

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: P1585761

Luminaire Tested: 14CZSP-SB-52-L850

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1585761  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-SB-52-L850  
Description: 1x4 CZSP LED Luminaire, 5000K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

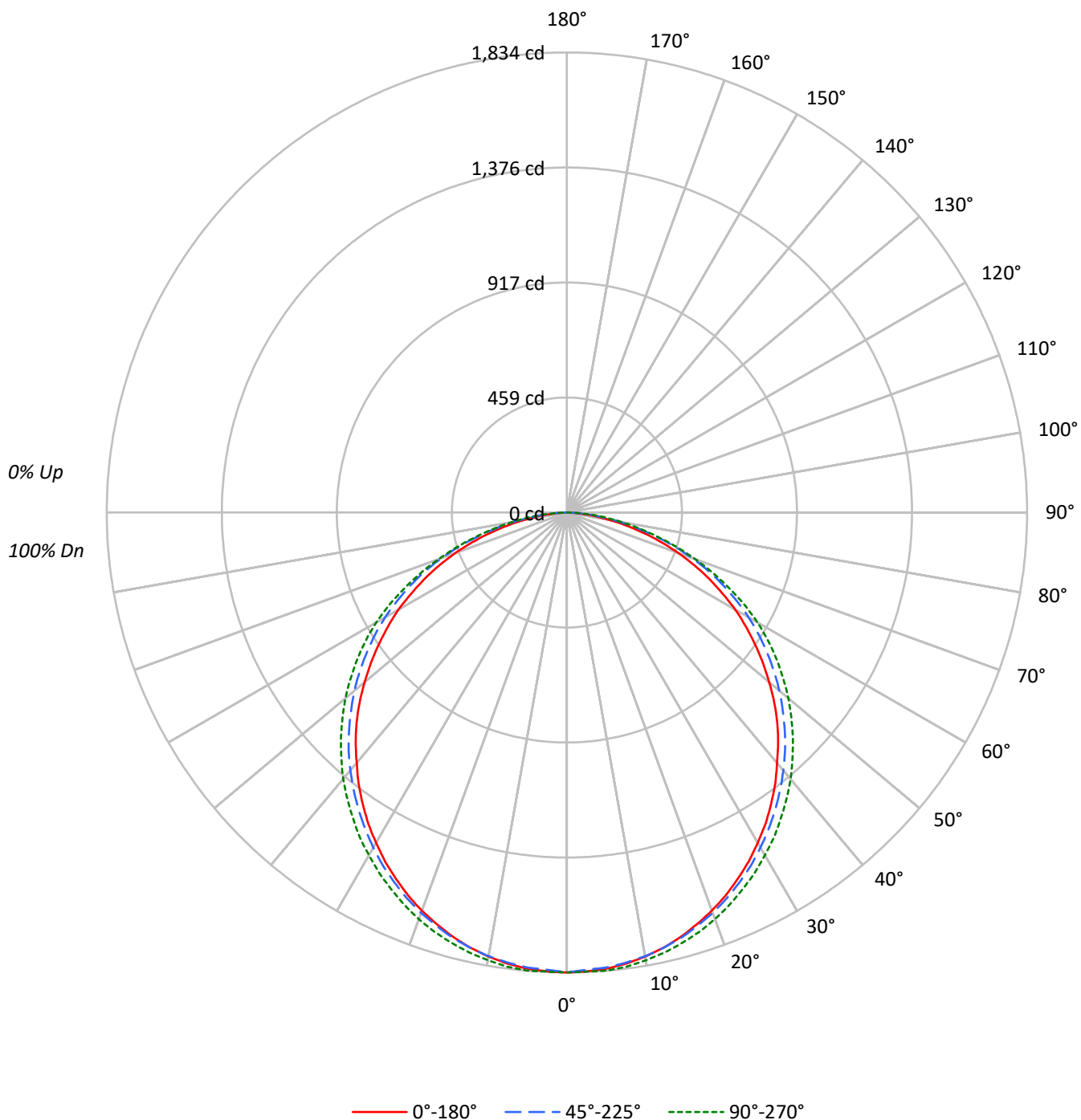
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5297.0 lumens  
Efficiency: N/A  
Efficacy: 143.5 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
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 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 93  | 91  | 88  |  | 90  | 88  | 86  | 84  |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 79  | 75  |  | 82  | 77  | 73  |  | 79  | 75  | 71  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 61  |  | 69  | 64  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  |  | 64  | 58  | 52  |  | 62  | 56  | 52  | 50  |
| 5   | 75  | 62  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  |  | 57  | 51  | 45  |  | 55  | 50  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 40  | 53  | 46  | 40  |  | 52  | 45  | 40  |  | 50  | 44  | 39  | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 35  |  | 47  | 40  | 35  |  | 46  | 40  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 31  |  | 42  | 36  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 28  |  | 40  | 33  | 28  |  | 39  | 33  | 28  | 26  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  | 30  | 26  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6178 | 6178 | 6178 |
| 5°  | 6173 | 6158 | 6199 |
| 10° | 6151 | 6145 | 6201 |
| 15° | 6111 | 6125 | 6197 |
| 20° | 6058 | 6093 | 6186 |
| 25° | 5991 | 6048 | 6162 |
| 30° | 5917 | 6003 | 6139 |
| 35° | 5835 | 5954 | 6117 |
| 40° | 5732 | 5903 | 6102 |
| 45° | 5650 | 5850 | 6069 |
| 50° | 5516 | 5796 | 6039 |
| 55° | 5375 | 5720 | 5993 |
| 60° | 5230 | 5636 | 5914 |
| 65° | 4994 | 5487 | 5688 |
| 70° | 4661 | 5239 | 5367 |
| 75° | 4152 | 4748 | 4887 |
| 80° | 3390 | 4116 | 4323 |
| 85° | 2242 | 3275 | 3510 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6069 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 173.7  | 3.3       |
| 10°-20°   | 497.4  | 9.4       |
| 20°-30°   | 753.1  | 14.2      |
| 30°-40°   | 909.1  | 17.2      |
| 40°-50°   | 949.3  | 17.9      |
| 50°-60°   | 868.5  | 16.4      |
| 60°-70°   | 671.4  | 12.7      |
| 70°-80°   | 380.1  | 7.2       |
| 80°-90°   | 94.4   | 1.8       |
| 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°    | 1424.2 | 26.9      |
| 0°-40°    | 2333.3 | 44.0      |
| 0°-60°    | 4151.1 | 78.4      |
| 0°-90°    | 5297.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5297.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1834 | 1834  | 1834 | 1834  | 1834 |      |
| 5°  | 1825 | 1838  | 1820 | 1822  | 1833 | 173  |
| 15° | 1752 | 1767  | 1756 | 1764  | 1776 | 494  |
| 25° | 1612 | 1632  | 1627 | 1642  | 1657 | 743  |
| 35° | 1418 | 1438  | 1447 | 1472  | 1487 | 887  |
| 45° | 1186 | 1209  | 1228 | 1259  | 1274 | 913  |
| 55° | 915  | 942   | 974  | 1004  | 1020 | 818  |
| 65° | 626  | 652   | 688  | 709   | 713  | 618  |
| 75° | 319  | 346   | 365  | 374   | 375  | 338  |
| 85° | 58   | 67    | 85   | 88    | 91   | 75   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1833.5 | 1833.5 | 1833.5 | 1833.5 | 1833.5 |
| 2.5°  | 1831.2 | 1844.2 | 1824.4 | 1828.2 | 1832.0 |
| 5°    | 1825.1 | 1838.1 | 1820.5 | 1822.1 | 1832.8 |
| 7.5°  | 1813.7 | 1828.2 | 1809.9 | 1812.9 | 1825.9 |
| 10°   | 1797.7 | 1812.2 | 1796.1 | 1799.2 | 1812.2 |
| 12.5° | 1777.1 | 1791.6 | 1777.8 | 1782.4 | 1796.9 |
| 15°   | 1751.9 | 1767.1 | 1755.7 | 1764.1 | 1776.3 |
| 17.5° | 1721.4 | 1740.4 | 1728.2 | 1741.2 | 1753.4 |
| 20°   | 1689.3 | 1708.4 | 1699.2 | 1710.7 | 1725.2 |
| 22.5° | 1652.7 | 1671.8 | 1664.9 | 1677.1 | 1693.1 |
| 25°   | 1611.5 | 1632.1 | 1626.7 | 1642.0 | 1657.3 |
| 27.5° | 1568.8 | 1588.6 | 1587.1 | 1603.8 | 1619.9 |
| 30°   | 1520.7 | 1542.0 | 1542.8 | 1562.6 | 1577.9 |
| 32.5° | 1472.6 | 1491.7 | 1496.3 | 1518.4 | 1535.9 |
| 35°   | 1418.4 | 1438.3 | 1447.4 | 1471.8 | 1487.1 |
| 37.5° | 1363.5 | 1385.6 | 1395.5 | 1422.3 | 1438.3 |
| 40°   | 1303.2 | 1328.4 | 1342.1 | 1370.4 | 1387.2 |
| 42.5° | 1246.0 | 1268.9 | 1287.2 | 1315.4 | 1330.7 |
| 45°   | 1185.7 | 1208.6 | 1227.7 | 1259.0 | 1273.5 |
| 47.5° | 1120.9 | 1146.0 | 1166.6 | 1197.2 | 1213.2 |
| 50°   | 1052.2 | 1079.7 | 1105.6 | 1135.4 | 1152.1 |
| 52.5° | 984.3  | 1011.0 | 1040.7 | 1069.7 | 1086.5 |
| 55°   | 914.9  | 942.3  | 973.6  | 1004.1 | 1020.1 |
| 57.5° | 844.7  | 872.1  | 906.5  | 933.9  | 950.7  |
| 60°   | 776.0  | 801.2  | 836.3  | 863.7  | 877.5  |
| 62.5° | 698.2  | 727.1  | 763.0  | 790.5  | 798.1  |
| 65°   | 626.4  | 652.4  | 688.2  | 708.8  | 713.4  |
| 67.5° | 550.1  | 576.1  | 611.9  | 623.4  | 630.2  |
| 70°   | 473.1  | 500.5  | 531.8  | 539.4  | 544.8  |
| 72.5° | 395.2  | 423.5  | 447.9  | 455.5  | 460.1  |
| 75°   | 318.9  | 346.4  | 364.7  | 373.9  | 375.4  |
| 77.5° | 244.9  | 270.1  | 286.9  | 297.6  | 297.6  |
| 80°   | 174.7  | 193.8  | 212.1  | 223.6  | 222.8  |
| 82.5° | 111.4  | 125.9  | 145.0  | 153.4  | 158.7  |
| 85°   | 58.0   | 67.1   | 84.7   | 88.5   | 90.8   |
| 87.5° | 18.3   | 23.7   | 30.5   | 25.2   | 24.4   |
| 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 | 18.01            | 19.66 | 18.37 | 19.97 | 20.29 | 18.55          | 20.20 | 18.91 | 20.51 | 20.83 |
|                 | 3H   | 19.78            | 21.27 | 20.16 | 21.60 | 21.96 | 20.41          | 21.90 | 20.78 | 22.23 | 22.59 |
|                 | 4H   | 20.40            | 21.81 | 20.80 | 22.16 | 22.53 | 21.08          | 22.49 | 21.48 | 22.84 | 23.21 |
|                 | 6H   | 20.81            | 22.11 | 21.22 | 22.48 | 22.87 | 21.57          | 22.87 | 21.98 | 23.23 | 23.63 |
|                 | 8H   | 20.91            | 22.16 | 21.33 | 22.55 | 22.94 | 21.72          | 22.97 | 22.15 | 23.36 | 23.76 |
|                 | 12H  | 20.96            | 22.15 | 21.39 | 22.53 | 22.96 | 21.82          | 23.02 | 22.25 | 23.40 | 23.83 |
| 4H              | 2H   | 18.75            | 20.15 | 19.14 | 20.50 | 20.88 | 19.17          | 20.58 | 19.57 | 20.92 | 21.30 |
|                 | 3H   | 20.74            | 21.92 | 21.15 | 22.32 | 22.72 | 21.25          | 22.43 | 21.65 | 22.82 | 23.22 |
|                 | 4H   | 21.49            | 22.56 | 21.92 | 22.97 | 23.40 | 22.05          | 23.12 | 22.48 | 23.53 | 23.96 |
|                 | 6H   | 22.01            | 22.94 | 22.46 | 23.38 | 23.84 | 22.66          | 23.60 | 23.11 | 24.04 | 24.49 |
|                 | 8H   | 22.14            | 23.02 | 22.60 | 23.46 | 23.92 | 22.87          | 23.74 | 23.32 | 24.18 | 24.65 |
|                 | 12H  | 22.22            | 23.00 | 22.70 | 23.48 | 23.95 | 23.00          | 23.79 | 23.48 | 24.27 | 24.73 |
| 8H              | 4H   | 21.84            | 22.72 | 22.30 | 23.16 | 23.62 | 22.34          | 23.21 | 22.80 | 23.65 | 24.12 |
|                 | 6H   | 22.47            | 23.20 | 22.97 | 23.69 | 24.16 | 23.07          | 23.80 | 23.56 | 24.28 | 24.76 |
|                 | 8H   | 22.67            | 23.32 | 23.18 | 23.83 | 24.31 | 23.34          | 23.99 | 23.85 | 24.50 | 24.99 |
|                 | 12H  | 22.79            | 23.37 | 23.30 | 23.86 | 24.42 | 23.55          | 24.13 | 24.05 | 24.62 | 25.18 |
| 12H             | 4H   | 21.88            | 22.67 | 22.36 | 23.15 | 23.61 | 22.36          | 23.15 | 22.84 | 23.62 | 24.09 |
|                 | 6H   | 22.54            | 23.19 | 23.05 | 23.70 | 24.18 | 23.11          | 23.76 | 23.62 | 24.27 | 24.76 |
|                 | 8H   | 22.79            | 23.36 | 23.29 | 23.85 | 24.41 | 23.44          | 24.02 | 23.94 | 24.51 | 25.07 |