

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: P633400

Luminaire Tested: GWS-SA2E-760-U-5WQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633400  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-760-U-5WQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

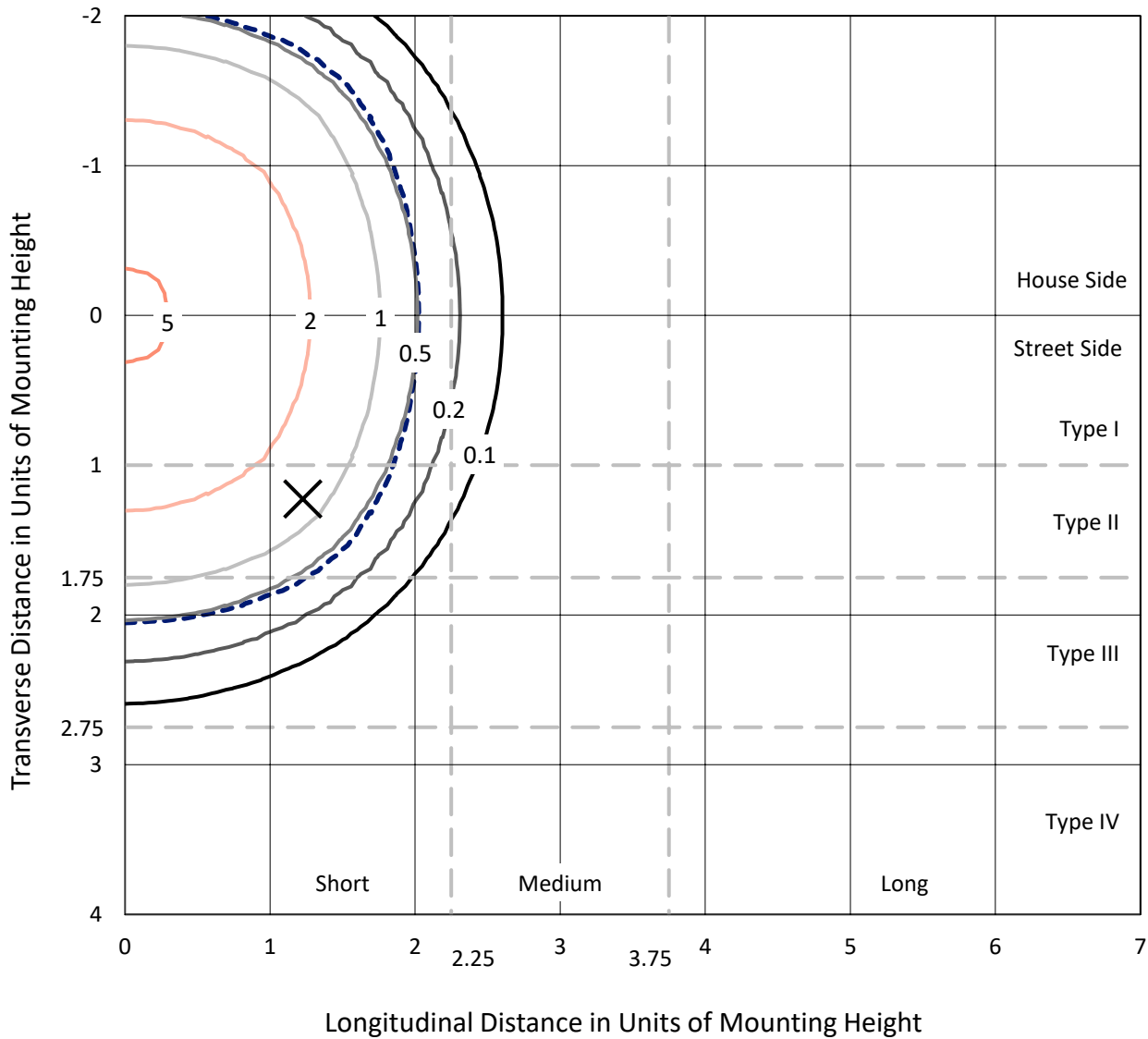
Lumens per Lamp: N/A  
Luminaire Lumens: 12432.4 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

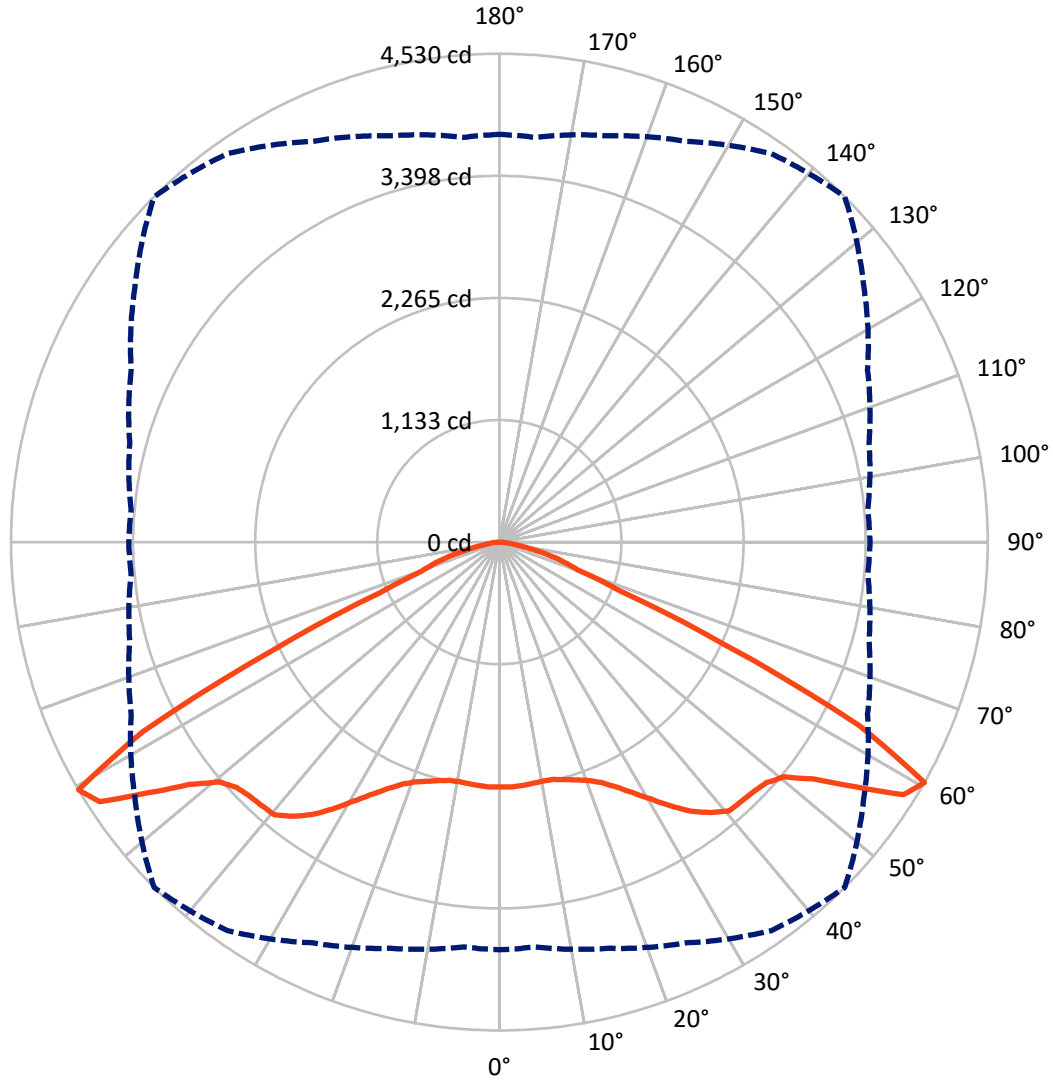
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6216.2   | 0.0    | 6216.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6216.2   | 0.0    | 6216.2  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12432.4  | 0.0    | 12432.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 215.5   | 1.7       |
| 10°-20°   | 648.1   | 5.2       |
| 20°-30°   | 1146.6  | 9.2       |
| 30°-40°   | 1846.0  | 14.8      |
| 40°-50°   | 2537.3  | 20.4      |
| 50°-60°   | 3381.2  | 27.2      |
| 60°-70°   | 2107.3  | 17.0      |
| 70°-80°   | 484.6   | 3.9       |
| 80°-90°   | 65.7    | 0.5       |
| 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°    | 12432.4 | 100.0     |
| 0°-180°   | 12432.4 | 100.0     |

**Coefficient of Utilization**



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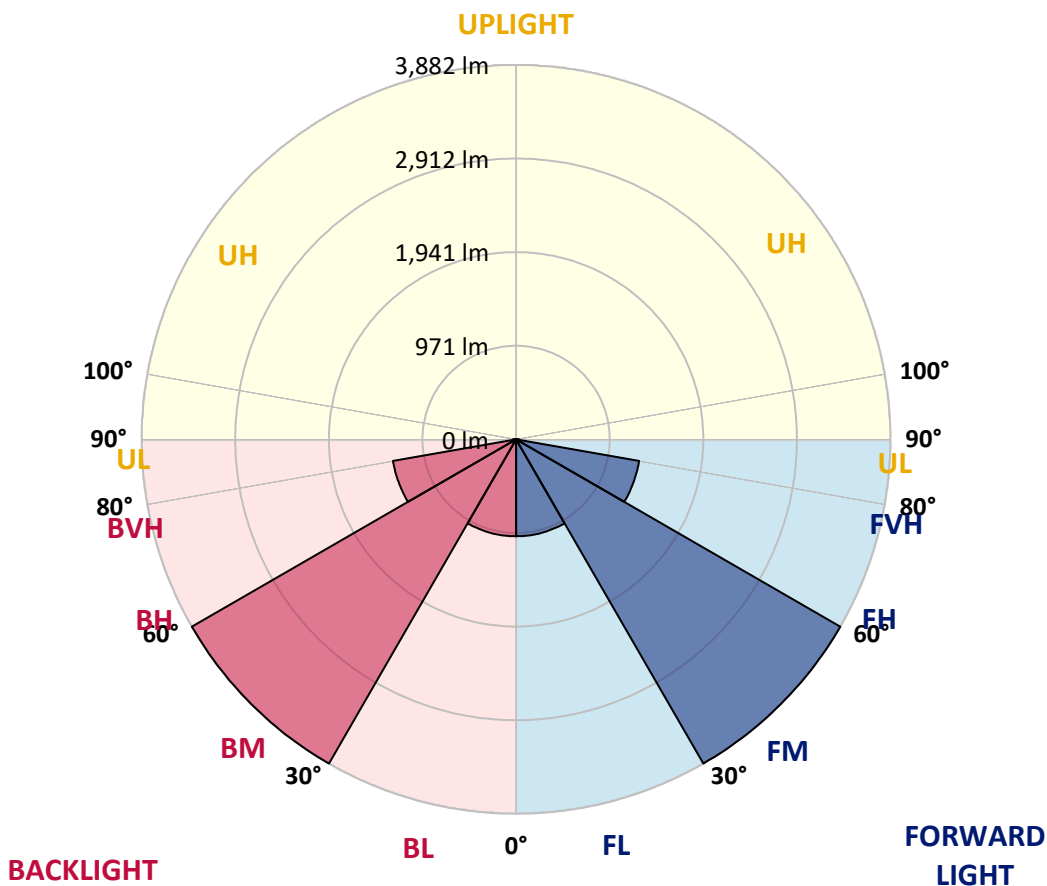
CATALOG NUMBER: GWS-SA2E-760-U-5WQ-W-GRSWH

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1005.1 | 8.1       |                         |      |         |
| FM (30°-60°)   | 3882.3 | 31.2      |                         |      |         |
| FH (60°-80°)   | 1296.0 | 10.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 32.9   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 1005.1 | 8.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 3882.3 | 31.2      | B3/5000                 |      |         |
| BH (60°-80°)   | 1296.0 | 10.4      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 32.9   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2272.0 | 2272.0 | 2272.0 | 2272.0 | 2272.0 | 2272.0 | 2272.0 | 2272.0 | 2272.0 | 2272.0 | 2272.0 |
| 2.5°  | 2256.2 | 2258.3 | 2262.5 | 2265.7 | 2269.9 | 2274.1 | 2276.2 | 2272.0 | 2269.9 | 2261.5 | 2270.9 |
| 5°    | 2258.3 | 2260.4 | 2263.6 | 2263.6 | 2264.6 | 2267.8 | 2267.8 | 2262.5 | 2257.2 | 2247.7 | 2258.3 |
| 7.5°  | 2255.1 | 2257.2 | 2258.3 | 2257.2 | 2258.3 | 2259.3 | 2257.2 | 2250.9 | 2245.6 | 2237.2 | 2245.6 |
| 10°   | 2249.8 | 2252.0 | 2254.1 | 2252.0 | 2249.8 | 2253.0 | 2253.0 | 2248.8 | 2245.6 | 2237.2 | 2246.7 |
| 12.5° | 2261.5 | 2264.6 | 2265.7 | 2260.4 | 2258.3 | 2259.3 | 2259.3 | 2255.1 | 2255.1 | 2247.7 | 2258.3 |
| 15°   | 2288.9 | 2291.0 | 2287.8 | 2281.5 | 2282.6 | 2285.7 | 2278.3 | 2267.8 | 2265.7 | 2262.5 | 2270.9 |
| 17.5° | 2310.0 | 2312.1 | 2308.9 | 2304.7 | 2312.1 | 2319.5 | 2305.8 | 2285.7 | 2279.4 | 2277.3 | 2286.8 |
| 20°   | 2333.2 | 2336.4 | 2332.2 | 2337.4 | 2352.2 | 2360.6 | 2343.8 | 2316.3 | 2303.7 | 2300.5 | 2312.1 |
| 22.5° | 2371.2 | 2375.4 | 2375.4 | 2387.0 | 2409.2 | 2422.9 | 2401.8 | 2364.9 | 2345.9 | 2340.6 | 2352.2 |
| 25°   | 2431.3 | 2434.5 | 2437.7 | 2460.9 | 2496.8 | 2515.8 | 2482.0 | 2431.3 | 2405.0 | 2396.5 | 2402.9 |
| 27.5° | 2514.7 | 2520.0 | 2525.3 | 2559.0 | 2603.4 | 2630.8 | 2582.3 | 2518.9 | 2486.2 | 2469.3 | 2482.0 |
| 30°   | 2613.9 | 2621.3 | 2634.0 | 2672.0 | 2734.2 | 2764.8 | 2702.6 | 2625.5 | 2588.6 | 2570.6 | 2587.5 |
| 32.5° | 2749.0 | 2750.0 | 2759.5 | 2801.8 | 2884.1 | 2918.9 | 2840.8 | 2755.3 | 2717.3 | 2696.2 | 2705.7 |
| 35°   | 2909.4 | 2910.4 | 2895.7 | 2938.9 | 3027.6 | 3066.6 | 2974.8 | 2888.3 | 2856.6 | 2850.3 | 2874.6 |
| 37.5° | 3074.0 | 3064.5 | 3049.7 | 3068.7 | 3158.4 | 3183.8 | 3086.7 | 3012.8 | 2999.1 | 3010.7 | 3046.6 |
| 40°   | 3191.1 | 3175.3 | 3145.8 | 3159.5 | 3250.2 | 3279.8 | 3176.4 | 3106.7 | 3102.5 | 3131.0 | 3174.3 |
| 42.5° | 3267.1 | 3250.2 | 3215.4 | 3215.4 | 3277.7 | 3290.3 | 3210.1 | 3173.2 | 3182.7 | 3215.4 | 3256.6 |
| 45°   | 3304.1 | 3294.6 | 3274.5 | 3264.0 | 3298.8 | 3304.1 | 3242.9 | 3228.1 | 3246.0 | 3261.8 | 3293.5 |
| 47.5° | 3332.6 | 3332.6 | 3326.2 | 3315.7 | 3331.5 | 3334.7 | 3289.3 | 3285.1 | 3308.3 | 3308.3 | 3329.4 |
| 50°   | 3383.2 | 3388.5 | 3396.9 | 3394.8 | 3411.7 | 3422.3 | 3388.5 | 3382.2 | 3391.6 | 3361.0 | 3371.6 |
| 52.5° | 3516.2 | 3529.9 | 3554.2 | 3573.2 | 3616.4 | 3649.1 | 3589.0 | 3538.3 | 3488.7 | 3421.2 | 3423.3 |
| 55°   | 3754.7 | 3761.0 | 3808.5 | 3864.4 | 3937.2 | 4003.7 | 3880.2 | 3723.0 | 3615.4 | 3536.2 | 3537.3 |
| 57.5° | 3956.2 | 3965.7 | 4035.4 | 4152.5 | 4316.1 | 4419.5 | 4146.2 | 3883.4 | 3731.4 | 3634.4 | 3637.5 |
| 60°   | 3782.1 | 3769.4 | 3901.3 | 4101.8 | 4398.4 | 4530.3 | 4127.2 | 3768.4 | 3549.9 | 3429.6 | 3438.1 |
| 62.5° | 2926.3 | 2902.0 | 3048.7 | 3258.7 | 3614.3 | 3746.2 | 3374.8 | 3030.7 | 2823.9 | 2730.0 | 2716.3 |
| 65°   | 1781.3 | 1759.1 | 1864.7 | 1993.4 | 2234.0 | 2317.4 | 2147.5 | 1964.9 | 1784.5 | 1727.5 | 1711.7 |
| 67.5° | 969.8  | 966.6  | 995.1  | 1058.4 | 1164.0 | 1203.0 | 1170.3 | 1083.8 | 1037.3 | 997.2  | 997.2  |
| 70°   | 769.3  | 763.0  | 757.7  | 758.7  | 768.2  | 773.5  | 774.6  | 770.3  | 775.6  | 776.7  | 772.5  |
| 72.5° | 637.4  | 635.3  | 624.7  | 625.8  | 621.6  | 619.4  | 626.8  | 631.1  | 639.5  | 640.6  | 640.6  |
| 75°   | 462.2  | 456.9  | 462.2  | 463.3  | 459.0  | 459.0  | 464.3  | 463.3  | 467.5  | 469.6  | 458.0  |
| 77.5° | 262.8  | 262.8  | 270.1  | 278.6  | 284.9  | 284.9  | 290.2  | 290.2  | 295.5  | 294.4  | 292.3  |
| 80°   | 144.6  | 144.6  | 148.8  | 154.1  | 160.4  | 166.7  | 172.0  | 173.1  | 176.2  | 175.2  | 172.0  |
| 82.5° | 82.3   | 83.4   | 85.5   | 88.6   | 95.0   | 100.3  | 105.5  | 106.6  | 109.7  | 109.7  | 106.6  |
| 85°   | 39.0   | 38.0   | 39.0   | 41.2   | 44.3   | 48.5   | 53.8   | 57.0   | 59.1   | 59.1   | 57.0   |
| 87.5° | 7.4    | 8.4    | 7.4    | 8.4    | 9.5    | 12.7   | 14.8   | 16.9   | 20.1   | 21.1   | 19.0   |
| 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)