

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: P641647

Luminaire Tested: GWS-SA6B-735-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-735-U-5NQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18931 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

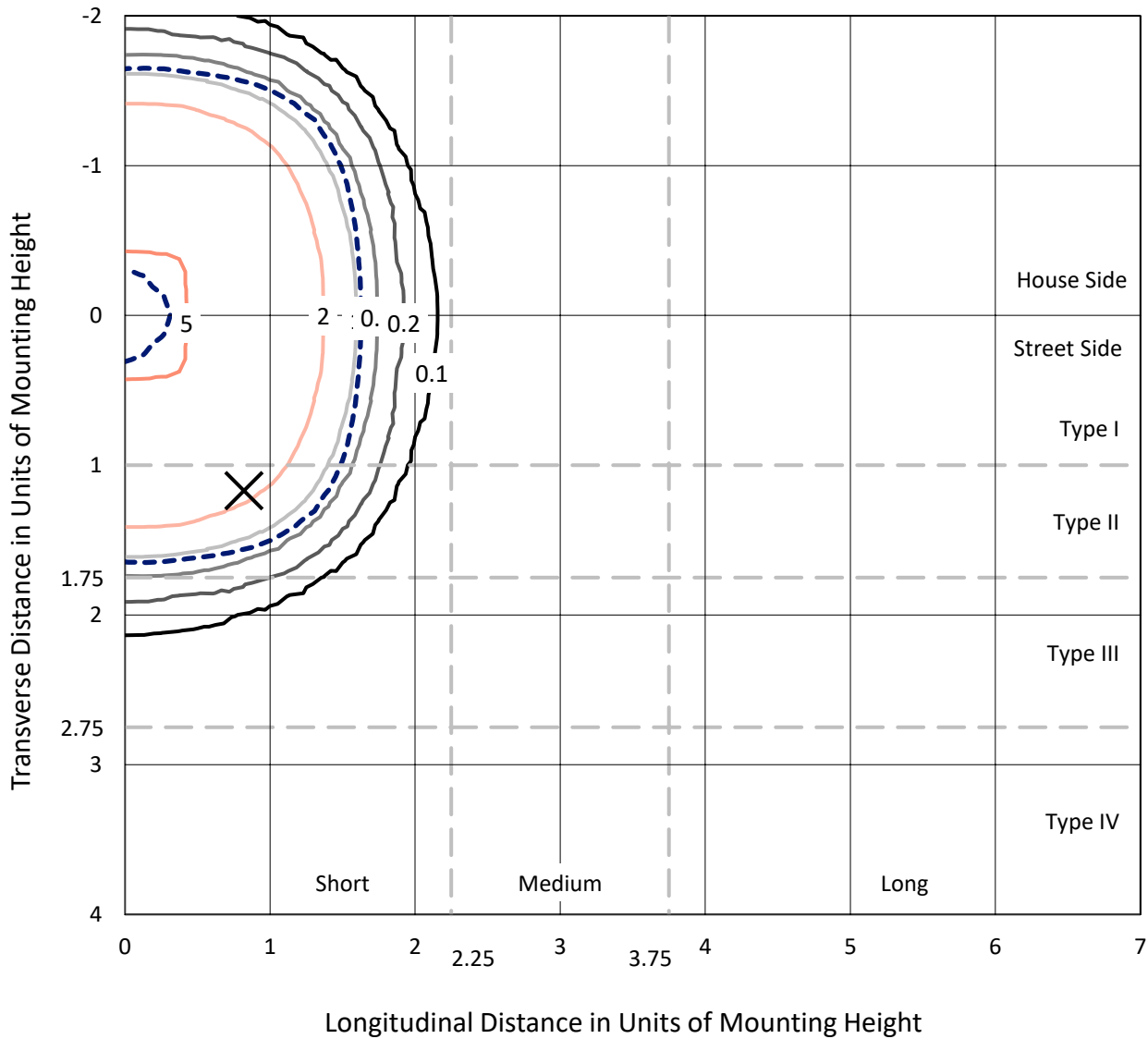
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P641647  
 CATALOG NUMBER: GWS-SA6B-735-U-5NQ-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

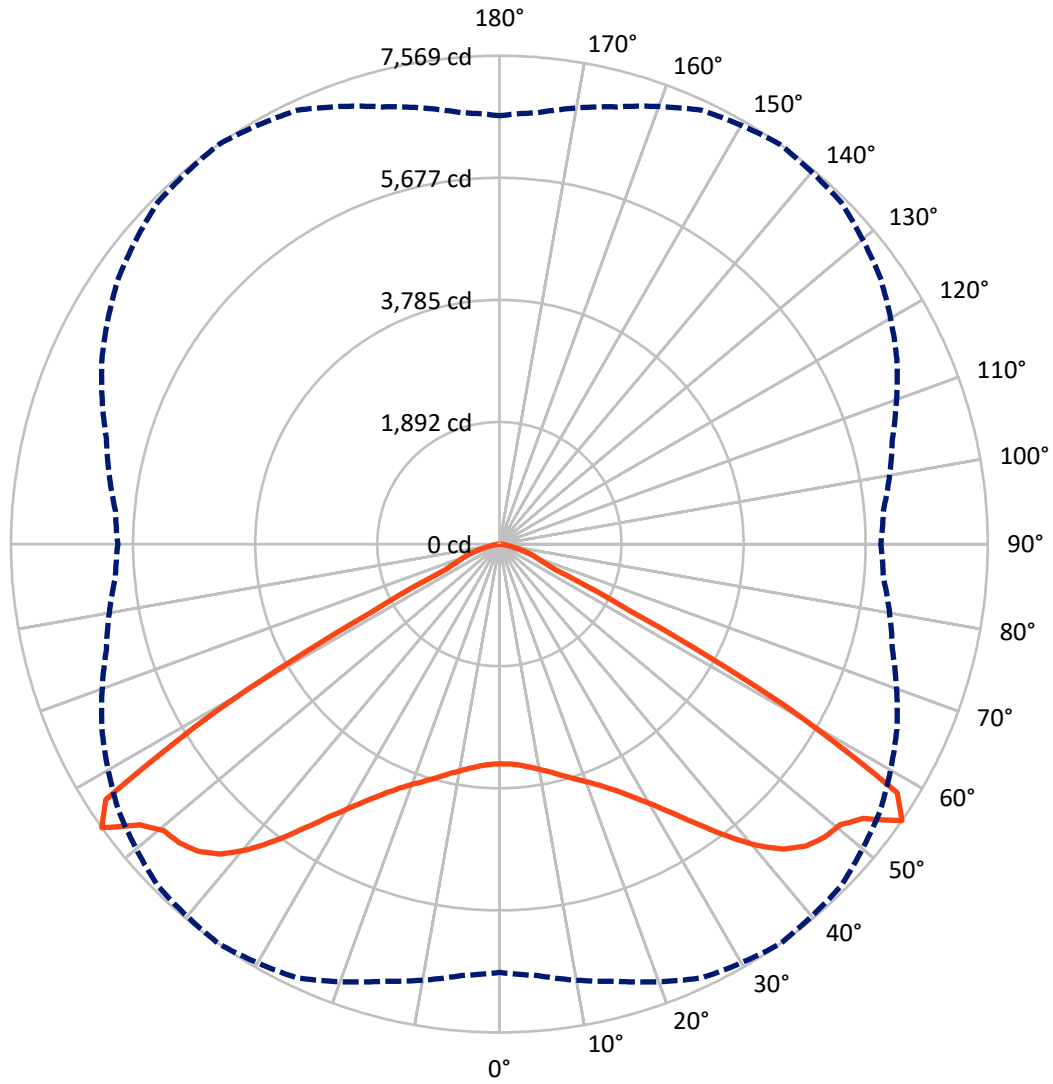
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - N/A

REPORT NUMBER: P641647  
CATALOG NUMBER: GWS-SA6B-735-U-5NQ-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P641647

CATALOG NUMBER: GWS-SA6B-735-U-5NQ-W-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9465.5   | 0.0    | 9465.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 9465.5   | 0.0    | 9465.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 18931.0  | 0.0    | 18931.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 332.2   | 1.8       |
| 10°-20°   | 1057.6  | 5.6       |
| 20°-30°   | 1957.4  | 10.3      |
| 30°-40°   | 3274.4  | 17.3      |
| 40°-50°   | 4989.6  | 26.4      |
| 50°-60°   | 5589.4  | 29.5      |
| 60°-70°   | 1322.5  | 7.0       |
| 70°-80°   | 356.6   | 1.9       |
| 80°-90°   | 51.3    | 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°    | 18931.0 | 100.0     |
| 0°-180°   | 18931.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P641647

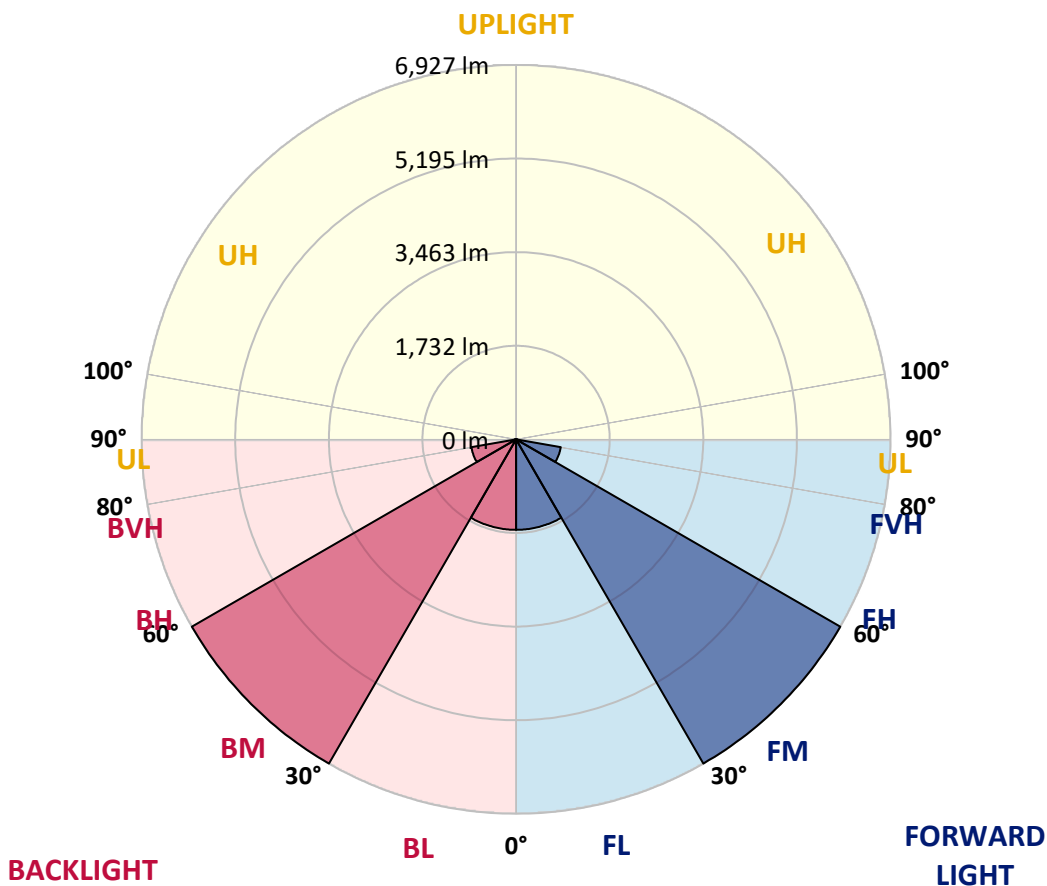
CATALOG NUMBER: GWS-SA6B-735-U-5NQ-W-GRSWH

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1673.6 | 8.8       |                         |      |         |
| FM (30°-60°)   | 6926.7 | 36.6      |                         |      |         |
| FH (60°-80°)   | 839.5  | 4.4       |                         |      | G1/1800 |
| FVH (80°-90°)  | 25.7   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1673.6 | 8.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 6926.7 | 36.6      | B4/8500                 |      |         |
| BH (60°-80°)   | 839.5  | 4.4       | B2/1000                 |      | G1/1800 |
| BVH (80°-90°)  | 25.7   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G1**

Type V Short





REPORT NUMBER: P641647

CATALOG NUMBER: GWS-SA6B-735-U-5NQ-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3405.7 | 3405.7 | 3405.7 | 3405.7 | 3405.7 | 3405.7 | 3405.7 | 3405.7 | 3405.7 | 3405.7 | 3405.7 |
| 2.5°  | 3398.3 | 3398.3 | 3404.2 | 3411.7 | 3413.2 | 3428.2 | 3425.2 | 3419.2 | 3416.2 | 3410.2 | 3423.7 |
| 5°    | 3435.7 | 3437.2 | 3441.7 | 3446.2 | 3443.2 | 3455.1 | 3450.6 | 3443.2 | 3438.7 | 3431.2 | 3444.7 |
| 7.5°  | 3485.1 | 3485.1 | 3489.6 | 3495.6 | 3492.6 | 3510.5 | 3501.5 | 3491.1 | 3483.6 | 3474.6 | 3486.6 |
| 10°   | 3530.0 | 3533.0 | 3537.5 | 3549.5 | 3555.4 | 3574.9 | 3568.9 | 3553.9 | 3542.0 | 3531.5 | 3545.0 |
| 12.5° | 3597.4 | 3600.4 | 3604.8 | 3621.3 | 3631.8 | 3651.3 | 3642.3 | 3621.3 | 3603.3 | 3588.4 | 3603.3 |
| 15°   | 3684.2 | 3681.2 | 3693.2 | 3714.1 | 3727.6 | 3745.6 | 3735.1 | 3699.2 | 3675.2 | 3655.7 | 3670.7 |
| 17.5° | 3772.5 | 3771.0 | 3783.0 | 3809.9 | 3829.4 | 3853.3 | 3835.4 | 3793.5 | 3768.0 | 3744.1 | 3759.0 |
| 20°   | 3868.3 | 3872.8 | 3884.8 | 3910.2 | 3938.7 | 3970.1 | 3955.1 | 3910.2 | 3881.8 | 3854.8 | 3866.8 |
| 22.5° | 3986.6 | 3988.1 | 4001.6 | 4034.5 | 4071.9 | 4101.9 | 4092.9 | 4037.5 | 4001.6 | 3973.1 | 3988.1 |
| 25°   | 4128.8 | 4127.3 | 4145.3 | 4184.2 | 4236.6 | 4266.5 | 4247.1 | 4185.7 | 4146.8 | 4113.8 | 4125.8 |
| 27.5° | 4292.0 | 4290.5 | 4317.4 | 4368.3 | 4443.2 | 4485.1 | 4444.7 | 4368.3 | 4314.4 | 4268.0 | 4278.5 |
| 30°   | 4497.1 | 4492.6 | 4522.5 | 4591.4 | 4688.7 | 4759.1 | 4699.2 | 4592.9 | 4522.5 | 4473.1 | 4483.6 |
| 32.5° | 4724.6 | 4730.6 | 4768.0 | 4860.8 | 4983.6 | 5074.9 | 4985.1 | 4866.8 | 4772.5 | 4700.7 | 4712.6 |
| 35°   | 4974.6 | 4974.6 | 5051.0 | 5166.2 | 5341.4 | 5462.7 | 5323.4 | 5152.8 | 5027.0 | 4928.2 | 4931.2 |
| 37.5° | 5253.1 | 5256.1 | 5356.4 | 5515.0 | 5744.1 | 5886.3 | 5697.7 | 5486.6 | 5333.9 | 5227.6 | 5221.6 |
| 40°   | 5592.9 | 5601.9 | 5705.2 | 5881.8 | 6139.3 | 6269.6 | 6067.5 | 5860.9 | 5705.2 | 5579.4 | 5567.4 |
| 42.5° | 5976.1 | 5979.1 | 6088.4 | 6247.1 | 6464.2 | 6542.0 | 6383.3 | 6214.2 | 6086.9 | 5973.1 | 5961.2 |
| 45°   | 6341.4 | 6333.9 | 6428.2 | 6546.5 | 6672.3 | 6679.7 | 6591.4 | 6522.5 | 6411.8 | 6314.5 | 6296.5 |
| 47.5° | 6625.8 | 6619.9 | 6705.2 | 6769.6 | 6784.5 | 6711.2 | 6739.6 | 6750.1 | 6621.4 | 6489.6 | 6455.2 |
| 50°   | 6799.5 | 6811.5 | 6892.3 | 6928.2 | 6839.9 | 6720.2 | 6827.9 | 6801.0 | 6616.9 | 6444.7 | 6389.3 |
| 52.5° | 6904.3 | 6922.3 | 7063.0 | 7154.3 | 7063.0 | 6949.2 | 6964.2 | 6805.5 | 6540.5 | 6313.0 | 6241.1 |
| 55°   | 6639.3 | 6711.2 | 7015.1 | 7419.3 | 7569.0 | 7489.6 | 7205.2 | 6796.5 | 6305.5 | 5974.6 | 5913.3 |
| 57.5° | 4920.7 | 5034.5 | 5485.1 | 6360.9 | 7271.1 | 7560.0 | 6729.1 | 5697.7 | 4953.7 | 4528.5 | 4492.6 |
| 60°   | 2512.0 | 2639.3 | 3000.0 | 3899.8 | 5070.4 | 5477.6 | 4687.2 | 3648.3 | 2899.7 | 2555.4 | 2516.5 |
| 62.5° | 1025.5 | 1046.4 | 1164.7 | 1512.0 | 2241.1 | 2585.4 | 2271.0 | 1594.3 | 1197.6 | 1103.3 | 1104.8 |
| 65°   | 806.9  | 811.4  | 805.4  | 826.4  | 938.6  | 1041.9 | 962.6  | 845.8  | 824.9  | 835.3  | 827.9  |
| 67.5° | 703.6  | 705.1  | 700.6  | 700.6  | 705.1  | 700.6  | 709.6  | 714.1  | 717.1  | 729.1  | 721.6  |
| 70°   | 588.3  | 589.8  | 589.8  | 592.8  | 591.3  | 583.8  | 597.3  | 603.3  | 604.8  | 612.3  | 607.8  |
| 72.5° | 455.1  | 459.6  | 462.6  | 464.1  | 462.6  | 458.1  | 465.6  | 476.1  | 474.6  | 482.0  | 474.6  |
| 75°   | 308.4  | 314.4  | 317.4  | 323.4  | 321.9  | 321.9  | 330.8  | 335.3  | 330.8  | 336.8  | 330.8  |
| 77.5° | 175.2  | 179.6  | 188.6  | 194.6  | 200.6  | 205.1  | 211.1  | 214.1  | 212.6  | 215.6  | 212.6  |
| 80°   | 101.8  | 103.3  | 110.8  | 113.8  | 121.3  | 128.7  | 134.7  | 137.7  | 139.2  | 140.7  | 139.2  |
| 82.5° | 58.4   | 59.9   | 62.9   | 65.9   | 71.9   | 77.8   | 83.8   | 88.3   | 88.3   | 89.8   | 88.3   |
| 85°   | 28.4   | 28.4   | 29.9   | 31.4   | 34.4   | 38.9   | 43.4   | 47.9   | 49.4   | 49.4   | 49.4   |
| 87.5° | 4.5    | 4.5    | 6.0    | 6.0    | 7.5    | 9.0    | 12.0   | 15.0   | 16.5   | 16.5   | 16.5   |
| 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)