

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: P633397

Luminaire Tested: GWS-SA2E-760-U-5NQ-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633397
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-SA2E-760-U-5NQ-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13345.3 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 108.2
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

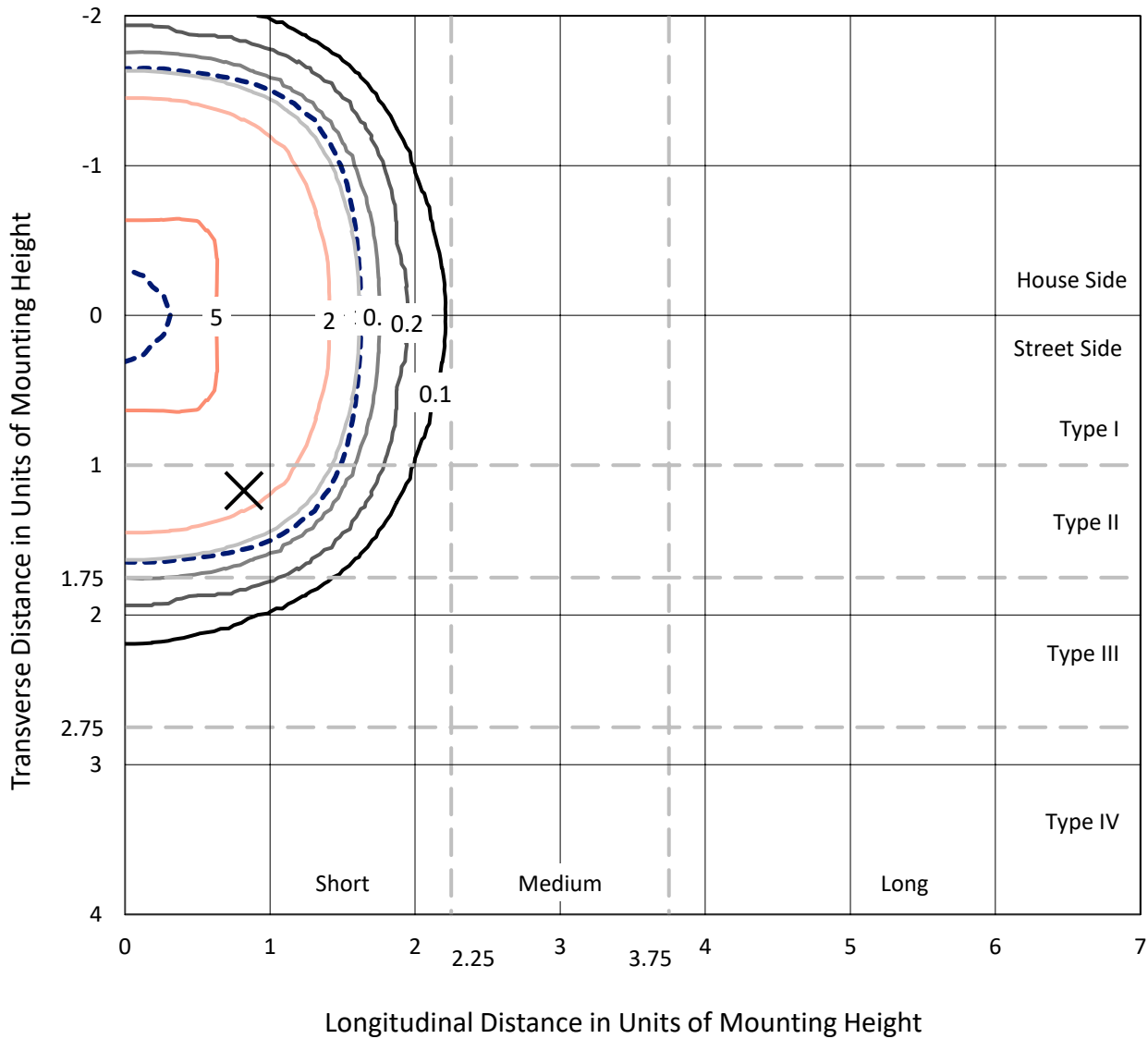


REPORT NUMBER: P633397

CATALOG NUMBER: GWS-SA2E-760-U-5NQ-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

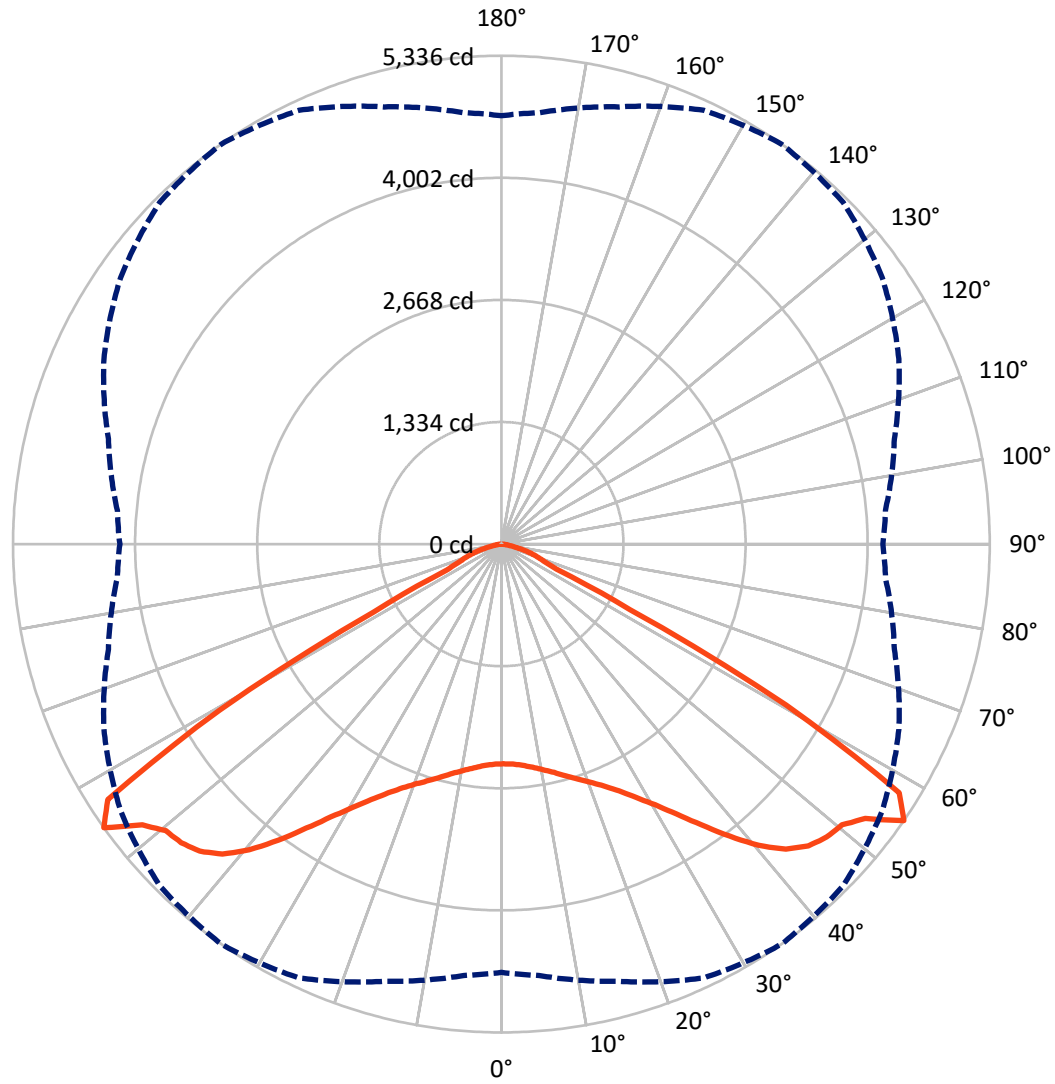
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

REPORT NUMBER: P633397
CATALOG NUMBER: GWS-SA2E-760-U-5NQ-W-GRSWH

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 |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6672.7 | 0.0 | 6672.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6672.7 | 0.0 | 6672.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13345.3 | 0.0 | 13345.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 234.2 | 1.8 |
| 10°-20° | 745.6 | 5.6 |
| 20°-30° | 1379.9 | 10.3 |
| 30°-40° | 2308.3 | 17.3 |
| 40°-50° | 3517.4 | 26.4 |
| 50°-60° | 3940.2 | 29.5 |
| 60°-70° | 932.3 | 7.0 |
| 70°-80° | 251.3 | 1.9 |
| 80°-90° | 36.2 | 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° | 13345.3 | 100.0 |
| 0°-180° | 13345.3 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P633397

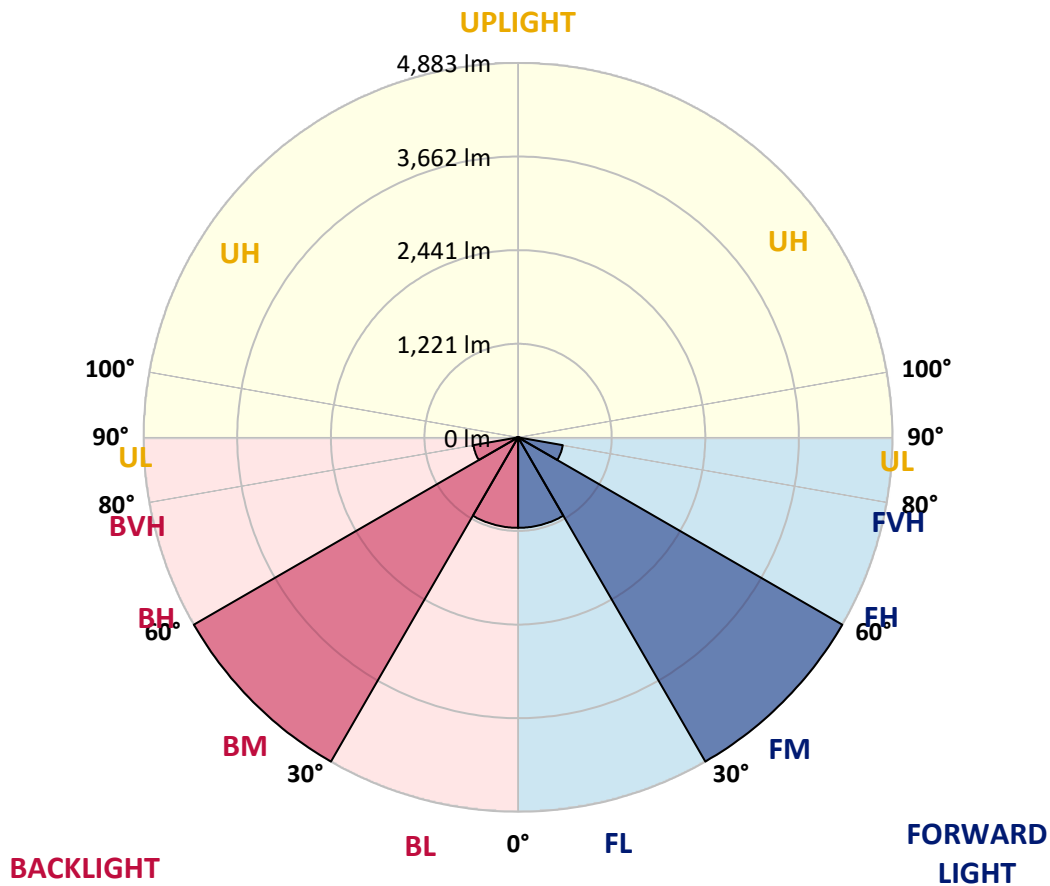
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1179.8 | 8.8 | | | |
| FM (30°-60°) | 4882.9 | 36.6 | | | |
| FH (60°-80°) | 591.8 | 4.4 | | | G0/660 |
| FVH (80°-90°) | 18.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1179.8 | 8.8 | B3/2500 | | |
| BM (30°-60°) | 4882.9 | 36.6 | B3/5000 | | |
| BH (60°-80°) | 591.8 | 4.4 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 18.1 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2400.9 | 2400.9 | 2400.9 | 2400.9 | 2400.9 | 2400.9 | 2400.9 | 2400.9 | 2400.9 | 2400.9 | 2400.9 |
| 2.5° | 2395.6 | 2395.6 | 2399.8 | 2405.1 | 2406.1 | 2416.7 | 2414.6 | 2410.4 | 2408.2 | 2404.0 | 2413.5 |
| 5° | 2422.0 | 2423.0 | 2426.2 | 2429.3 | 2427.2 | 2435.7 | 2432.5 | 2427.2 | 2424.1 | 2418.8 | 2428.3 |
| 7.5° | 2456.8 | 2456.8 | 2460.0 | 2464.2 | 2462.1 | 2474.7 | 2468.4 | 2461.0 | 2455.7 | 2449.4 | 2457.8 |
| 10° | 2488.4 | 2490.6 | 2493.7 | 2502.2 | 2506.4 | 2520.1 | 2515.9 | 2505.3 | 2496.9 | 2489.5 | 2499.0 |
| 12.5° | 2535.9 | 2538.0 | 2541.2 | 2552.8 | 2560.2 | 2573.9 | 2567.6 | 2552.8 | 2540.2 | 2529.6 | 2540.2 |
| 15° | 2597.1 | 2595.0 | 2603.5 | 2618.3 | 2627.7 | 2640.4 | 2633.0 | 2607.7 | 2590.8 | 2577.1 | 2587.6 |
| 17.5° | 2659.4 | 2658.4 | 2666.8 | 2685.8 | 2699.5 | 2716.4 | 2703.7 | 2674.2 | 2656.2 | 2639.4 | 2649.9 |
| 20° | 2726.9 | 2730.1 | 2738.6 | 2756.5 | 2776.5 | 2798.7 | 2788.2 | 2756.5 | 2736.4 | 2717.5 | 2725.9 |
| 22.5° | 2810.3 | 2811.4 | 2820.9 | 2844.1 | 2870.5 | 2891.6 | 2885.2 | 2846.2 | 2820.9 | 2800.8 | 2811.4 |
| 25° | 2910.6 | 2909.5 | 2922.2 | 2949.6 | 2986.6 | 3007.7 | 2993.9 | 2950.7 | 2923.2 | 2900.0 | 2908.5 |
| 27.5° | 3025.6 | 3024.6 | 3043.5 | 3079.4 | 3132.2 | 3161.7 | 3133.2 | 3079.4 | 3041.4 | 3008.7 | 3016.1 |
| 30° | 3170.2 | 3167.0 | 3188.1 | 3236.7 | 3305.3 | 3354.9 | 3312.7 | 3237.7 | 3188.1 | 3153.3 | 3160.7 |
| 32.5° | 3330.6 | 3334.8 | 3361.2 | 3426.6 | 3513.2 | 3577.5 | 3514.2 | 3430.8 | 3364.4 | 3313.7 | 3322.2 |
| 35° | 3506.8 | 3506.8 | 3560.7 | 3641.9 | 3765.4 | 3850.9 | 3752.7 | 3632.4 | 3543.8 | 3474.1 | 3476.2 |
| 37.5° | 3703.1 | 3705.2 | 3775.9 | 3887.8 | 4049.3 | 4149.5 | 4016.6 | 3867.8 | 3760.1 | 3685.2 | 3681.0 |
| 40° | 3942.7 | 3949.0 | 4021.8 | 4146.4 | 4327.9 | 4419.7 | 4277.2 | 4131.6 | 4021.8 | 3933.2 | 3924.7 |
| 42.5° | 4212.8 | 4215.0 | 4292.0 | 4403.9 | 4556.9 | 4611.8 | 4499.9 | 4380.6 | 4290.9 | 4210.7 | 4202.3 |
| 45° | 4470.3 | 4465.1 | 4531.5 | 4614.9 | 4703.6 | 4708.8 | 4646.6 | 4598.0 | 4519.9 | 4451.3 | 4438.7 |
| 47.5° | 4670.9 | 4666.6 | 4726.8 | 4772.2 | 4782.7 | 4731.0 | 4751.1 | 4758.4 | 4667.7 | 4574.8 | 4550.5 |
| 50° | 4793.3 | 4801.7 | 4858.7 | 4884.0 | 4821.8 | 4737.3 | 4813.3 | 4794.3 | 4664.5 | 4543.2 | 4504.1 |
| 52.5° | 4867.1 | 4879.8 | 4979.0 | 5043.4 | 4979.0 | 4898.8 | 4909.4 | 4797.5 | 4610.7 | 4450.3 | 4399.6 |
| 55° | 4680.3 | 4731.0 | 4945.2 | 5230.2 | 5335.7 | 5279.8 | 5079.3 | 4791.2 | 4445.0 | 4211.8 | 4168.5 |
| 57.5° | 3468.8 | 3549.0 | 3866.7 | 4484.1 | 5125.7 | 5329.4 | 4743.7 | 4016.6 | 3492.1 | 3192.3 | 3167.0 |
| 60° | 1770.8 | 1860.5 | 2114.9 | 2749.1 | 3574.4 | 3861.4 | 3304.2 | 2571.8 | 2044.2 | 1801.4 | 1774.0 |
| 62.5° | 722.9 | 737.7 | 821.0 | 1065.9 | 1579.8 | 1822.5 | 1600.9 | 1123.9 | 844.3 | 777.8 | 778.8 |
| 65° | 568.8 | 572.0 | 567.8 | 582.5 | 661.7 | 734.5 | 678.6 | 596.3 | 581.5 | 588.9 | 583.6 |
| 67.5° | 496.0 | 497.1 | 493.9 | 493.9 | 497.1 | 493.9 | 500.2 | 503.4 | 505.5 | 513.9 | 508.7 |
| 70° | 414.7 | 415.8 | 415.8 | 417.9 | 416.9 | 411.6 | 421.1 | 425.3 | 426.3 | 431.6 | 428.5 |
| 72.5° | 320.8 | 324.0 | 326.1 | 327.1 | 326.1 | 322.9 | 328.2 | 335.6 | 334.5 | 339.8 | 334.5 |
| 75° | 217.4 | 221.6 | 223.7 | 227.9 | 226.9 | 226.9 | 233.2 | 236.4 | 233.2 | 237.4 | 233.2 |
| 77.5° | 123.5 | 126.6 | 133.0 | 137.2 | 141.4 | 144.6 | 148.8 | 150.9 | 149.9 | 152.0 | 149.9 |
| 80° | 71.8 | 72.8 | 78.1 | 80.2 | 85.5 | 90.8 | 95.0 | 97.1 | 98.1 | 99.2 | 98.1 |
| 82.5° | 41.2 | 42.2 | 44.3 | 46.4 | 50.7 | 54.9 | 59.1 | 62.3 | 62.3 | 63.3 | 62.3 |
| 85° | 20.1 | 20.1 | 21.1 | 22.2 | 24.3 | 27.4 | 30.6 | 33.8 | 34.8 | 34.8 | 34.8 |
| 87.5° | 3.2 | 3.2 | 4.2 | 4.2 | 5.3 | 6.3 | 8.4 | 10.6 | 11.6 | 11.6 | 11.6 |
| 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)