

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: P642968

Luminaire Tested: GWS-SA6E-722-U-5NQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-722-U-5NQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

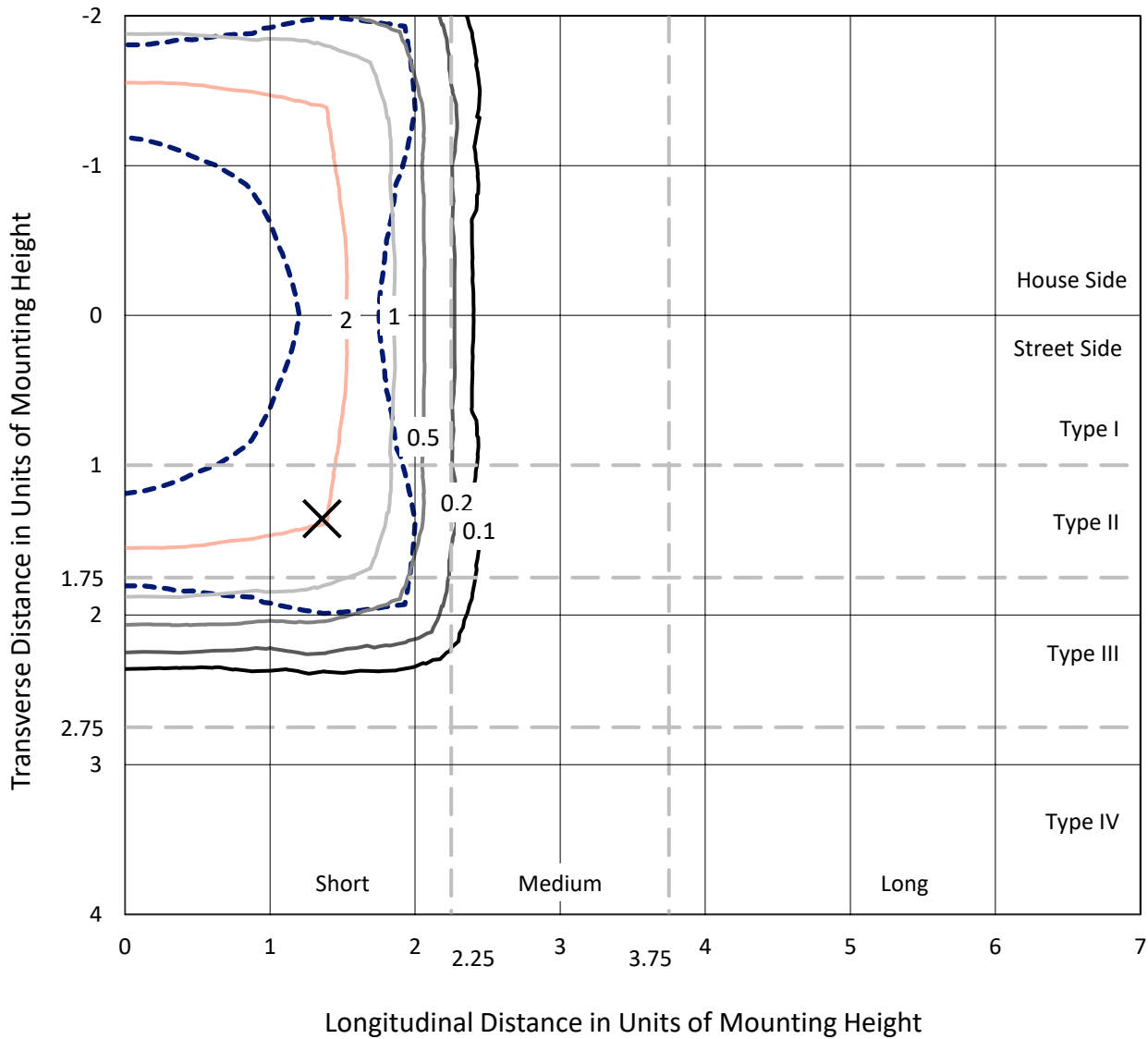
Lumens per Lamp: N/A  
Luminaire Lumens: 34463.7 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

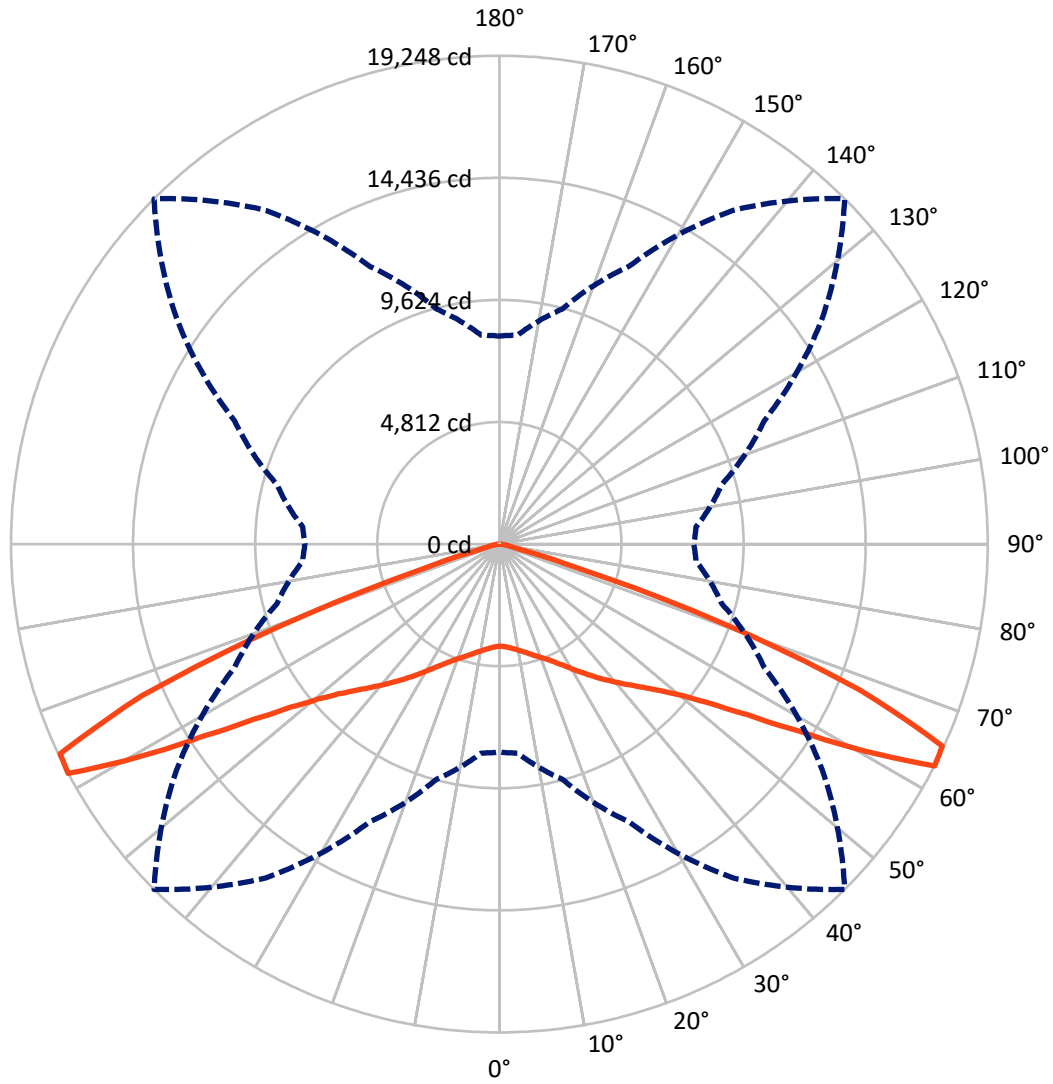
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17231.9  | 0.0    | 17231.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17231.9  | 0.0    | 17231.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 34463.7  | 0.0    | 34463.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 394.5   | 1.1       |
| 10°-20°   | 1272.1  | 3.7       |
| 20°-30°   | 2406.7  | 7.0       |
| 30°-40°   | 4050.9  | 11.8      |
| 40°-50°   | 6472.1  | 18.8      |
| 50°-60°   | 10432.7 | 30.3      |
| 60°-70°   | 8511.9  | 24.7      |
| 70°-80°   | 826.6   | 2.4       |
| 80°-90°   | 96.2    | 0.3       |
| 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°    | 34463.7 | 100.0     |
| 0°-180°   | 34463.7 | 100.0     |

**Coefficient of Utilization**



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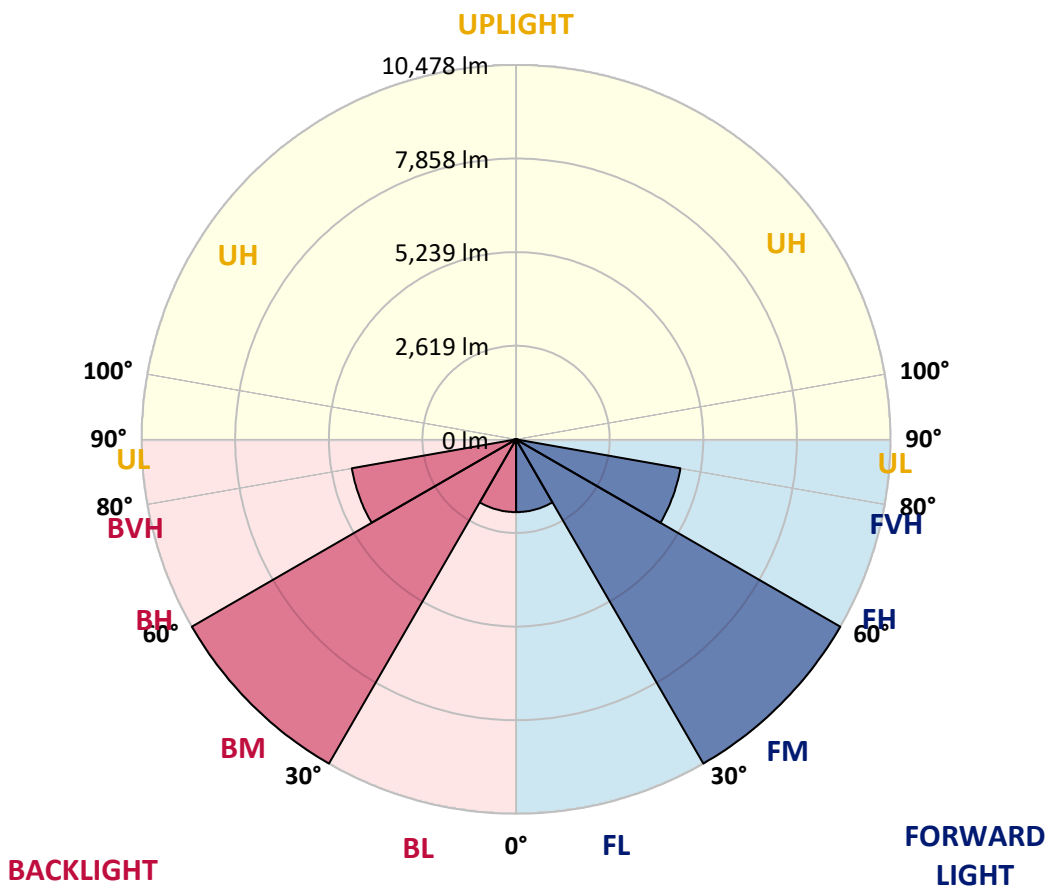
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2036.7  | 5.9       |                         |      |         |
| FM (30°-60°)   | 10477.8 | 30.4      |                         |      |         |
| FH (60°-80°)   | 4669.2  | 13.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 48.1    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 2036.7  | 5.9       | B3/2500                 |      |         |
| BM (30°-60°)   | 10477.8 | 30.4      | B5                      |      |         |
| BH (60°-80°)   | 4669.2  | 13.5      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 48.1    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4020.7  | 4020.7  | 4020.7  | 4020.7  | 4020.7  | 4020.7  | 4020.7  | 4020.7  | 4020.7  | 4020.7  | 4020.7  |
| 2.5°  | 4015.9  | 4015.9  | 4025.4  | 4032.5  | 4027.7  | 4046.7  | 4044.3  | 4039.6  | 4037.2  | 4030.1  | 4051.4  |
| 5°    | 4070.3  | 4070.3  | 4077.4  | 4084.5  | 4072.7  | 4096.3  | 4086.8  | 4082.1  | 4079.7  | 4070.3  | 4089.2  |
| 7.5°  | 4131.7  | 4138.8  | 4141.2  | 4153.0  | 4145.9  | 4171.9  | 4164.8  | 4155.4  | 4150.7  | 4138.8  | 4155.4  |
| 10°   | 4200.3  | 4205.0  | 4207.4  | 4228.7  | 4231.0  | 4261.8  | 4254.7  | 4242.8  | 4233.4  | 4221.6  | 4245.2  |
| 12.5° | 4292.5  | 4294.8  | 4301.9  | 4327.9  | 4335.0  | 4358.7  | 4356.3  | 4339.8  | 4327.9  | 4311.4  | 4337.4  |
| 15°   | 4410.7  | 4413.0  | 4424.8  | 4450.8  | 4462.7  | 4491.0  | 4481.6  | 4455.6  | 4439.0  | 4420.1  | 4441.4  |
| 17.5° | 4533.6  | 4543.0  | 4554.9  | 4580.9  | 4597.4  | 4630.5  | 4618.7  | 4590.3  | 4576.1  | 4557.2  | 4571.4  |
| 20°   | 4691.9  | 4694.3  | 4701.4  | 4729.8  | 4741.6  | 4779.4  | 4781.8  | 4753.4  | 4746.3  | 4727.4  | 4748.7  |
| 22.5° | 4866.9  | 4869.2  | 4876.3  | 4907.0  | 4928.3  | 4952.0  | 4966.1  | 4949.6  | 4937.8  | 4914.1  | 4940.1  |
| 25°   | 5060.7  | 5084.3  | 5091.4  | 5129.2  | 5152.9  | 5167.1  | 5183.6  | 5176.5  | 5160.0  | 5131.6  | 5143.4  |
| 27.5° | 5332.5  | 5337.2  | 5349.1  | 5391.6  | 5405.8  | 5420.0  | 5436.5  | 5438.9  | 5415.2  | 5382.1  | 5398.7  |
| 30°   | 5642.2  | 5639.8  | 5665.8  | 5698.9  | 5710.7  | 5722.5  | 5746.2  | 5760.3  | 5729.6  | 5694.2  | 5710.7  |
| 32.5° | 5958.9  | 5987.3  | 6020.3  | 6051.1  | 6044.0  | 6048.7  | 6086.5  | 6112.5  | 6070.0  | 6006.2  | 6020.3  |
| 35°   | 6315.8  | 6334.7  | 6377.3  | 6422.2  | 6412.7  | 6405.6  | 6429.3  | 6455.3  | 6396.2  | 6313.4  | 6334.7  |
| 37.5° | 6682.2  | 6710.5  | 6774.4  | 6828.7  | 6814.5  | 6781.5  | 6807.5  | 6835.8  | 6779.1  | 6684.5  | 6675.1  |
| 40°   | 7091.1  | 7136.0  | 7228.2  | 7273.1  | 7235.3  | 7171.5  | 7216.4  | 7284.9  | 7228.2  | 7119.5  | 7093.5  |
| 42.5° | 7570.9  | 7625.3  | 7717.5  | 7786.0  | 7703.3  | 7599.3  | 7674.9  | 7774.2  | 7760.0  | 7615.8  | 7570.9  |
| 45°   | 8164.2  | 8199.7  | 8313.1  | 8346.2  | 8223.3  | 8079.1  | 8216.2  | 8367.5  | 8332.0  | 8176.0  | 8116.9  |
| 47.5° | 8809.5  | 8863.9  | 8963.2  | 9024.6  | 8826.1  | 8646.4  | 8837.9  | 9041.2  | 9003.3  | 8856.8  | 8788.2  |
| 50°   | 9632.1  | 9703.0  | 9833.0  | 9885.0  | 9610.8  | 9405.2  | 9651.0  | 9908.6  | 9835.4  | 9639.2  | 9549.4  |
| 52.5° | 10527.9 | 10584.7 | 10806.8 | 10910.8 | 10653.2 | 10431.0 | 10646.1 | 10899.0 | 10743.0 | 10483.0 | 10362.5 |
| 55°   | 11317.4 | 11374.1 | 11700.3 | 12045.4 | 12033.6 | 11880.0 | 11988.7 | 11993.4 | 11570.3 | 11140.1 | 11012.5 |
| 57.5° | 11487.6 | 11544.3 | 12166.0 | 13068.9 | 13707.1 | 13884.4 | 13565.3 | 12894.0 | 11828.0 | 11073.9 | 10929.8 |
| 60°   | 10579.9 | 10643.7 | 11631.8 | 13281.6 | 15380.6 | 16564.8 | 15094.6 | 12875.1 | 11031.4 | 10010.3 | 9873.2  |
| 62.5° | 8197.3  | 8265.9  | 9594.3  | 12071.4 | 16056.6 | 19247.6 | 15539.0 | 11520.7 | 9074.2  | 7781.3  | 7660.8  |
| 65°   | 3914.3  | 3914.3  | 5602.0  | 8658.2  | 14709.3 | 19183.8 | 14253.1 | 8523.5  | 5462.5  | 4195.6  | 4091.6  |
| 67.5° | 969.1   | 973.8   | 1441.9  | 3370.6  | 10005.5 | 15309.7 | 10168.6 | 4091.6  | 1924.1  | 1361.5  | 1326.0  |
| 70°   | 605.1   | 602.7   | 668.9   | 912.4   | 3500.6  | 9291.7  | 4157.8  | 1233.9  | 782.4   | 690.2   | 685.5   |
| 72.5° | 470.4   | 470.4   | 503.5   | 583.8   | 917.1   | 3165.0  | 1212.6  | 685.5   | 567.3   | 510.6   | 510.6   |
| 75°   | 371.1   | 371.1   | 394.7   | 437.3   | 541.3   | 815.5   | 645.3   | 508.2   | 439.6   | 401.8   | 397.1   |
| 77.5° | 276.6   | 281.3   | 300.2   | 328.6   | 368.7   | 458.6   | 408.9   | 382.9   | 342.7   | 314.4   | 304.9   |
| 80°   | 179.6   | 186.7   | 210.4   | 226.9   | 241.1   | 302.6   | 267.1   | 278.9   | 260.0   | 226.9   | 222.2   |
| 82.5° | 96.9    | 99.3    | 127.6   | 132.4   | 137.1   | 165.5   | 170.2   | 177.3   | 184.4   | 144.2   | 134.7   |
| 85°   | 35.5    | 35.5    | 42.5    | 49.6    | 54.4    | 59.1    | 80.4    | 99.3    | 104.0   | 82.7    | 80.4    |
| 87.5° | 7.1     | 7.1     | 7.1     | 4.7     | 4.7     | 4.7     | 14.2    | 26.0    | 42.5    | 33.1    | 33.1    |
| 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)