

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: P640217

Luminaire Tested: GWS-SA5D-740-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640217  
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-SA5D-740-U-5NQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

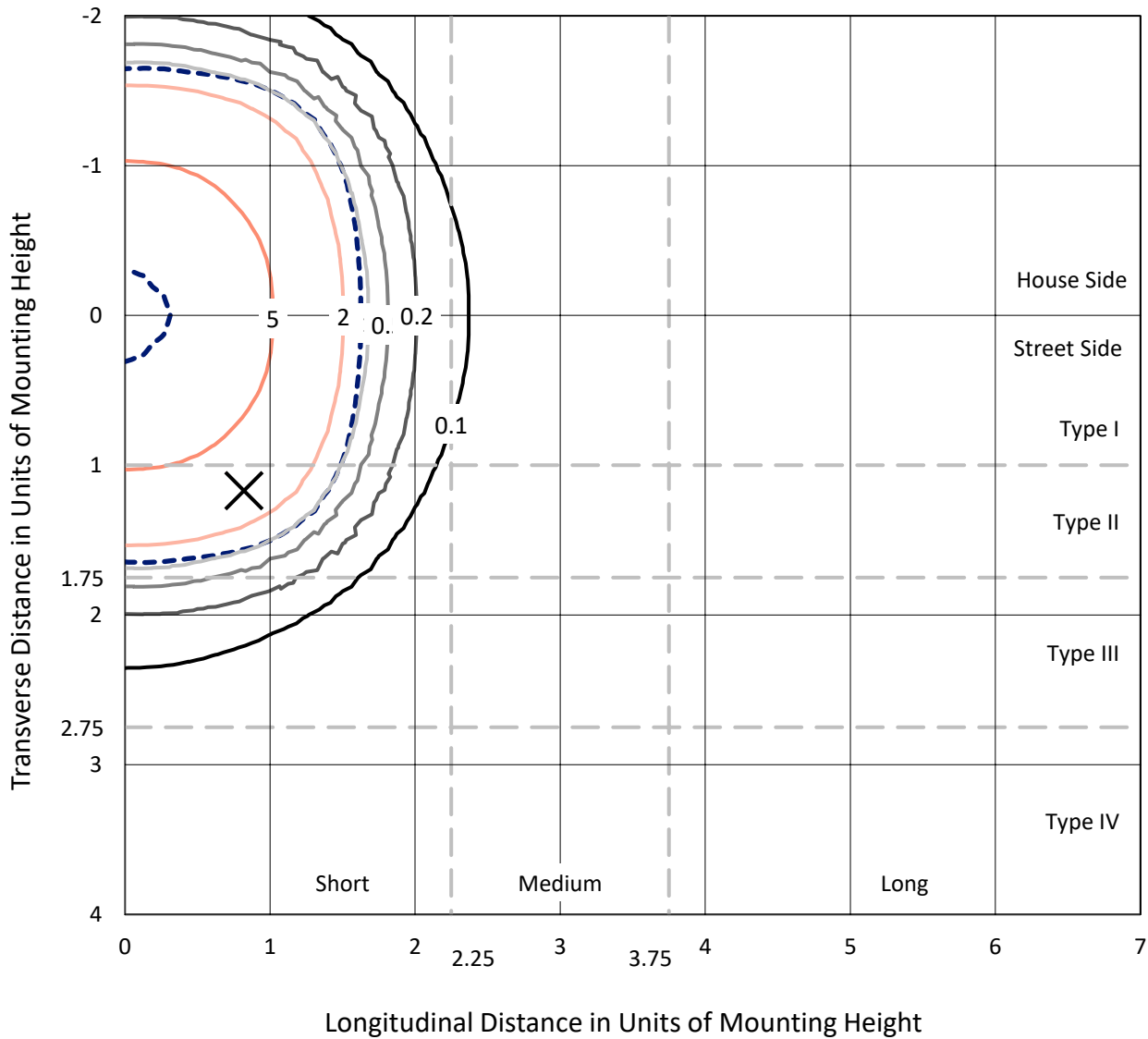
Lumens per Lamp: N/A  
Luminaire Lumens: 27233.8 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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: P640217  
 CATALOG NUMBER: GWS-SA5D-740-U-5NQ-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

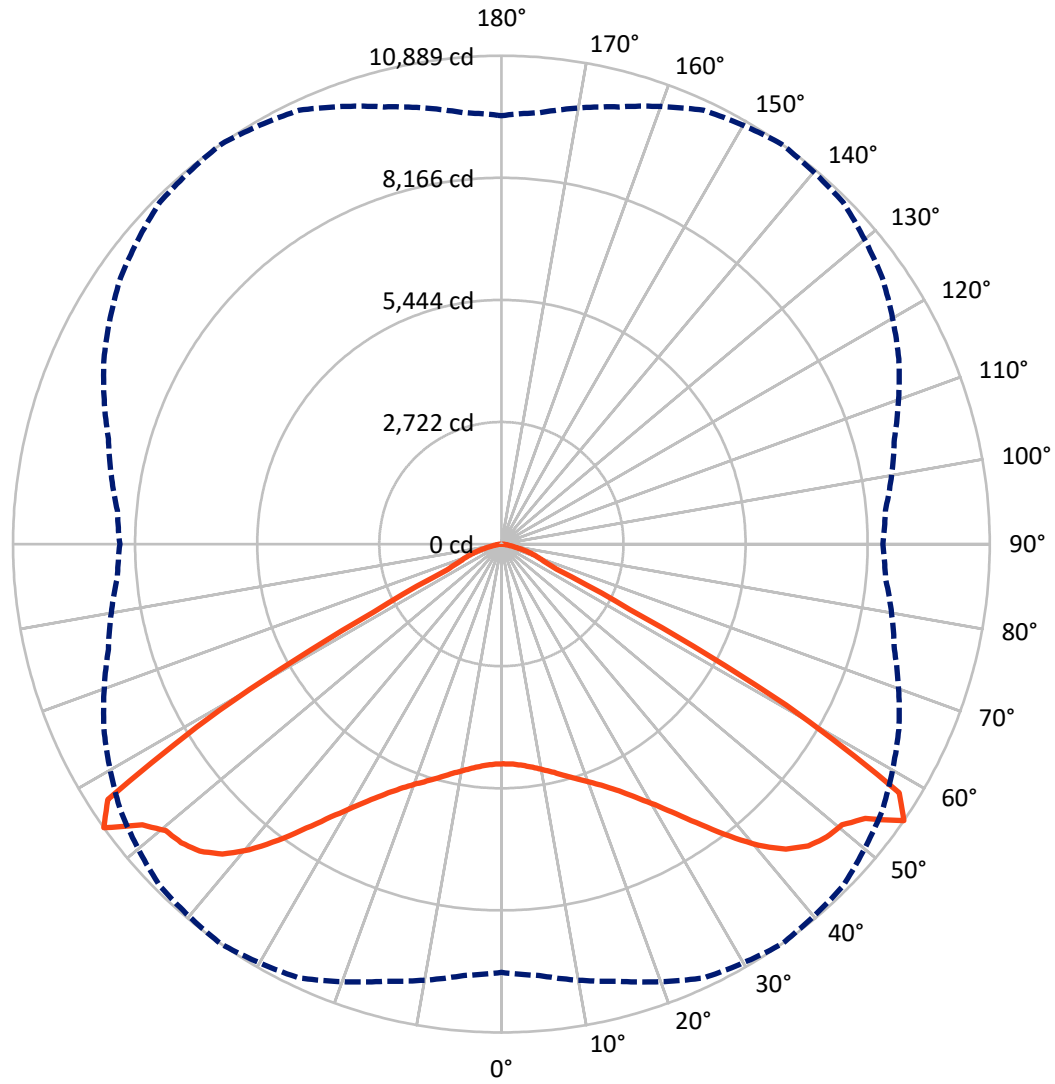
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P640217  
CATALOG NUMBER: GWS-SA5D-740-U-5NQ-W-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P640217

CATALOG NUMBER: GWS-SA5D-740-U-5NQ-W-GRSWH

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13616.9  | 0.0    | 13616.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13616.9  | 0.0    | 13616.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 27233.8  | 0.0    | 27233.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 477.9   | 1.8       |
| 10°-20°   | 1521.5  | 5.6       |
| 20°-30°   | 2815.9  | 10.3      |
| 30°-40°   | 4710.5  | 17.3      |
| 40°-50°   | 7178.0  | 26.4      |
| 50°-60°   | 8040.8  | 29.5      |
| 60°-70°   | 1902.5  | 7.0       |
| 70°-80°   | 512.9   | 1.9       |
| 80°-90°   | 73.8    | 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°    | 27233.8 | 100.0     |
| 0°-180°   | 27233.8 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P640217

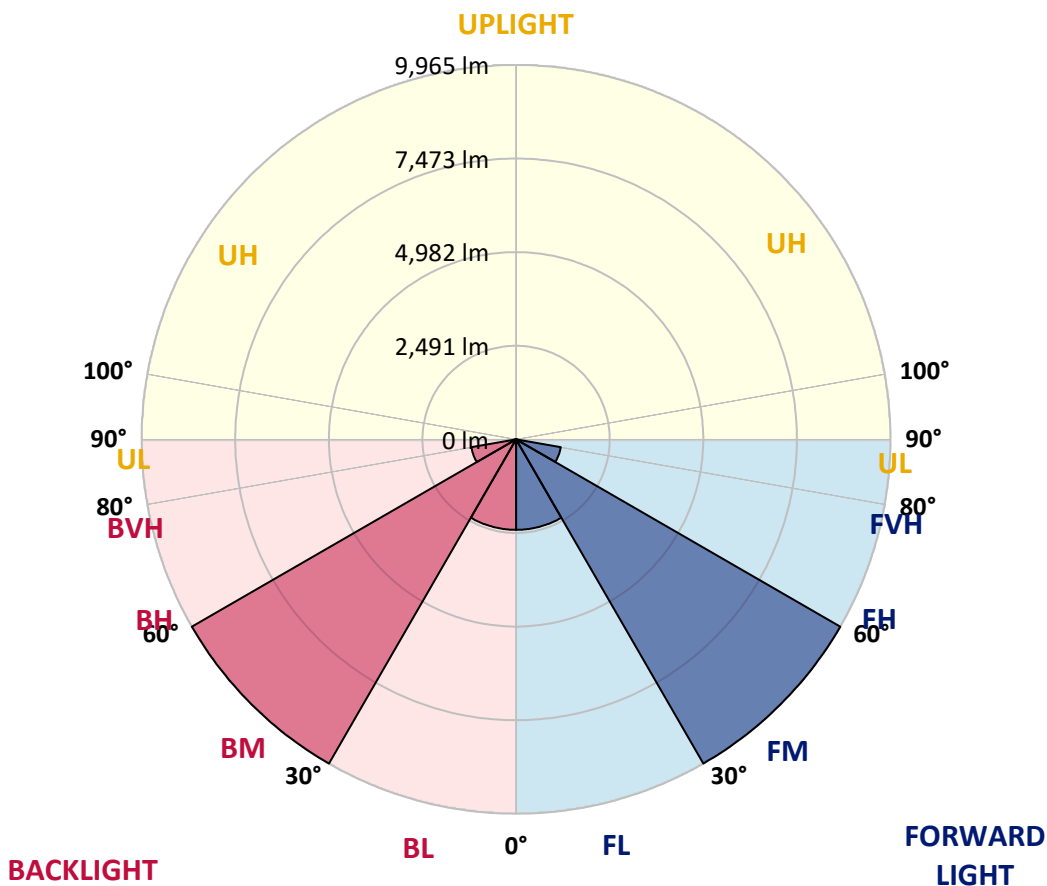
CATALOG NUMBER: GWS-SA5D-740-U-5NQ-W-GRSWH

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2407.6 | 8.8       |                         |      |         |
| FM (30°-60°)   | 9964.6 | 36.6      |                         |      |         |
| FH (60°-80°)   | 1207.7 | 4.4       |                         |      | G1/1800 |
| FVH (80°-90°)  | 36.9   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 2407.6 | 8.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 9964.6 | 36.6      | B5                      |      |         |
| BH (60°-80°)   | 1207.7 | 4.4       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 36.9   | 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-G1**

Type V Short





REPORT NUMBER: P640217

CATALOG NUMBER: GWS-SA5D-740-U-5NQ-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 55°     | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 4899.4 | 4899.4 | 4899.4  | 4899.4  | 4899.4  | 4899.4  | 4899.4  | 4899.4 | 4899.4 | 4899.4 | 4899.4 |
| 2.5°  | 4888.7 | 4888.7 | 4897.3  | 4908.0  | 4910.2  | 4931.7  | 4927.4  | 4918.8 | 4914.5 | 4905.9 | 4925.3 |
| 5°    | 4942.5 | 4944.7 | 4951.1  | 4957.6  | 4953.3  | 4970.5  | 4964.0  | 4953.3 | 4946.8 | 4936.0 | 4955.4 |
| 7.5°  | 5013.6 | 5013.6 | 5020.0  | 5028.6  | 5024.3  | 5050.2  | 5037.3  | 5022.2 | 5011.4 | 4998.5 | 5015.7 |
| 10°   | 5078.2 | 5082.5 | 5089.0  | 5106.2  | 5114.8  | 5142.8  | 5134.2  | 5112.6 | 5095.4 | 5080.3 | 5099.7 |
| 12.5° | 5175.1 | 5179.4 | 5185.9  | 5209.6  | 5224.6  | 5252.6  | 5239.7  | 5209.6 | 5183.7 | 5162.2 | 5183.7 |
| 15°   | 5300.0 | 5295.7 | 5312.9  | 5343.1  | 5362.5  | 5388.3  | 5373.2  | 5321.5 | 5287.1 | 5259.1 | 5280.6 |
| 17.5° | 5427.1 | 5424.9 | 5442.1  | 5480.9  | 5508.9  | 5543.4  | 5517.5  | 5457.2 | 5420.6 | 5386.1 | 5407.7 |
| 20°   | 5564.9 | 5571.4 | 5588.6  | 5625.2  | 5666.1  | 5711.3  | 5689.8  | 5625.2 | 5584.3 | 5545.5 | 5562.7 |
| 22.5° | 5735.0 | 5737.2 | 5756.6  | 5803.9  | 5857.8  | 5900.9  | 5887.9  | 5808.3 | 5756.6 | 5715.6 | 5737.2 |
| 25°   | 5939.6 | 5937.5 | 5963.3  | 6019.3  | 6094.7  | 6137.8  | 6109.8  | 6021.5 | 5965.5 | 5918.1 | 5935.3 |
| 27.5° | 6174.4 | 6172.2 | 6211.0  | 6284.2  | 6391.9  | 6452.2  | 6394.0  | 6284.2 | 6206.7 | 6139.9 | 6155.0 |
| 30°   | 6469.4 | 6462.9 | 6506.0  | 6605.1  | 6745.1  | 6846.3  | 6760.1  | 6607.2 | 6506.0 | 6434.9 | 6450.0 |
| 32.5° | 6796.8 | 6805.4 | 6859.2  | 6992.7  | 7169.3  | 7300.7  | 7171.5  | 7001.3 | 6865.7 | 6762.3 | 6779.5 |
| 35°   | 7156.4 | 7156.4 | 7266.2  | 7432.1  | 7684.0  | 7858.5  | 7658.2  | 7412.7 | 7231.8 | 7089.6 | 7093.9 |
| 37.5° | 7557.0 | 7561.3 | 7705.6  | 7933.9  | 8263.4  | 8467.9  | 8196.6  | 7892.9 | 7673.3 | 7520.4 | 7511.7 |
| 40°   | 8045.8 | 8058.8 | 8207.4  | 8461.5  | 8831.9  | 9019.3  | 8728.5  | 8431.3 | 8207.4 | 8026.5 | 8009.2 |
| 42.5° | 8597.2 | 8601.5 | 8758.7  | 8987.0  | 9299.2  | 9411.2  | 9182.9  | 8939.6 | 8756.5 | 8592.9 | 8575.6 |
| 45°   | 9122.6 | 9111.9 | 9247.5  | 9417.7  | 9598.6  | 9609.4  | 9482.3  | 9383.2 | 9223.9 | 9083.9 | 9058.0 |
| 47.5° | 9531.8 | 9523.2 | 9646.0  | 9738.6  | 9760.1  | 9654.6  | 9695.5  | 9710.6 | 9525.4 | 9335.8 | 9286.3 |
| 50°   | 9781.6 | 9798.9 | 9915.2  | 9966.8  | 9839.8  | 9667.5  | 9822.6  | 9783.8 | 9518.9 | 9271.2 | 9191.6 |
| 52.5° | 9932.4 | 9958.2 | 10160.7 | 10292.0 | 10160.7 | 9997.0  | 10018.5 | 9790.3 | 9409.1 | 9081.7 | 8978.3 |
| 55°   | 9551.2 | 9654.6 | 10091.8 | 10673.2 | 10888.6 | 10774.4 | 10365.3 | 9777.3 | 9071.0 | 8595.0 | 8506.7 |
| 57.5° | 7078.9 | 7242.5 | 7890.8  | 9150.6  | 10460.0 | 10875.7 | 9680.4  | 8196.6 | 7126.3 | 6514.6 | 6462.9 |
| 60°   | 3613.7 | 3796.8 | 4315.8  | 5610.1  | 7294.2  | 7880.0  | 6742.9  | 5248.3 | 4171.5 | 3676.2 | 3620.2 |
| 62.5° | 1475.2 | 1505.4 | 1675.5  | 2175.1  | 3223.9  | 3719.3  | 3267.0  | 2293.6 | 1722.9 | 1587.2 | 1589.4 |
| 65°   | 1160.8 | 1167.2 | 1158.6  | 1188.8  | 1350.3  | 1498.9  | 1384.8  | 1216.8 | 1186.6 | 1201.7 | 1190.9 |
| 67.5° | 1012.2 | 1014.3 | 1007.9  | 1007.9  | 1014.3  | 1007.9  | 1020.8  | 1027.3 | 1031.6 | 1048.8 | 1038.0 |
| 70°   | 846.4  | 848.5  | 848.5   | 852.8   | 850.7   | 839.9   | 859.3   | 867.9  | 870.1  | 880.8  | 874.4  |
| 72.5° | 654.7  | 661.2  | 665.5   | 667.6   | 665.5   | 659.0   | 669.8   | 684.8  | 682.7  | 693.5  | 682.7  |
| 75°   | 443.6  | 452.3  | 456.6   | 465.2   | 463.0   | 463.0   | 475.9   | 482.4  | 475.9  | 484.6  | 475.9  |
| 77.5° | 252.0  | 258.4  | 271.4   | 280.0   | 288.6   | 295.0   | 303.7   | 308.0  | 305.8  | 310.1  | 305.8  |
| 80°   | 146.4  | 148.6  | 159.4   | 163.7   | 174.4   | 185.2   | 193.8   | 198.1  | 200.3  | 202.4  | 200.3  |
| 82.5° | 84.0   | 86.1   | 90.5    | 94.8    | 103.4   | 112.0   | 120.6   | 127.1  | 127.1  | 129.2  | 127.1  |
| 85°   | 40.9   | 40.9   | 43.1    | 45.2    | 49.5    | 56.0    | 62.5    | 68.9   | 71.1   | 71.1   | 71.1   |
| 87.5° | 6.5    | 6.5    | 8.6     | 8.6     | 10.8    | 12.9    | 17.2    | 21.5   | 23.7   | 23.7   | 23.7   |
| 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)