

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: P639666

Luminaire Tested: GWS-SA5C-735-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639666
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-SA5C-735-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16526.7 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

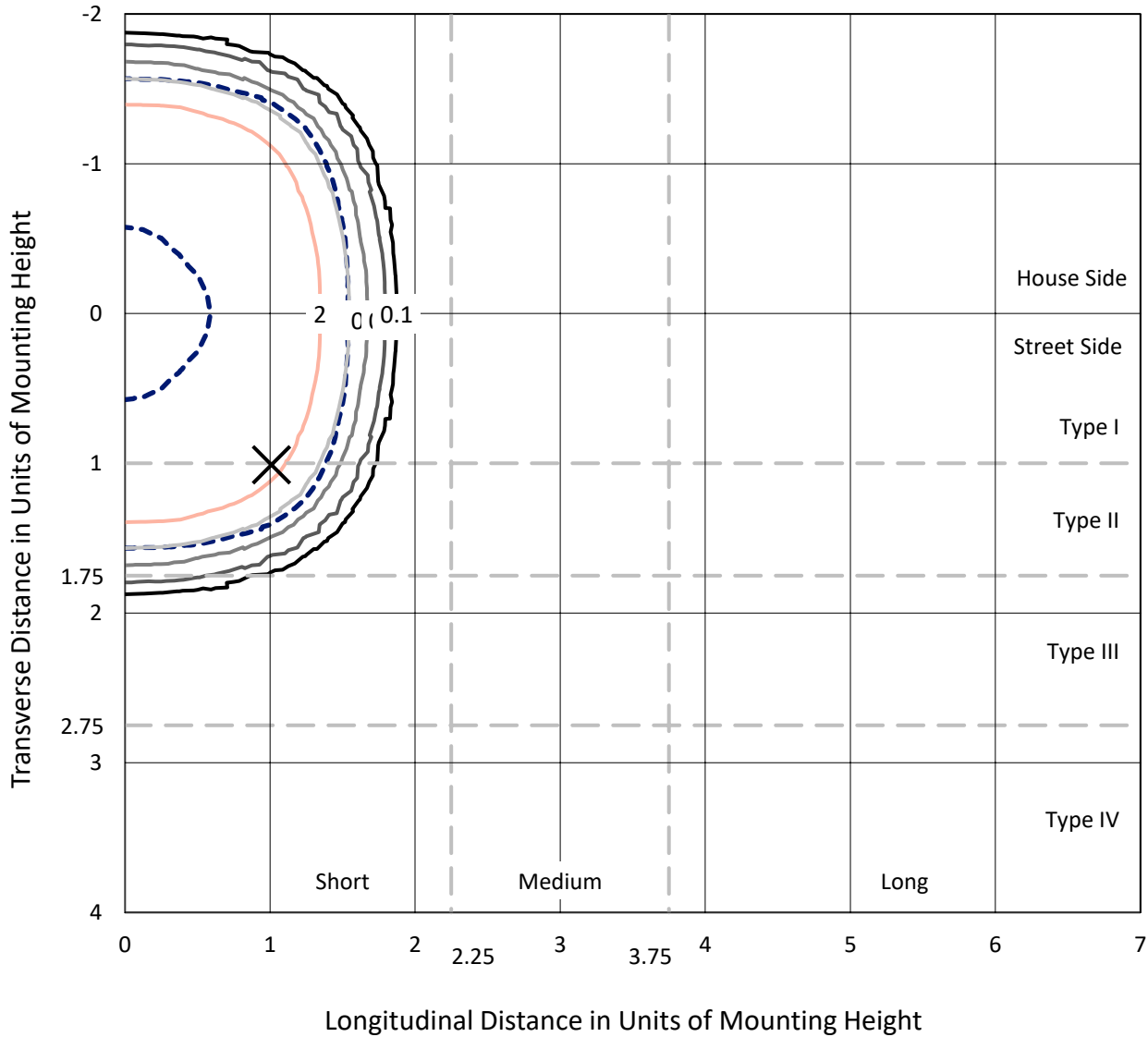
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

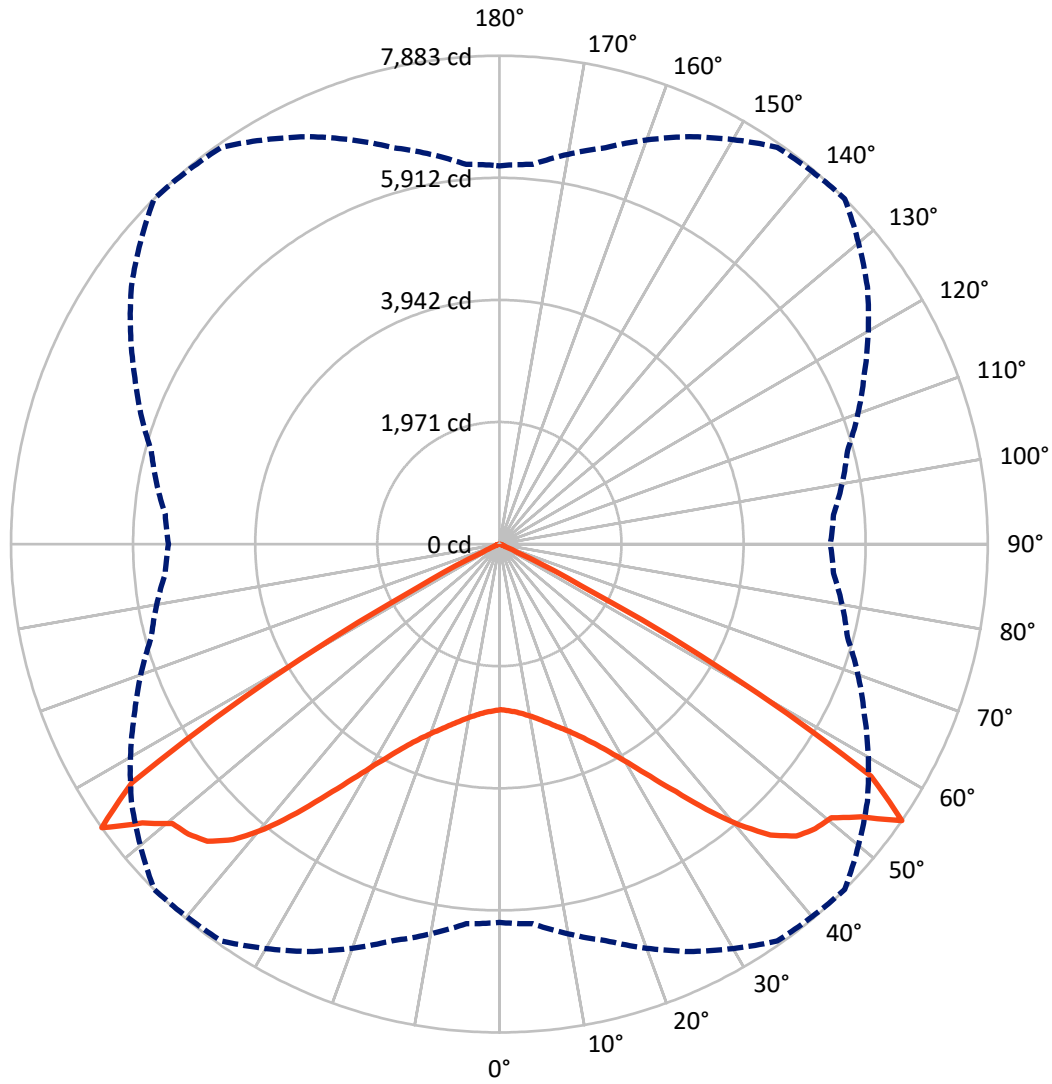
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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 | 8263.3 | 0.0 | 8263.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8263.3 | 0.0 | 8263.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16526.7 | 0.0 | 16526.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 261.8 | 1.6 |
| 10°-20° | 848.6 | 5.1 |
| 20°-30° | 1643.5 | 9.9 |
| 30°-40° | 2944.4 | 17.8 |
| 40°-50° | 4936.5 | 29.9 |
| 50°-60° | 5284.3 | 32.0 |
| 60°-70° | 580.7 | 3.5 |
| 70°-80° | 25.6 | 0.2 |
| 80°-90° | 1.2 | 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° | 16526.7 | 100.0 |
| 0°-180° | 16526.7 | 100.0 |

Coefficient of Utilization



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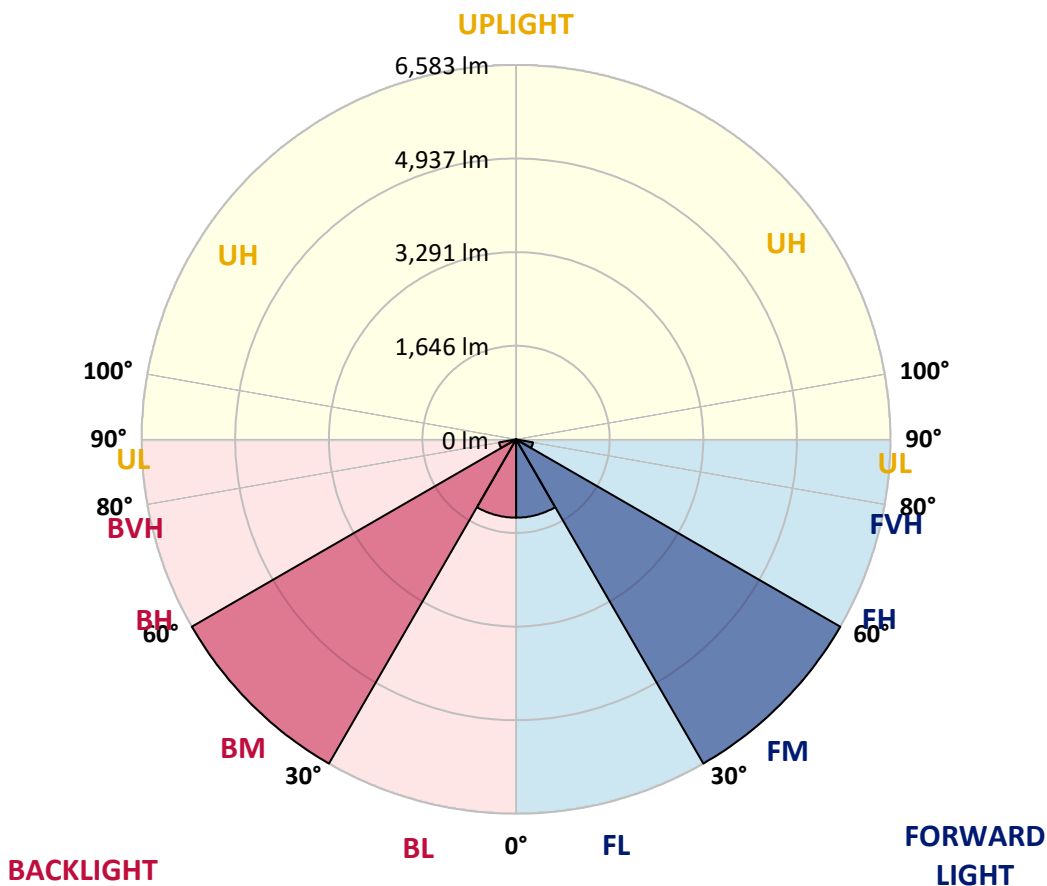
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1377.0 | 8.3 | | | |
| FM (30°-60°) | 6582.7 | 39.8 | | | |
| FH (60°-80°) | 303.1 | 1.8 | | | G0/660 |
| FVH (80°-90°) | 0.6 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1377.0 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 6582.7 | 39.8 | B4/8500 | | |
| BH (60°-80°) | 303.1 | 1.8 | B1/500 | | G0/660 |
| BVH (80°-90°) | 0.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2672.0 | 2672.0 | 2672.0 | 2672.0 | 2672.0 | 2672.0 | 2672.0 | 2672.0 | 2672.0 | 2672.0 | 2672.0 |
| 2.5° | 2667.0 | 2667.0 | 2673.7 | 2678.8 | 2678.8 | 2692.3 | 2687.2 | 2682.2 | 2682.2 | 2675.4 | 2688.9 |
| 5° | 2705.7 | 2704.0 | 2710.8 | 2714.1 | 2707.4 | 2720.9 | 2712.5 | 2707.4 | 2704.0 | 2697.3 | 2710.8 |
| 7.5° | 2747.8 | 2749.5 | 2751.2 | 2757.9 | 2754.6 | 2768.0 | 2761.3 | 2751.2 | 2747.8 | 2737.7 | 2751.2 |
| 10° | 2798.3 | 2798.3 | 2801.7 | 2810.1 | 2811.8 | 2828.6 | 2821.9 | 2810.1 | 2800.0 | 2789.9 | 2803.4 |
| 12.5° | 2862.3 | 2864.0 | 2869.0 | 2880.8 | 2887.6 | 2906.1 | 2896.0 | 2872.4 | 2857.3 | 2845.5 | 2860.6 |
| 15° | 2954.9 | 2953.2 | 2960.0 | 2976.8 | 2985.2 | 2998.7 | 2983.5 | 2951.5 | 2933.0 | 2919.6 | 2929.7 |
| 17.5° | 3055.9 | 3055.9 | 3059.3 | 3076.1 | 3087.9 | 3108.1 | 3089.6 | 3050.9 | 3034.0 | 3015.5 | 3025.6 |
| 20° | 3167.1 | 3172.1 | 3175.5 | 3187.3 | 3207.5 | 3227.7 | 3212.5 | 3173.8 | 3155.3 | 3131.7 | 3143.5 |
| 22.5° | 3313.5 | 3308.5 | 3310.2 | 3330.4 | 3359.0 | 3379.2 | 3367.4 | 3322.0 | 3290.0 | 3271.4 | 3278.2 |
| 25° | 3476.9 | 3475.2 | 3480.2 | 3510.5 | 3542.5 | 3564.4 | 3547.6 | 3488.6 | 3456.7 | 3424.7 | 3438.1 |
| 27.5° | 3677.2 | 3678.9 | 3682.3 | 3719.3 | 3769.8 | 3801.8 | 3759.7 | 3700.8 | 3657.0 | 3614.9 | 3625.0 |
| 30° | 3914.6 | 3911.3 | 3921.4 | 3971.9 | 4046.0 | 4096.5 | 4047.6 | 3965.1 | 3902.8 | 3862.4 | 3867.5 |
| 32.5° | 4167.2 | 4170.6 | 4197.5 | 4278.3 | 4376.0 | 4465.2 | 4365.9 | 4256.4 | 4175.6 | 4099.8 | 4109.9 |
| 35° | 4439.9 | 4448.4 | 4509.0 | 4628.5 | 4788.5 | 4908.0 | 4770.0 | 4589.8 | 4475.3 | 4377.6 | 4381.0 |
| 37.5° | 4761.5 | 4781.7 | 4865.9 | 5044.4 | 5273.4 | 5433.3 | 5231.3 | 4992.2 | 4844.0 | 4722.8 | 4714.4 |
| 40° | 5184.1 | 5207.7 | 5322.2 | 5534.4 | 5812.2 | 5958.7 | 5724.6 | 5478.8 | 5295.3 | 5163.9 | 5143.7 |
| 42.5° | 5669.1 | 5699.4 | 5824.0 | 6041.2 | 6319.0 | 6418.3 | 6189.3 | 5982.2 | 5817.2 | 5662.3 | 5655.6 |
| 45° | 6216.3 | 6233.1 | 6334.1 | 6500.8 | 6701.2 | 6724.7 | 6553.0 | 6438.5 | 6271.8 | 6127.0 | 6115.2 |
| 47.5° | 6729.8 | 6746.6 | 6815.7 | 6901.5 | 6948.7 | 6864.5 | 6834.2 | 6783.7 | 6568.2 | 6389.7 | 6352.6 |
| 50° | 7120.4 | 7133.9 | 7219.8 | 7253.4 | 7122.1 | 6943.6 | 7002.6 | 6894.8 | 6660.8 | 6460.4 | 6403.2 |
| 52.5° | 7093.5 | 7127.1 | 7347.7 | 7539.7 | 7457.2 | 7312.4 | 7154.1 | 6921.7 | 6558.1 | 6283.6 | 6212.9 |
| 55° | 6106.8 | 6152.3 | 6625.4 | 7256.8 | 7820.8 | 7883.1 | 7250.1 | 6500.8 | 5817.2 | 5414.8 | 5342.4 |
| 57.5° | 3924.7 | 3936.5 | 4514.0 | 5399.7 | 6670.9 | 7071.6 | 6012.5 | 4901.3 | 4051.0 | 3608.2 | 3577.9 |
| 60° | 1442.9 | 1419.4 | 1855.4 | 2589.5 | 3842.2 | 4266.5 | 3539.2 | 2478.4 | 1767.9 | 1454.7 | 1429.5 |
| 62.5° | 346.8 | 350.2 | 434.4 | 651.6 | 1205.5 | 1491.8 | 1178.6 | 658.3 | 419.2 | 351.9 | 348.5 |
| 65° | 175.1 | 171.7 | 173.4 | 186.9 | 257.6 | 308.1 | 252.6 | 178.5 | 171.7 | 173.4 | 171.7 |
| 67.5° | 112.8 | 111.1 | 114.5 | 116.2 | 114.5 | 107.8 | 106.1 | 109.4 | 109.4 | 111.1 | 107.8 |
| 70° | 69.0 | 67.3 | 70.7 | 75.8 | 72.4 | 64.0 | 67.3 | 70.7 | 67.3 | 65.7 | 65.7 |
| 72.5° | 37.0 | 37.0 | 40.4 | 43.8 | 40.4 | 37.0 | 37.0 | 38.7 | 37.0 | 37.0 | 37.0 |
| 75° | 16.8 | 16.8 | 18.5 | 20.2 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 | 16.8 |
| 77.5° | 5.1 | 5.1 | 6.7 | 6.7 | 5.1 | 5.1 | 5.1 | 5.1 | 6.7 | 6.7 | 6.7 |
| 80° | 1.7 | 3.4 | 3.4 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 3.4 | 3.4 | 3.4 |
| 82.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 85° | 1.7 | 1.7 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 | 1.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 1.7 | 1.7 |
| 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)