

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: P638236

Luminaire Tested: GWS-SA4E-740-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-740-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21534.5 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G0

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

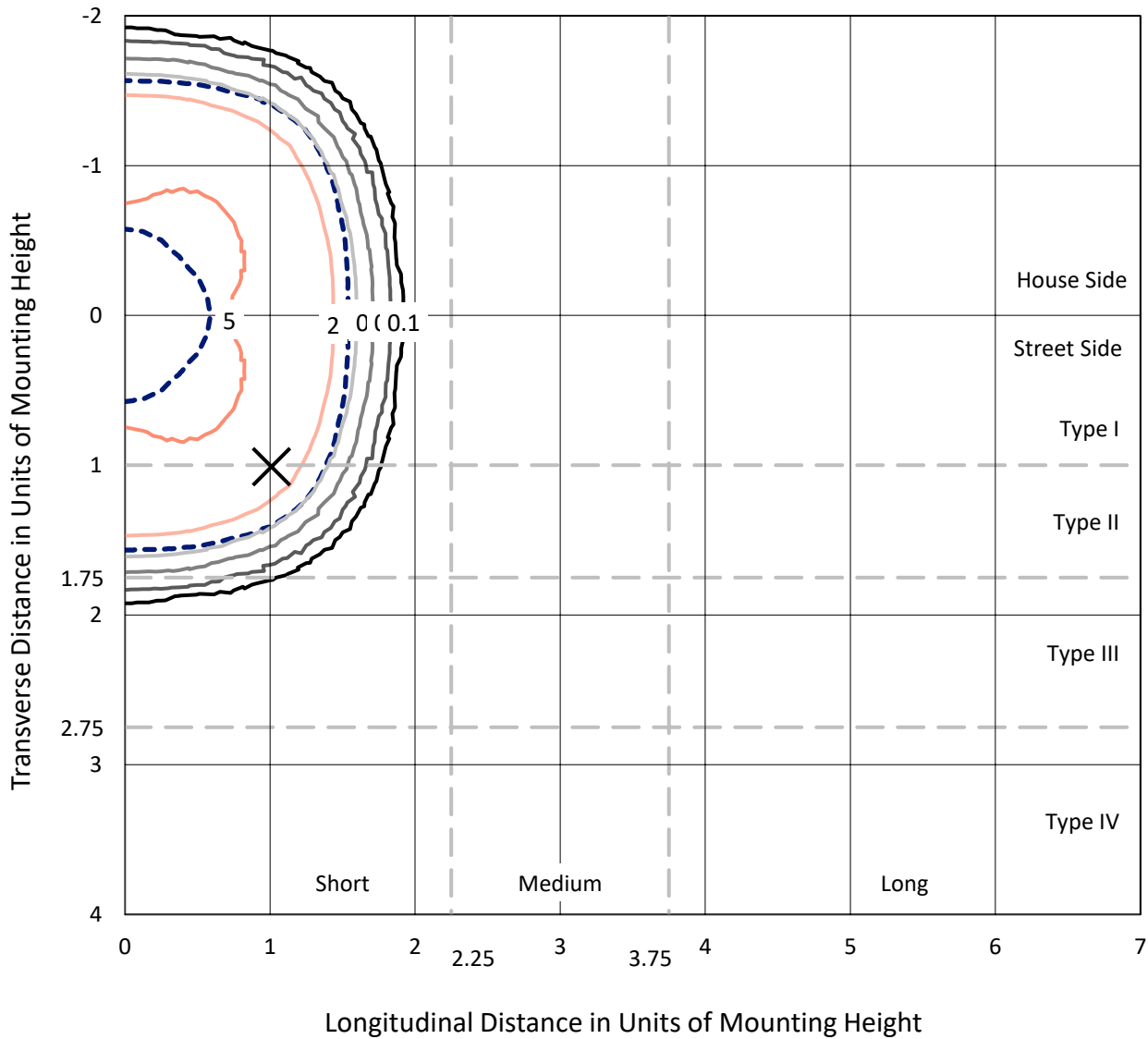


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Iso-Footcandle Lines of Horizontal Illumination

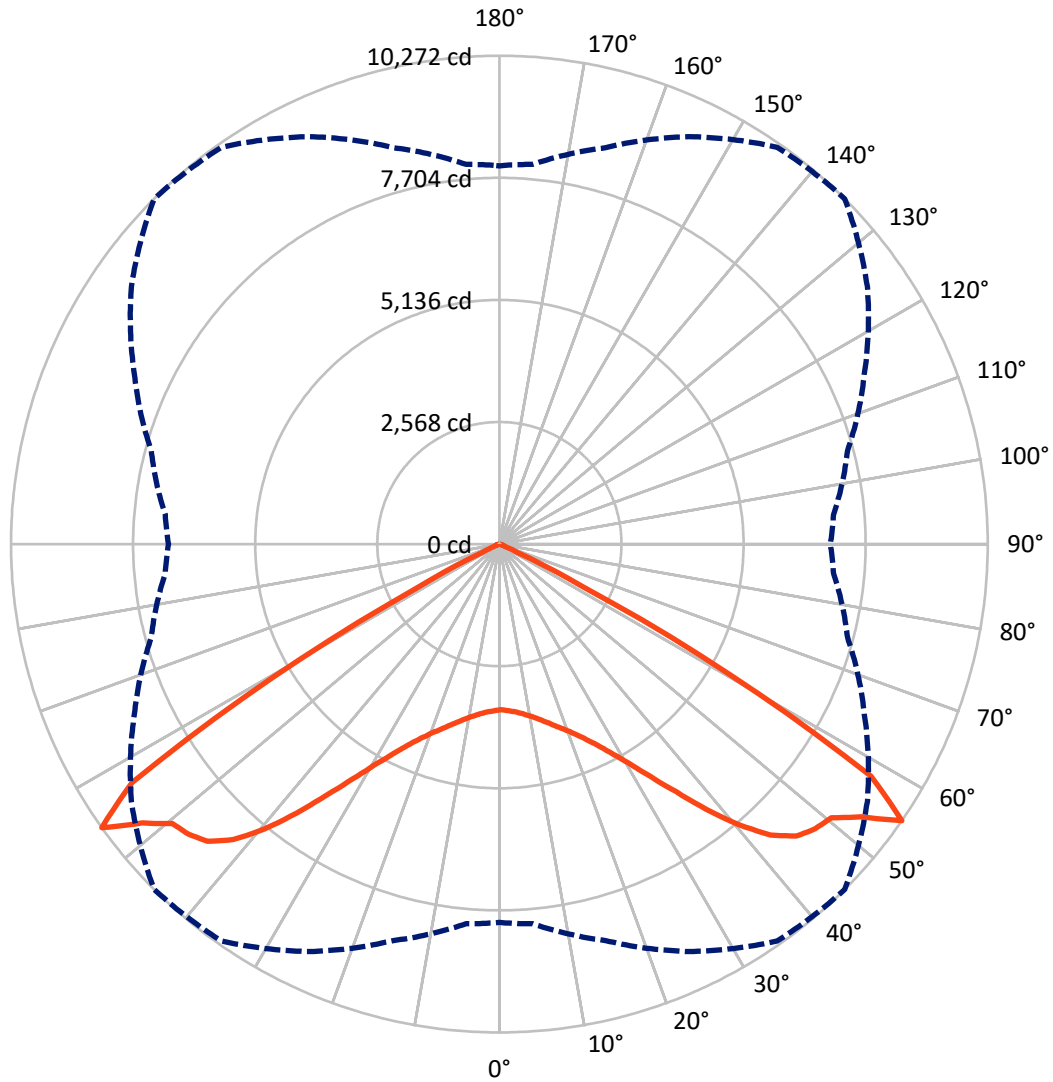
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10767.3 | 0.0 | 10767.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10767.3 | 0.0 | 10767.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 21534.5 | 0.0 | 21534.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 341.1 | 1.6 |
| 10°-20° | 1105.8 | 5.1 |
| 20°-30° | 2141.5 | 9.9 |
| 30°-40° | 3836.6 | 17.8 |
| 40°-50° | 6432.4 | 29.9 |
| 50°-60° | 6885.6 | 32.0 |
| 60°-70° | 756.6 | 3.5 |
| 70°-80° | 33.3 | 0.2 |
| 80°-90° | 1.6 | 0.0 |
| 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° | 21534.5 | 100.0 |
| 0°-180° | 21534.5 | 100.0 |

Coefficient of Utilization



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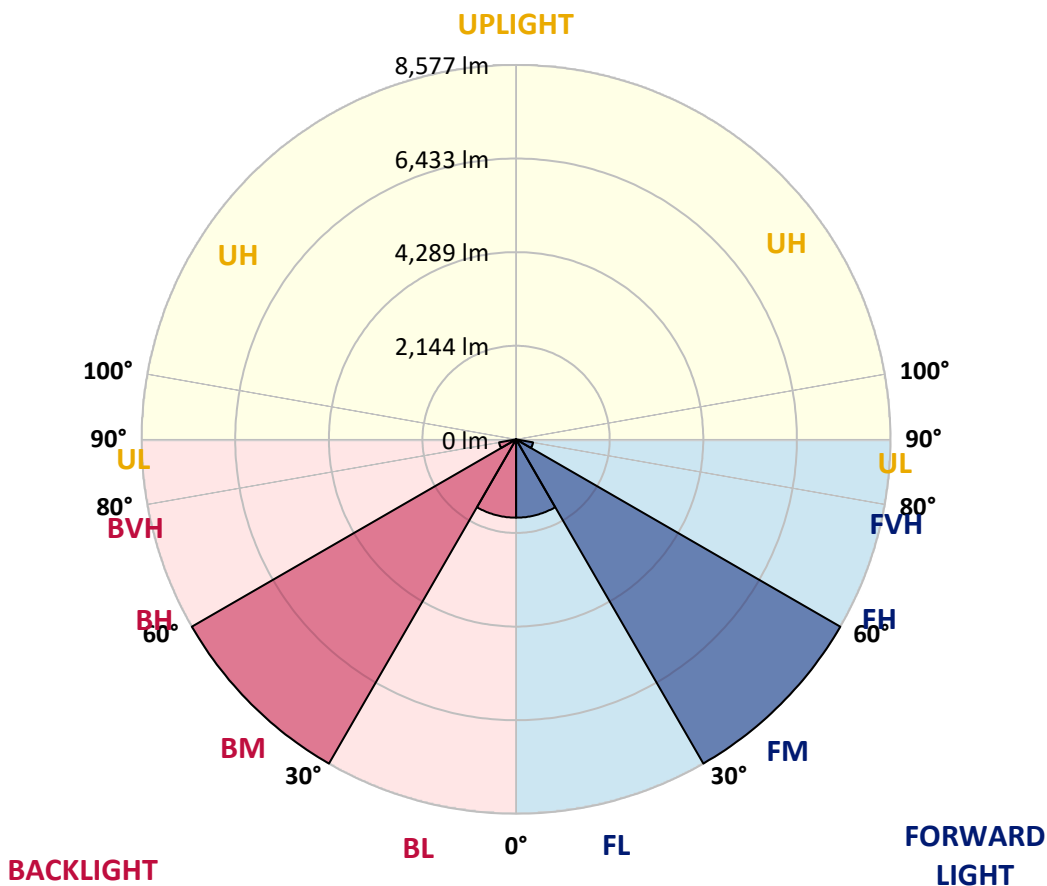
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1794.2 | 8.3 | | | |
| FM (30°-60°) | 8577.3 | 39.8 | | | |
| FH (60°-80°) | 395.0 | 1.8 | | | G0/660 |
| FVH (80°-90°) | 0.8 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1794.2 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 8577.3 | 39.8 | B5 | | |
| BH (60°-80°) | 395.0 | 1.8 | B1/500 | | G0/660 |
| BVH (80°-90°) | 0.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 3481.7 | 3481.7 | 3481.7 | 3481.7 | 3481.7 | 3481.7 | 3481.7 | 3481.7 | 3481.7 | 3481.7 | 3481.7 |
| 2.5° | 3475.1 | 3475.1 | 3483.9 | 3490.5 | 3490.5 | 3508.0 | 3501.5 | 3494.9 | 3494.9 | 3486.1 | 3503.7 |
| 5° | 3525.6 | 3523.4 | 3532.2 | 3536.6 | 3527.8 | 3545.3 | 3534.4 | 3527.8 | 3523.4 | 3514.6 | 3532.2 |
| 7.5° | 3580.4 | 3582.6 | 3584.8 | 3593.6 | 3589.2 | 3606.8 | 3598.0 | 3584.8 | 3580.4 | 3567.3 | 3584.8 |
| 10° | 3646.3 | 3646.3 | 3650.6 | 3661.6 | 3663.8 | 3685.7 | 3677.0 | 3661.6 | 3648.4 | 3635.3 | 3652.8 |
| 12.5° | 3729.6 | 3731.8 | 3738.4 | 3753.8 | 3762.5 | 3786.7 | 3773.5 | 3742.8 | 3723.0 | 3707.7 | 3727.4 |
| 15° | 3850.3 | 3848.1 | 3856.9 | 3878.8 | 3889.8 | 3907.3 | 3887.6 | 3845.9 | 3821.8 | 3804.2 | 3817.4 |
| 17.5° | 3981.9 | 3981.9 | 3986.3 | 4008.2 | 4023.6 | 4049.9 | 4025.8 | 3975.3 | 3953.4 | 3929.3 | 3942.4 |
| 20° | 4126.7 | 4133.3 | 4137.7 | 4153.0 | 4179.4 | 4205.7 | 4186.0 | 4135.5 | 4111.4 | 4080.6 | 4096.0 |
| 22.5° | 4317.6 | 4311.0 | 4313.2 | 4339.5 | 4376.8 | 4403.2 | 4387.8 | 4328.6 | 4286.9 | 4262.7 | 4271.5 |
| 25° | 4530.4 | 4528.2 | 4534.8 | 4574.3 | 4616.0 | 4644.5 | 4622.5 | 4545.8 | 4504.1 | 4462.4 | 4479.9 |
| 27.5° | 4791.5 | 4793.7 | 4798.1 | 4846.3 | 4912.1 | 4953.8 | 4899.0 | 4822.2 | 4765.1 | 4710.3 | 4723.5 |
| 30° | 5100.8 | 5096.4 | 5109.6 | 5175.4 | 5271.9 | 5337.7 | 5274.1 | 5166.6 | 5085.5 | 5032.8 | 5039.4 |
| 32.5° | 5429.9 | 5434.3 | 5469.4 | 5574.7 | 5701.9 | 5818.2 | 5688.8 | 5546.2 | 5440.9 | 5342.1 | 5355.3 |
| 35° | 5785.3 | 5796.3 | 5875.3 | 6031.0 | 6239.4 | 6395.2 | 6215.3 | 5980.6 | 5831.4 | 5704.1 | 5708.5 |
| 37.5° | 6204.3 | 6230.7 | 6340.4 | 6572.9 | 6871.3 | 7079.7 | 6816.4 | 6504.9 | 6311.8 | 6153.9 | 6142.9 |
| 40° | 6755.0 | 6785.7 | 6934.9 | 7211.3 | 7573.3 | 7764.2 | 7459.2 | 7138.9 | 6899.8 | 6728.7 | 6702.4 |
| 42.5° | 7386.8 | 7426.3 | 7588.7 | 7871.7 | 8233.7 | 8363.1 | 8064.8 | 7794.9 | 7579.9 | 7378.1 | 7369.3 |
| 45° | 8099.9 | 8121.8 | 8253.4 | 8470.6 | 8731.7 | 8762.4 | 8538.6 | 8389.5 | 8172.3 | 7983.6 | 7968.2 |
| 47.5° | 8769.0 | 8790.9 | 8880.9 | 8992.8 | 9054.2 | 8944.5 | 8905.0 | 8839.2 | 8558.4 | 8325.8 | 8277.6 |
| 50° | 9278.0 | 9295.5 | 9407.4 | 9451.3 | 9280.2 | 9047.6 | 9124.4 | 8984.0 | 8679.1 | 8418.0 | 8343.4 |
| 52.5° | 9242.9 | 9286.8 | 9574.2 | 9824.3 | 9716.8 | 9528.1 | 9321.9 | 9019.1 | 8545.2 | 8187.6 | 8095.5 |
| 55° | 7957.3 | 8016.5 | 8633.0 | 9455.7 | 10190.6 | 10271.8 | 9446.9 | 8470.6 | 7579.9 | 7055.6 | 6961.2 |
| 57.5° | 5114.0 | 5129.3 | 5881.8 | 7035.8 | 8692.2 | 9214.4 | 7834.4 | 6386.4 | 5278.5 | 4701.5 | 4662.0 |
| 60° | 1880.2 | 1849.5 | 2417.7 | 3374.2 | 5006.5 | 5559.3 | 4611.6 | 3229.4 | 2303.6 | 1895.5 | 1862.6 |
| 62.5° | 451.9 | 456.3 | 566.0 | 849.0 | 1570.8 | 1943.8 | 1535.7 | 857.8 | 546.3 | 458.5 | 454.1 |
| 65° | 228.2 | 223.8 | 226.0 | 243.5 | 335.7 | 401.5 | 329.1 | 232.6 | 223.8 | 226.0 | 223.8 |
| 67.5° | 147.0 | 144.8 | 149.2 | 151.4 | 149.2 | 140.4 | 138.2 | 142.6 | 142.6 | 144.8 | 140.4 |
| 70° | 89.9 | 87.8 | 92.1 | 98.7 | 94.3 | 83.4 | 87.8 | 92.1 | 87.8 | 85.6 | 85.6 |
| 72.5° | 48.3 | 48.3 | 52.7 | 57.0 | 52.7 | 48.3 | 48.3 | 50.5 | 48.3 | 48.3 | 48.3 |
| 75° | 21.9 | 21.9 | 24.1 | 26.3 | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 | 21.9 |
| 77.5° | 6.6 | 6.6 | 8.8 | 8.8 | 6.6 | 6.6 | 6.6 | 6.6 | 8.8 | 8.8 | 8.8 |
| 80° | 2.2 | 4.4 | 4.4 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 4.4 | 4.4 | 4.4 |
| 82.5° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 85° | 2.2 | 2.2 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.2 | 2.2 | 2.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.2 | 2.2 | 2.2 | 2.2 |
| 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)