

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: P1590008

Luminaire Tested: 24CZSP-SB-75-L945-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1590008  
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-L945-S  
Description: 2x4 CZSP LED Luminaire, 4500K CCT and 7500 lumens, 90CRI, Smooth Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

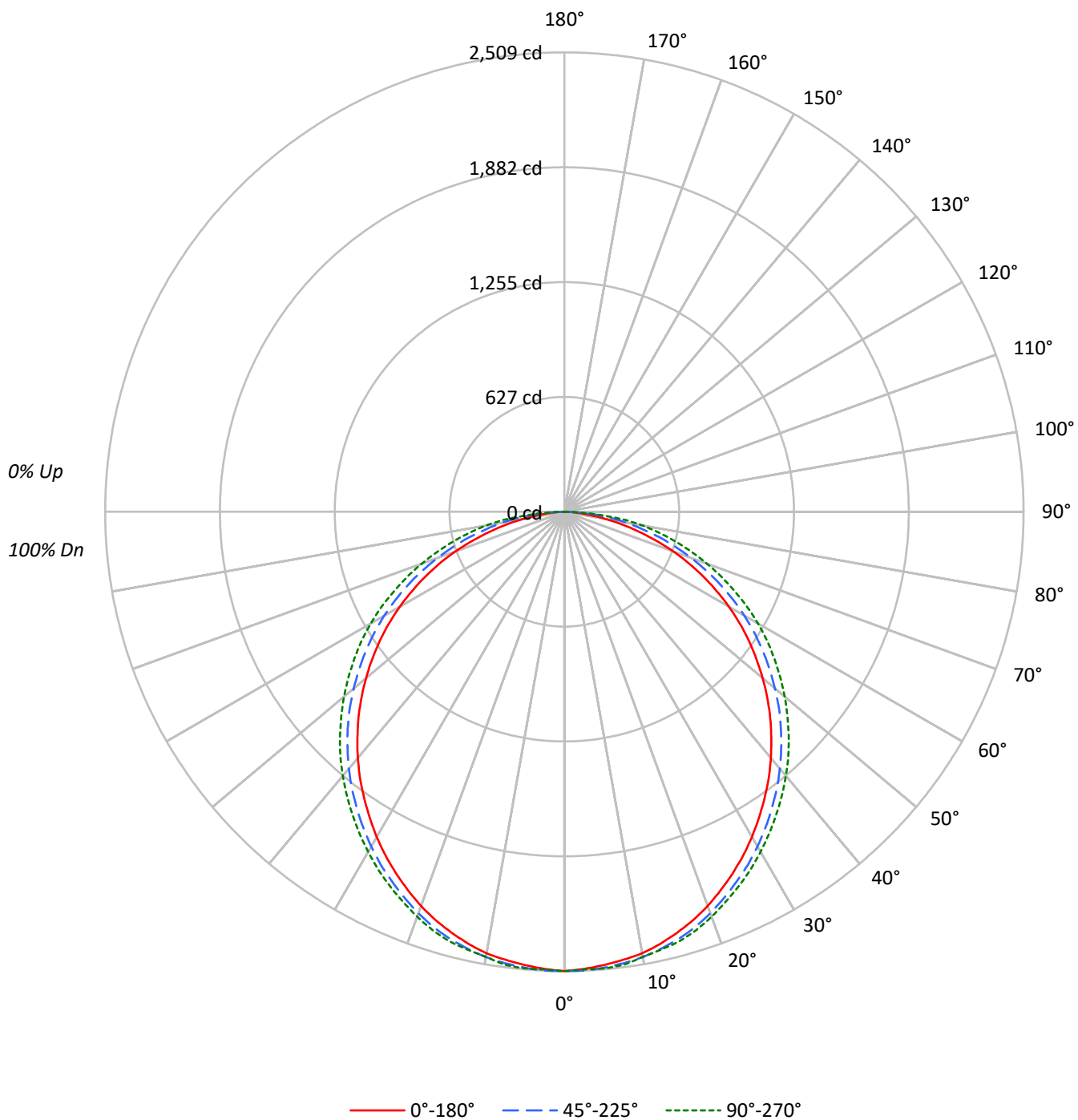
Lumens per Lamp: N/A  
Luminaire Lumens: 7298.0 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

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°  | 3843 | 3843 | 3843 |
| 5°  | 3821 | 3843 | 3850 |
| 10° | 3809 | 3841 | 3838 |
| 15° | 3774 | 3829 | 3851 |
| 20° | 3733 | 3803 | 3836 |
| 25° | 3680 | 3765 | 3813 |
| 30° | 3626 | 3732 | 3793 |
| 35° | 3567 | 3696 | 3775 |
| 40° | 3509 | 3663 | 3764 |
| 45° | 3445 | 3625 | 3754 |
| 50° | 3370 | 3580 | 3745 |
| 55° | 3287 | 3534 | 3739 |
| 60° | 3184 | 3482 | 3741 |
| 65° | 3038 | 3408 | 3721 |
| 70° | 2841 | 3304 | 3712 |
| 75° | 2518 | 3177 | 3726 |
| 80° | 2050 | 3019 | 3836 |
| 85° | 1325 | 2787 | 3311 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3888 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 237.4  | 3.3       |
| 10°-20°   | 679.9  | 9.3       |
| 20°-30°   | 1025.1 | 14.0      |
| 30°-40°   | 1233.4 | 16.9      |
| 40°-50°   | 1286.6 | 17.6      |
| 50°-60°   | 1179.3 | 16.2      |
| 60°-70°   | 926.0  | 12.7      |
| 70°-80°   | 563.6  | 7.7       |
| 80°-90°   | 166.7  | 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°    | 1942.4 | 26.6      |
| 0°-40°    | 3175.8 | 43.5      |
| 0°-60°    | 5641.6 | 77.3      |
| 0°-90°    | 7298.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7298.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2509 | 2509  | 2509 | 2509  | 2509 |      |
| 5°  | 2485 | 2501  | 2499 | 2496  | 2504 | 236  |
| 15° | 2380 | 2404  | 2415 | 2418  | 2429 | 671  |
| 25° | 2178 | 2207  | 2228 | 2242  | 2256 | 1003 |
| 35° | 1908 | 1937  | 1977 | 2005  | 2019 | 1194 |
| 45° | 1590 | 1623  | 1674 | 1713  | 1733 | 1226 |
| 55° | 1231 | 1262  | 1324 | 1377  | 1400 | 1100 |
| 65° | 838  | 870   | 940  | 1003  | 1027 | 829  |
| 75° | 426  | 465   | 537  | 601   | 630  | 451  |
| 85° | 75   | 107   | 159  | 177   | 188  | 98   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2508.8 | 2508.8 | 2508.8 | 2508.8 | 2508.8 |
| 2.5°  | 2499.4 | 2511.9 | 2508.8 | 2497.8 | 2502.5 |
| 5°    | 2485.3 | 2500.9 | 2499.4 | 2496.2 | 2504.1 |
| 7.5°  | 2468.0 | 2485.3 | 2486.8 | 2486.8 | 2496.2 |
| 10°   | 2449.1 | 2466.4 | 2469.6 | 2464.8 | 2468.0 |
| 12.5° | 2417.7 | 2438.2 | 2444.4 | 2444.4 | 2449.1 |
| 15°   | 2380.1 | 2403.6 | 2414.6 | 2417.7 | 2428.7 |
| 17.5° | 2339.2 | 2364.4 | 2378.5 | 2386.3 | 2395.8 |
| 20°   | 2290.6 | 2317.3 | 2333.0 | 2342.4 | 2353.4 |
| 22.5° | 2235.6 | 2265.5 | 2282.7 | 2292.1 | 2304.7 |
| 25°   | 2177.5 | 2207.4 | 2227.8 | 2241.9 | 2256.0 |
| 27.5° | 2116.3 | 2144.6 | 2172.8 | 2190.1 | 2202.7 |
| 30°   | 2050.4 | 2080.2 | 2110.0 | 2132.0 | 2144.6 |
| 32.5° | 1979.7 | 2011.1 | 2045.7 | 2069.2 | 2083.3 |
| 35°   | 1907.5 | 1937.3 | 1976.6 | 2004.8 | 2019.0 |
| 37.5° | 1833.7 | 1865.1 | 1905.9 | 1935.8 | 1953.0 |
| 40°   | 1755.2 | 1788.2 | 1832.1 | 1865.1 | 1882.4 |
| 42.5° | 1673.6 | 1705.0 | 1753.6 | 1791.3 | 1811.7 |
| 45°   | 1590.4 | 1623.3 | 1673.6 | 1712.8 | 1733.2 |
| 47.5° | 1504.0 | 1535.4 | 1590.4 | 1635.9 | 1653.2 |
| 50°   | 1414.5 | 1444.4 | 1502.5 | 1551.1 | 1571.5 |
| 52.5° | 1323.5 | 1354.9 | 1413.0 | 1464.8 | 1486.8 |
| 55°   | 1230.9 | 1262.2 | 1323.5 | 1376.9 | 1400.4 |
| 57.5° | 1136.7 | 1168.1 | 1230.9 | 1285.8 | 1314.1 |
| 60°   | 1039.3 | 1070.7 | 1136.7 | 1193.2 | 1221.4 |
| 62.5° | 938.8  | 971.8  | 1039.3 | 1097.4 | 1127.2 |
| 65°   | 838.4  | 869.8  | 940.4  | 1003.2 | 1026.8 |
| 67.5° | 737.9  | 769.3  | 838.4  | 901.2  | 929.4  |
| 70°   | 634.3  | 670.4  | 737.9  | 803.8  | 828.9  |
| 72.5° | 525.9  | 566.8  | 634.3  | 703.3  | 728.5  |
| 75°   | 425.5  | 464.7  | 536.9  | 601.3  | 629.6  |
| 77.5° | 326.6  | 368.9  | 436.4  | 502.4  | 530.6  |
| 80°   | 232.4  | 273.2  | 342.3  | 405.1  | 434.9  |
| 82.5° | 147.6  | 183.7  | 252.8  | 309.3  | 331.3  |
| 85°   | 75.4   | 106.8  | 158.6  | 177.4  | 188.4  |
| 87.5° | 22.0   | 37.7   | 56.5   | 70.6   | 78.5   |
| 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             | 17.8 | 16.5 | 18.2 | 18.5 | 16.9           | 18.6 | 17.3 | 18.9 | 19.2 |
|                 | 3H   | 17.9             | 19.5 | 18.3 | 19.8 | 20.1 | 19.0           | 20.5 | 19.4 | 20.8 | 21.2 |
|                 | 4H   | 18.6             | 20.0 | 19.0 | 20.3 | 20.7 | 19.9           | 21.3 | 20.3 | 21.6 | 22.0 |
|                 | 6H   | 19.0             | 20.3 | 19.4 | 20.7 | 21.0 | 20.6           | 21.9 | 21.0 | 22.3 | 22.7 |
|                 | 8H   | 19.1             | 20.3 | 19.5 | 20.7 | 21.1 | 20.9           | 22.2 | 21.3 | 22.5 | 22.9 |
|                 | 12H  | 19.1             | 20.3 | 19.6 | 20.7 | 21.1 | 21.1           | 22.3 | 21.5 | 22.7 | 23.1 |
| 4H              | 2H   | 16.9             | 18.4 | 17.3 | 18.7 | 19.1 | 17.5           | 18.9 | 17.9 | 19.3 | 19.7 |
|                 | 3H   | 18.9             | 20.1 | 19.3 | 20.5 | 20.9 | 19.8           | 21.0 | 20.2 | 21.4 | 21.8 |
|                 | 4H   | 19.7             | 20.8 | 20.1 | 21.2 | 21.6 | 20.8           | 21.9 | 21.3 | 22.3 | 22.8 |
|                 | 6H   | 20.2             | 21.2 | 20.7 | 21.6 | 22.1 | 21.8           | 22.7 | 22.2 | 23.1 | 23.6 |
|                 | 8H   | 20.3             | 21.2 | 20.8 | 21.7 | 22.1 | 22.1           | 23.0 | 22.6 | 23.5 | 23.9 |
|                 | 12H  | 20.4             | 21.2 | 20.9 | 21.7 | 22.2 | 22.4           | 23.2 | 22.9 | 23.6 | 24.1 |
| 8H              | 4H   | 20.1             | 21.0 | 20.6 | 21.5 | 21.9 | 21.1           | 22.0 | 21.6 | 22.5 | 22.9 |
|                 | 6H   | 20.8             | 21.5 | 21.3 | 22.0 | 22.5 | 22.2           | 22.9 | 22.7 | 23.4 | 23.9 |
|                 | 8H   | 21.0             | 21.7 | 21.5 | 22.2 | 22.7 | 22.7           | 23.3 | 23.2 | 23.8 | 24.3 |
|                 | 12H  | 21.1             | 21.7 | 21.6 | 22.2 | 22.8 | 23.0           | 23.6 | 23.5 | 24.1 | 24.7 |
| 12H             | 4H   | 20.2             | 21.0 | 20.7 | 21.5 | 21.9 | 21.2           | 22.0 | 21.7 | 22.4 | 22.9 |
|                 | 6H   | 20.9             | 21.6 | 21.4 | 22.1 | 22.6 | 22.3           | 22.9 | 22.8 | 23.4 | 23.9 |
|                 | 8H   | 21.2             | 21.8 | 21.7 | 22.3 | 22.8 | 22.8           | 23.4 | 23.3 | 23.9 | 24.4 |

(END OF REPORT)