

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: P1589992

Luminaire Tested: 24CZSP-SB-75-L830-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1589992  
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-75-L830-S  
Description: 2x4 CZSP LED Luminaire, 3000K CCT and 7500 lumens, 80CRI, Smooth Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

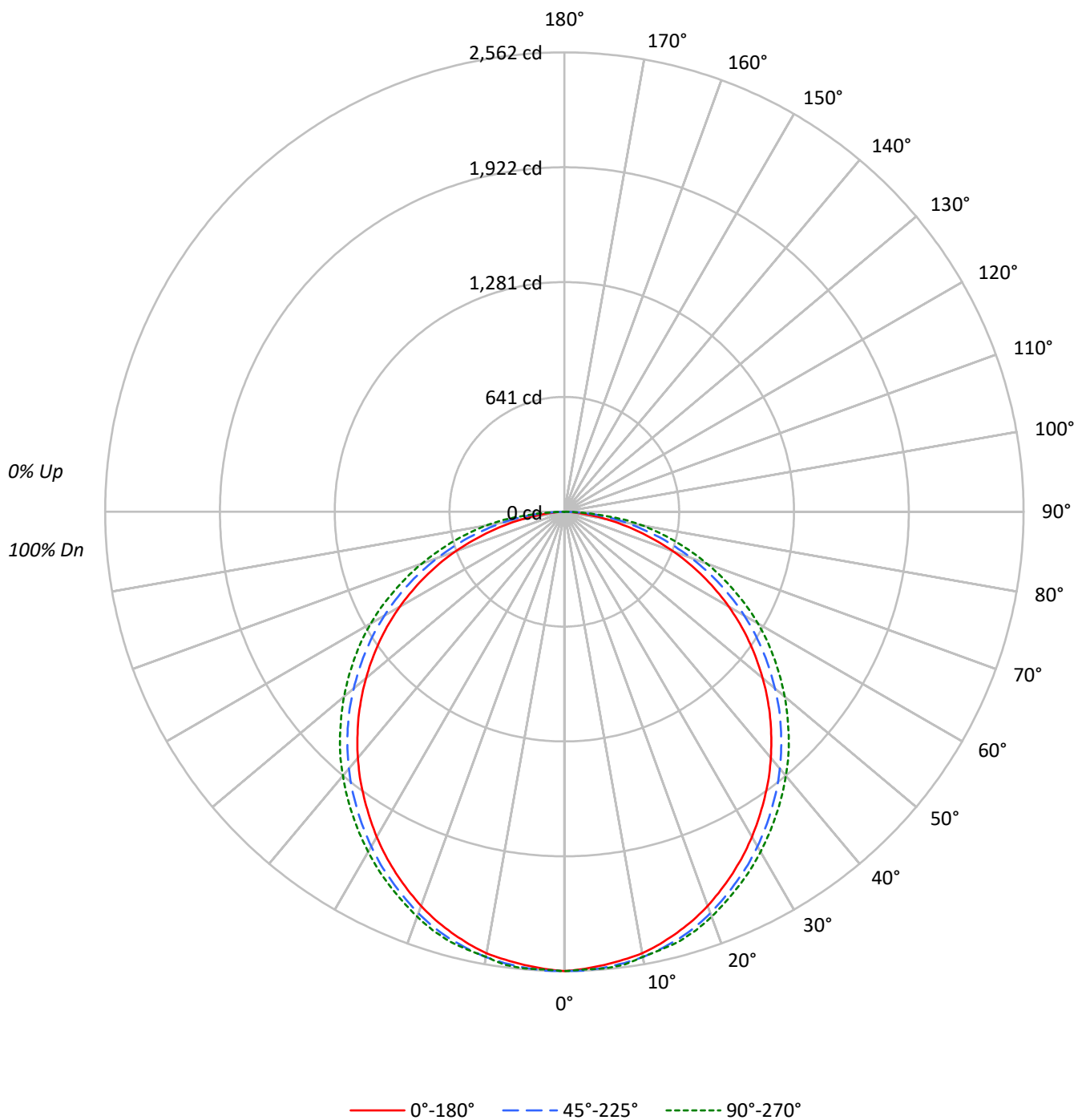
Lumens per Lamp: N/A  
Luminaire Lumens: 7452.0 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 59.5  
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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 94  | 90  |  | 93  | 90  | 88  |  | 89  | 87  | 85  | 83  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  |  | 81  | 76  | 72  |  | 78  | 74  | 71  | 69  |
| 3   | 89  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  |  | 71  | 66  | 61  |  | 69  | 64  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 53  |  | 63  | 57  | 52  |  | 61  | 56  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  |  | 57  | 50  | 45  |  | 55  | 49  | 44  | 42  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  |  | 51  | 45  | 39  |  | 50  | 44  | 39  | 37  |
| 7   | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  |  | 47  | 40  | 35  |  | 45  | 39  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  | 35  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  |  | 39  | 33  | 28  |  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 30  | 26  |  | 37  | 30  | 25  |  | 36  | 30  | 25  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3924 | 3924 | 3924 |
| 5°  | 3902 | 3924 | 3931 |
| 10° | 3889 | 3922 | 3919 |
| 15° | 3854 | 3910 | 3932 |
| 20° | 3812 | 3883 | 3917 |
| 25° | 3758 | 3844 | 3893 |
| 30° | 3703 | 3811 | 3873 |
| 35° | 3642 | 3774 | 3855 |
| 40° | 3584 | 3740 | 3843 |
| 45° | 3517 | 3702 | 3833 |
| 50° | 3442 | 3656 | 3824 |
| 55° | 3356 | 3609 | 3819 |
| 60° | 3251 | 3555 | 3820 |
| 65° | 3103 | 3480 | 3800 |
| 70° | 2900 | 3374 | 3790 |
| 75° | 2571 | 3245 | 3804 |
| 80° | 2093 | 3083 | 3917 |
| 85° | 1351 | 2845 | 3381 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3970 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 242.4  | 3.3       |
| 10°-20°   | 694.2  | 9.3       |
| 20°-30°   | 1046.7 | 14.0      |
| 30°-40°   | 1259.5 | 16.9      |
| 40°-50°   | 1313.7 | 17.6      |
| 50°-60°   | 1204.2 | 16.2      |
| 60°-70°   | 945.6  | 12.7      |
| 70°-80°   | 575.5  | 7.7       |
| 80°-90°   | 170.2  | 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°    | 1983.4 | 26.6      |
| 0°-40°    | 3242.8 | 43.5      |
| 0°-60°    | 5760.7 | 77.3      |
| 0°-90°    | 7452.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7452.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2562 | 2562  | 2562 | 2562  | 2562 |      |
| 5°  | 2538 | 2554  | 2552 | 2549  | 2557 | 241  |
| 15° | 2430 | 2454  | 2466 | 2469  | 2480 | 686  |
| 25° | 2224 | 2254  | 2275 | 2289  | 2304 | 1025 |
| 35° | 1948 | 1978  | 2018 | 2047  | 2062 | 1219 |
| 45° | 1624 | 1658  | 1709 | 1749  | 1770 | 1252 |
| 55° | 1257 | 1289  | 1351 | 1406  | 1430 | 1123 |
| 65° | 856  | 888   | 960  | 1024  | 1048 | 847  |
| 75° | 434  | 474   | 548  | 614   | 643  | 461  |
| 85° | 77   | 109   | 162  | 181   | 192  | 100  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2561.7 | 2561.7 | 2561.7 | 2561.7 | 2561.7 |
| 2.5°  | 2552.1 | 2564.9 | 2561.7 | 2550.5 | 2555.3 |
| 5°    | 2537.7 | 2553.7 | 2552.1 | 2548.9 | 2556.9 |
| 7.5°  | 2520.1 | 2537.7 | 2539.3 | 2539.3 | 2548.9 |
| 10°   | 2500.8 | 2518.5 | 2521.7 | 2516.9 | 2520.1 |
| 12.5° | 2468.8 | 2489.6 | 2496.0 | 2496.0 | 2500.8 |
| 15°   | 2430.3 | 2454.3 | 2465.6 | 2468.8 | 2480.0 |
| 17.5° | 2388.6 | 2414.3 | 2428.7 | 2436.7 | 2446.3 |
| 20°   | 2338.9 | 2366.2 | 2382.2 | 2391.8 | 2403.0 |
| 22.5° | 2282.8 | 2313.3 | 2330.9 | 2340.5 | 2353.3 |
| 25°   | 2223.5 | 2253.9 | 2274.8 | 2289.2 | 2303.6 |
| 27.5° | 2161.0 | 2189.8 | 2218.7 | 2236.3 | 2249.1 |
| 30°   | 2093.6 | 2124.1 | 2154.6 | 2177.0 | 2189.8 |
| 32.5° | 2021.5 | 2053.6 | 2088.8 | 2112.9 | 2127.3 |
| 35°   | 1947.8 | 1978.2 | 2018.3 | 2047.1 | 2061.6 |
| 37.5° | 1872.4 | 1904.5 | 1946.2 | 1976.6 | 1994.2 |
| 40°   | 1792.3 | 1825.9 | 1870.8 | 1904.5 | 1922.1 |
| 42.5° | 1708.9 | 1741.0 | 1790.7 | 1829.1 | 1850.0 |
| 45°   | 1623.9 | 1657.6 | 1708.9 | 1749.0 | 1769.8 |
| 47.5° | 1535.8 | 1567.8 | 1623.9 | 1670.4 | 1688.1 |
| 50°   | 1444.4 | 1474.8 | 1534.2 | 1583.9 | 1604.7 |
| 52.5° | 1351.4 | 1383.5 | 1442.8 | 1495.7 | 1518.1 |
| 55°   | 1256.8 | 1288.9 | 1351.4 | 1405.9 | 1430.0 |
| 57.5° | 1160.6 | 1192.7 | 1256.8 | 1312.9 | 1341.8 |
| 60°   | 1061.2 | 1093.3 | 1160.6 | 1218.3 | 1247.2 |
| 62.5° | 958.6  | 992.3  | 1061.2 | 1120.6 | 1151.0 |
| 65°   | 856.1  | 888.1  | 960.3  | 1024.4 | 1048.4 |
| 67.5° | 753.5  | 785.5  | 856.1  | 920.2  | 949.0  |
| 70°   | 647.6  | 684.5  | 753.5  | 820.8  | 846.4  |
| 72.5° | 537.0  | 578.7  | 647.6  | 718.2  | 743.8  |
| 75°   | 434.4  | 474.5  | 548.3  | 614.0  | 642.8  |
| 77.5° | 333.4  | 376.7  | 445.7  | 513.0  | 541.8  |
| 80°   | 237.3  | 278.9  | 349.5  | 413.6  | 444.1  |
| 82.5° | 150.7  | 187.6  | 258.1  | 315.8  | 338.3  |
| 85°   | 76.9   | 109.0  | 161.9  | 181.1  | 192.4  |
| 87.5° | 22.4   | 38.5   | 57.7   | 72.1   | 80.2   |
| 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 | 16.2             | 17.9 | 16.6 | 18.2 | 18.5 | 17.0           | 18.6 | 17.3 | 19.0 | 19.3 |
|                 | 3H   | 18.0             | 19.5 | 18.4 | 19.8 | 20.2 | 19.1           | 20.6 | 19.4 | 20.9 | 21.3 |
|                 | 4H   | 18.6             | 20.1 | 19.0 | 20.4 | 20.8 | 19.9           | 21.3 | 20.3 | 21.7 | 22.1 |
|                 | 6H   | 19.0             | 20.4 | 19.5 | 20.7 | 21.1 | 20.7           | 22.0 | 21.1 | 22.4 | 22.7 |
|                 | 8H   | 19.1             | 20.4 | 19.6 | 20.8 | 21.2 | 21.0           | 22.2 | 21.4 | 22.6 | 23.0 |
|                 | 12H  | 19.2             | 20.4 | 19.6 | 20.8 | 21.2 | 21.2           | 22.4 | 21.6 | 22.8 | 23.2 |
| 4H              | 2H   | 17.0             | 18.4 | 17.4 | 18.8 | 19.2 | 17.6           | 19.0 | 18.0 | 19.4 | 19.7 |
|                 | 3H   | 19.0             | 20.2 | 19.4 | 20.6 | 21.0 | 19.9           | 21.1 | 20.3 | 21.5 | 21.9 |
|                 | 4H   | 19.8             | 20.8 | 20.2 | 21.2 | 21.7 | 20.9           | 22.0 | 21.4 | 22.4 | 22.9 |
|                 | 6H   | 20.3             | 21.2 | 20.7 | 21.7 | 22.1 | 21.8           | 22.8 | 22.3 | 23.2 | 23.7 |
|                 | 8H   | 20.4             | 21.3 | 20.9 | 21.8 | 22.2 | 22.2           | 23.1 | 22.7 | 23.5 | 24.0 |
|                 | 12H  | 20.5             | 21.3 | 21.0 | 21.8 | 22.2 | 22.4           | 23.2 | 22.9 | 23.7 | 24.2 |
| 8H              | 4H   | 20.2             | 21.1 | 20.7 | 21.5 | 22.0 | 21.2           | 22.1 | 21.7 | 22.5 | 23.0 |
|                 | 6H   | 20.9             | 21.6 | 21.4 | 22.1 | 22.6 | 22.3           | 23.0 | 22.8 | 23.5 | 24.0 |
|                 | 8H   | 21.1             | 21.7 | 21.6 | 22.2 | 22.7 | 22.7           | 23.4 | 23.3 | 23.9 | 24.4 |
|                 | 12H  | 21.2             | 21.8 | 21.7 | 22.3 | 22.8 | 23.1           | 23.7 | 23.6 | 24.2 | 24.7 |
| 12H             | 4H   | 20.3             | 21.1 | 20.8 | 21.6 | 22.0 | 21.2           | 22.0 | 21.7 | 22.5 | 23.0 |
|                 | 6H   | 21.0             | 21.7 | 21.5 | 22.1 | 22.7 | 22.3           | 23.0 | 22.9 | 23.5 | 24.0 |
|                 | 8H   | 21.3             | 21.9 | 21.8 | 22.3 | 22.9 | 22.9           | 23.5 | 23.4 | 23.9 | 24.5 |

(END OF REPORT)