

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: P633891

Luminaire Tested: GWS-SA2F-760-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633891
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-SA2F-760-U-5NQ-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11517.1 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

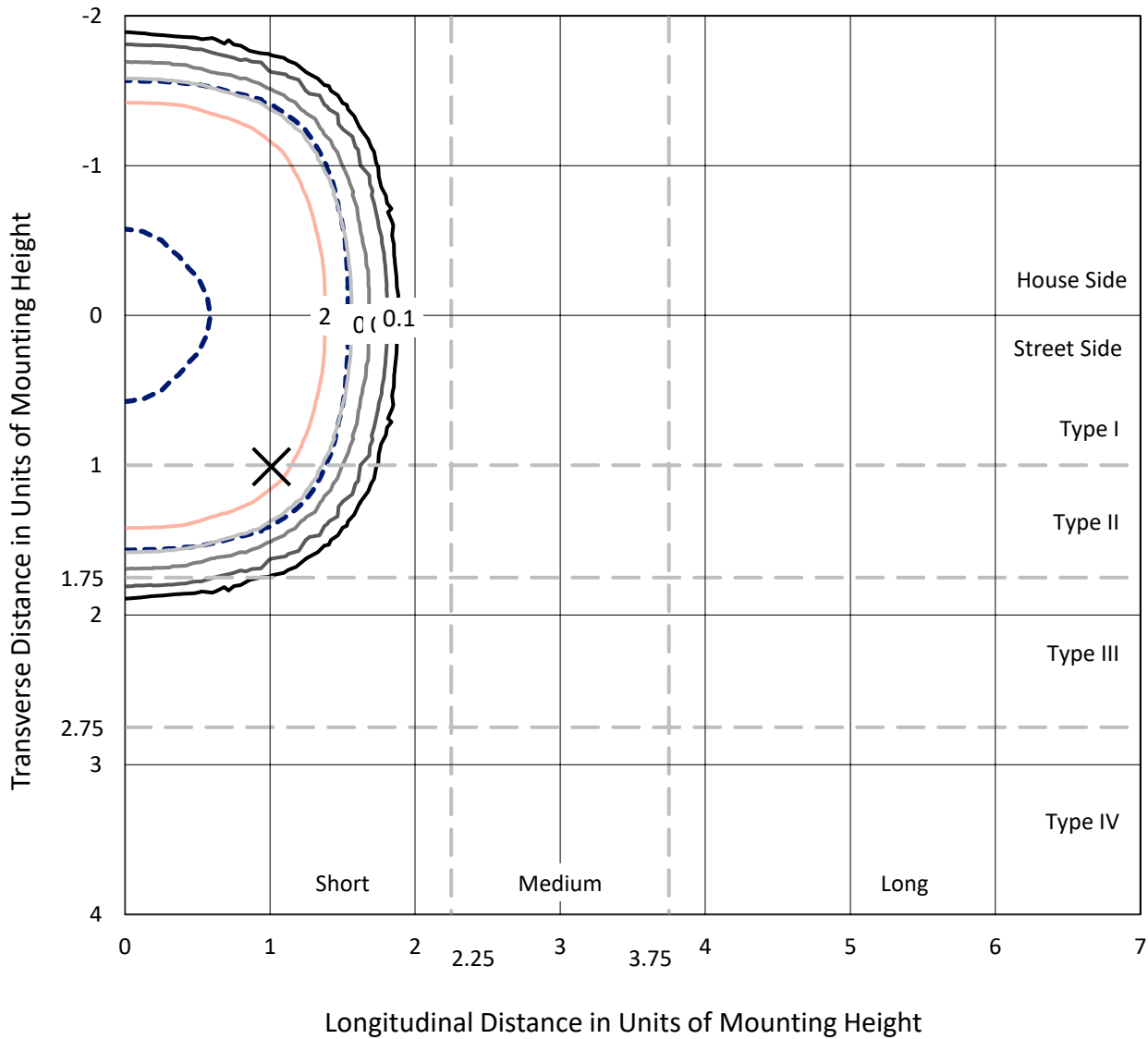
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

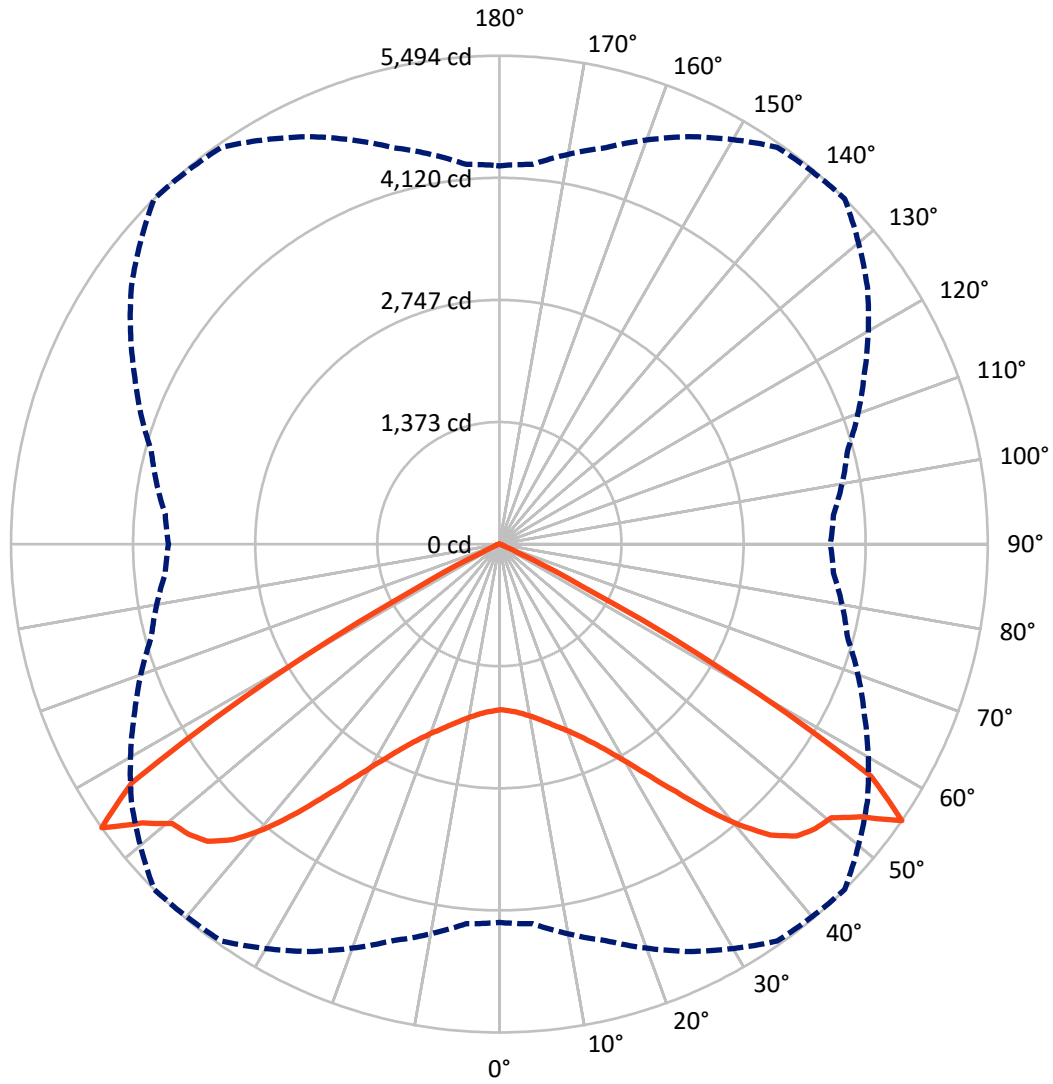
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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 | 5758.6 | 0.0 | 5758.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5758.6 | 0.0 | 5758.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11517.1 | 0.0 | 11517.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 182.4 | 1.6 |
| 10°-20° | 591.4 | 5.1 |
| 20°-30° | 1145.3 | 9.9 |
| 30°-40° | 2051.9 | 17.8 |
| 40°-50° | 3440.2 | 29.9 |
| 50°-60° | 3682.5 | 32.0 |
| 60°-70° | 404.7 | 3.5 |
| 70°-80° | 17.8 | 0.2 |
| 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° | 11517.1 | 100.0 |
| 0°-180° | 11517.1 | 100.0 |

Coefficient of Utilization



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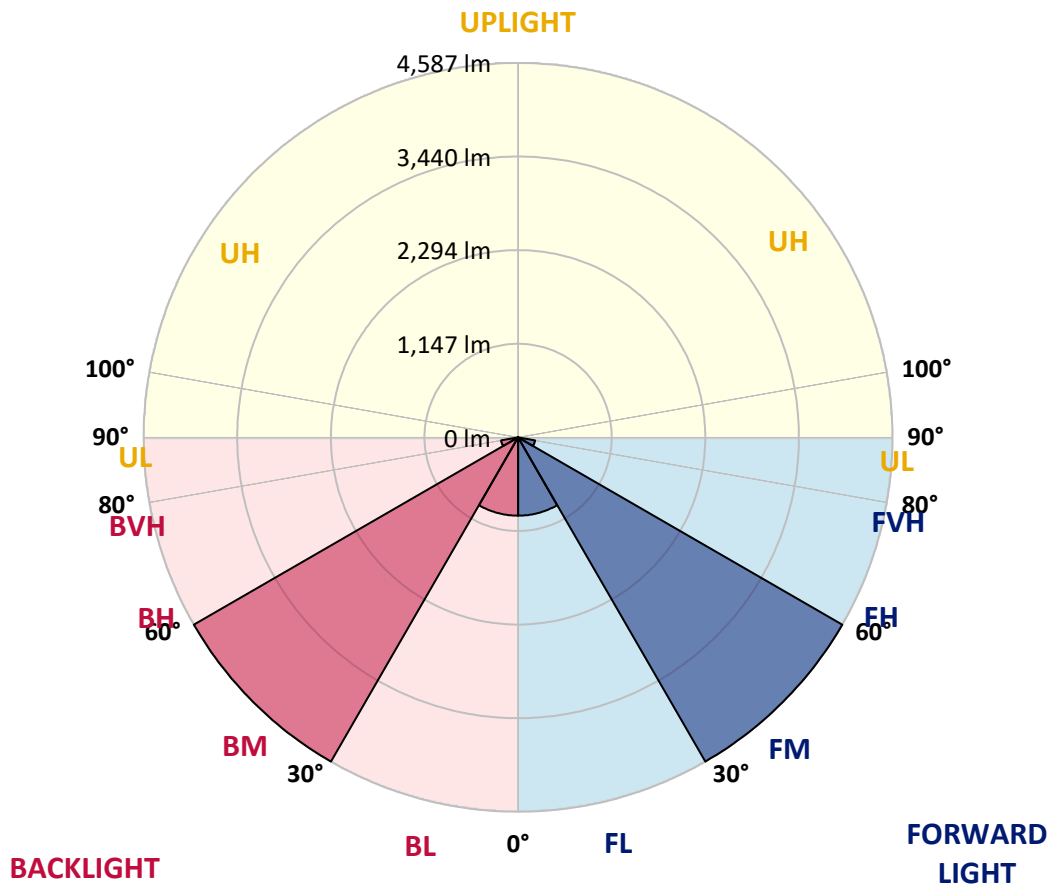
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 959.6 | 8.3 | | | |
| FM (30°-60°) | 4587.3 | 39.8 | | | |
| FH (60°-80°) | 211.2 | 1.8 | | | G0/660 |
| FVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 959.6 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 4587.3 | 39.8 | B3/5000 | | |
| BH (60°-80°) | 211.2 | 1.8 | B1/500 | | G0/660 |
| 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: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1862.1 | 1862.1 | 1862.1 | 1862.1 | 1862.1 | 1862.1 | 1862.1 | 1862.1 | 1862.1 | 1862.1 | 1862.1 |
| 2.5° | 1858.6 | 1858.6 | 1863.3 | 1866.8 | 1866.8 | 1876.2 | 1872.7 | 1869.1 | 1869.1 | 1864.4 | 1873.8 |
| 5° | 1885.6 | 1884.4 | 1889.1 | 1891.4 | 1886.7 | 1896.1 | 1890.3 | 1886.7 | 1884.4 | 1879.7 | 1889.1 |
| 7.5° | 1914.9 | 1916.1 | 1917.2 | 1921.9 | 1919.6 | 1929.0 | 1924.3 | 1917.2 | 1914.9 | 1907.9 | 1917.2 |
| 10° | 1950.1 | 1950.1 | 1952.4 | 1958.3 | 1959.5 | 1971.2 | 1966.5 | 1958.3 | 1951.3 | 1944.2 | 1953.6 |
| 12.5° | 1994.7 | 1995.9 | 1999.4 | 2007.6 | 2012.3 | 2025.2 | 2018.1 | 2001.7 | 1991.2 | 1982.9 | 1993.5 |
| 15° | 2059.2 | 2058.0 | 2062.7 | 2074.5 | 2080.3 | 2089.7 | 2079.2 | 2056.9 | 2044.0 | 2034.6 | 2041.6 |
| 17.5° | 2129.6 | 2129.6 | 2132.0 | 2143.7 | 2151.9 | 2166.0 | 2153.1 | 2126.1 | 2114.4 | 2101.5 | 2108.5 |
| 20° | 2207.1 | 2210.6 | 2212.9 | 2221.1 | 2235.2 | 2249.3 | 2238.7 | 2211.7 | 2198.8 | 2182.4 | 2190.6 |
| 22.5° | 2309.1 | 2305.6 | 2306.8 | 2320.9 | 2340.8 | 2354.9 | 2346.7 | 2315.0 | 2292.7 | 2279.8 | 2284.5 |
| 25° | 2423.0 | 2421.8 | 2425.3 | 2446.4 | 2468.7 | 2484.0 | 2472.2 | 2431.2 | 2408.9 | 2386.6 | 2396.0 |
| 27.5° | 2562.6 | 2563.8 | 2566.1 | 2591.9 | 2627.1 | 2649.4 | 2620.1 | 2579.0 | 2548.5 | 2519.2 | 2526.2 |
| 30° | 2728.0 | 2725.7 | 2732.7 | 2767.9 | 2819.5 | 2854.7 | 2820.7 | 2763.2 | 2719.8 | 2691.6 | 2695.2 |
| 32.5° | 2904.0 | 2906.4 | 2925.1 | 2981.5 | 3049.5 | 3111.7 | 3042.5 | 2966.2 | 2909.9 | 2857.1 | 2864.1 |
| 35° | 3094.1 | 3100.0 | 3142.2 | 3225.5 | 3337.0 | 3420.3 | 3324.1 | 3198.5 | 3118.7 | 3050.7 | 3053.0 |
| 37.5° | 3318.2 | 3332.3 | 3391.0 | 3515.3 | 3674.9 | 3786.4 | 3645.6 | 3479.0 | 3375.7 | 3291.2 | 3285.4 |
| 40° | 3612.7 | 3629.1 | 3708.9 | 3856.8 | 4050.4 | 4152.5 | 3989.4 | 3818.1 | 3690.2 | 3598.6 | 3584.6 |
| 42.5° | 3950.6 | 3971.8 | 4058.6 | 4209.9 | 4403.6 | 4472.8 | 4313.2 | 4168.9 | 4053.9 | 3945.9 | 3941.3 |
| 45° | 4332.0 | 4343.7 | 4414.1 | 4530.3 | 4669.9 | 4686.3 | 4566.6 | 4486.9 | 4370.7 | 4269.8 | 4261.6 |
| 47.5° | 4689.8 | 4701.6 | 4749.7 | 4809.5 | 4842.4 | 4783.7 | 4762.6 | 4727.4 | 4577.2 | 4452.8 | 4427.0 |
| 50° | 4962.1 | 4971.4 | 5031.3 | 5054.8 | 4963.2 | 4838.9 | 4879.9 | 4804.8 | 4641.7 | 4502.1 | 4462.2 |
| 52.5° | 4943.3 | 4966.8 | 5120.5 | 5254.2 | 5196.7 | 5095.8 | 4985.5 | 4823.6 | 4570.2 | 4378.9 | 4329.6 |
| 55° | 4255.7 | 4287.4 | 4617.1 | 5057.1 | 5450.2 | 5493.6 | 5052.4 | 4530.3 | 4053.9 | 3773.5 | 3723.0 |
| 57.5° | 2735.1 | 2743.3 | 3145.7 | 3762.9 | 4648.8 | 4928.0 | 4190.0 | 3415.6 | 2823.1 | 2514.5 | 2493.4 |
| 60° | 1005.6 | 989.1 | 1293.0 | 1804.6 | 2677.6 | 2973.2 | 2466.4 | 1727.2 | 1232.0 | 1013.8 | 996.2 |
| 62.5° | 241.7 | 244.1 | 302.7 | 454.1 | 840.1 | 1039.6 | 821.3 | 458.8 | 292.2 | 245.2 | 242.9 |
| 65° | 122.0 | 119.7 | 120.9 | 130.2 | 179.5 | 214.7 | 176.0 | 124.4 | 119.7 | 120.9 | 119.7 |
| 67.5° | 78.6 | 77.4 | 79.8 | 81.0 | 79.8 | 75.1 | 73.9 | 76.3 | 76.3 | 77.4 | 75.1 |
| 70° | 48.1 | 46.9 | 49.3 | 52.8 | 50.5 | 44.6 | 46.9 | 49.3 | 46.9 | 45.8 | 45.8 |
| 72.5° | 25.8 | 25.8 | 28.2 | 30.5 | 28.2 | 25.8 | 25.8 | 27.0 | 25.8 | 25.8 | 25.8 |
| 75° | 11.7 | 11.7 | 12.9 | 14.1 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 |
| 77.5° | 3.5 | 3.5 | 4.7 | 4.7 | 3.5 | 3.5 | 3.5 | 3.5 | 4.7 | 4.7 | 4.7 |
| 80° | 1.2 | 2.3 | 2.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 2.3 | 2.3 | 2.3 |
| 82.5° | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 85° | 1.2 | 1.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 1.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 1.2 | 1.2 |
| 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)