

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: P1586491

Luminaire Tested: 22CZSP-52-L950

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586491  
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-L950  
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 5000 lumens, 90CRI, Ribbed Lens  
Light Source: -  
Ballast/Driver: -

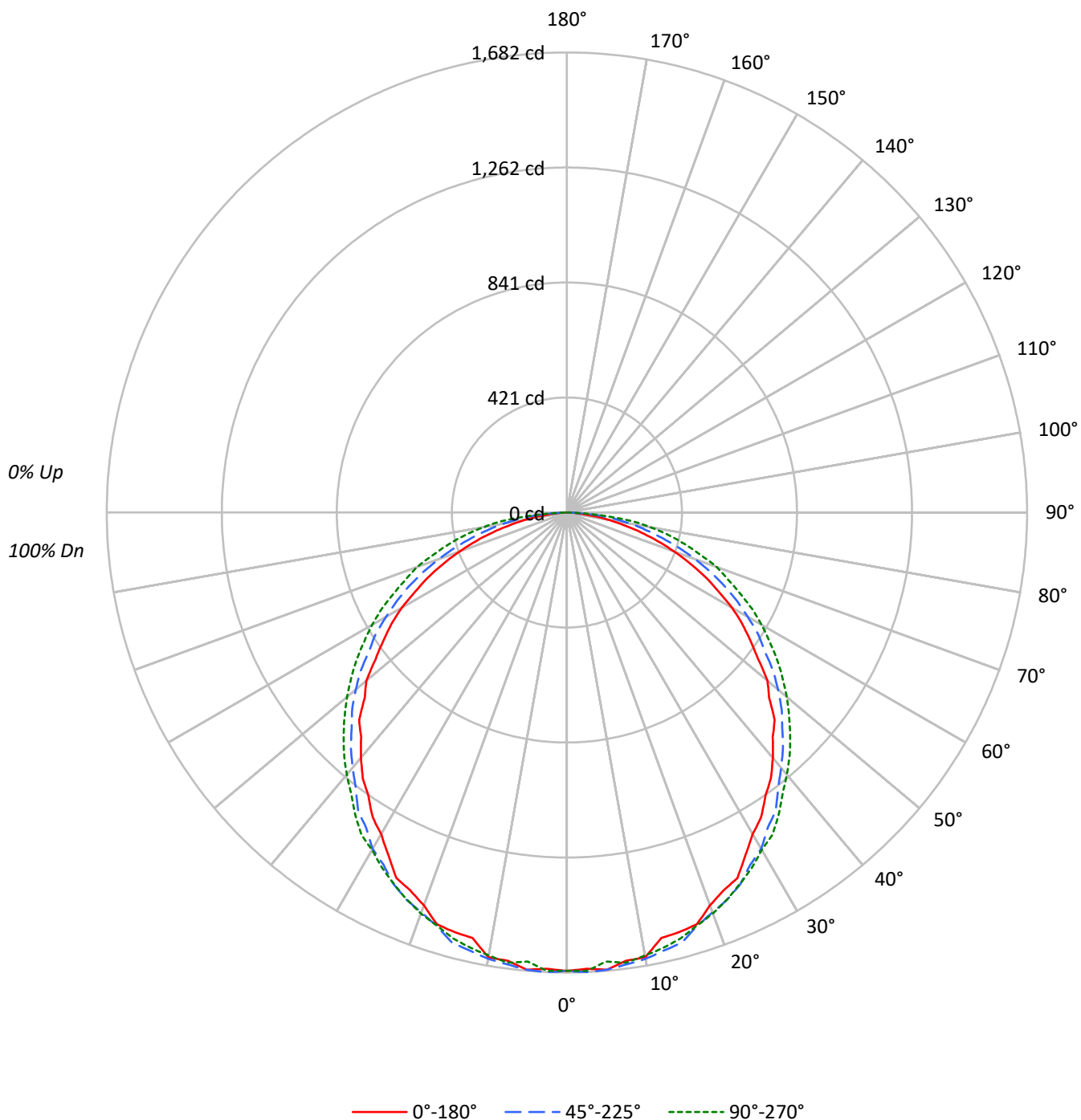
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4893.0 lumens  
Efficiency: N/A  
Efficacy: 131.5 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°  | 5248 | 5248 | 5248 |
| 5°  | 5274 | 5274 | 5179 |
| 10° | 5249 | 5269 | 5229 |
| 15° | 5149 | 5274 | 5223 |
| 20° | 5094 | 5184 | 5198 |
| 25° | 5094 | 5181 | 5174 |
| 30° | 4909 | 5135 | 5150 |
| 35° | 4834 | 5086 | 5158 |
| 40° | 4786 | 4978 | 5114 |
| 45° | 4755 | 4926 | 5111 |
| 50° | 4662 | 4906 | 5109 |
| 55° | 4472 | 4814 | 5121 |
| 60° | 4366 | 4777 | 5150 |
| 65° | 4144 | 4709 | 5165 |
| 70° | 3821 | 4557 | 5340 |
| 75° | 3396 | 4355 | 5391 |
| 80° | 2822 | 4272 | 5588 |
| 85° | 1725 | 3823 | 4725 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5782 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 158.9  | 3.2       |
| 10°-20°   | 454.1  | 9.3       |
| 20°-30°   | 684.9  | 14.0      |
| 30°-40°   | 822.7  | 16.8      |
| 40°-50°   | 858.8  | 17.6      |
| 50°-60°   | 790.7  | 16.2      |
| 60°-70°   | 624.4  | 12.8      |
| 70°-80°   | 384.5  | 7.9       |
| 80°-90°   | 114.0  | 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°    | 1298.0 | 26.5      |
| 0°-40°    | 2120.6 | 43.3      |
| 0°-60°    | 3770.1 | 77.1      |
| 0°-90°    | 4893.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4893.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1676 | 1676  | 1676 | 1676  | 1676 |      |
| 5°  | 1678 | 1661  | 1678 | 1680  | 1648 | 159  |
| 15° | 1588 | 1610  | 1627 | 1620  | 1611 | 449  |
| 25° | 1474 | 1485  | 1500 | 1493  | 1497 | 672  |
| 35° | 1265 | 1288  | 1330 | 1337  | 1349 | 795  |
| 45° | 1074 | 1082  | 1112 | 1136  | 1154 | 821  |
| 55° | 819  | 841   | 882  | 921   | 938  | 735  |
| 65° | 559  | 579   | 636  | 681   | 697  | 551  |
| 75° | 281  | 308   | 360  | 417   | 446  | 298  |
| 85° | 48   | 69    | 106  | 126   | 132  | 65   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1675.9 | 1675.9 | 1675.9 | 1675.9 | 1675.9 |
| 2.5°  | 1669.6 | 1687.3 | 1682.1 | 1685.2 | 1676.9 |
| 5°    | 1677.9 | 1661.2 | 1677.9 | 1680.0 | 1647.7 |
| 7.5°  | 1652.9 | 1655.0 | 1666.5 | 1669.6 | 1660.2 |
| 10°   | 1650.8 | 1657.1 | 1657.1 | 1646.6 | 1644.5 |
| 12.5° | 1593.4 | 1624.7 | 1640.4 | 1647.7 | 1629.9 |
| 15°   | 1588.2 | 1610.1 | 1626.8 | 1619.5 | 1611.2 |
| 17.5° | 1578.8 | 1572.5 | 1584.0 | 1592.4 | 1583.0 |
| 20°   | 1528.7 | 1539.2 | 1555.8 | 1557.9 | 1560.0 |
| 22.5° | 1495.3 | 1498.5 | 1531.8 | 1535.0 | 1530.8 |
| 25°   | 1474.5 | 1484.9 | 1499.5 | 1493.2 | 1497.4 |
| 27.5° | 1412.9 | 1437.9 | 1451.5 | 1464.0 | 1464.0 |
| 30°   | 1357.6 | 1386.8 | 1420.2 | 1424.4 | 1424.4 |
| 32.5° | 1321.1 | 1340.9 | 1365.9 | 1374.3 | 1397.2 |
| 35°   | 1264.7 | 1287.7 | 1330.5 | 1336.7 | 1349.2 |
| 37.5° | 1225.1 | 1248.0 | 1267.8 | 1289.8 | 1295.0 |
| 40°   | 1170.8 | 1194.8 | 1217.8 | 1242.8 | 1251.1 |
| 42.5° | 1113.4 | 1138.5 | 1168.7 | 1194.8 | 1205.2 |
| 45°   | 1073.8 | 1082.1 | 1112.4 | 1136.4 | 1154.1 |
| 47.5° | 1001.8 | 1025.8 | 1064.4 | 1094.6 | 1101.9 |
| 50°   | 956.9  | 966.3  | 1007.0 | 1047.7 | 1048.7 |
| 52.5° | 881.8  | 909.9  | 949.6  | 988.2  | 993.4  |
| 55°   | 819.1  | 841.1  | 881.8  | 921.4  | 938.1  |
| 57.5° | 760.7  | 777.4  | 829.6  | 869.2  | 878.6  |
| 60°   | 697.1  | 714.8  | 762.8  | 808.7  | 822.3  |
| 62.5° | 623.0  | 648.0  | 700.2  | 744.0  | 762.8  |
| 65°   | 559.3  | 579.1  | 635.5  | 681.4  | 697.1  |
| 67.5° | 487.3  | 514.4  | 567.7  | 618.8  | 635.5  |
| 70°   | 417.4  | 444.5  | 497.7  | 551.0  | 583.3  |
| 72.5° | 348.5  | 376.7  | 429.9  | 491.5  | 509.2  |
| 75°   | 280.7  | 307.8  | 360.0  | 417.4  | 445.6  |
| 77.5° | 213.9  | 243.1  | 296.4  | 353.7  | 380.9  |
| 80°   | 156.5  | 179.5  | 236.9  | 287.0  | 309.9  |
| 82.5° | 97.0   | 121.0  | 174.3  | 221.2  | 241.0  |
| 85°   | 48.0   | 68.9   | 106.4  | 126.3  | 131.5  |
| 87.5° | 14.6   | 21.9   | 33.4   | 43.8   | 50.1   |
| 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 | 17.23            | 18.89 | 17.59 | 19.20 | 19.52 | 18.05          | 19.71 | 18.41 | 20.03 | 20.34 |
|                 | 3H   | 18.98            | 20.49 | 19.36 | 20.81 | 21.17 | 20.20          | 21.70 | 20.57 | 22.03 | 22.39 |
|                 | 4H   | 19.59            | 21.02 | 19.99 | 21.36 | 21.74 | 21.11          | 22.53 | 21.51 | 22.88 | 23.25 |
|                 | 6H   | 20.00            | 21.32 | 20.41 | 21.68 | 22.07 | 21.91          | 23.23 | 22.32 | 23.60 | 23.99 |
|                 | 8H   | 20.10            | 21.36 | 20.52 | 21.75 | 22.15 | 22.23          | 23.50 | 22.66 | 23.89 | 24.28 |
|                 | 12H  | 20.14            | 21.36 | 20.57 | 21.74 | 22.16 | 22.44          | 23.65 | 22.87 | 24.03 | 24.46 |
| 4H              | 2H   | 18.02            | 19.44 | 18.41 | 19.79 | 20.16 | 18.65          | 20.08 | 19.05 | 20.42 | 20.80 |
|                 | 3H   | 19.99            | 21.19 | 20.40 | 21.59 | 21.99 | 21.03          | 22.23 | 21.44 | 22.63 | 23.03 |
|                 | 4H   | 20.72            | 21.81 | 21.15 | 22.22 | 22.66 | 22.10          | 23.19 | 22.53 | 23.60 | 24.04 |
|                 | 6H   | 21.24            | 22.19 | 21.69 | 22.63 | 23.09 | 23.07          | 24.02 | 23.52 | 24.46 | 24.91 |
|                 | 8H   | 21.38            | 22.27 | 21.84 | 22.72 | 23.18 | 23.47          | 24.36 | 23.92 | 24.80 | 25.26 |
|                 | 12H  | 21.46            | 22.26 | 21.94 | 22.74 | 23.20 | 23.73          | 24.54 | 24.21 | 25.01 | 25.48 |
| 8H              | 4H   | 21.19            | 22.08 | 21.65 | 22.52 | 22.99 | 22.39          | 23.28 | 22.85 | 23.72 | 24.19 |
|                 | 6H   | 21.84            | 22.59 | 22.34 | 23.07 | 23.55 | 23.52          | 24.26 | 24.01 | 24.75 | 25.22 |
|                 | 8H   | 22.05            | 22.72 | 22.56 | 23.22 | 23.71 | 24.02          | 24.69 | 24.53 | 25.20 | 25.68 |
|                 | 12H  | 22.18            | 22.77 | 22.68 | 23.26 | 23.82 | 24.39          | 24.98 | 24.90 | 25.47 | 26.03 |
| 12H             | 4H   | 21.28            | 22.08 | 21.76 | 22.56 | 23.03 | 22.42          | 23.22 | 22.89 | 23.69 | 24.16 |
|                 | 6H   | 21.98            | 22.65 | 22.49 | 23.16 | 23.64 | 23.56          | 24.23 | 24.07 | 24.74 | 25.22 |
|                 | 8H   | 22.26            | 22.85 | 22.76 | 23.34 | 23.90 | 24.14          | 24.73 | 24.64 | 25.22 | 25.78 |