

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: P638345

Luminaire Tested: GWS-SA4E-760-U-5MQ-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-760-U-5MQ-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

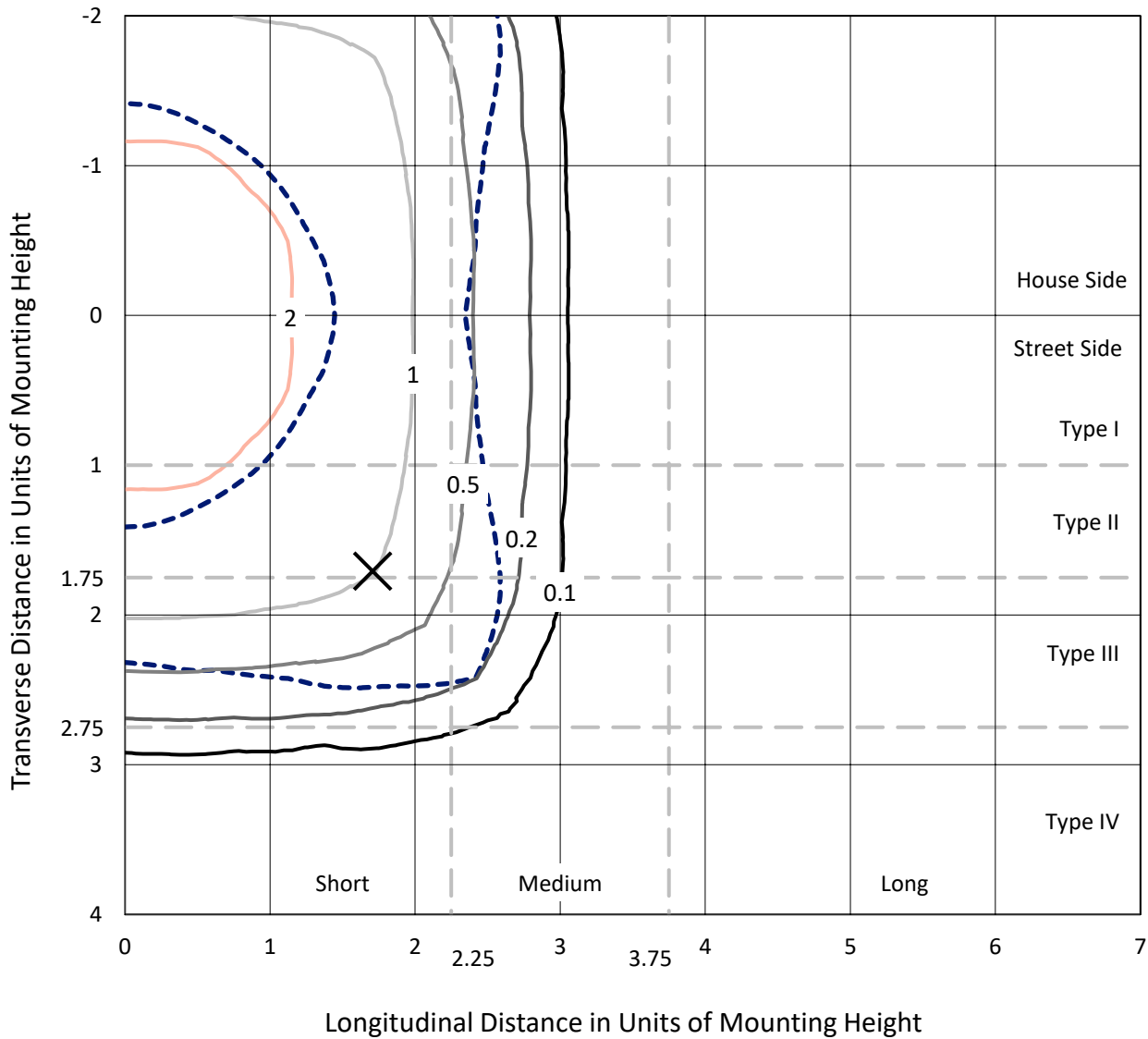
Lumens per Lamp: N/A  
Luminaire Lumens: 31973.8 lumens  
Efficiency: N/A  
Efficacy: 157.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

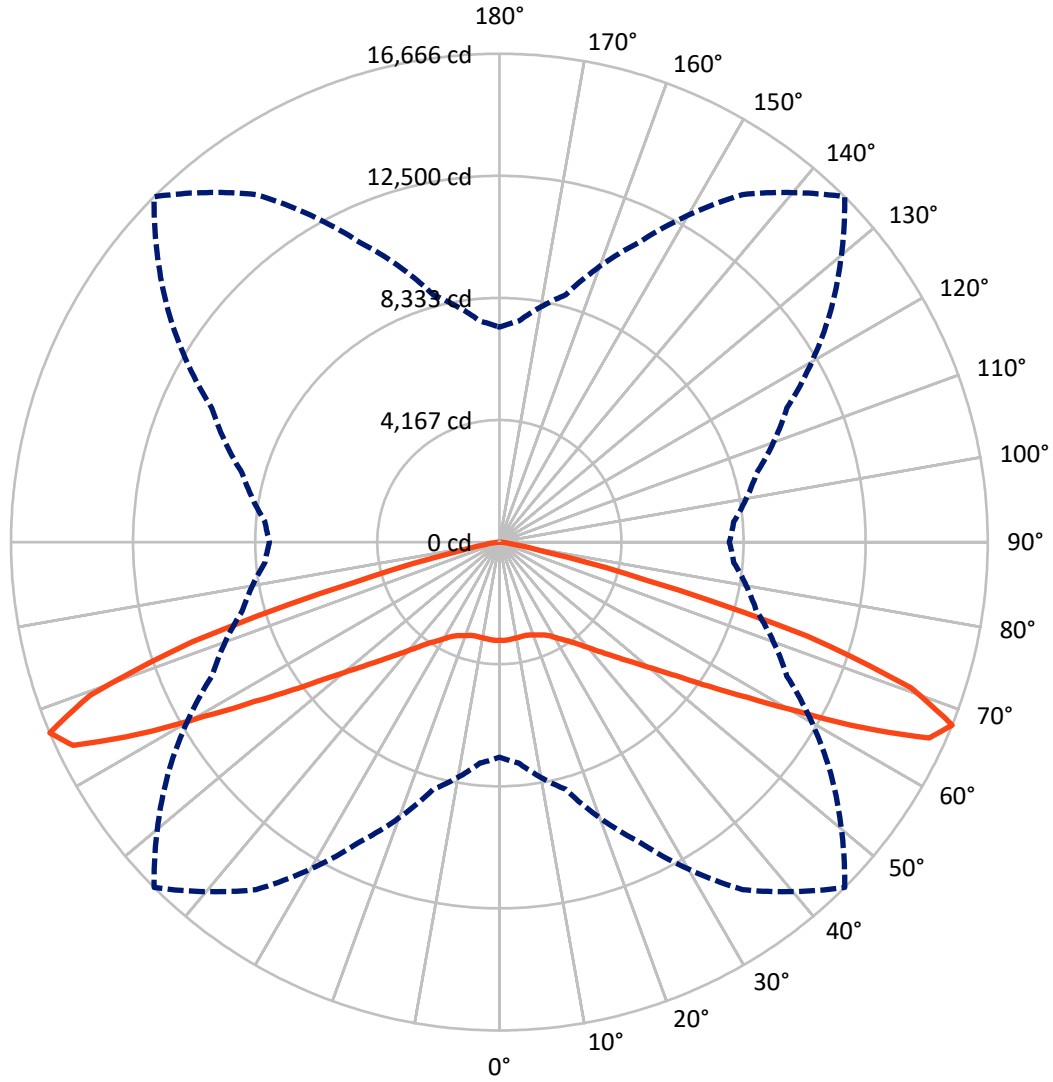
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15986.9  | 0.0    | 15986.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15986.9  | 0.0    | 15986.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 31973.8  | 0.0    | 31973.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 316.9   | 1.0       |
| 10°-20°   | 930.9   | 2.9       |
| 20°-30°   | 1605.5  | 5.0       |
| 30°-40°   | 2610.6  | 8.2       |
| 40°-50°   | 4395.8  | 13.7      |
| 50°-60°   | 7788.5  | 24.4      |
| 60°-70°   | 11133.1 | 34.8      |
| 70°-80°   | 3055.6  | 9.6       |
| 80°-90°   | 136.9   | 0.4       |
| 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°    | 31973.8 | 100.0     |
| 0°-180°   | 31973.8 | 100.0     |

**Coefficient of Utilization**



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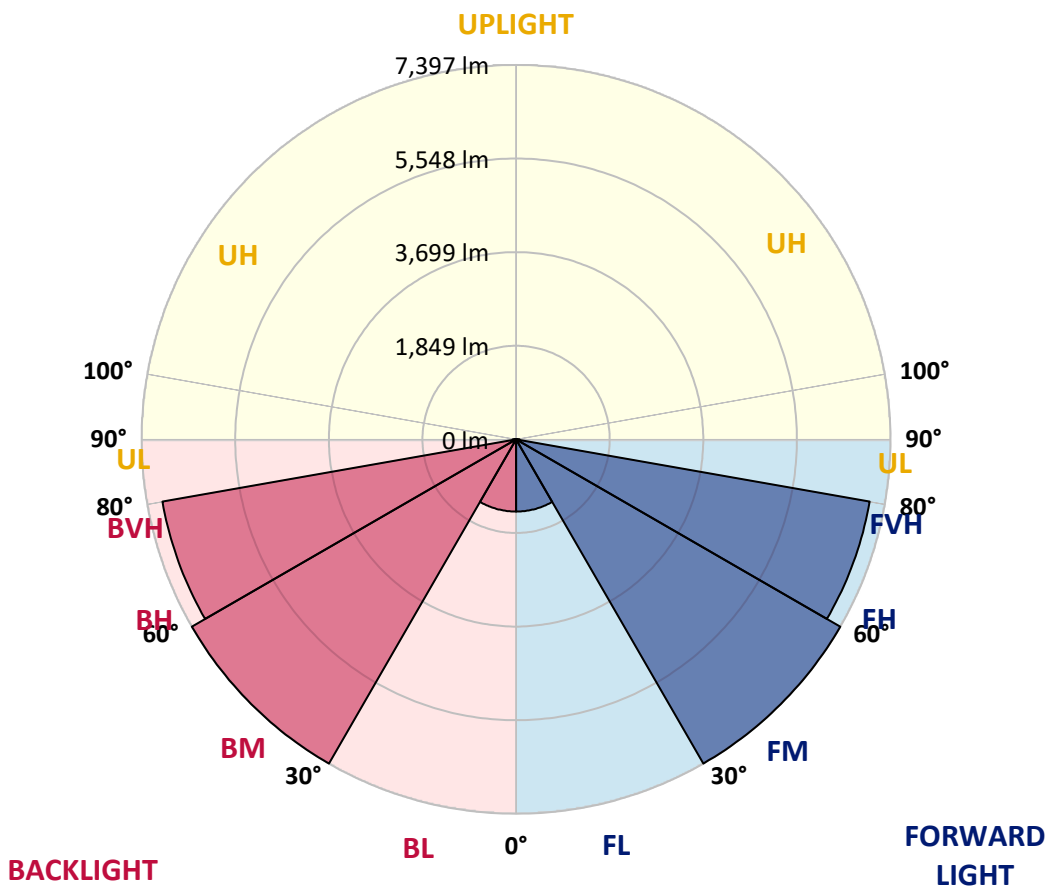
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1426.7 | 4.5       |                         |      |         |
| FM (30°-60°)   | 7397.4 | 23.1      |                         |      |         |
| FH (60°-80°)   | 7094.3 | 22.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 68.4   | 0.2       |                         |      | G1/100  |
| BL (0°-30°)    | 1426.7 | 4.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 7397.4 | 23.1      | B4/8500                 |      |         |
| BH (60°-80°)   | 7094.3 | 22.2      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 68.4   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3348.7  | 3348.7  | 3348.7  | 3348.7  | 3348.7  | 3348.7  | 3348.7  | 3348.7  | 3348.7  | 3348.7  | 3348.7  |
| 2.5°  | 3326.6  | 3324.3  | 3335.4  | 3342.1  | 3339.8  | 3355.3  | 3353.1  | 3348.7  | 3348.7  | 3342.1  | 3359.8  |
| 5°    | 3326.6  | 3324.3  | 3333.2  | 3335.4  | 3331.0  | 3344.3  | 3339.8  | 3335.4  | 3335.4  | 3326.6  | 3342.1  |
| 7.5°  | 3308.9  | 3311.1  | 3317.7  | 3322.1  | 3317.7  | 3328.8  | 3322.1  | 3313.3  | 3311.1  | 3302.2  | 3317.7  |
| 10°   | 3275.7  | 3277.9  | 3284.5  | 3295.6  | 3297.8  | 3317.7  | 3306.6  | 3291.1  | 3284.5  | 3275.7  | 3291.1  |
| 12.5° | 3255.7  | 3257.9  | 3264.6  | 3277.9  | 3282.3  | 3308.9  | 3297.8  | 3273.4  | 3262.4  | 3253.5  | 3269.0  |
| 15°   | 3251.3  | 3253.5  | 3262.4  | 3275.7  | 3282.3  | 3308.9  | 3297.8  | 3269.0  | 3253.5  | 3242.5  | 3255.7  |
| 17.5° | 3251.3  | 3255.7  | 3269.0  | 3288.9  | 3302.2  | 3328.8  | 3315.5  | 3282.3  | 3260.2  | 3240.2  | 3253.5  |
| 20°   | 3253.5  | 3260.2  | 3280.1  | 3308.9  | 3342.1  | 3379.7  | 3362.0  | 3317.7  | 3286.7  | 3262.4  | 3271.2  |
| 22.5° | 3273.4  | 3284.5  | 3308.9  | 3346.5  | 3395.2  | 3439.4  | 3423.9  | 3364.2  | 3319.9  | 3286.7  | 3295.6  |
| 25°   | 3342.1  | 3346.5  | 3377.5  | 3426.2  | 3472.6  | 3510.3  | 3494.8  | 3439.4  | 3384.1  | 3344.3  | 3355.3  |
| 27.5° | 3463.8  | 3474.8  | 3501.4  | 3552.3  | 3592.2  | 3612.1  | 3609.9  | 3572.2  | 3516.9  | 3481.5  | 3490.3  |
| 30°   | 3609.9  | 3620.9  | 3656.3  | 3713.9  | 3753.7  | 3775.9  | 3769.2  | 3740.4  | 3689.5  | 3640.8  | 3649.7  |
| 32.5° | 3780.3  | 3784.7  | 3826.8  | 3890.9  | 3933.0  | 3966.2  | 3944.1  | 3913.1  | 3848.9  | 3791.3  | 3795.8  |
| 35°   | 3997.2  | 4003.8  | 4048.1  | 4107.8  | 4141.0  | 4167.6  | 4163.2  | 4132.2  | 4063.6  | 4001.6  | 4017.1  |
| 37.5° | 4269.4  | 4273.8  | 4313.7  | 4388.9  | 4415.5  | 4435.4  | 4439.8  | 4424.3  | 4353.5  | 4273.8  | 4289.3  |
| 40°   | 4608.0  | 4610.3  | 4654.5  | 4720.9  | 4749.7  | 4763.0  | 4765.2  | 4767.4  | 4694.4  | 4634.6  | 4630.2  |
| 42.5° | 5002.0  | 5013.1  | 5075.1  | 5139.2  | 5152.5  | 5145.9  | 5168.0  | 5190.1  | 5119.3  | 5037.4  | 5044.1  |
| 45°   | 5473.4  | 5480.1  | 5564.2  | 5635.0  | 5610.7  | 5588.5  | 5630.6  | 5674.8  | 5610.7  | 5504.4  | 5473.4  |
| 47.5° | 6031.2  | 6044.5  | 6135.2  | 6206.0  | 6166.2  | 6126.4  | 6195.0  | 6241.4  | 6137.4  | 6024.5  | 5995.8  |
| 50°   | 6662.0  | 6670.8  | 6799.2  | 6887.7  | 6841.2  | 6768.2  | 6854.5  | 6903.2  | 6763.8  | 6624.3  | 6562.4  |
| 52.5° | 7407.8  | 7390.1  | 7560.6  | 7715.5  | 7686.7  | 7591.5  | 7662.4  | 7671.2  | 7463.2  | 7266.2  | 7204.2  |
| 55°   | 8317.5  | 8299.8  | 8470.2  | 8640.6  | 8711.5  | 8687.1  | 8653.9  | 8600.8  | 8293.2  | 8082.9  | 8025.4  |
| 57.5° | 9377.7  | 9322.3  | 9561.4  | 9791.5  | 9946.5  | 9990.7  | 9849.1  | 9725.2  | 9481.7  | 9222.7  | 9156.3  |
| 60°   | 10362.6 | 10360.4 | 10738.8 | 11137.2 | 11562.2 | 11739.2 | 11380.7 | 11044.3 | 10497.6 | 10026.2 | 9931.0  |
| 62.5° | 10639.2 | 10685.7 | 11305.4 | 12292.6 | 13341.7 | 13968.0 | 13022.9 | 11909.7 | 10853.9 | 10143.5 | 10017.3 |
| 65°   | 9957.5  | 10072.6 | 10953.5 | 12511.7 | 14583.3 | 16114.9 | 13981.3 | 11929.6 | 10457.7 | 9572.4  | 9439.6  |
| 67.5° | 7339.2  | 7569.4  | 8735.8  | 11289.9 | 14477.1 | 16666.0 | 13810.9 | 10825.2 | 9083.3  | 8029.8  | 7846.1  |
| 70°   | 3620.9  | 3840.0  | 4765.2  | 7427.8  | 11911.9 | 14897.6 | 11949.5 | 8158.1  | 6135.2  | 5121.5  | 4953.3  |
| 72.5° | 1332.4  | 1420.9  | 1783.9  | 3178.3  | 6573.4  | 11004.4 | 8171.4  | 4557.1  | 2972.4  | 2366.0  | 2253.1  |
| 75°   | 652.9   | 668.4   | 723.7   | 1066.8  | 2425.8  | 5179.1  | 3840.0  | 1748.5  | 1093.4  | 951.7   | 920.7   |
| 77.5° | 416.1   | 422.7   | 449.3   | 509.1   | 779.1   | 1631.2  | 1164.2  | 690.5   | 535.6   | 513.5   | 513.5   |
| 80°   | 232.4   | 239.0   | 274.4   | 316.5   | 365.2   | 560.0   | 418.3   | 413.9   | 351.9   | 307.6   | 301.0   |
| 82.5° | 110.7   | 121.7   | 174.8   | 172.6   | 192.6   | 281.1   | 245.7   | 223.5   | 225.8   | 170.4   | 161.6   |
| 85°   | 50.9    | 50.9    | 68.6    | 81.9    | 86.3    | 95.2    | 112.9   | 128.4   | 126.2   | 86.3    | 93.0    |
| 87.5° | 24.3    | 24.3    | 24.3    | 22.1    | 19.9    | 17.7    | 24.3    | 39.8    | 57.5    | 39.8    | 37.6    |
| 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)