6   | 106.0  | 113.1  | 152.6  | 208.3   | 192.2  | 174.2  | 167.0  | 129.3  | 118.5  |
| 87.5° | 32.3   | 32.3   | 32.3   | 28.7   | 26.9   | 28.7    | 39.5   | 50.3   | 66.4   | 52.1   | 48.5   |
| 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)