

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: P640659

Luminaire Tested: GWS-SA5E-735-U-5WQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-735-U-5WQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE 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: 19485.2 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

Input Watts (W): 269.6
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

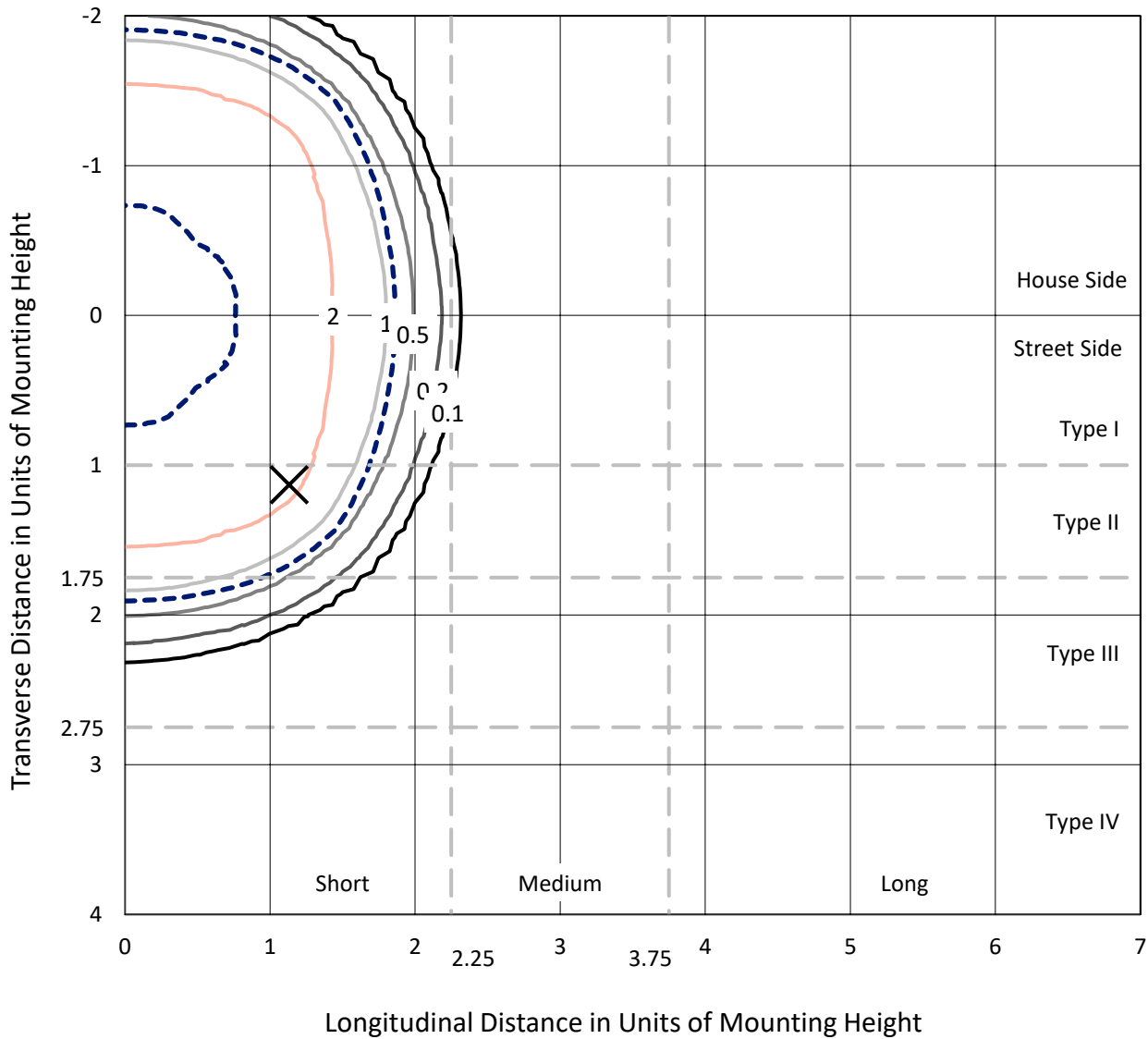


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Iso-Footcandle Lines of Horizontal Illumination

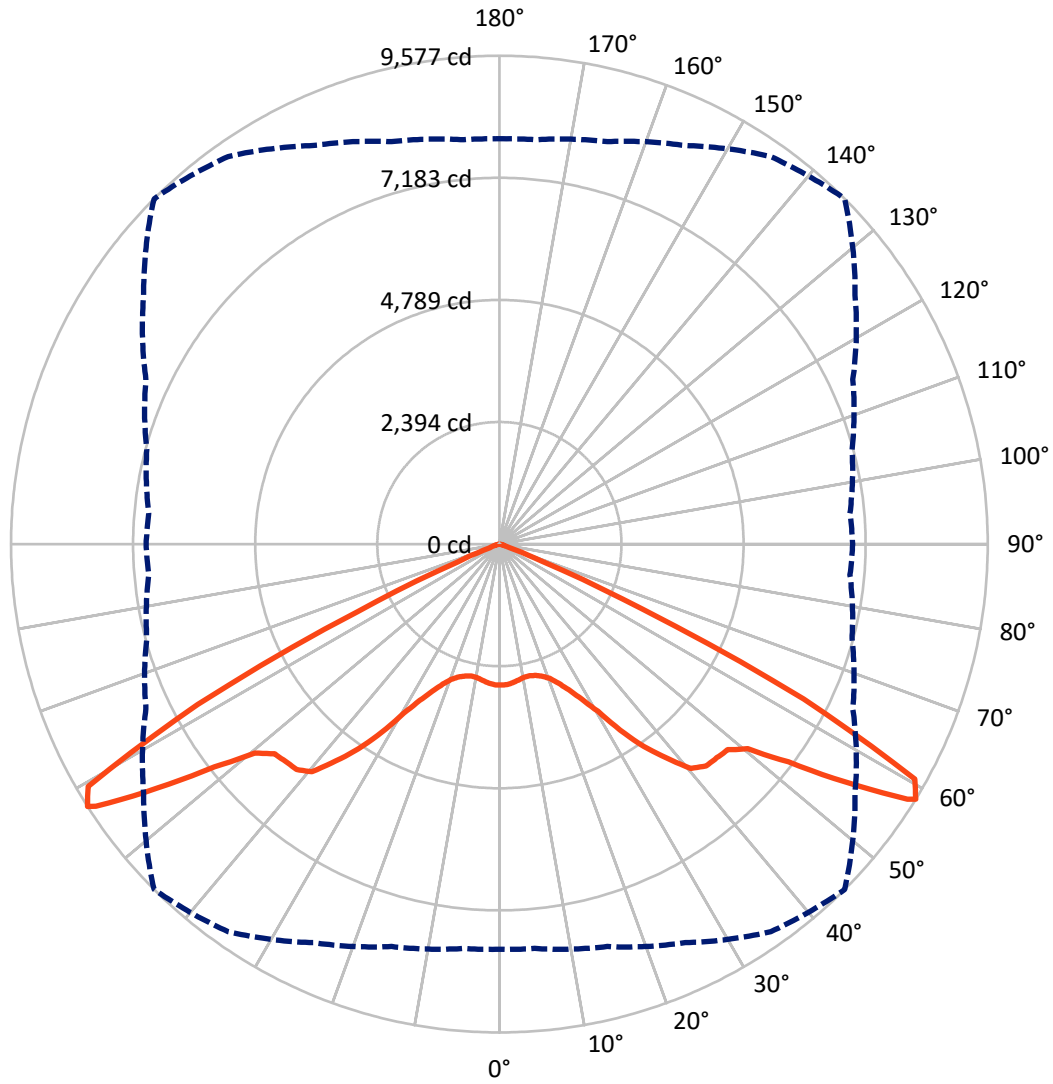
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9742.6 | 0.0 | 9742.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9742.6 | 0.0 | 9742.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19485.2 | 0.0 | 19485.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 257.8 | 1.3 |
| 10°-20° | 762.9 | 3.9 |
| 20°-30° | 1442.8 | 7.4 |
| 30°-40° | 2845.5 | 14.6 |
| 40°-50° | 4502.9 | 23.1 |
| 50°-60° | 6619.1 | 34.0 |
| 60°-70° | 2954.5 | 15.2 |
| 70°-80° | 99.0 | 0.5 |
| 80°-90° | 0.8 | 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° | 19485.2 | 100.0 |
| 0°-180° | 19485.2 | 100.0 |

Coefficient of Utilization



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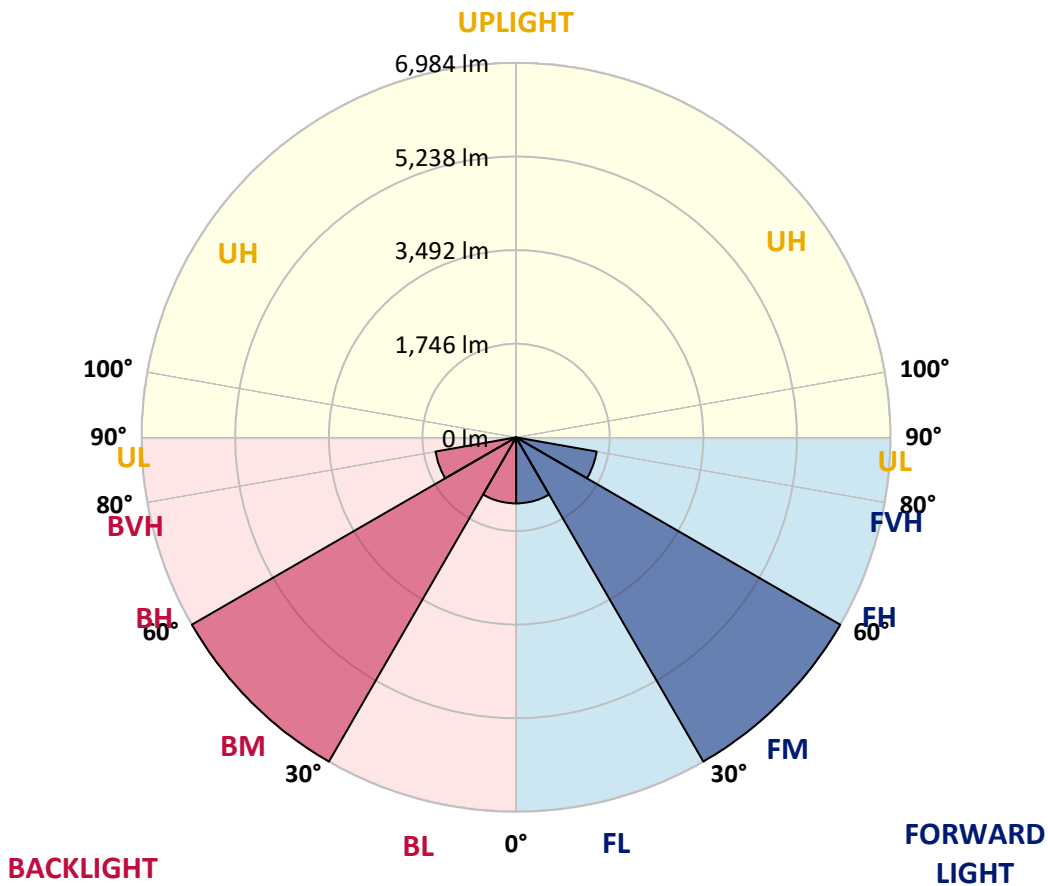
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1231.7 | 6.3 | | | |
| FM (30°-60°) | 6983.7 | 35.8 | | | |
| FH (60°-80°) | 1526.7 | 7.8 | | | G1/1800 |
| FVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1231.7 | 6.3 | B3/2500 | | |
| BM (30°-60°) | 6983.7 | 35.8 | B4/8500 | | |
| BH (60°-80°) | 1526.7 | 7.8 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 0.4 | 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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 | 2763.3 |
| 2.5° | 2736.7 | 2742.0 | 2747.3 | 2750.0 | 2752.6 | 2760.6 | 2763.3 | 2755.3 | 2755.3 | 2739.4 | 2758.0 |
| 5° | 2723.4 | 2728.8 | 2734.1 | 2731.4 | 2731.4 | 2731.4 | 2728.8 | 2718.1 | 2715.5 | 2699.6 | 2718.1 |
| 7.5° | 2699.6 | 2704.9 | 2704.9 | 2696.9 | 2691.6 | 2691.6 | 2688.9 | 2675.7 | 2673.0 | 2657.1 | 2675.7 |
| 10° | 2681.0 | 2683.6 | 2681.0 | 2665.0 | 2654.4 | 2654.4 | 2651.8 | 2646.5 | 2649.1 | 2638.5 | 2654.4 |
| 12.5° | 2691.6 | 2694.2 | 2683.6 | 2662.4 | 2649.1 | 2646.5 | 2638.5 | 2630.5 | 2638.5 | 2635.8 | 2651.8 |
| 15° | 2726.1 | 2728.8 | 2710.2 | 2683.6 | 2673.0 | 2673.0 | 2651.8 | 2630.5 | 2641.2 | 2643.8 | 2662.4 |
| 17.5° | 2768.6 | 2768.6 | 2744.7 | 2720.8 | 2723.4 | 2723.4 | 2688.9 | 2651.8 | 2654.4 | 2665.0 | 2683.6 |
| 20° | 2819.0 | 2819.0 | 2795.1 | 2789.8 | 2808.4 | 2811.0 | 2768.6 | 2710.2 | 2696.9 | 2704.9 | 2726.1 |
| 22.5° | 2909.3 | 2909.3 | 2890.7 | 2903.9 | 2946.4 | 2959.7 | 2896.0 | 2813.7 | 2781.8 | 2787.2 | 2808.4 |
| 25° | 3049.9 | 3049.9 | 3044.6 | 3076.5 | 3137.5 | 3166.7 | 3081.8 | 2973.0 | 2919.9 | 2911.9 | 2935.8 |
| 27.5° | 3286.2 | 3288.8 | 3280.9 | 3328.7 | 3405.6 | 3440.1 | 3323.3 | 3180.0 | 3116.3 | 3103.0 | 3126.9 |
| 30° | 3591.4 | 3591.4 | 3594.1 | 3660.5 | 3761.3 | 3806.5 | 3652.5 | 3485.3 | 3410.9 | 3368.5 | 3400.3 |
| 32.5° | 3931.2 | 3936.5 | 3963.1 | 4074.5 | 4252.4 | 4345.3 | 4119.7 | 3886.1 | 3766.6 | 3721.5 | 3756.0 |
| 35° | 4491.3 | 4440.9 | 4409.0 | 4491.3 | 4748.8 | 4870.9 | 4581.5 | 4308.1 | 4217.9 | 4212.6 | 4300.2 |
| 37.5° | 5046.1 | 5016.9 | 4950.5 | 5035.5 | 5266.4 | 5322.1 | 5003.6 | 4775.3 | 4711.6 | 4746.1 | 4833.7 |
| 40° | 5486.7 | 5433.6 | 5346.0 | 5425.7 | 5728.3 | 5784.0 | 5391.1 | 5165.5 | 5141.6 | 5218.6 | 5338.1 |
| 42.5° | 5834.4 | 5760.1 | 5643.3 | 5661.9 | 5906.1 | 5945.9 | 5598.2 | 5428.3 | 5444.2 | 5539.8 | 5675.2 |
| 45° | 5991.0 | 5932.6 | 5829.1 | 5821.2 | 5975.1 | 5977.8 | 5704.4 | 5616.8 | 5659.2 | 5733.6 | 5839.7 |
| 47.5° | 6057.4 | 6030.9 | 5972.5 | 5959.2 | 6046.8 | 6025.6 | 5855.7 | 5818.5 | 5858.3 | 5879.6 | 5940.6 |
| 50° | 6222.0 | 6222.0 | 6229.9 | 6240.6 | 6330.8 | 6309.6 | 6190.1 | 6147.7 | 6097.2 | 6022.9 | 6041.5 |
| 52.5° | 6683.9 | 6702.4 | 6779.4 | 6864.4 | 7028.9 | 7097.9 | 6904.2 | 6657.3 | 6415.8 | 6253.8 | 6253.8 |
| 55° | 7517.3 | 7535.9 | 7626.2 | 7769.5 | 8072.1 | 8236.7 | 7785.4 | 7241.3 | 6909.5 | 6689.2 | 6718.4 |
| 57.5° | 7976.6 | 7997.8 | 8183.6 | 8571.2 | 9157.8 | 9436.5 | 8467.6 | 7660.7 | 7196.2 | 6944.0 | 6965.2 |
| 58° | 7947.4 | 7960.6 | 8170.3 | 8624.2 | 9277.2 | 9577.2 | 8515.4 | 7647.4 | 7159.0 | 6901.5 | 6928.1 |
| 60° | 7060.8 | 7042.2 | 7376.7 | 8024.3 | 8945.4 | 9359.5 | 8040.3 | 6981.1 | 6413.1 | 6150.3 | 6163.6 |
| 62.5° | 4616.1 | 4626.7 | 4916.0 | 5592.9 | 6309.6 | 6699.8 | 5616.8 | 4828.4 | 4371.8 | 4212.6 | 4172.8 |
| 65° | 1927.1 | 1892.6 | 2070.5 | 2447.4 | 2877.4 | 3095.1 | 2659.7 | 2251.0 | 1969.6 | 1863.4 | 1892.6 |
| 67.5° | 496.4 | 483.1 | 493.7 | 618.5 | 756.5 | 894.5 | 751.2 | 573.4 | 499.0 | 504.3 | 504.3 |
| 70° | 281.4 | 265.4 | 215.0 | 199.1 | 193.8 | 193.8 | 193.8 | 193.8 | 223.0 | 262.8 | 270.8 |
| 72.5° | 212.4 | 199.1 | 156.6 | 135.4 | 119.4 | 111.5 | 116.8 | 135.4 | 161.9 | 196.4 | 201.7 |
| 75° | 106.2 | 106.2 | 95.6 | 90.3 | 79.6 | 74.3 | 77.0 | 84.9 | 98.2 | 111.5 | 108.8 |
| 77.5° | 21.2 | 23.9 | 26.5 | 31.9 | 26.5 | 26.5 | 26.5 | 31.9 | 31.9 | 34.5 | 31.9 |
| 80° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 82.5° | 0.0 | 2.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 2.7 | 2.7 | 2.7 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 2.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)