

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: P1586475

Luminaire Tested: 22CZSP-52-L835

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586475  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-52-L835  
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 80CRI, Ribbed Lens  
Light Source: -  
Ballast/Driver: -

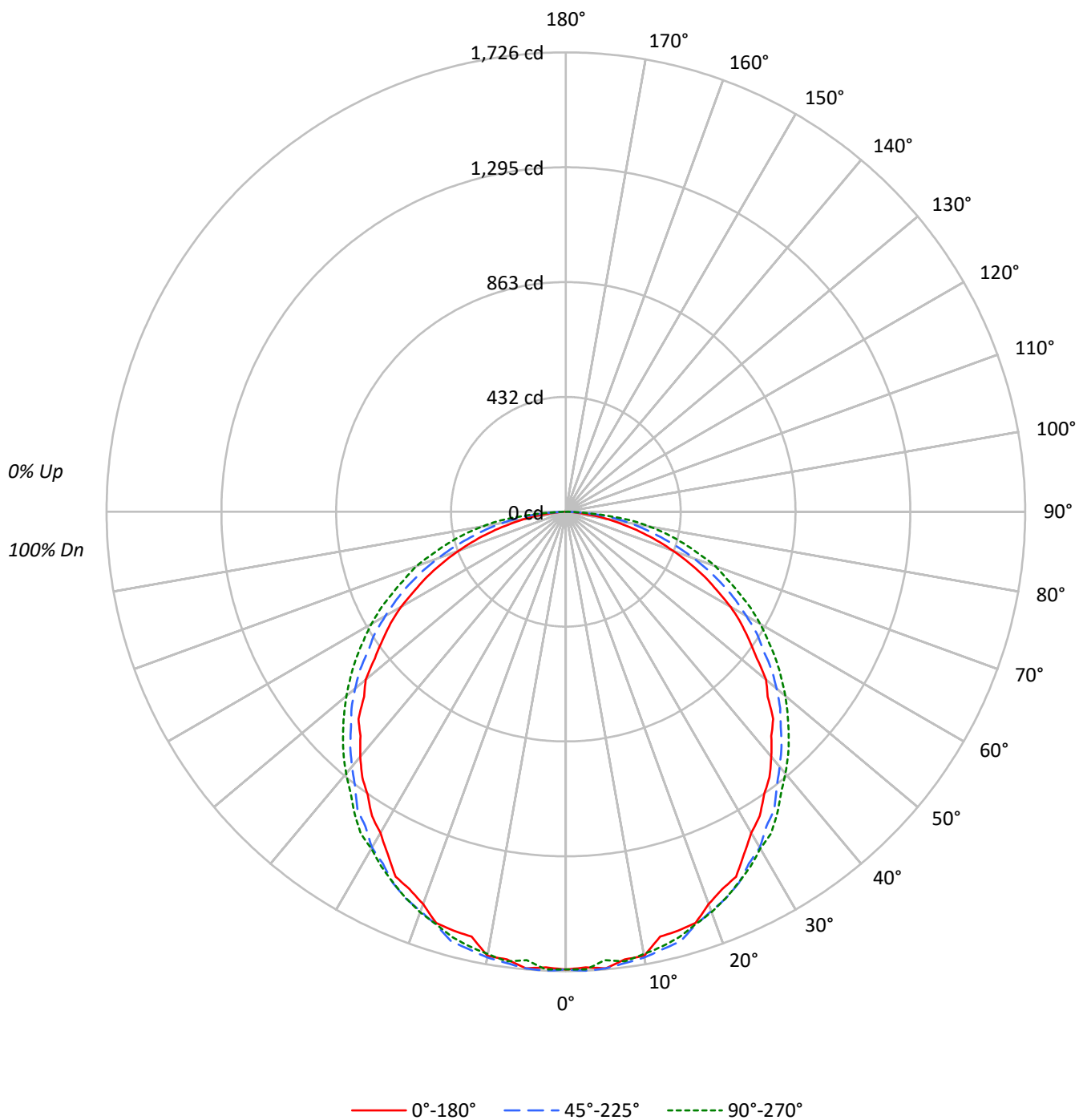
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5021.0 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
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  | 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  | 31  | 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°  | 5385 | 5385 | 5385 |
| 5°  | 5412 | 5412 | 5315 |
| 10° | 5386 | 5407 | 5366 |
| 15° | 5283 | 5412 | 5360 |
| 20° | 5227 | 5320 | 5334 |
| 25° | 5227 | 5316 | 5309 |
| 30° | 5037 | 5269 | 5285 |
| 35° | 4961 | 5219 | 5292 |
| 40° | 4911 | 5108 | 5248 |
| 45° | 4879 | 5055 | 5245 |
| 50° | 4783 | 5034 | 5242 |
| 55° | 4589 | 4940 | 5255 |
| 60° | 4480 | 4902 | 5284 |
| 65° | 4252 | 4832 | 5300 |
| 70° | 3921 | 4677 | 5480 |
| 75° | 3484 | 4469 | 5531 |
| 80° | 2896 | 4384 | 5734 |
| 85° | 1771 | 3923 | 4847 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5935 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 163.1  | 3.2       |
| 10°-20°   | 466.0  | 9.3       |
| 20°-30°   | 702.9  | 14.0      |
| 30°-40°   | 844.2  | 16.8      |
| 40°-50°   | 881.2  | 17.6      |
| 50°-60°   | 811.4  | 16.2      |
| 60°-70°   | 640.7  | 12.8      |
| 70°-80°   | 394.6  | 7.9       |
| 80°-90°   | 117.0  | 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°    | 1331.9 | 26.5      |
| 0°-40°    | 2176.1 | 43.3      |
| 0°-60°    | 3868.7 | 77.1      |
| 0°-90°    | 5021.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5021.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1720 | 1720  | 1720 | 1720  | 1720 |      |
| 5°  | 1722 | 1705  | 1722 | 1724  | 1691 | 163  |
| 15° | 1630 | 1652  | 1669 | 1662  | 1653 | 461  |
| 25° | 1513 | 1524  | 1539 | 1532  | 1537 | 689  |
| 35° | 1298 | 1321  | 1365 | 1372  | 1384 | 816  |
| 45° | 1102 | 1110  | 1142 | 1166  | 1184 | 843  |
| 55° | 841  | 863   | 905  | 946   | 963  | 755  |
| 65° | 574  | 594   | 652  | 699   | 715  | 565  |
| 75° | 288  | 316   | 369  | 428   | 457  | 306  |
| 85° | 49   | 71    | 109  | 130   | 135  | 66   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1719.7 | 1719.7 | 1719.7 | 1719.7 | 1719.7 |
| 2.5°  | 1713.3 | 1731.5 | 1726.1 | 1729.3 | 1720.8 |
| 5°    | 1721.8 | 1704.7 | 1721.8 | 1724.0 | 1690.8 |
| 7.5°  | 1696.1 | 1698.3 | 1710.1 | 1713.3 | 1703.6 |
| 10°   | 1694.0 | 1700.4 | 1700.4 | 1689.7 | 1687.6 |
| 12.5° | 1635.1 | 1667.2 | 1683.3 | 1690.8 | 1672.6 |
| 15°   | 1629.7 | 1652.2 | 1669.4 | 1661.9 | 1653.3 |
| 17.5° | 1620.1 | 1613.7 | 1625.5 | 1634.0 | 1624.4 |
| 20°   | 1568.7 | 1579.4 | 1596.6 | 1598.7 | 1600.8 |
| 22.5° | 1534.4 | 1537.7 | 1571.9 | 1575.1 | 1570.9 |
| 25°   | 1513.0 | 1523.7 | 1538.7 | 1532.3 | 1536.6 |
| 27.5° | 1449.9 | 1475.6 | 1489.5 | 1502.3 | 1502.3 |
| 30°   | 1393.1 | 1423.1 | 1457.3 | 1461.6 | 1461.6 |
| 32.5° | 1355.6 | 1376.0 | 1401.7 | 1410.2 | 1433.8 |
| 35°   | 1297.8 | 1321.4 | 1365.3 | 1371.7 | 1384.5 |
| 37.5° | 1257.1 | 1280.7 | 1301.0 | 1323.5 | 1328.9 |
| 40°   | 1201.4 | 1226.1 | 1249.6 | 1275.3 | 1283.9 |
| 42.5° | 1142.5 | 1168.2 | 1199.3 | 1226.1 | 1236.8 |
| 45°   | 1101.8 | 1110.4 | 1141.5 | 1166.1 | 1184.3 |
| 47.5° | 1028.0 | 1052.6 | 1092.2 | 1123.3 | 1130.8 |
| 50°   | 981.9  | 991.6  | 1033.3 | 1075.1 | 1076.1 |
| 52.5° | 904.8  | 933.7  | 974.4  | 1014.0 | 1019.4 |
| 55°   | 840.6  | 863.1  | 904.8  | 945.5  | 962.6  |
| 57.5° | 780.6  | 797.7  | 851.3  | 892.0  | 901.6  |
| 60°   | 715.3  | 733.5  | 782.7  | 829.9  | 843.8  |
| 62.5° | 639.3  | 665.0  | 718.5  | 763.5  | 782.7  |
| 65°   | 573.9  | 594.3  | 652.1  | 699.2  | 715.3  |
| 67.5° | 500.1  | 527.9  | 582.5  | 635.0  | 652.1  |
| 70°   | 428.3  | 456.2  | 510.8  | 565.4  | 598.6  |
| 72.5° | 357.6  | 386.6  | 441.2  | 504.3  | 522.5  |
| 75°   | 288.0  | 315.9  | 369.4  | 428.3  | 457.2  |
| 77.5° | 219.5  | 249.5  | 304.1  | 363.0  | 390.8  |
| 80°   | 160.6  | 184.2  | 243.1  | 294.5  | 318.0  |
| 82.5° | 99.6   | 124.2  | 178.8  | 227.0  | 247.4  |
| 85°   | 49.3   | 70.7   | 109.2  | 129.6  | 134.9  |
| 87.5° | 15.0   | 22.5   | 34.3   | 45.0   | 51.4   |
| 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 | 17.32            | 18.98 | 17.68 | 19.29 | 19.61 | 18.14          | 19.80 | 18.50 | 20.12 | 20.43 |
|                 | 3H   | 19.07            | 20.58 | 19.45 | 20.90 | 21.26 | 20.29          | 21.79 | 20.66 | 22.12 | 22.48 |
|                 | 4H   | 19.68            | 21.11 | 20.08 | 21.45 | 21.83 | 21.20          | 22.62 | 21.60 | 22.97 | 23.34 |
|                 | 6H   | 20.09            | 21.41 | 20.50 | 21.77 | 22.16 | 22.00          | 23.32 | 22.41 | 23.69 | 24.08 |
|                 | 8H   | 20.19            | 21.45 | 20.61 | 21.84 | 22.24 | 22.32          | 23.59 | 22.75 | 23.97 | 24.37 |
|                 | 12H  | 20.23            | 21.45 | 20.66 | 21.83 | 22.25 | 22.53          | 23.74 | 22.96 | 24.12 | 24.55 |
| 4H              | 2H   | 18.11            | 19.53 | 18.50 | 19.88 | 20.25 | 18.74          | 20.17 | 19.14 | 20.51 | 20.89 |
|                 | 3H   | 20.08            | 21.28 | 20.49 | 21.68 | 22.08 | 21.12          | 22.32 | 21.53 | 22.72 | 23.12 |
|                 | 4H   | 20.81            | 21.90 | 21.24 | 22.31 | 22.75 | 22.19          | 23.28 | 22.62 | 23.69 | 24.12 |
|                 | 6H   | 21.33            | 22.28 | 21.78 | 22.72 | 23.18 | 23.16          | 24.11 | 23.61 | 24.55 | 25.00 |
|                 | 8H   | 21.47            | 22.36 | 21.93 | 22.81 | 23.27 | 23.56          | 24.45 | 24.01 | 24.89 | 25.35 |
|                 | 12H  | 21.55            | 22.35 | 22.03 | 22.83 | 23.29 | 23.82          | 24.63 | 24.30 | 25.10 | 25.57 |
| 8H              | 4H   | 21.28            | 22.17 | 21.74 | 22.61 | 23.08 | 22.48          | 23.37 | 22.94 | 23.81 | 24.28 |
|                 | 6H   | 21.93            | 22.68 | 22.43 | 23.16 | 23.64 | 23.61          | 24.35 | 24.10 | 24.84 | 25.31 |
|                 | 8H   | 22.14            | 22.81 | 22.65 | 23.31 | 23.80 | 24.11          | 24.78 | 24.62 | 25.29 | 25.77 |
|                 | 12H  | 22.27            | 22.86 | 22.77 | 23.35 | 23.91 | 24.48          | 25.07 | 24.99 | 25.56 | 26.12 |
| 12H             | 4H   | 21.37            | 22.17 | 21.85 | 22.65 | 23.12 | 22.51          | 23.31 | 22.98 | 23.78 | 24.25 |
|                 | 6H   | 22.07            | 22.74 | 22.58 | 23.25 | 23.73 | 23.65          | 24.32 | 24.16 | 24.83 | 25.31 |
|                 | 8H   | 22.35            | 22.94 | 22.85 | 23.43 | 23.99 | 24.23          | 24.82 | 24.73 | 25.31 | 25.87 |