

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: P1585752

Luminaire Tested: 14CZSP-SB-52-L830-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1585752  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-SB-52-L830-S  
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4500 lumens, 80CRI, Smooth Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

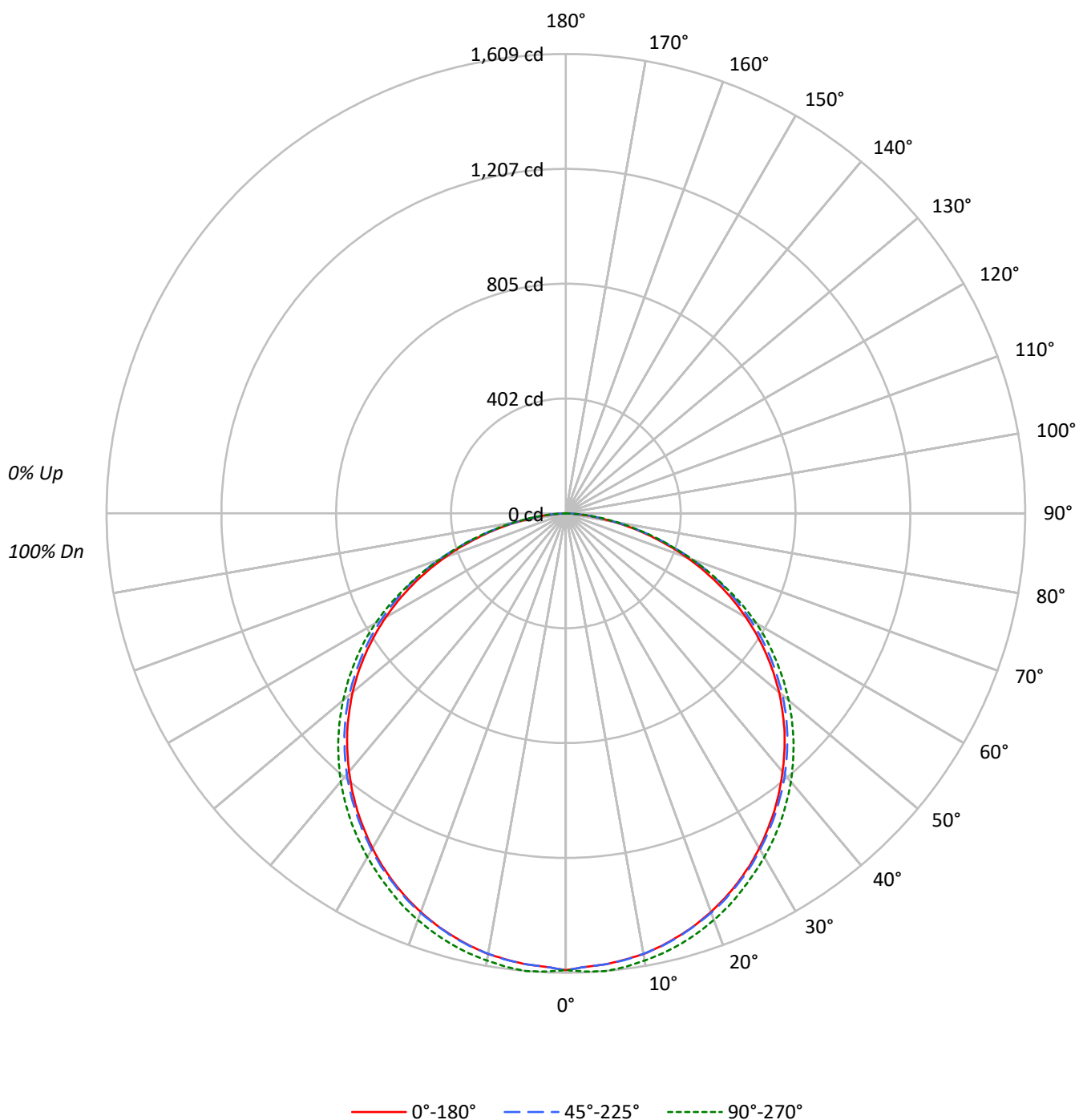
Lumens per Lamp: N/A  
Luminaire Lumens: 4721.0 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.9  
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   | 109 | 104 | 99  | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 93  | 91  | 88  |  | 90  | 88  | 86  | 84  |
| 2   | 99  | 90  | 83  | 77  | 96  | 88  | 82  | 77  | 85  | 79  | 75  |  | 81  | 77  | 73  |  | 78  | 75  | 71  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 64  | 74  | 68  | 62  |  | 72  | 66  | 61  |  | 69  | 64  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  |  | 64  | 57  | 52  |  | 61  | 56  | 52  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  |  | 57  | 50  | 45  |  | 55  | 49  | 45  | 43  |
| 6   | 70  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  |  | 52  | 45  | 40  |  | 50  | 44  | 39  | 37  |
| 7   | 64  | 51  | 42  | 36  | 63  | 50  | 41  | 35  | 48  | 41  | 35  |  | 47  | 40  | 35  |  | 46  | 39  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 37  | 32  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  | 36  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 55  | 42  | 34  | 28  | 41  | 33  | 28  |  | 40  | 33  | 28  |  | 39  | 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°  | 5391 | 5391 | 5391 |
| 5°  | 5365 | 5362 | 5443 |
| 10° | 5362 | 5360 | 5442 |
| 15° | 5346 | 5351 | 5444 |
| 20° | 5330 | 5340 | 5436 |
| 25° | 5303 | 5316 | 5418 |
| 30° | 5271 | 5294 | 5409 |
| 35° | 5236 | 5269 | 5406 |
| 40° | 5196 | 5250 | 5396 |
| 45° | 5164 | 5229 | 5374 |
| 50° | 5112 | 5192 | 5340 |
| 55° | 5032 | 5126 | 5287 |
| 60° | 4911 | 5038 | 5193 |
| 65° | 4726 | 4905 | 4957 |
| 70° | 4444 | 4651 | 4623 |
| 75° | 3990 | 4160 | 4188 |
| 80° | 3297 | 3466 | 3648 |
| 85° | 2208 | 2571 | 2710 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5374 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 151.6  | 3.2       |
| 10°-20°   | 435.8  | 9.2       |
| 20°-30°   | 663.7  | 14.1      |
| 30°-40°   | 807.7  | 17.1      |
| 40°-50°   | 851.5  | 18.0      |
| 50°-60°   | 784.3  | 16.6      |
| 60°-70°   | 605.7  | 12.8      |
| 70°-80°   | 339.0  | 7.2       |
| 80°-90°   | 81.7   | 1.7       |
| 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°    | 1251.1 | 26.5      |
| 0°-40°    | 2058.9 | 43.6      |
| 0°-60°    | 3694.6 | 78.3      |
| 0°-90°    | 4721.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4721.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1600 | 1600  | 1600 | 1600  | 1600 |      |
| 5°  | 1586 | 1608  | 1585 | 1588  | 1609 | 151  |
| 15° | 1532 | 1554  | 1534 | 1543  | 1561 | 433  |
| 25° | 1426 | 1446  | 1430 | 1439  | 1457 | 657  |
| 35° | 1273 | 1292  | 1281 | 1297  | 1314 | 796  |
| 45° | 1084 | 1099  | 1097 | 1114  | 1128 | 835  |
| 55° | 857  | 871   | 872  | 891   | 900  | 765  |
| 65° | 593  | 610   | 615  | 621   | 622  | 586  |
| 75° | 306  | 325   | 320  | 319   | 322  | 325  |
| 85° | 57   | 63    | 66   | 74    | 70   | 73   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1599.8 | 1599.8 | 1599.8 | 1599.8 | 1599.8 |
| 2.5°  | 1589.7 | 1612.8 | 1589.7 | 1593.3 | 1606.3 |
| 5°    | 1586.0 | 1608.4 | 1585.3 | 1587.5 | 1609.2 |
| 7.5°  | 1576.6 | 1599.8 | 1578.1 | 1581.0 | 1601.9 |
| 10°   | 1567.2 | 1588.2 | 1566.5 | 1570.1 | 1590.4 |
| 12.5° | 1551.3 | 1573.0 | 1552.8 | 1557.1 | 1577.4 |
| 15°   | 1532.5 | 1553.5 | 1534.0 | 1542.7 | 1560.7 |
| 17.5° | 1510.9 | 1531.1 | 1512.3 | 1522.4 | 1539.8 |
| 20°   | 1486.3 | 1505.8 | 1489.2 | 1496.4 | 1515.9 |
| 22.5° | 1457.4 | 1477.6 | 1461.7 | 1468.2 | 1489.2 |
| 25°   | 1426.3 | 1446.5 | 1429.9 | 1439.3 | 1457.4 |
| 27.5° | 1392.3 | 1411.8 | 1397.4 | 1408.9 | 1424.8 |
| 30°   | 1354.7 | 1373.5 | 1360.5 | 1374.2 | 1390.1 |
| 32.5° | 1314.2 | 1334.5 | 1321.5 | 1337.4 | 1353.3 |
| 35°   | 1273.0 | 1291.8 | 1281.0 | 1296.9 | 1314.2 |
| 37.5° | 1228.2 | 1246.3 | 1238.3 | 1255.0 | 1270.9 |
| 40°   | 1181.2 | 1201.5 | 1193.5 | 1210.9 | 1226.8 |
| 42.5° | 1132.8 | 1152.3 | 1145.8 | 1163.9 | 1177.6 |
| 45°   | 1083.6 | 1098.8 | 1097.4 | 1114.0 | 1127.7 |
| 47.5° | 1029.4 | 1048.2 | 1045.3 | 1061.9 | 1074.2 |
| 50°   | 975.2  | 990.4  | 990.4  | 1006.3 | 1018.6 |
| 52.5° | 916.6  | 931.8  | 931.8  | 950.6  | 960.7  |
| 55°   | 856.6  | 871.1  | 872.5  | 890.6  | 900.0  |
| 57.5° | 793.0  | 808.2  | 811.1  | 829.2  | 837.8  |
| 60°   | 728.7  | 743.1  | 747.5  | 765.5  | 770.6  |
| 62.5° | 661.5  | 678.8  | 681.0  | 695.4  | 698.3  |
| 65°   | 592.8  | 610.1  | 615.2  | 621.0  | 621.7  |
| 67.5° | 522.7  | 540.7  | 545.8  | 545.8  | 545.8  |
| 70°   | 451.1  | 467.7  | 472.1  | 469.2  | 469.2  |
| 72.5° | 378.8  | 396.9  | 394.7  | 391.8  | 393.3  |
| 75°   | 306.5  | 325.3  | 319.5  | 318.8  | 321.7  |
| 77.5° | 237.1  | 255.2  | 245.8  | 251.6  | 252.3  |
| 80°   | 169.9  | 183.6  | 178.6  | 187.2  | 188.0  |
| 82.5° | 109.2  | 117.8  | 119.3  | 126.5  | 124.3  |
| 85°   | 57.1   | 62.9   | 66.5   | 74.5   | 70.1   |
| 87.5° | 18.1   | 23.9   | 21.7   | 25.3   | 19.5   |
| 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 | 17.89            | 19.54 | 18.25 | 19.86 | 20.17 | 18.10          | 19.76 | 18.47 | 20.07 | 20.39 |
|                 | 3H   | 19.71            | 21.21 | 20.09 | 21.53 | 21.89 | 19.90          | 21.40 | 20.28 | 21.73 | 22.09 |
|                 | 4H   | 20.36            | 21.77 | 20.75 | 22.11 | 22.49 | 20.54          | 21.95 | 20.94 | 22.30 | 22.68 |
|                 | 6H   | 20.78            | 22.09 | 21.19 | 22.46 | 22.85 | 21.00          | 22.31 | 21.41 | 22.67 | 23.06 |
|                 | 8H   | 20.89            | 22.14 | 21.32 | 22.53 | 22.93 | 21.13          | 22.38 | 21.55 | 22.77 | 23.17 |
|                 | 12H  | 20.95            | 22.15 | 21.38 | 22.53 | 22.96 | 21.20          | 22.40 | 21.63 | 22.78 | 23.21 |
| 4H              | 2H   | 18.57            | 19.98 | 18.96 | 20.33 | 20.70 | 18.74          | 20.15 | 19.13 | 20.50 | 20.87 |
|                 | 3H   | 20.61            | 21.79 | 21.02 | 22.19 | 22.59 | 20.75          | 21.94 | 21.16 | 22.33 | 22.73 |
|                 | 4H   | 21.39            | 22.46 | 21.82 | 22.87 | 23.31 | 21.51          | 22.58 | 21.94 | 22.99 | 23.43 |
|                 | 6H   | 21.94            | 22.88 | 22.39 | 23.32 | 23.77 | 22.08          | 23.02 | 22.54 | 23.46 | 23.92 |
|                 | 8H   | 22.08            | 22.96 | 22.54 | 23.40 | 23.87 | 22.26          | 23.13 | 22.72 | 23.58 | 24.04 |
|                 | 12H  | 22.17            | 22.96 | 22.65 | 23.43 | 23.90 | 22.37          | 23.16 | 22.85 | 23.63 | 24.10 |
| 8H              | 4H   | 21.70            | 22.57 | 22.15 | 23.01 | 23.48 | 21.80          | 22.68 | 22.26 | 23.12 | 23.59 |
|                 | 6H   | 22.35            | 23.08 | 22.85 | 23.57 | 24.05 | 22.48          | 23.21 | 22.98 | 23.70 | 24.18 |
|                 | 8H   | 22.56            | 23.21 | 23.07 | 23.72 | 24.20 | 22.72          | 23.38 | 23.23 | 23.88 | 24.37 |
|                 | 12H  | 22.69            | 23.27 | 23.20 | 23.76 | 24.32 | 22.90          | 23.48 | 23.41 | 23.97 | 24.53 |
| 12H             | 4H   | 21.73            | 22.51 | 22.21 | 22.99 | 23.46 | 21.83          | 22.62 | 22.31 | 23.10 | 23.56 |
|                 | 6H   | 22.40            | 23.06 | 22.91 | 23.56 | 24.05 | 22.53          | 23.18 | 23.03 | 23.69 | 24.17 |
|                 | 8H   | 22.66            | 23.23 | 23.16 | 23.72 | 24.28 | 22.82          | 23.39 | 23.32 | 23.88 | 24.44 |