

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: P635485

Luminaire Tested: GWS-SA3D-830-U-5MQ-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3D-830-U-5MQ-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14477.3 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

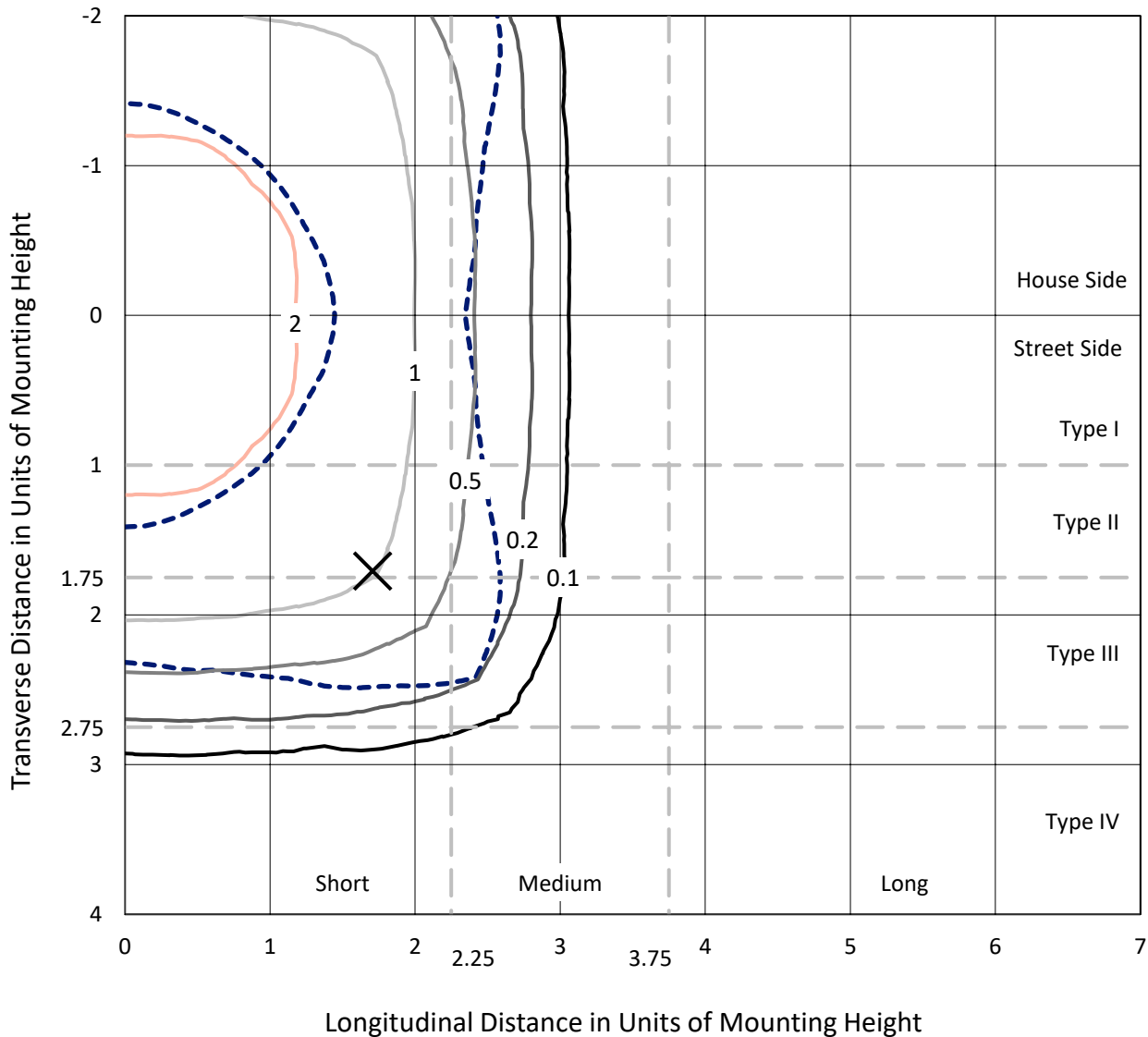
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

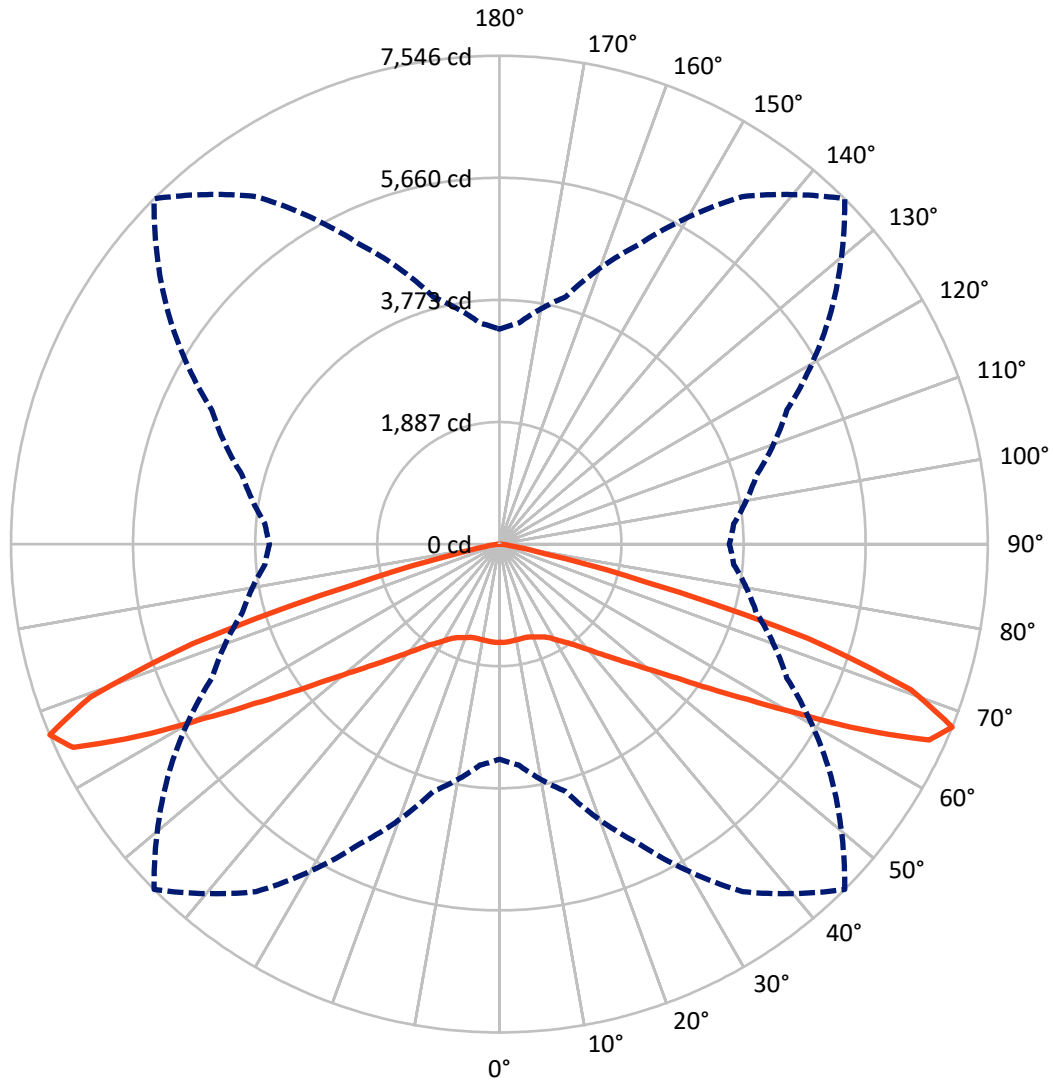
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7238.6 | 0.0 | 7238.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7238.6 | 0.0 | 7238.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14477.3 | 0.0 | 14477.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 143.5 | 1.0 |
| 10°-20° | 421.5 | 2.9 |
| 20°-30° | 727.0 | 5.0 |
| 30°-40° | 1182.1 | 8.2 |
| 40°-50° | 1990.3 | 13.7 |
| 50°-60° | 3526.5 | 24.4 |
| 60°-70° | 5040.9 | 34.8 |
| 70°-80° | 1383.5 | 9.6 |
| 80°-90° | 62.0 | 0.4 |
| 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° | 14477.3 | 100.0 |
| 0°-180° | 14477.3 | 100.0 |

Coefficient of Utilization



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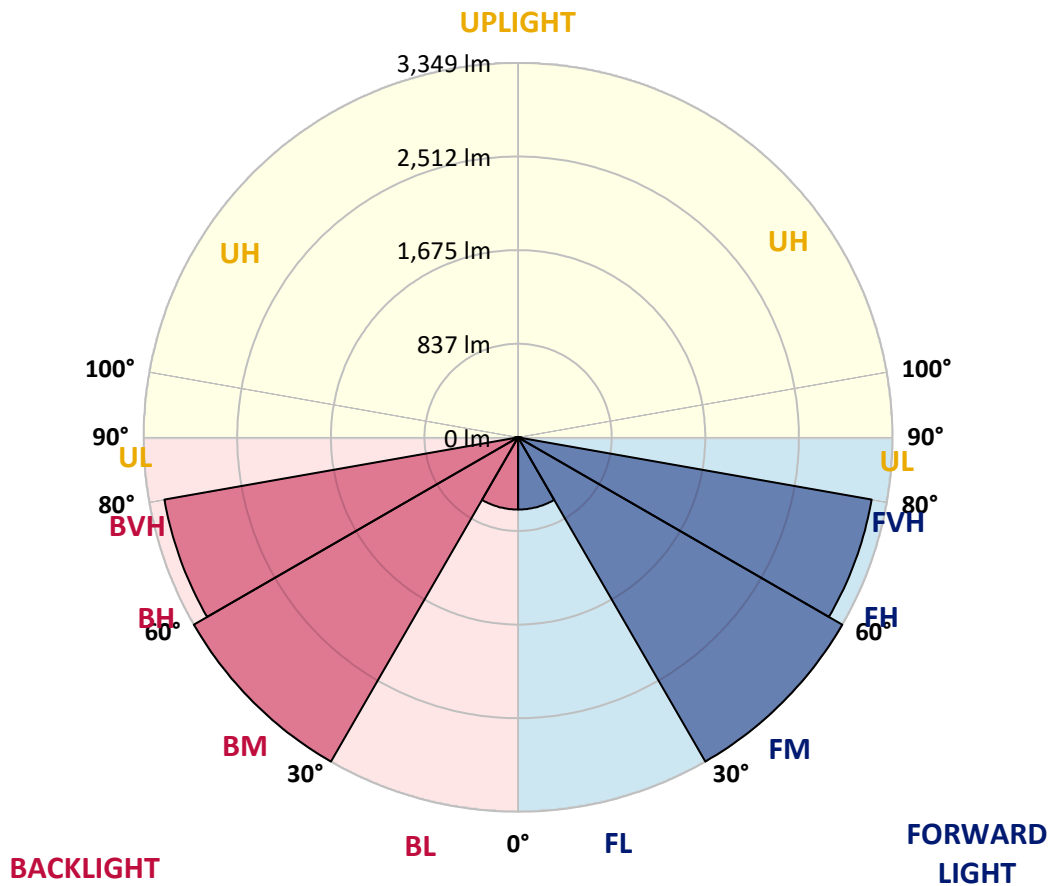
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 646.0 | 4.5 | | | |
| FM (30°-60°) | 3349.5 | 23.1 | | | |
| FH (60°-80°) | 3212.2 | 22.2 | | | G2/5000 |
| FVH (80°-90°) | 31.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 646.0 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 3349.5 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 3212.2 | 22.2 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 31.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1516.2 | 1516.2 | 1516.2 | 1516.2 | 1516.2 | 1516.2 | 1516.2 | 1516.2 | 1516.2 | 1516.2 | 1516.2 |
| 2.5° | 1506.2 | 1505.2 | 1510.2 | 1513.2 | 1512.2 | 1519.2 | 1518.2 | 1516.2 | 1516.2 | 1513.2 | 1521.3 |
| 5° | 1506.2 | 1505.2 | 1509.2 | 1510.2 | 1508.2 | 1514.2 | 1512.2 | 1510.2 | 1510.2 | 1506.2 | 1513.2 |
| 7.5° | 1498.2 | 1499.2 | 1502.2 | 1504.2 | 1502.2 | 1507.2 | 1504.2 | 1500.2 | 1499.2 | 1495.2 | 1502.2 |
| 10° | 1483.2 | 1484.2 | 1487.2 | 1492.2 | 1493.2 | 1502.2 | 1497.2 | 1490.2 | 1487.2 | 1483.2 | 1490.2 |
| 12.5° | 1474.2 | 1475.2 | 1478.2 | 1484.2 | 1486.2 | 1498.2 | 1493.2 | 1482.2 | 1477.2 | 1473.1 | 1480.2 |
| 15° | 1472.1 | 1473.1 | 1477.2 | 1483.2 | 1486.2 | 1498.2 | 1493.2 | 1480.2 | 1473.1 | 1468.1 | 1474.2 |
| 17.5° | 1472.1 | 1474.2 | 1480.2 | 1489.2 | 1495.2 | 1507.2 | 1501.2 | 1486.2 | 1476.2 | 1467.1 | 1473.1 |
| 20° | 1473.1 | 1476.2 | 1485.2 | 1498.2 | 1513.2 | 1530.3 | 1522.3 | 1502.2 | 1488.2 | 1477.2 | 1481.2 |
| 22.5° | 1482.2 | 1487.2 | 1498.2 | 1515.2 | 1537.3 | 1557.3 | 1550.3 | 1523.3 | 1503.2 | 1488.2 | 1492.2 |
| 25° | 1513.2 | 1515.2 | 1529.3 | 1551.3 | 1572.4 | 1589.4 | 1582.4 | 1557.3 | 1532.3 | 1514.2 | 1519.2 |
| 27.5° | 1568.4 | 1573.4 | 1585.4 | 1608.4 | 1626.5 | 1635.5 | 1634.5 | 1617.5 | 1592.4 | 1576.4 | 1580.4 |
| 30° | 1634.5 | 1639.5 | 1655.5 | 1681.6 | 1699.6 | 1709.7 | 1706.6 | 1693.6 | 1670.6 | 1648.5 | 1652.5 |
| 32.5° | 1711.7 | 1713.7 | 1732.7 | 1761.8 | 1780.8 | 1795.8 | 1785.8 | 1771.8 | 1742.7 | 1716.7 | 1718.7 |
| 35° | 1809.9 | 1812.9 | 1832.9 | 1860.0 | 1875.0 | 1887.0 | 1885.0 | 1871.0 | 1839.9 | 1811.9 | 1818.9 |
| 37.5° | 1933.1 | 1935.1 | 1953.2 | 1987.2 | 1999.3 | 2008.3 | 2010.3 | 2003.3 | 1971.2 | 1935.1 | 1942.2 |
| 40° | 2086.5 | 2087.5 | 2107.5 | 2137.6 | 2150.6 | 2156.6 | 2157.6 | 2158.6 | 2125.5 | 2098.5 | 2096.5 |
| 42.5° | 2264.8 | 2269.9 | 2297.9 | 2327.0 | 2333.0 | 2330.0 | 2340.0 | 2350.0 | 2318.0 | 2280.9 | 2283.9 |
| 45° | 2478.3 | 2481.3 | 2519.4 | 2551.5 | 2540.4 | 2530.4 | 2549.5 | 2569.5 | 2540.4 | 2492.3 | 2478.3 |
| 47.5° | 2730.8 | 2736.9 | 2777.9 | 2810.0 | 2792.0 | 2773.9 | 2805.0 | 2826.0 | 2778.9 | 2727.8 | 2714.8 |
| 50° | 3016.4 | 3020.5 | 3078.6 | 3118.7 | 3097.6 | 3064.6 | 3103.6 | 3125.7 | 3062.5 | 2999.4 | 2971.4 |
| 52.5° | 3354.2 | 3346.2 | 3423.3 | 3493.5 | 3480.4 | 3437.3 | 3469.4 | 3473.4 | 3379.2 | 3290.0 | 3262.0 |
| 55° | 3766.1 | 3758.0 | 3835.2 | 3912.4 | 3944.4 | 3933.4 | 3918.4 | 3894.3 | 3755.0 | 3659.8 | 3633.8 |
| 57.5° | 4246.1 | 4221.0 | 4329.3 | 4433.5 | 4503.6 | 4523.7 | 4459.5 | 4403.4 | 4293.2 | 4175.9 | 4145.9 |
| 60° | 4692.0 | 4691.0 | 4862.4 | 5042.8 | 5235.2 | 5315.4 | 5153.0 | 5000.7 | 4753.2 | 4539.7 | 4496.6 |
| 62.5° | 4817.3 | 4838.3 | 5118.9 | 5565.9 | 6040.9 | 6324.5 | 5896.6 | 5392.5 | 4914.5 | 4592.8 | 4535.7 |
| 65° | 4508.6 | 4560.8 | 4959.6 | 5665.1 | 6603.1 | 7296.6 | 6330.5 | 5401.5 | 4735.1 | 4334.3 | 4274.1 |
| 67.5° | 3323.1 | 3427.3 | 3955.5 | 5111.9 | 6555.0 | 7546.1 | 6253.4 | 4901.5 | 4112.8 | 3635.8 | 3552.6 |
| 70° | 1639.5 | 1738.7 | 2157.6 | 3363.2 | 5393.5 | 6745.4 | 5410.6 | 3693.9 | 2777.9 | 2319.0 | 2242.8 |
| 72.5° | 603.3 | 643.4 | 807.7 | 1439.1 | 2976.4 | 4982.7 | 3699.9 | 2063.4 | 1345.9 | 1071.3 | 1020.2 |
| 75° | 295.6 | 302.6 | 327.7 | 483.0 | 1098.3 | 2345.0 | 1738.7 | 791.7 | 495.1 | 430.9 | 416.9 |
| 77.5° | 188.4 | 191.4 | 203.4 | 230.5 | 352.8 | 738.6 | 527.1 | 312.7 | 242.5 | 232.5 | 232.5 |
| 80° | 105.2 | 108.2 | 124.3 | 143.3 | 165.4 | 253.5 | 189.4 | 187.4 | 159.3 | 139.3 | 136.3 |
| 82.5° | 50.1 | 55.1 | 79.2 | 78.2 | 87.2 | 127.3 | 111.2 | 101.2 | 102.2 | 77.2 | 73.2 |
| 85° | 23.0 | 23.0 | 31.1 | 37.1 | 39.1 | 43.1 | 51.1 | 58.1 | 57.1 | 39.1 | 42.1 |
| 87.5° | 11.0 | 11.0 | 11.0 | 10.0 | 9.0 | 8.0 | 11.0 | 18.0 | 26.1 | 18.0 | 17.0 |
| 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)