

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P1587762

Luminaire Tested: 22CZSP-SB-52-L930-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1587762  
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: 22CZSP-SB-52-L930-S  
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 5000 lumens, 90CRI, Smooth Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

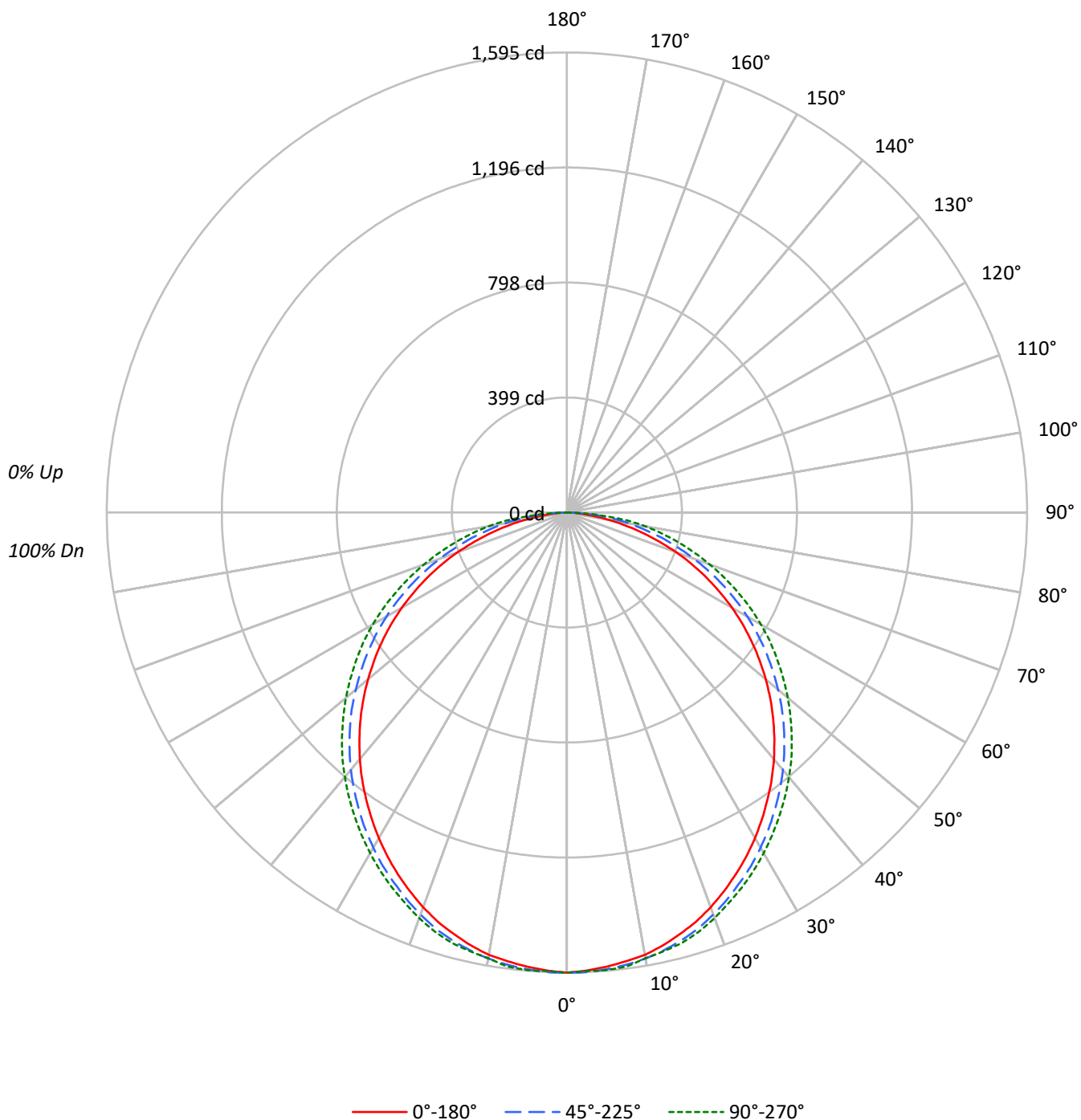
Lumens per Lamp: N/A  
Luminaire Lumens: 4641.0 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.2  
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: 24 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°  | 4996 | 4996 | 4996 |
| 5°  | 4968 | 4996 | 5005 |
| 10° | 4952 | 4994 | 4990 |
| 15° | 4906 | 4978 | 5007 |
| 20° | 4854 | 4944 | 4987 |
| 25° | 4785 | 4895 | 4957 |
| 30° | 4715 | 4852 | 4931 |
| 35° | 4637 | 4805 | 4908 |
| 40° | 4563 | 4763 | 4893 |
| 45° | 4479 | 4713 | 4881 |
| 50° | 4382 | 4655 | 4869 |
| 55° | 4273 | 4595 | 4862 |
| 60° | 4139 | 4527 | 4864 |
| 65° | 3950 | 4431 | 4838 |
| 70° | 3692 | 4296 | 4826 |
| 75° | 3274 | 4130 | 4844 |
| 80° | 2665 | 3924 | 4988 |
| 85° | 1721 | 3622 | 4304 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5055 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 151.0  | 3.3       |
| 10°-20°   | 432.4  | 9.3       |
| 20°-30°   | 651.9  | 14.0      |
| 30°-40°   | 784.4  | 16.9      |
| 40°-50°   | 818.2  | 17.6      |
| 50°-60°   | 749.9  | 16.2      |
| 60°-70°   | 588.9  | 12.7      |
| 70°-80°   | 358.4  | 7.7       |
| 80°-90°   | 106.0  | 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°    | 1235.2 | 26.6      |
| 0°-40°    | 2019.6 | 43.5      |
| 0°-60°    | 3587.7 | 77.3      |
| 0°-90°    | 4641.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4641.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1595 | 1595  | 1595 | 1595  | 1595 |      |
| 5°  | 1580 | 1590  | 1589 | 1587  | 1592 | 150  |
| 15° | 1514 | 1528  | 1536 | 1538  | 1544 | 427  |
| 25° | 1385 | 1404  | 1417 | 1426  | 1435 | 638  |
| 35° | 1213 | 1232  | 1257 | 1275  | 1284 | 759  |
| 45° | 1011 | 1032  | 1064 | 1089  | 1102 | 780  |
| 55° | 783  | 803   | 842  | 876   | 891  | 699  |
| 65° | 533  | 553   | 598  | 638   | 653  | 527  |
| 75° | 271  | 296   | 341  | 382   | 400  | 287  |
| 85° | 48   | 68    | 101  | 113   | 120  | 62   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1595.4 | 1595.4 | 1595.4 | 1595.4 | 1595.4 |
| 2.5°  | 1589.4 | 1597.4 | 1595.4 | 1588.4 | 1591.4 |
| 5°    | 1580.4 | 1590.4 | 1589.4 | 1587.4 | 1592.4 |
| 7.5°  | 1569.5 | 1580.4 | 1581.4 | 1581.4 | 1587.4 |
| 10°   | 1557.5 | 1568.5 | 1570.5 | 1567.5 | 1569.5 |
| 12.5° | 1537.5 | 1550.5 | 1554.5 | 1554.5 | 1557.5 |
| 15°   | 1513.5 | 1528.5 | 1535.5 | 1537.5 | 1544.5 |
| 17.5° | 1487.6 | 1503.6 | 1512.5 | 1517.5 | 1523.5 |
| 20°   | 1456.6 | 1473.6 | 1483.6 | 1489.6 | 1496.6 |
| 22.5° | 1421.7 | 1440.7 | 1451.6 | 1457.6 | 1465.6 |
| 25°   | 1384.8 | 1403.7 | 1416.7 | 1425.7 | 1434.7 |
| 27.5° | 1345.8 | 1363.8 | 1381.8 | 1392.7 | 1400.7 |
| 30°   | 1303.9 | 1322.9 | 1341.8 | 1355.8 | 1363.8 |
| 32.5° | 1259.0 | 1278.9 | 1300.9 | 1315.9 | 1324.9 |
| 35°   | 1213.0 | 1232.0 | 1257.0 | 1274.9 | 1283.9 |
| 37.5° | 1166.1 | 1186.1 | 1212.0 | 1231.0 | 1242.0 |
| 40°   | 1116.2 | 1137.2 | 1165.1 | 1186.1 | 1197.1 |
| 42.5° | 1064.3 | 1084.2 | 1115.2 | 1139.2 | 1152.1 |
| 45°   | 1011.4 | 1032.3 | 1064.3 | 1089.2 | 1102.2 |
| 47.5° | 956.5  | 976.4  | 1011.4 | 1040.3 | 1051.3 |
| 50°   | 899.5  | 918.5  | 955.5  | 986.4  | 999.4  |
| 52.5° | 841.6  | 861.6  | 898.5  | 931.5  | 945.5  |
| 55°   | 782.7  | 802.7  | 841.6  | 875.6  | 890.6  |
| 57.5° | 722.8  | 742.8  | 782.7  | 817.7  | 835.6  |
| 60°   | 660.9  | 680.9  | 722.8  | 758.8  | 776.7  |
| 62.5° | 597.0  | 618.0  | 660.9  | 697.9  | 716.8  |
| 65°   | 533.1  | 553.1  | 598.0  | 638.0  | 652.9  |
| 67.5° | 469.2  | 489.2  | 533.1  | 573.1  | 591.0  |
| 70°   | 403.3  | 426.3  | 469.2  | 511.2  | 527.1  |
| 72.5° | 334.5  | 360.4  | 403.3  | 447.3  | 463.2  |
| 75°   | 270.6  | 295.5  | 341.4  | 382.4  | 400.4  |
| 77.5° | 207.7  | 234.6  | 277.6  | 319.5  | 337.5  |
| 80°   | 147.8  | 173.7  | 217.6  | 257.6  | 276.6  |
| 82.5° | 93.8   | 116.8  | 160.7  | 196.7  | 210.7  |
| 85°   | 47.9   | 67.9   | 100.8  | 112.8  | 119.8  |
| 87.5° | 14.0   | 24.0   | 35.9   | 44.9   | 49.9   |
| 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 | 17.09            | 18.75 | 17.45 | 19.06 | 19.38 | 17.82          | 19.48 | 18.19 | 19.80 | 20.11 |
|                 | 3H   | 18.86            | 20.36 | 19.23 | 20.69 | 21.05 | 19.90          | 21.41 | 20.28 | 21.73 | 22.09 |
|                 | 4H   | 19.48            | 20.90 | 19.87 | 21.24 | 21.62 | 20.77          | 22.19 | 21.17 | 22.53 | 22.91 |
|                 | 6H   | 19.88            | 21.20 | 20.30 | 21.57 | 21.96 | 21.51          | 22.83 | 21.92 | 23.19 | 23.58 |
|                 | 8H   | 19.99            | 21.25 | 20.41 | 21.64 | 22.03 | 21.81          | 23.07 | 22.23 | 23.46 | 23.85 |
|                 | 12H  | 20.04            | 21.24 | 20.47 | 21.63 | 22.05 | 22.00          | 23.21 | 22.43 | 23.59 | 24.02 |
| 4H              | 2H   | 17.86            | 19.28 | 18.25 | 19.62 | 20.00 | 18.43          | 19.85 | 18.83 | 20.19 | 20.57 |
|                 | 3H   | 19.85            | 21.04 | 20.26 | 21.44 | 21.84 | 20.74          | 21.94 | 21.15 | 22.33 | 22.73 |
|                 | 4H   | 20.59            | 21.67 | 21.02 | 22.09 | 22.52 | 21.76          | 22.84 | 22.19 | 23.26 | 23.69 |
|                 | 6H   | 21.12            | 22.07 | 21.57 | 22.51 | 22.96 | 22.67          | 23.61 | 23.12 | 24.05 | 24.51 |
|                 | 8H   | 21.26            | 22.15 | 21.72 | 22.59 | 23.06 | 23.03          | 23.92 | 23.49 | 24.36 | 24.83 |
|                 | 12H  | 21.34            | 22.14 | 21.82 | 22.62 | 23.08 | 23.29          | 24.09 | 23.77 | 24.56 | 25.03 |
| 8H              | 4H   | 21.04            | 21.93 | 21.49 | 22.37 | 22.83 | 22.06          | 22.95 | 22.52 | 23.39 | 23.85 |
|                 | 6H   | 21.70            | 22.44 | 22.19 | 22.93 | 23.40 | 23.11          | 23.86 | 23.61 | 24.34 | 24.82 |
|                 | 8H   | 21.91            | 22.57 | 22.42 | 23.08 | 23.56 | 23.59          | 24.25 | 24.09 | 24.76 | 25.24 |
|                 | 12H  | 22.04            | 22.63 | 22.55 | 23.12 | 23.68 | 23.94          | 24.53 | 24.44 | 25.02 | 25.58 |
| 12H             | 4H   | 21.12            | 21.92 | 21.60 | 22.39 | 22.86 | 22.08          | 22.88 | 22.56 | 23.36 | 23.83 |
|                 | 6H   | 21.82            | 22.49 | 22.33 | 22.99 | 23.48 | 23.17          | 23.83 | 23.67 | 24.34 | 24.82 |
|                 | 8H   | 22.10            | 22.69 | 22.61 | 23.18 | 23.74 | 23.70          | 24.29 | 24.21 | 24.78 | 25.34 |