

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: P639336

Luminaire Tested: GWS-SA5B-760-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639336  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-760-U-5NQ-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

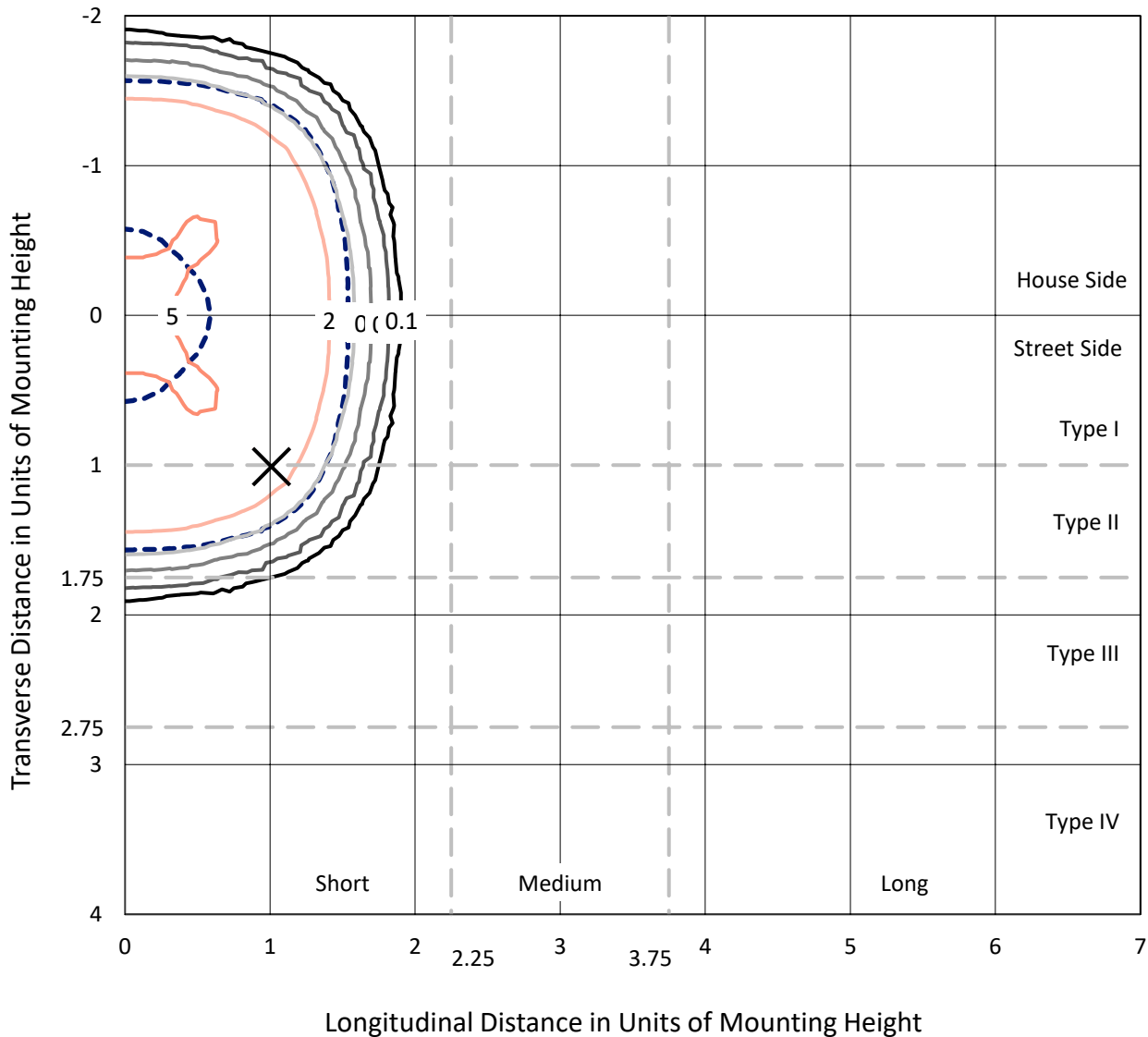
Lumens per Lamp: N/A  
Luminaire Lumens: 12605.6 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

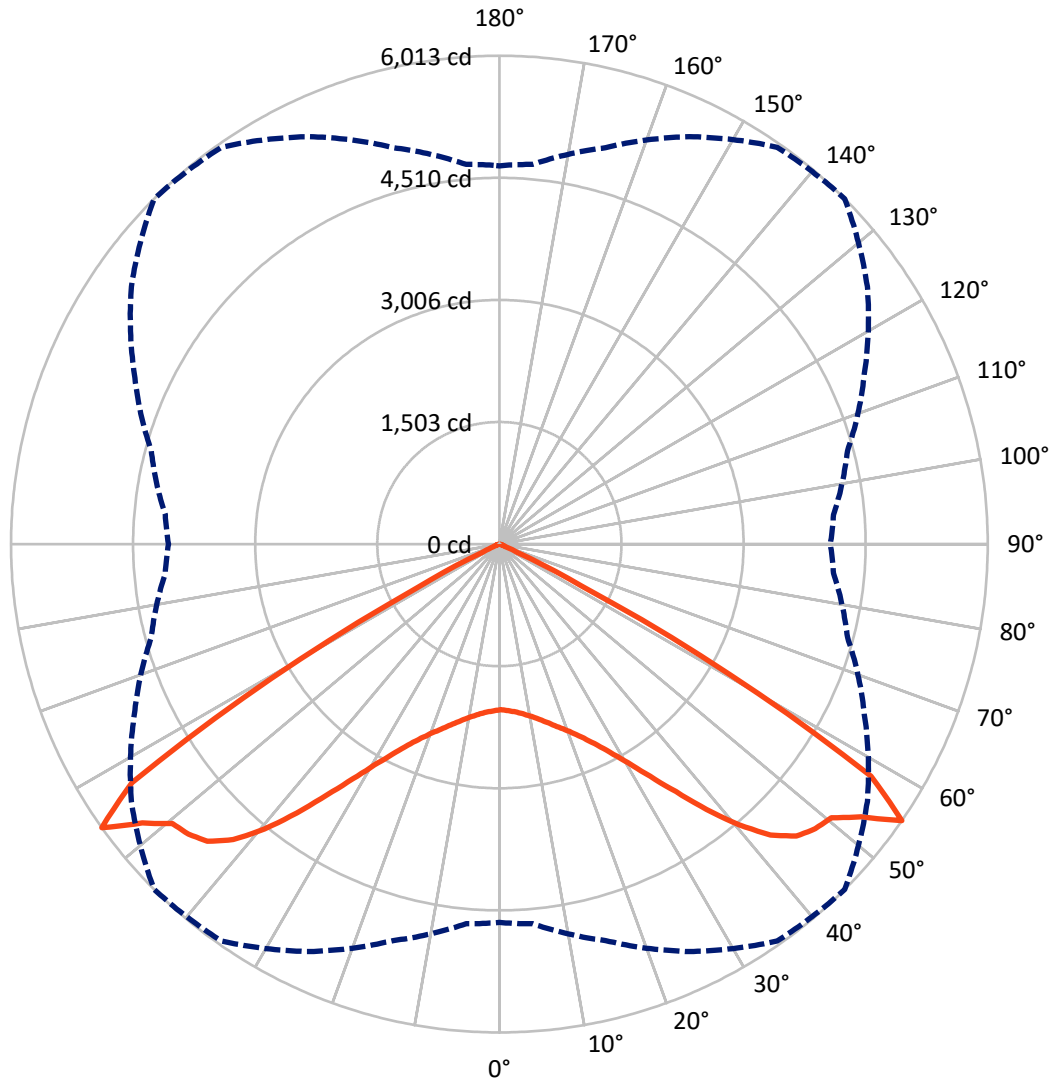
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6302.8   | 0.0    | 6302.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 6302.8   | 0.0    | 6302.8  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 12605.6  | 0.0    | 12605.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 199.7   | 1.6       |
| 10°-20°   | 647.3   | 5.1       |
| 20°-30°   | 1253.6  | 9.9       |
| 30°-40°   | 2245.8  | 17.8      |
| 40°-50°   | 3765.3  | 29.9      |
| 50°-60°   | 4030.6  | 32.0      |
| 60°-70°   | 442.9   | 3.5       |
| 70°-80°   | 19.5    | 0.2       |
| 80°-90°   | 0.9     | 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°    | 12605.6 | 100.0     |
| 0°-180°   | 12605.6 | 100.0     |

**Coefficient of Utilization**



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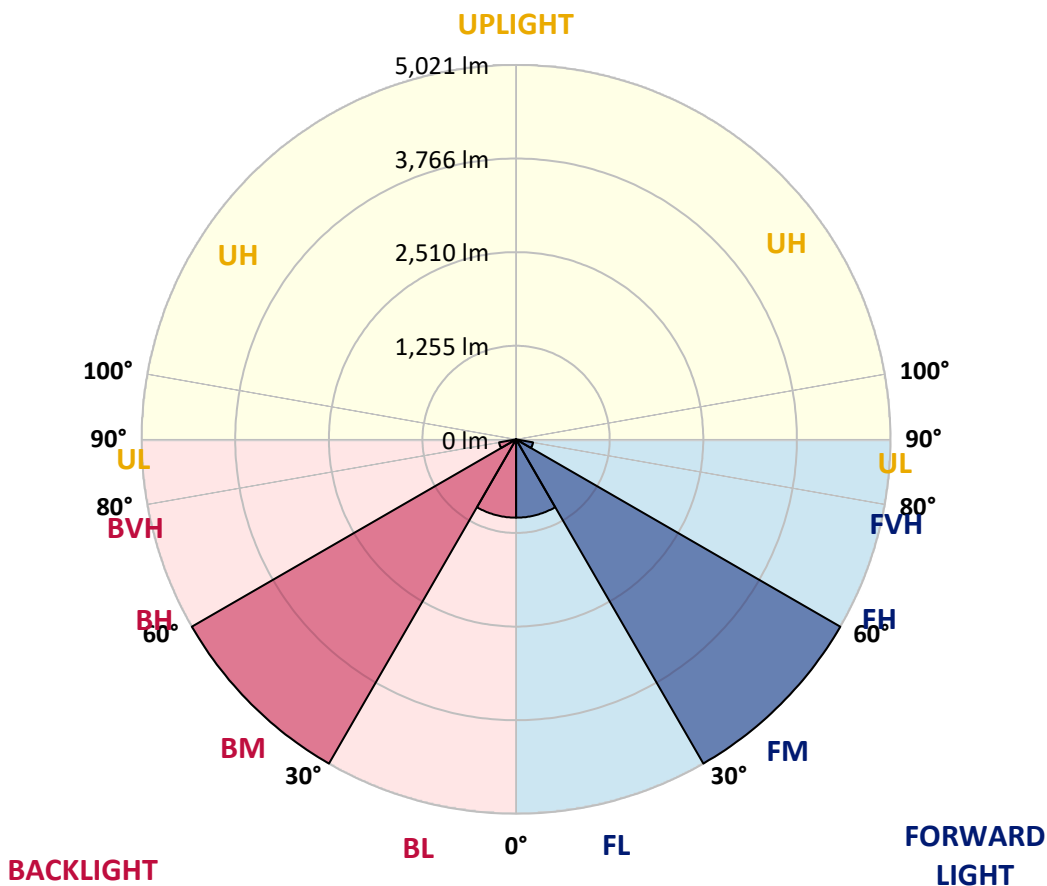
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 1050.3 | 8.3       |                         |      |        |
| FM (30°-60°)   | 5020.9 | 39.8      |                         |      |        |
| FH (60°-80°)   | 231.2  | 1.8       |                         |      | G0/660 |
| FVH (80°-90°)  | 0.5    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 1050.3 | 8.3       | B3/2500                 |      |        |
| BM (30°-60°)   | 5020.9 | 39.8      | B4/8500                 |      |        |
| BH (60°-80°)   | 231.2  | 1.8       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 0.5    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2038.1 | 2038.1 | 2038.1 | 2038.1 | 2038.1 | 2038.1 | 2038.1 | 2038.1 | 2038.1 | 2038.1 | 2038.1 |
| 2.5°  | 2034.2 | 2034.2 | 2039.4 | 2043.2 | 2043.2 | 2053.5 | 2049.6 | 2045.8 | 2045.8 | 2040.7 | 2050.9 |
| 5°    | 2063.8 | 2062.5 | 2067.6 | 2070.2 | 2065.1 | 2075.3 | 2068.9 | 2065.1 | 2062.5 | 2057.3 | 2067.6 |
| 7.5°  | 2095.9 | 2097.2 | 2098.4 | 2103.6 | 2101.0 | 2111.3 | 2106.1 | 2098.4 | 2095.9 | 2088.2 | 2098.4 |
| 10°   | 2134.4 | 2134.4 | 2137.0 | 2143.4 | 2144.7 | 2157.5 | 2152.4 | 2143.4 | 2135.7 | 2128.0 | 2138.3 |
| 12.5° | 2183.2 | 2184.5 | 2188.3 | 2197.3 | 2202.5 | 2216.6 | 2208.9 | 2190.9 | 2179.3 | 2170.4 | 2181.9 |
| 15°   | 2253.8 | 2252.5 | 2257.7 | 2270.5 | 2277.0 | 2287.2 | 2275.7 | 2251.3 | 2237.1 | 2226.9 | 2234.6 |
| 17.5° | 2330.9 | 2330.9 | 2333.5 | 2346.3 | 2355.3 | 2370.7 | 2356.6 | 2327.0 | 2314.2 | 2300.1 | 2307.8 |
| 20°   | 2415.6 | 2419.5 | 2422.1 | 2431.1 | 2446.5 | 2461.9 | 2450.3 | 2420.8 | 2406.7 | 2388.7 | 2397.7 |
| 22.5° | 2527.4 | 2523.5 | 2524.8 | 2540.2 | 2562.1 | 2577.5 | 2568.5 | 2533.8 | 2509.4 | 2495.3 | 2500.4 |
| 25°   | 2651.9 | 2650.7 | 2654.5 | 2677.6 | 2702.0 | 2718.7 | 2705.9 | 2660.9 | 2636.5 | 2612.1 | 2622.4 |
| 27.5° | 2804.8 | 2806.1 | 2808.6 | 2836.9 | 2875.4 | 2899.8 | 2867.7 | 2822.8 | 2789.4 | 2757.3 | 2765.0 |
| 30°   | 2985.8 | 2983.3 | 2991.0 | 3029.5 | 3086.0 | 3124.5 | 3087.3 | 3024.4 | 2976.9 | 2946.0 | 2949.9 |
| 32.5° | 3178.5 | 3181.1 | 3201.6 | 3263.2 | 3337.7 | 3405.8 | 3330.0 | 3246.5 | 3184.9 | 3127.1 | 3134.8 |
| 35°   | 3386.5 | 3393.0 | 3439.2 | 3530.4 | 3652.4 | 3743.5 | 3638.2 | 3500.8 | 3413.5 | 3339.0 | 3341.6 |
| 37.5° | 3631.8 | 3647.2 | 3711.4 | 3847.6 | 4022.2 | 4144.2 | 3990.1 | 3807.8 | 3694.7 | 3602.3 | 3595.9 |
| 40°   | 3954.2 | 3972.1 | 4059.5 | 4221.3 | 4433.2 | 4544.9 | 4366.4 | 4178.9 | 4038.9 | 3938.8 | 3923.3 |
| 42.5° | 4324.0 | 4347.1 | 4442.2 | 4607.8 | 4819.7 | 4895.5 | 4720.9 | 4562.9 | 4437.0 | 4318.9 | 4313.7 |
| 45°   | 4741.4 | 4754.2 | 4831.3 | 4958.4 | 5111.3 | 5129.2 | 4998.2 | 4910.9 | 4783.8 | 4673.3 | 4664.3 |
| 47.5° | 5133.1 | 5145.9 | 5198.6 | 5264.1 | 5300.0 | 5235.8 | 5212.7 | 5174.2 | 5009.8 | 4873.7 | 4845.4 |
| 50°   | 5431.0 | 5441.3 | 5506.8 | 5532.5 | 5432.3 | 5296.2 | 5341.1 | 5258.9 | 5080.4 | 4927.6 | 4883.9 |
| 52.5° | 5410.5 | 5436.2 | 5604.4 | 5750.8 | 5687.9 | 5577.4 | 5456.7 | 5279.5 | 5002.1 | 4792.8 | 4738.8 |
| 55°   | 4657.9 | 4692.6 | 5053.5 | 5535.1 | 5965.3 | 6012.8 | 5529.9 | 4958.4 | 4437.0 | 4130.1 | 4074.9 |
| 57.5° | 2993.6 | 3002.5 | 3443.0 | 4118.5 | 5088.1 | 5393.8 | 4586.0 | 3738.4 | 3089.9 | 2752.1 | 2729.0 |
| 60°   | 1100.6 | 1082.6 | 1415.2 | 1975.2 | 2930.6 | 3254.3 | 2699.5 | 1890.4 | 1348.4 | 1109.6 | 1090.3 |
| 62.5° | 264.6  | 267.1  | 331.3  | 497.0  | 919.5  | 1137.8 | 899.0  | 502.1  | 319.8  | 268.4  | 265.8  |
| 65°   | 133.6  | 131.0  | 132.3  | 142.6  | 196.5  | 235.0  | 192.6  | 136.1  | 131.0  | 132.3  | 131.0  |
| 67.5° | 86.0   | 84.8   | 87.3   | 88.6   | 87.3   | 82.2   | 80.9   | 83.5   | 83.5   | 84.8   | 82.2   |
| 70°   | 52.7   | 51.4   | 53.9   | 57.8   | 55.2   | 48.8   | 51.4   | 53.9   | 51.4   | 50.1   | 50.1   |
| 72.5° | 28.3   | 28.3   | 30.8   | 33.4   | 30.8   | 28.3   | 28.3   | 29.5   | 28.3   | 28.3   | 28.3   |
| 75°   | 12.8   | 12.8   | 14.1   | 15.4   | 12.8   | 12.8   | 12.8   | 12.8   | 12.8   | 12.8   | 12.8   |
| 77.5° | 3.9    | 3.9    | 5.1    | 5.1    | 3.9    | 3.9    | 3.9    | 3.9    | 5.1    | 5.1    | 5.1    |
| 80°   | 1.3    | 2.6    | 2.6    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 2.6    | 2.6    | 2.6    |
| 82.5° | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    | 1.3    |
| 85°   | 1.3    | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3    | 1.3    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.3    | 1.3    | 1.3    | 1.3    |
| 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)