

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: P1587756

Luminaire Tested: 22CZSP-SB-52-L840-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1587756  
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-L840-S  
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 5000 lumens, 80CRI, Smooth Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

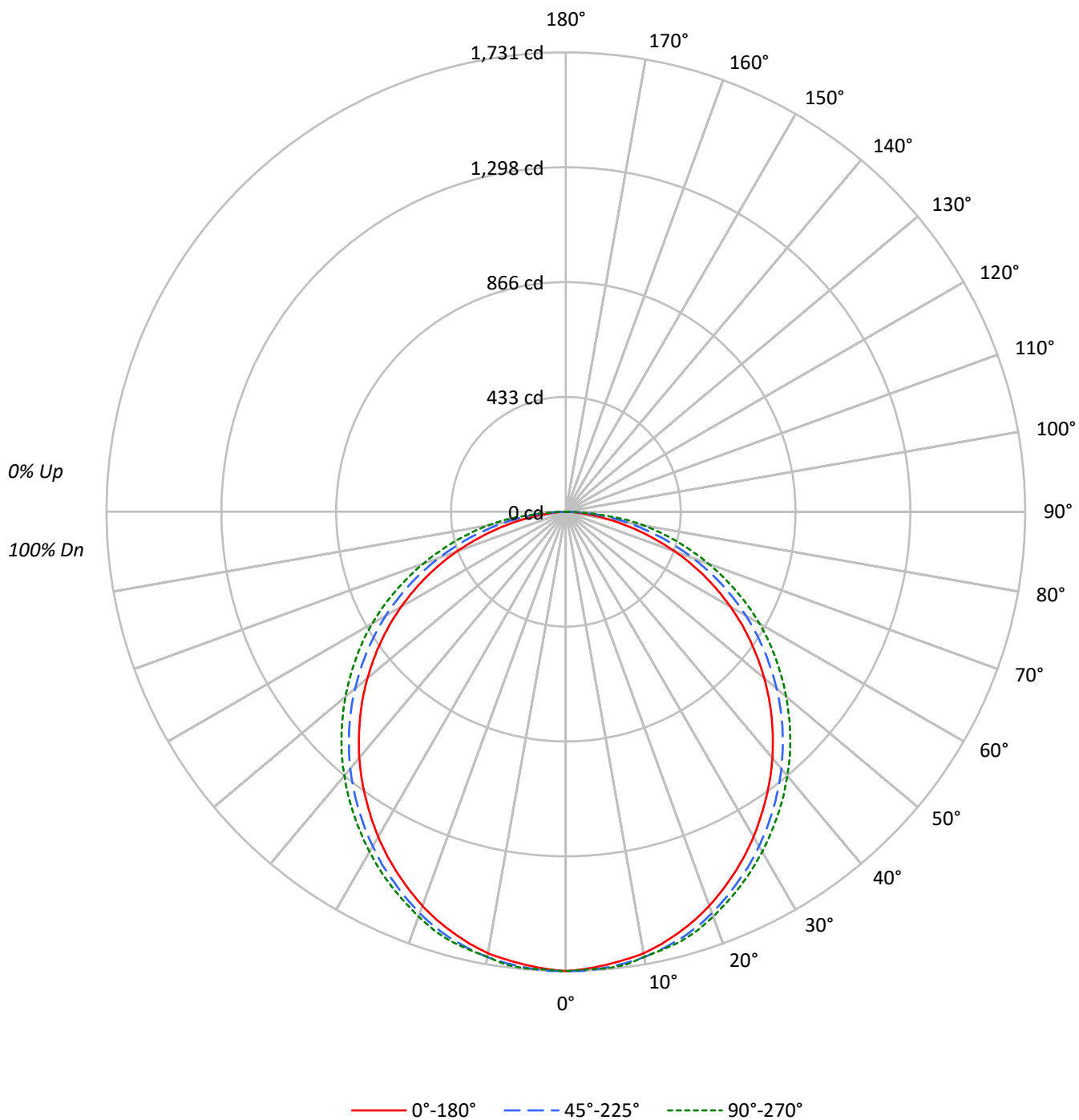
Lumens per Lamp: N/A  
Luminaire Lumens: 5035.0 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

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°  | 5420 | 5420 | 5420 |
| 5°  | 5389 | 5420 | 5430 |
| 10° | 5373 | 5417 | 5414 |
| 15° | 5323 | 5400 | 5432 |
| 20° | 5266 | 5363 | 5410 |
| 25° | 5191 | 5310 | 5378 |
| 30° | 5115 | 5263 | 5350 |
| 35° | 5031 | 5213 | 5325 |
| 40° | 4950 | 5167 | 5309 |
| 45° | 4859 | 5113 | 5295 |
| 50° | 4754 | 5050 | 5282 |
| 55° | 4636 | 4985 | 5275 |
| 60° | 4490 | 4911 | 5278 |
| 65° | 4286 | 4807 | 5249 |
| 70° | 4006 | 4661 | 5236 |
| 75° | 3551 | 4481 | 5254 |
| 80° | 2891 | 4257 | 5410 |
| 85° | 1868 | 3931 | 4671 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5482 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 163.8  | 3.3       |
| 10°-20°   | 469.1  | 9.3       |
| 20°-30°   | 707.2  | 14.0      |
| 30°-40°   | 851.0  | 16.9      |
| 40°-50°   | 887.6  | 17.6      |
| 50°-60°   | 813.6  | 16.2      |
| 60°-70°   | 638.9  | 12.7      |
| 70°-80°   | 388.8  | 7.7       |
| 80°-90°   | 115.0  | 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°    | 1340.1 | 26.6      |
| 0°-40°    | 2191.0 | 43.5      |
| 0°-60°    | 3892.3 | 77.3      |
| 0°-90°    | 5035.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5035.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1731 | 1731  | 1731 | 1731  | 1731 |      |
| 5°  | 1715 | 1725  | 1724 | 1722  | 1728 | 163  |
| 15° | 1642 | 1658  | 1666 | 1668  | 1676 | 463  |
| 25° | 1502 | 1523  | 1537 | 1547  | 1556 | 692  |
| 35° | 1316 | 1337  | 1364 | 1383  | 1393 | 824  |
| 45° | 1097 | 1120  | 1155 | 1182  | 1196 | 846  |
| 55° | 849  | 871   | 913  | 950   | 966  | 759  |
| 65° | 578  | 600   | 649  | 692   | 708  | 572  |
| 75° | 294  | 321   | 370  | 415   | 434  | 311  |
| 85° | 52   | 74    | 109  | 122   | 130  | 68   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1730.9 | 1730.9 | 1730.9 | 1730.9 | 1730.9 |
| 2.5°  | 1724.4 | 1733.0 | 1730.9 | 1723.3 | 1726.5 |
| 5°    | 1714.6 | 1725.4 | 1724.4 | 1722.2 | 1727.6 |
| 7.5°  | 1702.7 | 1714.6 | 1715.7 | 1715.7 | 1722.2 |
| 10°   | 1689.7 | 1701.6 | 1703.8 | 1700.5 | 1702.7 |
| 12.5° | 1668.0 | 1682.1 | 1686.4 | 1686.4 | 1689.7 |
| 15°   | 1642.0 | 1658.3 | 1665.9 | 1668.0 | 1675.6 |
| 17.5° | 1613.9 | 1631.2 | 1641.0 | 1646.4 | 1652.9 |
| 20°   | 1580.3 | 1598.7 | 1609.5 | 1616.0 | 1623.6 |
| 22.5° | 1542.4 | 1563.0 | 1574.9 | 1581.4 | 1590.1 |
| 25°   | 1502.3 | 1522.9 | 1537.0 | 1546.7 | 1556.5 |
| 27.5° | 1460.1 | 1479.6 | 1499.1 | 1511.0 | 1519.6 |
| 30°   | 1414.6 | 1435.2 | 1455.7 | 1470.9 | 1479.6 |
| 32.5° | 1365.8 | 1387.5 | 1411.3 | 1427.6 | 1437.3 |
| 35°   | 1316.0 | 1336.6 | 1363.7 | 1383.2 | 1392.9 |
| 37.5° | 1265.1 | 1286.8 | 1314.9 | 1335.5 | 1347.4 |
| 40°   | 1211.0 | 1233.7 | 1264.0 | 1286.8 | 1298.7 |
| 42.5° | 1154.6 | 1176.3 | 1209.9 | 1235.9 | 1249.9 |
| 45°   | 1097.2 | 1120.0 | 1154.6 | 1181.7 | 1195.8 |
| 47.5° | 1037.6 | 1059.3 | 1097.2 | 1128.6 | 1140.5 |
| 50°   | 975.9  | 996.5  | 1036.6 | 1070.1 | 1084.2 |
| 52.5° | 913.1  | 934.8  | 974.8  | 1010.6 | 1025.7 |
| 55°   | 849.2  | 870.8  | 913.1  | 949.9  | 966.2  |
| 57.5° | 784.2  | 805.9  | 849.2  | 887.1  | 906.6  |
| 60°   | 717.0  | 738.7  | 784.2  | 823.2  | 842.7  |
| 62.5° | 647.7  | 670.5  | 717.0  | 757.1  | 777.7  |
| 65°   | 578.4  | 600.1  | 648.8  | 692.1  | 708.4  |
| 67.5° | 509.1  | 530.7  | 578.4  | 621.7  | 641.2  |
| 70°   | 437.6  | 462.5  | 509.1  | 554.6  | 571.9  |
| 72.5° | 362.9  | 391.0  | 437.6  | 485.2  | 502.6  |
| 75°   | 293.5  | 320.6  | 370.4  | 414.8  | 434.3  |
| 77.5° | 225.3  | 254.5  | 301.1  | 346.6  | 366.1  |
| 80°   | 160.3  | 188.5  | 236.1  | 279.5  | 300.0  |
| 82.5° | 101.8  | 126.7  | 174.4  | 213.4  | 228.5  |
| 85°   | 52.0   | 73.7   | 109.4  | 122.4  | 130.0  |
| 87.5° | 15.2   | 26.0   | 39.0   | 48.7   | 54.2   |
| 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 | 17.37            | 19.03 | 17.74 | 19.35 | 19.66 | 18.11          | 19.77 | 18.47 | 20.08 | 20.39 |
|                 | 3H   | 19.14            | 20.65 | 19.52 | 20.97 | 21.33 | 20.19          | 21.69 | 20.56 | 22.02 | 22.38 |
|                 | 4H   | 19.76            | 21.18 | 20.16 | 21.53 | 21.90 | 21.05          | 22.47 | 21.45 | 22.82 | 23.19 |
|                 | 6H   | 20.17            | 21.49 | 20.58 | 21.85 | 22.24 | 21.80          | 23.11 | 22.21 | 23.48 | 23.87 |
|                 | 8H   | 20.27            | 21.53 | 20.69 | 21.92 | 22.32 | 22.09          | 23.35 | 22.51 | 23.74 | 24.14 |
|                 | 12H  | 20.32            | 21.53 | 20.75 | 21.91 | 22.34 | 22.28          | 23.49 | 22.71 | 23.87 | 24.30 |
| 4H              | 2H   | 18.14            | 19.56 | 18.54 | 19.91 | 20.28 | 18.71          | 20.13 | 19.11 | 20.48 | 20.85 |
|                 | 3H   | 20.13            | 21.33 | 20.54 | 21.72 | 22.12 | 21.02          | 22.22 | 21.43 | 22.62 | 23.02 |
|                 | 4H   | 20.87            | 21.96 | 21.30 | 22.37 | 22.80 | 22.04          | 23.13 | 22.47 | 23.54 | 23.97 |
|                 | 6H   | 21.40            | 22.35 | 21.85 | 22.79 | 23.25 | 22.95          | 23.90 | 23.40 | 24.34 | 24.79 |
|                 | 8H   | 21.54            | 22.43 | 22.00 | 22.87 | 23.34 | 23.31          | 24.20 | 23.77 | 24.65 | 25.11 |
|                 | 12H  | 21.62            | 22.43 | 22.10 | 22.90 | 23.37 | 23.57          | 24.37 | 24.05 | 24.84 | 25.31 |
| 8H              | 4H   | 21.32            | 22.21 | 21.78 | 22.65 | 23.11 | 22.34          | 23.23 | 22.80 | 23.67 | 24.14 |
|                 | 6H   | 21.98            | 22.72 | 22.47 | 23.21 | 23.68 | 23.40          | 24.14 | 23.89 | 24.63 | 25.10 |
|                 | 8H   | 22.19            | 22.86 | 22.70 | 23.36 | 23.85 | 23.87          | 24.54 | 24.38 | 25.04 | 25.53 |
|                 | 12H  | 22.33            | 22.92 | 22.83 | 23.41 | 23.97 | 24.22          | 24.81 | 24.73 | 25.30 | 25.86 |
| 12H             | 4H   | 21.40            | 22.20 | 21.88 | 22.68 | 23.14 | 22.37          | 23.17 | 22.85 | 23.64 | 24.11 |
|                 | 6H   | 22.11            | 22.77 | 22.61 | 23.28 | 23.76 | 23.45          | 24.12 | 23.96 | 24.62 | 25.11 |
|                 | 8H   | 22.38            | 22.97 | 22.89 | 23.46 | 24.02 | 23.99          | 24.58 | 24.49 | 25.07 | 25.62 |

END OF REPORT