

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: P638292

Luminaire Tested: GWS-SA4E-750-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638292  
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-SA4E-750-U-5NQ-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

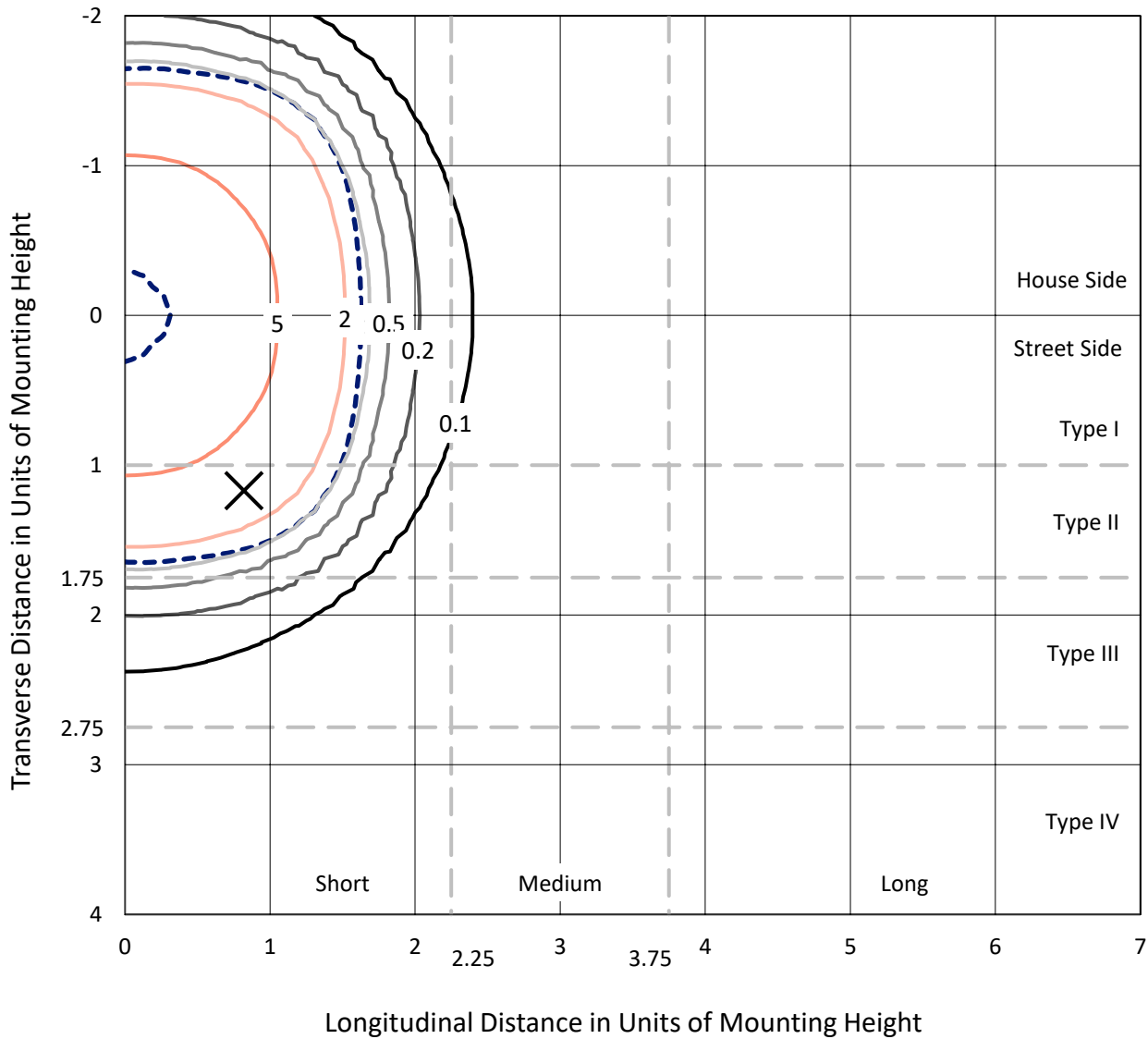
Lumens per Lamp: N/A  
Luminaire Lumens: 28378.7 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

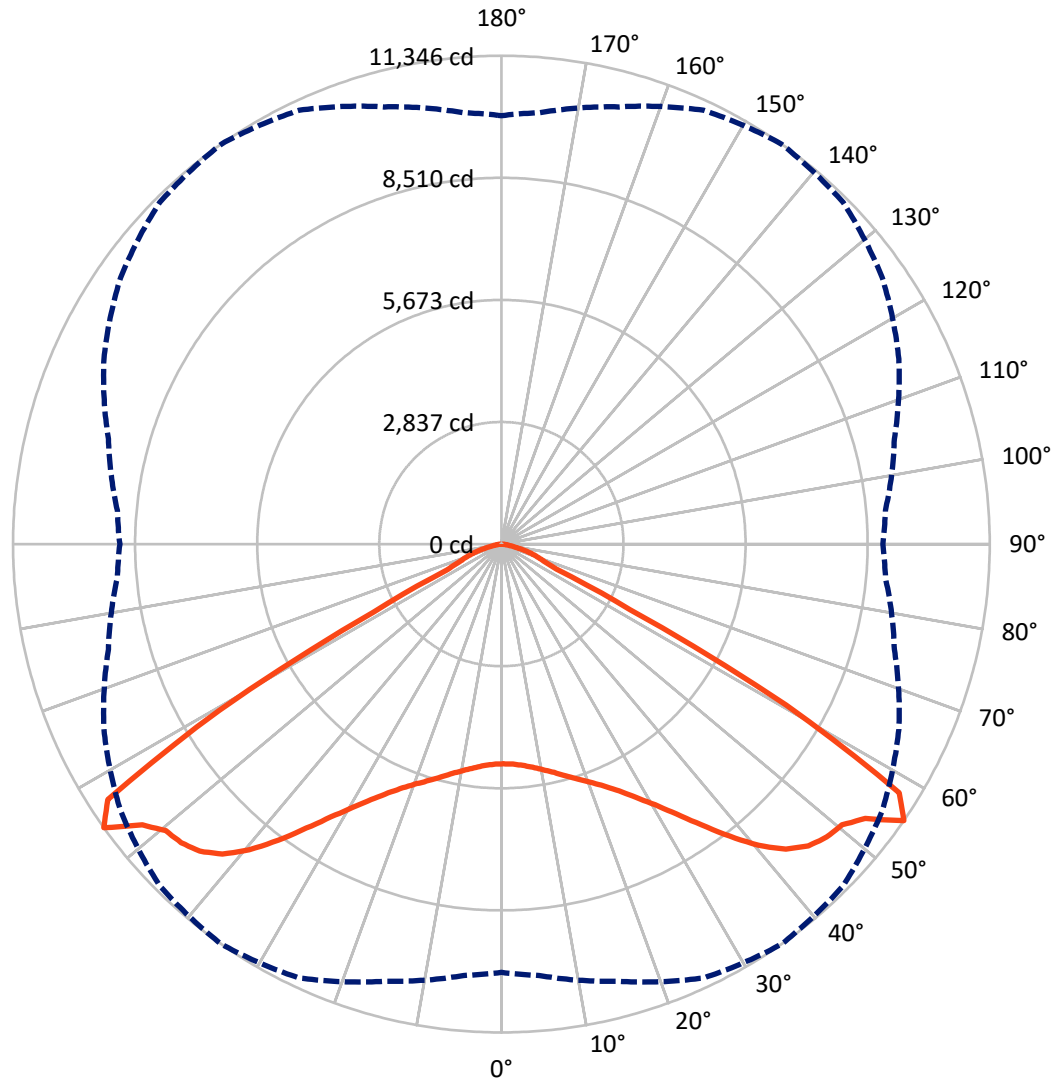
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14189.4  | 0.0    | 14189.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14189.4  | 0.0    | 14189.4 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 28378.7  | 0.0    | 28378.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 498.0   | 1.8       |
| 10°-20°   | 1585.4  | 5.6       |
| 20°-30°   | 2934.3  | 10.3      |
| 30°-40°   | 4908.5  | 17.3      |
| 40°-50°   | 7479.7  | 26.4      |
| 50°-60°   | 8378.9  | 29.5      |
| 60°-70°   | 1982.5  | 7.0       |
| 70°-80°   | 534.5   | 1.9       |
| 80°-90°   | 76.9    | 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°    | 28378.7 | 100.0     |
| 0°-180°   | 28378.7 | 100.0     |

**Coefficient of Utilization**



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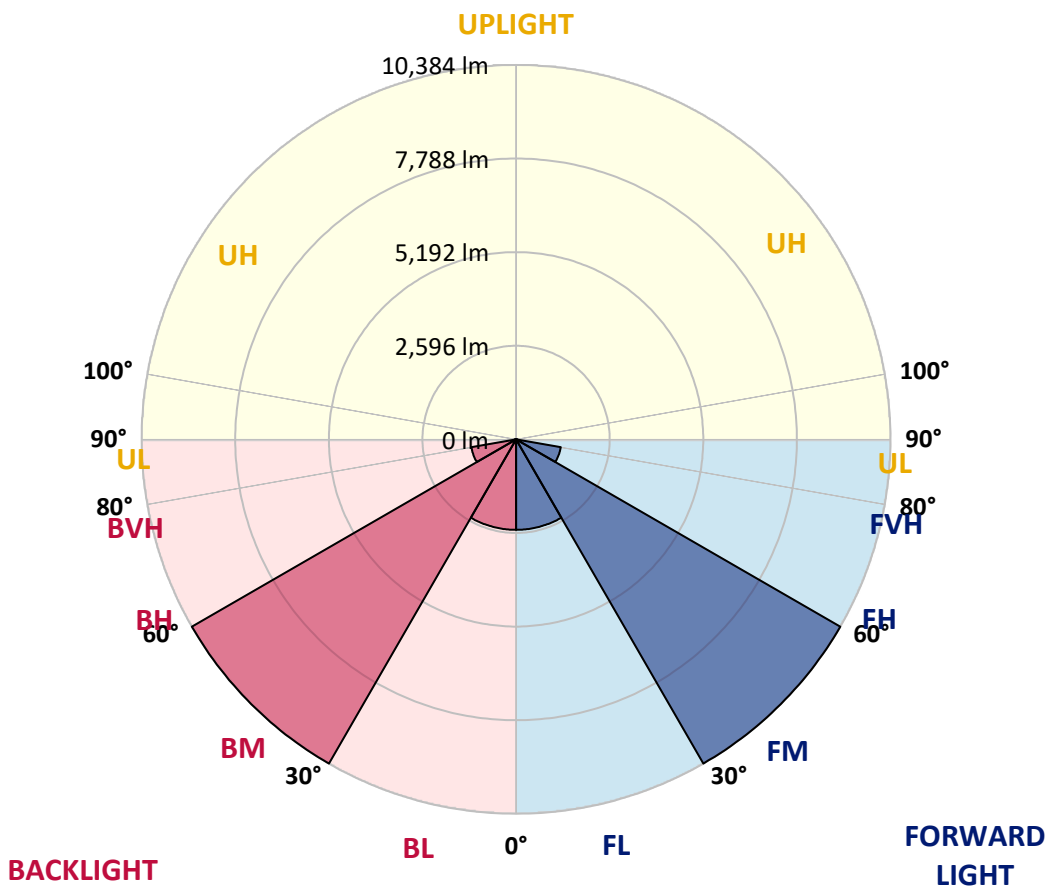
CATALOG NUMBER: GWS-SA4E-750-U-5NQ-W-GRSWH

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2508.8  | 8.8       |                         |      |         |
| FM (30°-60°)   | 10383.5 | 36.6      |                         |      |         |
| FH (60°-80°)   | 1258.5  | 4.4       |                         |      | G1/1800 |
| FVH (80°-90°)  | 38.5    | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 2508.8  | 8.8       | B4/5000                 |      |         |
| BM (30°-60°)   | 10383.5 | 36.6      | B5                      |      |         |
| BH (60°-80°)   | 1258.5  | 4.4       | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 38.5    | 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





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°    | 85°    | 90°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 5105.4  | 5105.4  | 5105.4  | 5105.4  | 5105.4  | 5105.4  | 5105.4  | 5105.4  | 5105.4 | 5105.4 | 5105.4 |
| 2.5°  | 5094.2  | 5094.2  | 5103.2  | 5114.4  | 5116.6  | 5139.1  | 5134.6  | 5125.6  | 5121.1 | 5112.1 | 5132.3 |
| 5°    | 5150.3  | 5152.5  | 5159.3  | 5166.0  | 5161.5  | 5179.5  | 5172.7  | 5161.5  | 5154.8 | 5143.6 | 5163.8 |
| 7.5°  | 5224.3  | 5224.3  | 5231.1  | 5240.1  | 5235.6  | 5262.5  | 5249.0  | 5233.3  | 5222.1 | 5208.6 | 5226.6 |
| 10°   | 5291.7  | 5296.2  | 5302.9  | 5320.8  | 5329.8  | 5359.0  | 5350.0  | 5327.6  | 5309.6 | 5293.9 | 5314.1 |
| 12.5° | 5392.7  | 5397.1  | 5403.9  | 5428.6  | 5444.3  | 5473.4  | 5460.0  | 5428.6  | 5401.6 | 5379.2 | 5401.6 |
| 15°   | 5522.8  | 5518.3  | 5536.3  | 5567.7  | 5587.9  | 5614.8  | 5599.1  | 5545.3  | 5509.3 | 5480.2 | 5502.6 |
| 17.5° | 5655.2  | 5653.0  | 5670.9  | 5711.3  | 5740.5  | 5776.4  | 5749.5  | 5686.6  | 5648.5 | 5612.6 | 5635.0 |
| 20°   | 5798.8  | 5805.6  | 5823.5  | 5861.7  | 5904.3  | 5951.4  | 5929.0  | 5861.7  | 5819.0 | 5778.6 | 5796.6 |
| 22.5° | 5976.1  | 5978.4  | 5998.6  | 6047.9  | 6104.0  | 6148.9  | 6135.5  | 6052.4  | 5998.6 | 5955.9 | 5978.4 |
| 25°   | 6189.3  | 6187.1  | 6214.0  | 6272.4  | 6350.9  | 6395.8  | 6366.6  | 6274.6  | 6216.3 | 6166.9 | 6184.8 |
| 27.5° | 6433.9  | 6431.7  | 6472.1  | 6548.4  | 6660.6  | 6723.4  | 6662.8  | 6548.4  | 6467.6 | 6398.0 | 6413.7 |
| 30°   | 6741.4  | 6734.6  | 6779.5  | 6882.8  | 7028.6  | 7134.1  | 7044.3  | 6885.0  | 6779.5 | 6705.5 | 6721.2 |
| 32.5° | 7082.5  | 7091.5  | 7147.6  | 7286.7  | 7470.7  | 7607.6  | 7473.0  | 7295.7  | 7154.3 | 7046.6 | 7064.5 |
| 35°   | 7457.3  | 7457.3  | 7571.7  | 7744.5  | 8007.1  | 8188.8  | 7980.1  | 7724.3  | 7535.8 | 7387.7 | 7392.2 |
| 37.5° | 7874.7  | 7879.2  | 8029.5  | 8267.4  | 8610.7  | 8823.9  | 8541.2  | 8224.8  | 7995.8 | 7836.5 | 7827.5 |
| 40°   | 8384.1  | 8397.5  | 8552.4  | 8817.2  | 9203.2  | 9398.4  | 9095.5  | 8785.8  | 8552.4 | 8363.9 | 8345.9 |
| 42.5° | 8958.6  | 8963.1  | 9126.9  | 9364.8  | 9690.2  | 9806.9  | 9569.0  | 9315.4  | 9124.6 | 8954.1 | 8936.1 |
| 45°   | 9506.2  | 9494.9  | 9636.3  | 9813.6  | 10002.1 | 10013.3 | 9880.9  | 9777.7  | 9611.6 | 9465.8 | 9438.8 |
| 47.5° | 9932.5  | 9923.6  | 10051.5 | 10148.0 | 10170.4 | 10060.5 | 10103.1 | 10118.8 | 9925.8 | 9728.3 | 9676.7 |
| 50°   | 10192.9 | 10210.8 | 10332.0 | 10385.9 | 10253.4 | 10073.9 | 10235.5 | 10195.1 | 9919.1 | 9661.0 | 9578.0 |
| 52.5° | 10349.9 | 10376.9 | 10587.8 | 10724.7 | 10587.8 | 10417.3 | 10439.7 | 10201.8 | 9804.6 | 9463.5 | 9355.8 |
| 55°   | 9952.7  | 10060.5 | 10516.0 | 11121.9 | 11346.3 | 11227.4 | 10801.0 | 10188.4 | 9452.3 | 8956.3 | 8864.3 |
| 57.5° | 7376.5  | 7547.0  | 8222.5  | 9535.3  | 10899.8 | 11332.9 | 10087.4 | 8541.2  | 7425.8 | 6788.5 | 6734.6 |
| 60°   | 3765.7  | 3956.4  | 4497.2  | 5846.0  | 7600.9  | 8211.3  | 7026.4  | 5469.0  | 4346.9 | 3830.7 | 3772.4 |
| 62.5° | 1537.2  | 1568.6  | 1745.9  | 2266.6  | 3359.5  | 3875.6  | 3404.4  | 2390.0  | 1795.3 | 1653.9 | 1656.2 |
| 65°   | 1209.6  | 1216.3  | 1207.3  | 1238.8  | 1407.1  | 1561.9  | 1443.0  | 1267.9  | 1236.5 | 1252.2 | 1241.0 |
| 67.5° | 1054.7  | 1057.0  | 1050.3  | 1050.3  | 1057.0  | 1050.3  | 1063.7  | 1070.5  | 1074.9 | 1092.9 | 1081.7 |
| 70°   | 881.9   | 884.2   | 884.2   | 888.7   | 886.4   | 875.2   | 895.4   | 904.4   | 906.6  | 917.9  | 911.1  |
| 72.5° | 682.2   | 688.9   | 693.4   | 695.7   | 693.4   | 686.7   | 697.9   | 713.6   | 711.4  | 722.6  | 711.4  |
| 75°   | 462.3   | 471.3   | 475.8   | 484.7   | 482.5   | 482.5   | 496.0   | 502.7   | 496.0  | 504.9  | 496.0  |
| 77.5° | 262.6   | 269.3   | 282.8   | 291.7   | 300.7   | 307.4   | 316.4   | 320.9   | 318.7  | 323.2  | 318.7  |
| 80°   | 152.6   | 154.8   | 166.1   | 170.6   | 181.8   | 193.0   | 202.0   | 206.5   | 208.7  | 210.9  | 208.7  |
| 82.5° | 87.5    | 89.8    | 94.3    | 98.7    | 107.7   | 116.7   | 125.7   | 132.4   | 132.4  | 134.6  | 132.4  |
| 85°   | 42.6    | 42.6    | 44.9    | 47.1    | 51.6    | 58.3    | 65.1    | 71.8    | 74.1   | 74.1   | 74.1   |
| 87.5° | 6.7     | 6.7     | 9.0     | 9.0     | 11.2    | 13.5    | 18.0    | 22.4    | 24.7   | 24.7   | 24.7   |
| 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)