

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: P636751

Luminaire Tested: GWS-SA4B-740-U-5NQ-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636751
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-SA4B-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: 10185.3 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

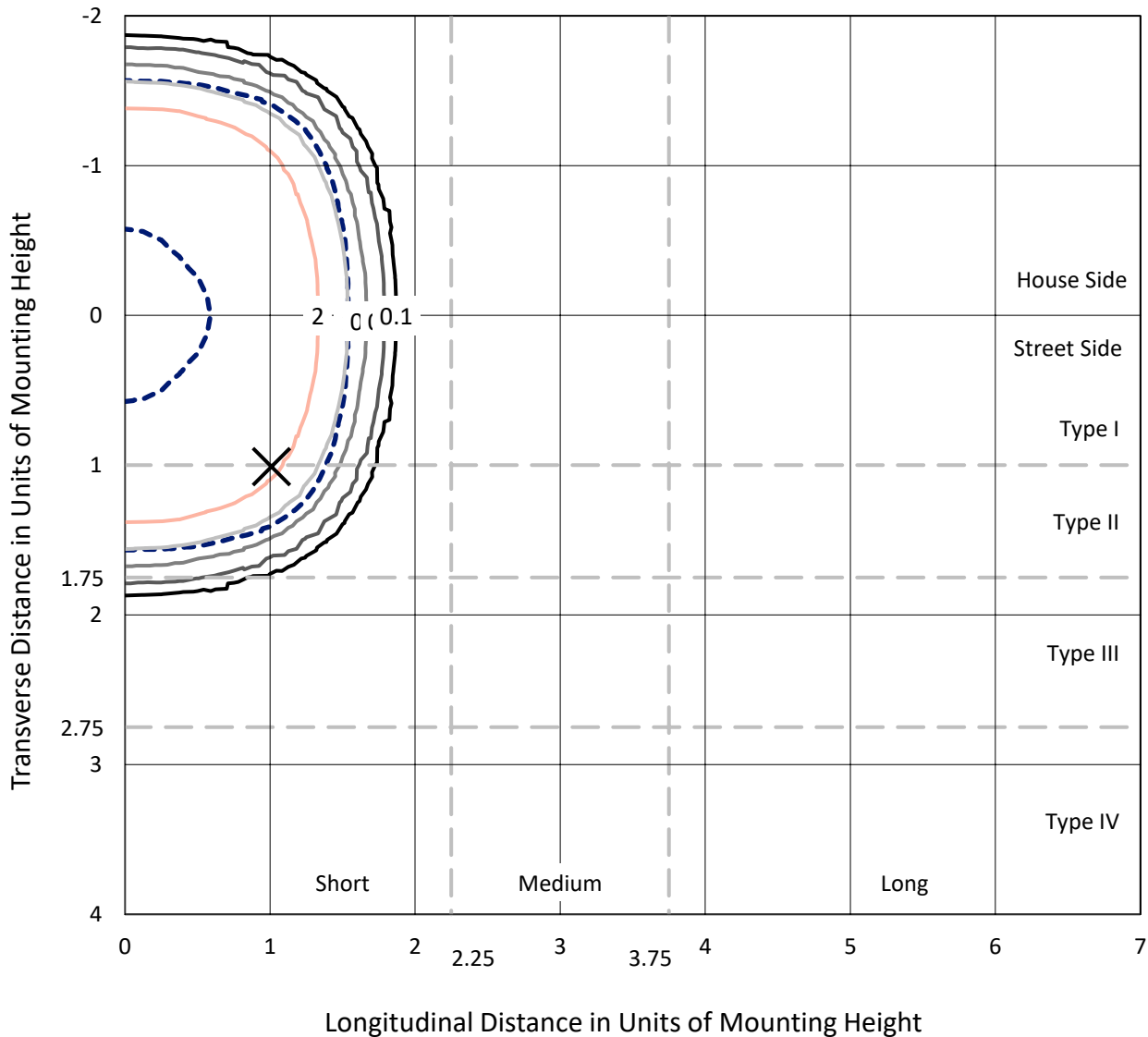
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

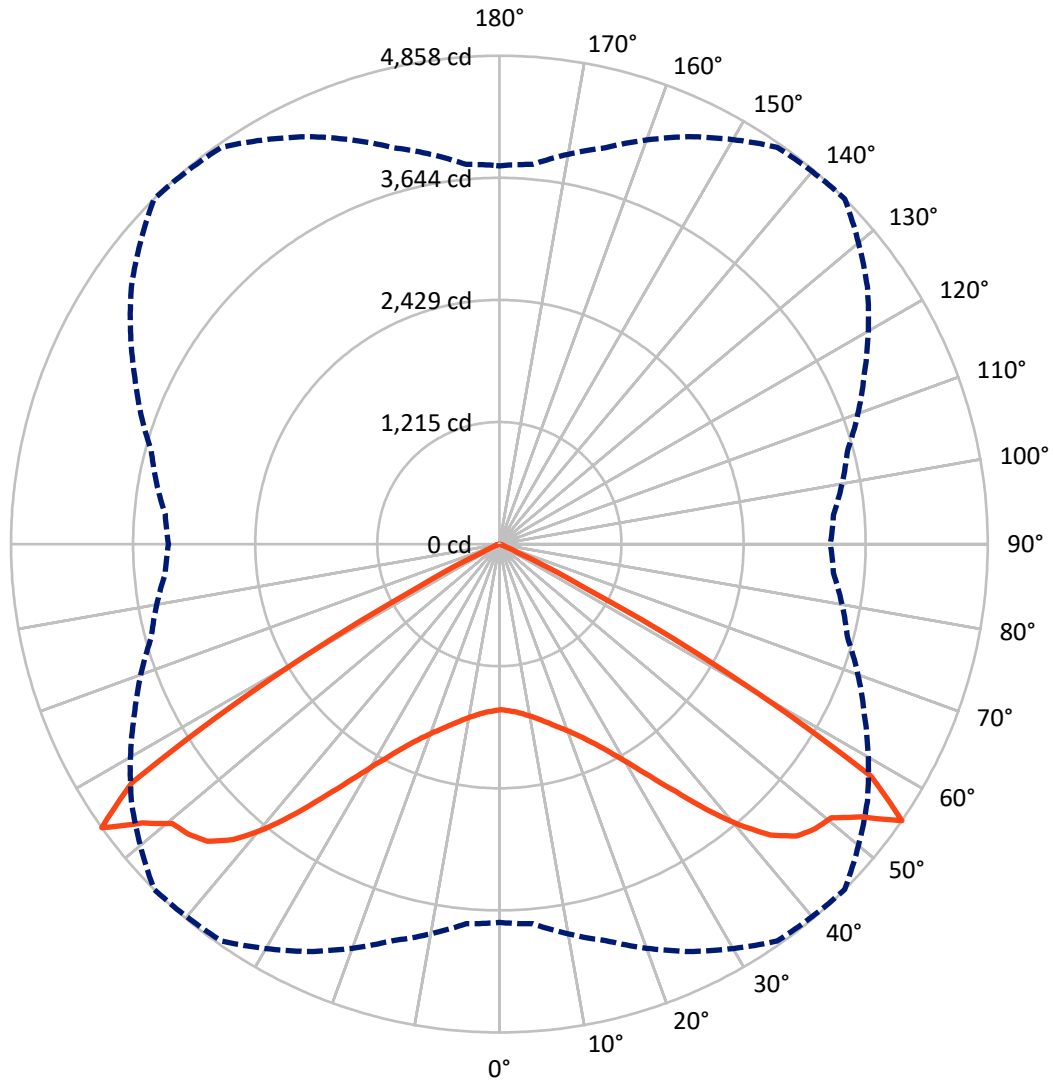
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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 | 5092.6 | 0.0 | 5092.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5092.6 | 0.0 | 5092.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10185.3 | 0.0 | 10185.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 161.3 | 1.6 |
| 10°-20° | 523.0 | 5.1 |
| 20°-30° | 1012.9 | 9.9 |
| 30°-40° | 1814.6 | 17.8 |
| 40°-50° | 3042.4 | 29.9 |
| 50°-60° | 3256.7 | 32.0 |
| 60°-70° | 357.9 | 3.5 |
| 70°-80° | 15.8 | 0.2 |
| 80°-90° | 0.7 | 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° | 10185.3 | 100.0 |
| 0°-180° | 10185.3 | 100.0 |

Coefficient of Utilization



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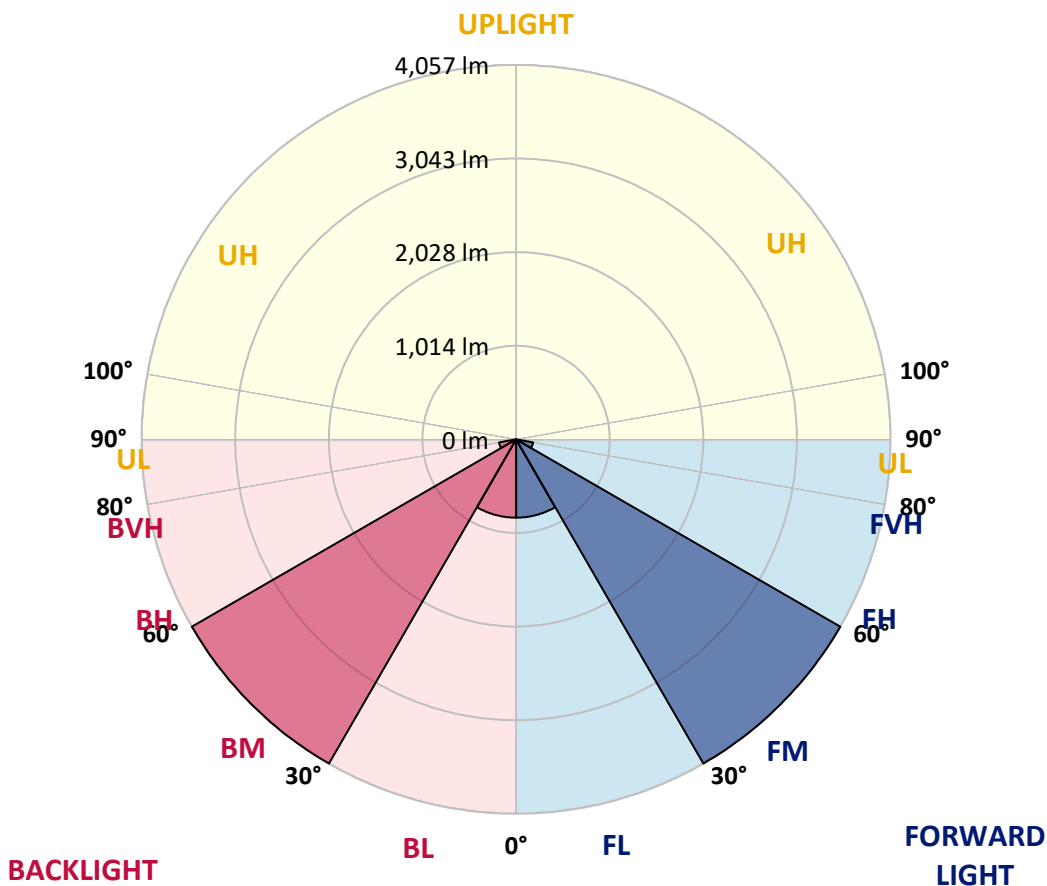
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 848.6 | 8.3 | | | |
| FM (30°-60°) | 4056.8 | 39.8 | | | |
| FH (60°-80°) | 186.8 | 1.8 | | | G0/660 |
| FVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| BL (0°-30°) | 848.6 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 4056.8 | 39.8 | B3/5000 | | |
| BH (60°-80°) | 186.8 | 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° | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 |
| 2.5° | 1643.7 | 1643.7 | 1647.8 | 1650.9 | 1650.9 | 1659.2 | 1656.1 | 1653.0 | 1653.0 | 1648.8 | 1657.1 |
| 5° | 1667.5 | 1666.5 | 1670.6 | 1672.7 | 1668.6 | 1676.9 | 1671.7 | 1668.6 | 1666.5 | 1662.3 | 1670.6 |
| 7.5° | 1693.5 | 1694.5 | 1695.5 | 1699.7 | 1697.6 | 1705.9 | 1701.8 | 1695.5 | 1693.5 | 1687.2 | 1695.5 |
| 10° | 1724.6 | 1724.6 | 1726.7 | 1731.9 | 1732.9 | 1743.3 | 1739.1 | 1731.9 | 1725.6 | 1719.4 | 1727.7 |
| 12.5° | 1764.0 | 1765.1 | 1768.2 | 1775.4 | 1779.6 | 1791.0 | 1784.8 | 1770.2 | 1760.9 | 1753.6 | 1763.0 |
| 15° | 1821.1 | 1820.1 | 1824.2 | 1834.6 | 1839.8 | 1848.1 | 1838.7 | 1819.0 | 1807.6 | 1799.3 | 1805.5 |
| 17.5° | 1883.4 | 1883.4 | 1885.4 | 1895.8 | 1903.1 | 1915.5 | 1904.1 | 1880.2 | 1869.9 | 1858.4 | 1864.7 |
| 20° | 1951.8 | 1955.0 | 1957.0 | 1964.3 | 1976.7 | 1989.2 | 1979.9 | 1956.0 | 1944.6 | 1930.0 | 1937.3 |
| 22.5° | 2042.1 | 2039.0 | 2040.0 | 2052.5 | 2070.1 | 2082.6 | 2075.3 | 2047.3 | 2027.6 | 2016.2 | 2020.3 |
| 25° | 2142.8 | 2141.7 | 2144.8 | 2163.5 | 2183.2 | 2196.7 | 2186.3 | 2150.0 | 2130.3 | 2110.6 | 2118.9 |
| 27.5° | 2266.2 | 2267.3 | 2269.4 | 2292.2 | 2323.3 | 2343.0 | 2317.1 | 2280.8 | 2253.8 | 2227.9 | 2234.1 |
| 30° | 2412.6 | 2410.5 | 2416.7 | 2447.8 | 2493.5 | 2524.6 | 2494.5 | 2443.7 | 2405.3 | 2380.4 | 2383.5 |
| 32.5° | 2568.2 | 2570.3 | 2586.9 | 2636.7 | 2696.9 | 2751.9 | 2690.7 | 2623.2 | 2573.4 | 2526.7 | 2532.9 |
| 35° | 2736.3 | 2741.5 | 2778.9 | 2852.5 | 2951.1 | 3024.8 | 2939.7 | 2828.7 | 2758.1 | 2697.9 | 2700.0 |
| 37.5° | 2934.5 | 2947.0 | 2998.8 | 3108.8 | 3250.0 | 3348.5 | 3224.0 | 3076.7 | 2985.3 | 2910.6 | 2905.4 |
| 40° | 3195.0 | 3209.5 | 3280.0 | 3410.8 | 3582.0 | 3672.3 | 3528.0 | 3376.5 | 3263.4 | 3182.5 | 3170.1 |
| 42.5° | 3493.8 | 3512.5 | 3589.3 | 3723.1 | 3894.3 | 3955.6 | 3814.4 | 3686.8 | 3585.1 | 3489.7 | 3485.5 |
| 45° | 3831.0 | 3841.4 | 3903.7 | 4006.4 | 4129.9 | 4144.4 | 4038.6 | 3968.0 | 3865.3 | 3776.0 | 3768.8 |
| 47.5° | 4147.5 | 4157.9 | 4200.4 | 4253.4 | 4282.4 | 4230.5 | 4211.9 | 4180.7 | 4047.9 | 3937.9 | 3915.1 |
| 50° | 4388.3 | 4396.6 | 4449.5 | 4470.2 | 4389.3 | 4279.3 | 4315.6 | 4249.2 | 4105.0 | 3981.5 | 3946.2 |
| 52.5° | 4371.7 | 4392.4 | 4528.3 | 4646.6 | 4595.8 | 4506.6 | 4409.0 | 4265.8 | 4041.7 | 3872.5 | 3829.0 |
| 55° | 3763.6 | 3791.6 | 4083.2 | 4472.3 | 4819.9 | 4858.3 | 4468.2 | 4006.4 | 3585.1 | 3337.1 | 3292.5 |
| 57.5° | 2418.8 | 2426.0 | 2782.0 | 3327.8 | 4111.2 | 4358.2 | 3705.5 | 3020.6 | 2496.6 | 2223.7 | 2205.0 |
| 60° | 889.3 | 874.7 | 1143.5 | 1595.9 | 2367.9 | 2629.4 | 2181.2 | 1527.4 | 1089.5 | 896.5 | 881.0 |
| 62.5° | 213.8 | 215.8 | 267.7 | 401.6 | 743.0 | 919.4 | 726.4 | 405.7 | 258.4 | 216.9 | 214.8 |
| 65° | 107.9 | 105.8 | 106.9 | 115.2 | 158.8 | 189.9 | 155.6 | 110.0 | 105.8 | 106.9 | 105.8 |
| 67.5° | 69.5 | 68.5 | 70.6 | 71.6 | 70.6 | 66.4 | 65.4 | 67.4 | 67.4 | 68.5 | 66.4 |
| 70° | 42.5 | 41.5 | 43.6 | 46.7 | 44.6 | 39.4 | 41.5 | 43.6 | 41.5 | 40.5 | 40.5 |
| 72.5° | 22.8 | 22.8 | 24.9 | 27.0 | 24.9 | 22.8 | 22.8 | 23.9 | 22.8 | 22.8 | 22.8 |
| 75° | 10.4 | 10.4 | 11.4 | 12.5 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| 77.5° | 3.1 | 3.1 | 4.2 | 4.2 | 3.1 | 3.1 | 3.1 | 3.1 | 4.2 | 4.2 | 4.2 |
| 80° | 1.0 | 2.1 | 2.1 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.1 | 2.1 | 2.1 |
| 82.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 85° | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 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)