

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: P1590011

Luminaire Tested: 24CZSP-SB-75-L950

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1590011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 24CZSP-SB-75-L950  
Description: 2x4 CZSP LED Luminaire, 5000K CCT and 7500 lumens, 90CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

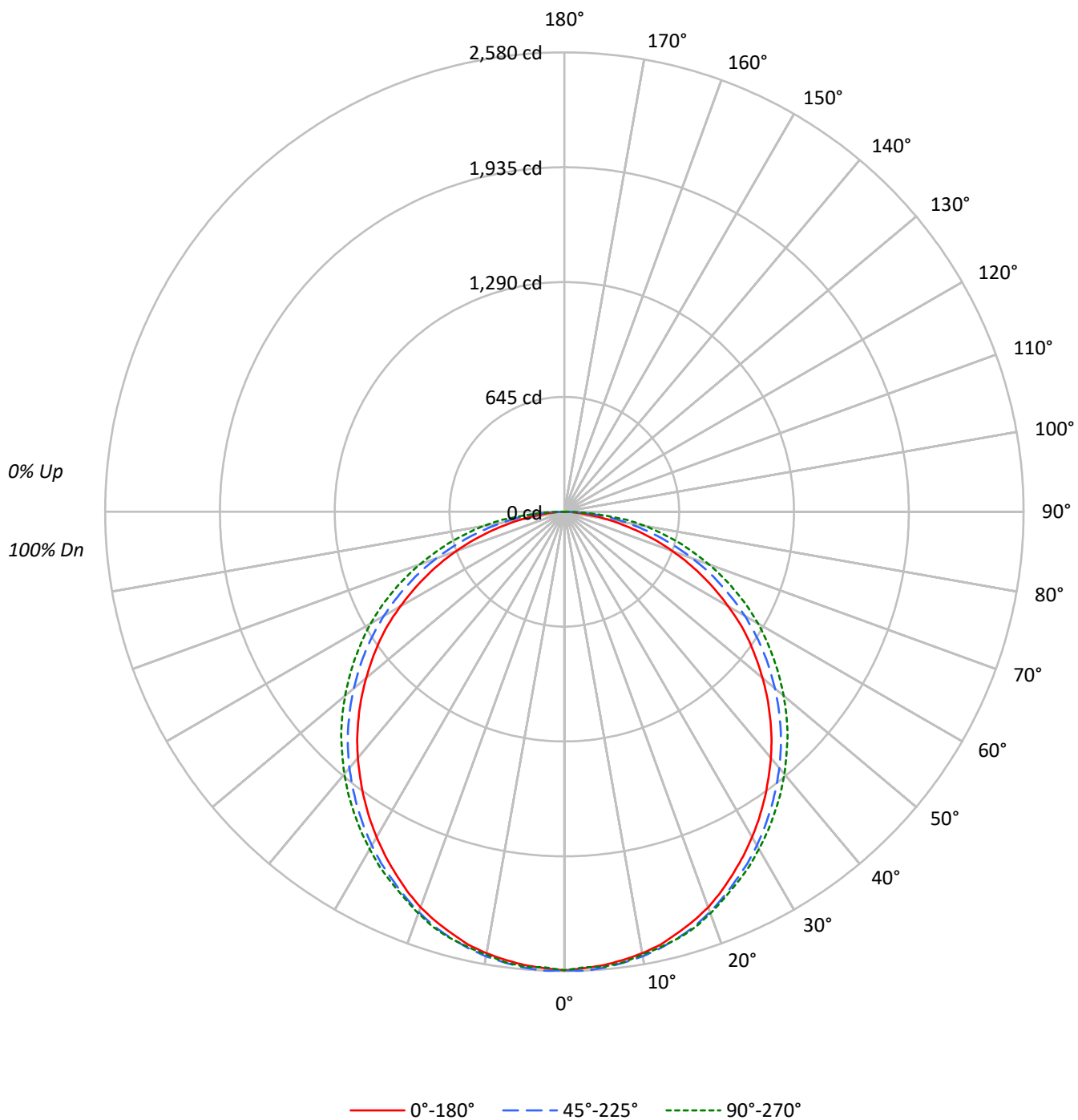
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7515.0 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 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

TEST NUMBER: P1590011  
CATALOG NUMBER: 24CZSP-SB-75-L950

### Luminous Intensity Polar Plot



TEST NUMBER: P1590011

CATALOG NUMBER: 24CZSP-SB-75-L950

**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  | 93  | 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  | 68  |
| 3   | 89  | 79  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  |  | 71  | 65  | 61  |  | 69  | 64  | 60  | 57  |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 52  |  | 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  | 44  | 39  |  | 50  | 44  | 39  | 37  |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  |  | 47  | 40  | 35  |  | 45  | 39  | 34  | 32  |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  | 35  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  |  | 37  | 30  | 25  |  | 36  | 30  | 25  | 23  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3944 | 3944 | 3944 |
| 5°  | 3930 | 3952 | 3942 |
| 10° | 3916 | 3943 | 3928 |
| 15° | 3886 | 3927 | 3932 |
| 20° | 3852 | 3899 | 3912 |
| 25° | 3790 | 3857 | 3884 |
| 30° | 3730 | 3826 | 3868 |
| 35° | 3670 | 3789 | 3854 |
| 40° | 3610 | 3756 | 3845 |
| 45° | 3542 | 3721 | 3841 |
| 50° | 3464 | 3680 | 3832 |
| 55° | 3385 | 3640 | 3831 |
| 60° | 3260 | 3586 | 3854 |
| 65° | 3107 | 3516 | 3856 |
| 70° | 2899 | 3419 | 3868 |
| 75° | 2579 | 3294 | 3934 |
| 80° | 2119 | 3157 | 4082 |
| 85° | 1397 | 2963 | 3690 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4181 cd/sqm

TEST NUMBER: P1590011

CATALOG NUMBER: 24CZSP-SB-75-L950

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 243.6  | 3.2       |
| 10°-20°   | 697.2  | 9.3       |
| 20°-30°   | 1050.9 | 14.0      |
| 30°-40°   | 1265.6 | 16.8      |
| 40°-50°   | 1322.2 | 17.6      |
| 50°-60°   | 1214.7 | 16.2      |
| 60°-70°   | 956.6  | 12.7      |
| 70°-80°   | 586.5  | 7.8       |
| 80°-90°   | 177.8  | 2.4       |
| 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°-30°    | 1991.7 | 26.5      |
| 0°-40°    | 3257.3 | 43.3      |
| 0°-60°    | 5794.2 | 77.1      |
| 0°-90°    | 7515.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7515.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2575 | 2575  | 2575 | 2575  | 2575 |      |
| 5°  | 2556 | 2561  | 2570 | 2567  | 2564 | 243  |
| 15° | 2451 | 2461  | 2476 | 2486  | 2480 | 692  |
| 25° | 2243 | 2257  | 2282 | 2306  | 2298 | 1034 |
| 35° | 1963 | 1988  | 2026 | 2063  | 2061 | 1228 |
| 45° | 1635 | 1670  | 1718 | 1766  | 1774 | 1261 |
| 55° | 1268 | 1304  | 1363 | 1422  | 1435 | 1131 |
| 65° | 857  | 902   | 970  | 1035  | 1064 | 848  |
| 75° | 436  | 487   | 557  | 624   | 665  | 463  |
| 85° | 80   | 118   | 169  | 188   | 210  | 102  |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1590011

CATALOG NUMBER: 24CZSP-SB-75-L950

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2575.1 | 2575.1 | 2575.1 | 2575.1 | 2575.1 |
| 2.5°  | 2565.5 | 2571.9 | 2579.9 | 2567.1 | 2560.8 |
| 5°    | 2556.0 | 2560.8 | 2570.3 | 2567.1 | 2564.0 |
| 7.5°  | 2538.5 | 2541.7 | 2554.4 | 2554.4 | 2551.2 |
| 10°   | 2517.8 | 2524.2 | 2535.3 | 2533.7 | 2525.8 |
| 12.5° | 2490.8 | 2495.6 | 2508.3 | 2508.3 | 2503.5 |
| 15°   | 2451.0 | 2460.6 | 2476.5 | 2486.0 | 2479.7 |
| 17.5° | 2409.7 | 2419.2 | 2439.9 | 2449.4 | 2446.3 |
| 20°   | 2363.5 | 2371.5 | 2392.2 | 2406.5 | 2400.1 |
| 22.5° | 2306.3 | 2315.8 | 2339.7 | 2355.6 | 2349.2 |
| 25°   | 2242.7 | 2257.0 | 2282.4 | 2306.3 | 2298.3 |
| 27.5° | 2179.0 | 2194.9 | 2226.8 | 2250.6 | 2247.4 |
| 30°   | 2109.1 | 2129.7 | 2163.1 | 2193.4 | 2187.0 |
| 32.5° | 2037.5 | 2061.3 | 2096.3 | 2128.1 | 2126.6 |
| 35°   | 1962.7 | 1988.2 | 2026.4 | 2062.9 | 2061.3 |
| 37.5° | 1883.2 | 1913.4 | 1953.2 | 1993.0 | 1994.5 |
| 40°   | 1805.3 | 1833.9 | 1878.4 | 1921.4 | 1923.0 |
| 42.5° | 1722.6 | 1752.8 | 1800.5 | 1845.0 | 1846.6 |
| 45°   | 1635.1 | 1670.1 | 1717.8 | 1765.5 | 1773.5 |
| 47.5° | 1546.0 | 1582.6 | 1631.9 | 1682.8 | 1692.3 |
| 50°   | 1453.8 | 1491.9 | 1544.4 | 1598.5 | 1608.0 |
| 52.5° | 1359.9 | 1399.7 | 1453.8 | 1507.8 | 1522.2 |
| 55°   | 1267.7 | 1304.2 | 1363.1 | 1421.9 | 1434.7 |
| 57.5° | 1170.6 | 1204.0 | 1267.7 | 1329.7 | 1345.6 |
| 60°   | 1064.1 | 1105.4 | 1170.6 | 1232.7 | 1258.1 |
| 62.5° | 960.7  | 1005.2 | 1072.0 | 1134.1 | 1162.7 |
| 65°   | 857.3  | 901.8  | 970.2  | 1035.4 | 1064.1 |
| 67.5° | 752.3  | 798.5  | 871.6  | 933.6  | 965.5  |
| 70°   | 647.4  | 693.5  | 763.5  | 830.3  | 863.7  |
| 72.5° | 542.4  | 591.7  | 660.1  | 728.5  | 761.9  |
| 75°   | 435.8  | 486.7  | 556.7  | 623.5  | 664.8  |
| 77.5° | 335.6  | 384.9  | 454.9  | 523.3  | 558.3  |
| 80°   | 240.2  | 289.5  | 357.9  | 426.3  | 462.8  |
| 82.5° | 152.7  | 198.8  | 265.6  | 322.9  | 356.3  |
| 85°   | 79.5   | 117.7  | 168.6  | 187.7  | 210.0  |
| 87.5° | 23.9   | 46.1   | 65.2   | 73.2   | 90.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1590011

CATALOG NUMBER: 24CZSP-SB-75-L950

**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 | 16.3             | 17.9 | 16.6 | 18.3 | 18.6 | 17.0           | 18.7 | 17.4 | 19.0 | 19.3 |
|                 | 3H   | 18.0             | 19.6 | 18.4 | 19.9 | 20.2 | 19.1           | 20.6 | 19.5 | 21.0 | 21.3 |
|                 | 4H   | 18.7             | 20.1 | 19.1 | 20.4 | 20.8 | 20.0           | 21.4 | 20.4 | 21.8 | 22.2 |
|                 | 6H   | 19.1             | 20.4 | 19.5 | 20.8 | 21.2 | 20.8           | 22.1 | 21.2 | 22.5 | 22.8 |
|                 | 8H   | 19.2             | 20.4 | 19.6 | 20.8 | 21.2 | 21.1           | 22.3 | 21.5 | 22.7 | 23.1 |
|                 | 12H  | 19.2             | 20.4 | 19.7 | 20.8 | 21.3 | 21.3           | 22.5 | 21.7 | 22.9 | 23.3 |
| 4H              | 2H   | 17.1             | 18.5 | 17.4 | 18.8 | 19.2 | 17.6           | 19.1 | 18.0 | 19.4 | 19.8 |
|                 | 3H   | 19.0             | 20.2 | 19.5 | 20.6 | 21.0 | 20.0           | 21.2 | 20.4 | 21.6 | 22.0 |
|                 | 4H   | 19.8             | 20.9 | 20.2 | 21.3 | 21.7 | 21.0           | 22.1 | 21.4 | 22.5 | 22.9 |
|                 | 6H   | 20.3             | 21.3 | 20.8 | 21.7 | 22.2 | 21.9           | 22.9 | 22.4 | 23.3 | 23.8 |
|                 | 8H   | 20.5             | 21.4 | 20.9 | 21.8 | 22.3 | 22.3           | 23.2 | 22.8 | 23.6 | 24.1 |
|                 | 12H  | 20.6             | 21.4 | 21.0 | 21.8 | 22.3 | 22.6           | 23.4 | 23.1 | 23.9 | 24.3 |
| 8H              | 4H   | 20.3             | 21.1 | 20.7 | 21.6 | 22.0 | 21.3           | 22.2 | 21.8 | 22.6 | 23.1 |
|                 | 6H   | 20.9             | 21.7 | 21.4 | 22.2 | 22.6 | 22.4           | 23.1 | 22.9 | 23.6 | 24.1 |
|                 | 8H   | 21.1             | 21.8 | 21.7 | 22.3 | 22.8 | 22.9           | 23.5 | 23.4 | 24.0 | 24.5 |
|                 | 12H  | 21.3             | 21.9 | 21.8 | 22.4 | 22.9 | 23.2           | 23.8 | 23.7 | 24.3 | 24.9 |
| 12H             | 4H   | 20.3             | 21.1 | 20.8 | 21.6 | 22.1 | 21.3           | 22.1 | 21.8 | 22.6 | 23.1 |
|                 | 6H   | 21.1             | 21.7 | 21.6 | 22.2 | 22.7 | 22.4           | 23.1 | 23.0 | 23.6 | 24.1 |
|                 | 8H   | 21.3             | 21.9 | 21.9 | 22.4 | 23.0 | 23.0           | 23.6 | 23.5 | 24.1 | 24.6 |

(END OF REPORT)