

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: METALUX

Report Number: P1589914

Luminaire Tested: 24CZSP-SB-62-L835-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1589914  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CZSP-SB-62-L835-S  
Description: 2x4 CZSP LED Luminaire, 3500K CCT and 5500 lumens, 80CRI, Smooth Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

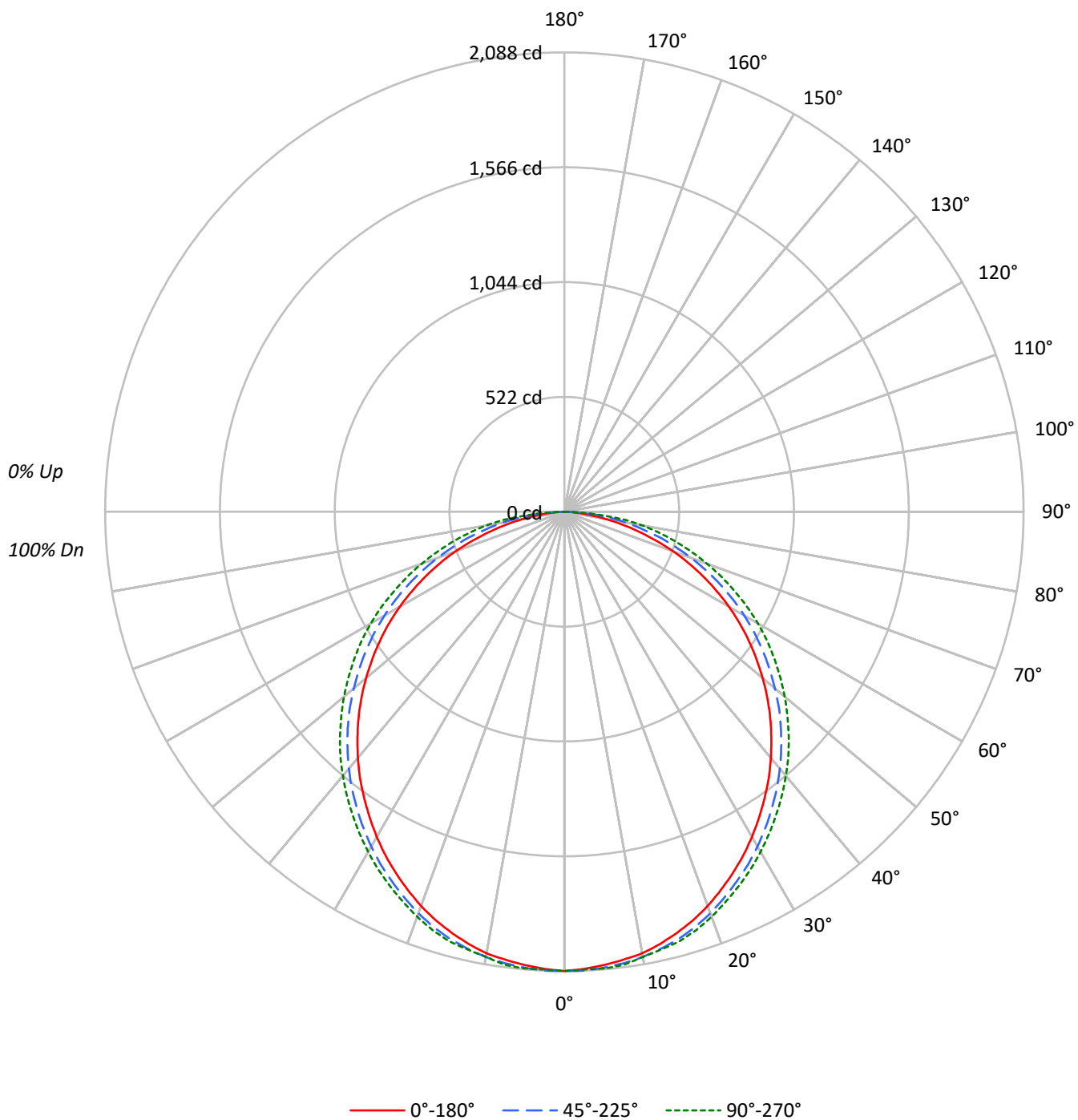
Lumens per Lamp: N/A  
Luminaire Lumens: 6073.0 lumens  
Efficiency: N/A  
Efficacy: 136.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 44.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 94  | 90  |  | 93  | 90  | 88  |  | 89  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  |  | 81  | 76  | 72  |  | 78  |
| 3   | 89  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  |  | 71  | 66  | 61  |  | 69  |
| 4   | 82  | 70  | 61  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 53  |  | 63  | 57  | 52  |  | 61  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  |  | 57  | 50  | 45  |  | 55  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  |  | 51  | 45  | 39  |  | 50  |
| 7   | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  |  | 47  | 40  | 35  |  | 45  |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |
| 10  | 52  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 30  | 26  |  | 37  | 30  | 25  |  | 36  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3198 | 3198 | 3198 |
| 5°  | 3180 | 3198 | 3204 |
| 10° | 3170 | 3196 | 3194 |
| 15° | 3141 | 3186 | 3205 |
| 20° | 3107 | 3164 | 3192 |
| 25° | 3062 | 3133 | 3173 |
| 30° | 3018 | 3105 | 3156 |
| 35° | 2968 | 3075 | 3141 |
| 40° | 2920 | 3048 | 3132 |
| 45° | 2867 | 3017 | 3124 |
| 50° | 2805 | 2979 | 3116 |
| 55° | 2735 | 2941 | 3112 |
| 60° | 2649 | 2898 | 3113 |
| 65° | 2528 | 2836 | 3096 |
| 70° | 2364 | 2750 | 3089 |
| 75° | 2095 | 2644 | 3100 |
| 80° | 1706 | 2512 | 3192 |
| 85° | 1102 | 2320 | 2756 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3235 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 197.6  | 3.3       |
| 10°-20°   | 565.8  | 9.3       |
| 20°-30°   | 853.0  | 14.0      |
| 30°-40°   | 1026.4 | 16.9      |
| 40°-50°   | 1070.6 | 17.6      |
| 50°-60°   | 981.3  | 16.2      |
| 60°-70°   | 770.6  | 12.7      |
| 70°-80°   | 469.0  | 7.7       |
| 80°-90°   | 138.7  | 2.3       |
| 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°-30°    | 1616.3 | 26.6      |
| 0°-40°    | 2642.7 | 43.5      |
| 0°-60°    | 4694.7 | 77.3      |
| 0°-90°    | 6073.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6073.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2088 | 2088  | 2088 | 2088  | 2088 |      |
| 5°  | 2068 | 2081  | 2080 | 2077  | 2084 | 196  |
| 15° | 1981 | 2000  | 2009 | 2012  | 2021 | 559  |
| 25° | 1812 | 1837  | 1854 | 1866  | 1877 | 835  |
| 35° | 1587 | 1612  | 1645 | 1668  | 1680 | 993  |
| 45° | 1323 | 1351  | 1393 | 1425  | 1442 | 1021 |
| 55° | 1024 | 1050  | 1101 | 1146  | 1165 | 915  |
| 65° | 698  | 724   | 783  | 835   | 854  | 690  |
| 75° | 354  | 387   | 447  | 500   | 524  | 375  |
| 85° | 63   | 89    | 132  | 148   | 157  | 82   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2087.7 | 2087.7 | 2087.7 | 2087.7 | 2087.7 |
| 2.5°  | 2079.8 | 2090.3 | 2087.7 | 2078.5 | 2082.5 |
| 5°    | 2068.1 | 2081.2 | 2079.8 | 2077.2 | 2083.8 |
| 7.5°  | 2053.7 | 2068.1 | 2069.4 | 2069.4 | 2077.2 |
| 10°   | 2038.0 | 2052.4 | 2055.0 | 2051.1 | 2053.7 |
| 12.5° | 2011.9 | 2028.9 | 2034.1 | 2034.1 | 2038.0 |
| 15°   | 1980.6 | 2000.2 | 2009.3 | 2011.9 | 2021.1 |
| 17.5° | 1946.6 | 1967.5 | 1979.3 | 1985.8 | 1993.6 |
| 20°   | 1906.1 | 1928.3 | 1941.4 | 1949.2 | 1958.3 |
| 22.5° | 1860.4 | 1885.2 | 1899.6 | 1907.4 | 1917.9 |
| 25°   | 1812.0 | 1836.9 | 1853.8 | 1865.6 | 1877.4 |
| 27.5° | 1761.1 | 1784.6 | 1808.1 | 1822.5 | 1832.9 |
| 30°   | 1706.2 | 1731.0 | 1755.9 | 1774.1 | 1784.6 |
| 32.5° | 1647.4 | 1673.5 | 1702.3 | 1721.9 | 1733.6 |
| 35°   | 1587.3 | 1612.1 | 1644.8 | 1668.3 | 1680.1 |
| 37.5° | 1525.9 | 1552.0 | 1586.0 | 1610.8 | 1625.2 |
| 40°   | 1460.6 | 1488.0 | 1524.6 | 1552.0 | 1566.4 |
| 42.5° | 1392.7 | 1418.8 | 1459.3 | 1490.6 | 1507.6 |
| 45°   | 1323.4 | 1350.9 | 1392.7 | 1425.3 | 1442.3 |
| 47.5° | 1251.6 | 1277.7 | 1323.4 | 1361.3 | 1375.7 |
| 50°   | 1177.1 | 1201.9 | 1250.3 | 1290.8 | 1307.7 |
| 52.5° | 1101.3 | 1127.5 | 1175.8 | 1218.9 | 1237.2 |
| 55°   | 1024.2 | 1050.4 | 1101.3 | 1145.7 | 1165.3 |
| 57.5° | 945.9  | 972.0  | 1024.2 | 1070.0 | 1093.5 |
| 60°   | 864.9  | 891.0  | 945.9  | 992.9  | 1016.4 |
| 62.5° | 781.2  | 808.7  | 864.9  | 913.2  | 938.0  |
| 65°   | 697.6  | 723.8  | 782.6  | 834.8  | 854.4  |
| 67.5° | 614.0  | 640.2  | 697.6  | 749.9  | 773.4  |
| 70°   | 527.8  | 557.8  | 614.0  | 668.9  | 689.8  |
| 72.5° | 437.7  | 471.6  | 527.8  | 585.3  | 606.2  |
| 75°   | 354.0  | 386.7  | 446.8  | 500.4  | 523.9  |
| 77.5° | 271.7  | 307.0  | 363.2  | 418.1  | 441.6  |
| 80°   | 193.4  | 227.3  | 284.8  | 337.1  | 361.9  |
| 82.5° | 122.8  | 152.9  | 210.3  | 257.4  | 275.7  |
| 85°   | 62.7   | 88.8   | 132.0  | 147.6  | 156.8  |
| 87.5° | 18.3   | 31.4   | 47.0   | 58.8   | 65.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling         |      | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall            |      | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference plane |      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room Dimensions |      | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| X=2H            | Y=2H | 15.5             | 17.2 | 15.9 | 17.5 | 17.8 | 16.3           | 17.9 | 16.6 | 18.2 | 18.6 |
|                 | 3H   | 17.3             | 18.8 | 17.7 | 19.1 | 19.5 | 18.4           | 19.9 | 18.7 | 20.2 | 20.5 |
|                 | 4H   | 17.9             | 19.3 | 18.3 | 19.7 | 20.1 | 19.2           | 20.6 | 19.6 | 21.0 | 21.4 |
|                 | 6H   | 18.3             | 19.7 | 18.7 | 20.0 | 20.4 | 20.0           | 21.3 | 20.4 | 21.6 | 22.0 |
|                 | 8H   | 18.4             | 19.7 | 18.9 | 20.1 | 20.5 | 20.3           | 21.5 | 20.7 | 21.9 | 22.3 |
|                 | 12H  | 18.5             | 19.7 | 18.9 | 20.1 | 20.5 | 20.5           | 21.7 | 20.9 | 22.0 | 22.5 |
| 4H              | 2H   | 16.3             | 17.7 | 16.7 | 18.1 | 18.4 | 16.9           | 18.3 | 17.3 | 18.6 | 19.0 |
|                 | 3H   | 18.3             | 19.5 | 18.7 | 19.9 | 20.3 | 19.2           | 20.4 | 19.6 | 20.8 | 21.2 |
|                 | 4H   | 19.0             | 20.1 | 19.5 | 20.5 | 21.0 | 20.2           | 21.3 | 20.6 | 21.7 | 22.1 |
|                 | 6H   | 19.6             | 20.5 | 20.0 | 21.0 | 21.4 | 21.1           | 22.1 | 21.6 | 22.5 | 23.0 |
|                 | 8H   | 19.7             | 20.6 | 20.2 | 21.0 | 21.5 | 21.5           | 22.4 | 21.9 | 22.8 | 23.3 |
|                 | 12H  | 19.8             | 20.6 | 20.3 | 21.1 | 21.5 | 21.7           | 22.5 | 22.2 | 23.0 | 23.5 |
| 8H              | 4H   | 19.5             | 20.4 | 19.9 | 20.8 | 21.3 | 20.5           | 21.4 | 21.0 | 21.8 | 22.3 |
|                 | 6H   | 20.1             | 20.9 | 20.6 | 21.4 | 21.9 | 21.6           | 22.3 | 22.1 | 22.8 | 23.3 |
|                 | 8H   | 20.4             | 21.0 | 20.9 | 21.5 | 22.0 | 22.0           | 22.7 | 22.5 | 23.2 | 23.7 |
|                 | 12H  | 20.5             | 21.1 | 21.0 | 21.6 | 22.1 | 22.4           | 23.0 | 22.9 | 23.5 | 24.0 |
| 12H             | 4H   | 19.6             | 20.4 | 20.0 | 20.8 | 21.3 | 20.5           | 21.3 | 21.0 | 21.8 | 22.3 |
|                 | 6H   | 20.3             | 21.0 | 20.8 | 21.4 | 22.0 | 21.6           | 22.3 | 22.1 | 22.8 | 23.3 |
|                 | 8H   | 20.5             | 21.1 | 21.1 | 21.6 | 22.2 | 22.2           | 22.7 | 22.7 | 23.2 | 23.8 |

(END OF REPORT)