

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: P1586745

Luminaire Tested: 22CZSP-A-54HE-L935

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-A-54HE-L935  
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 5000 lumens, 90CRI, Ribbed Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

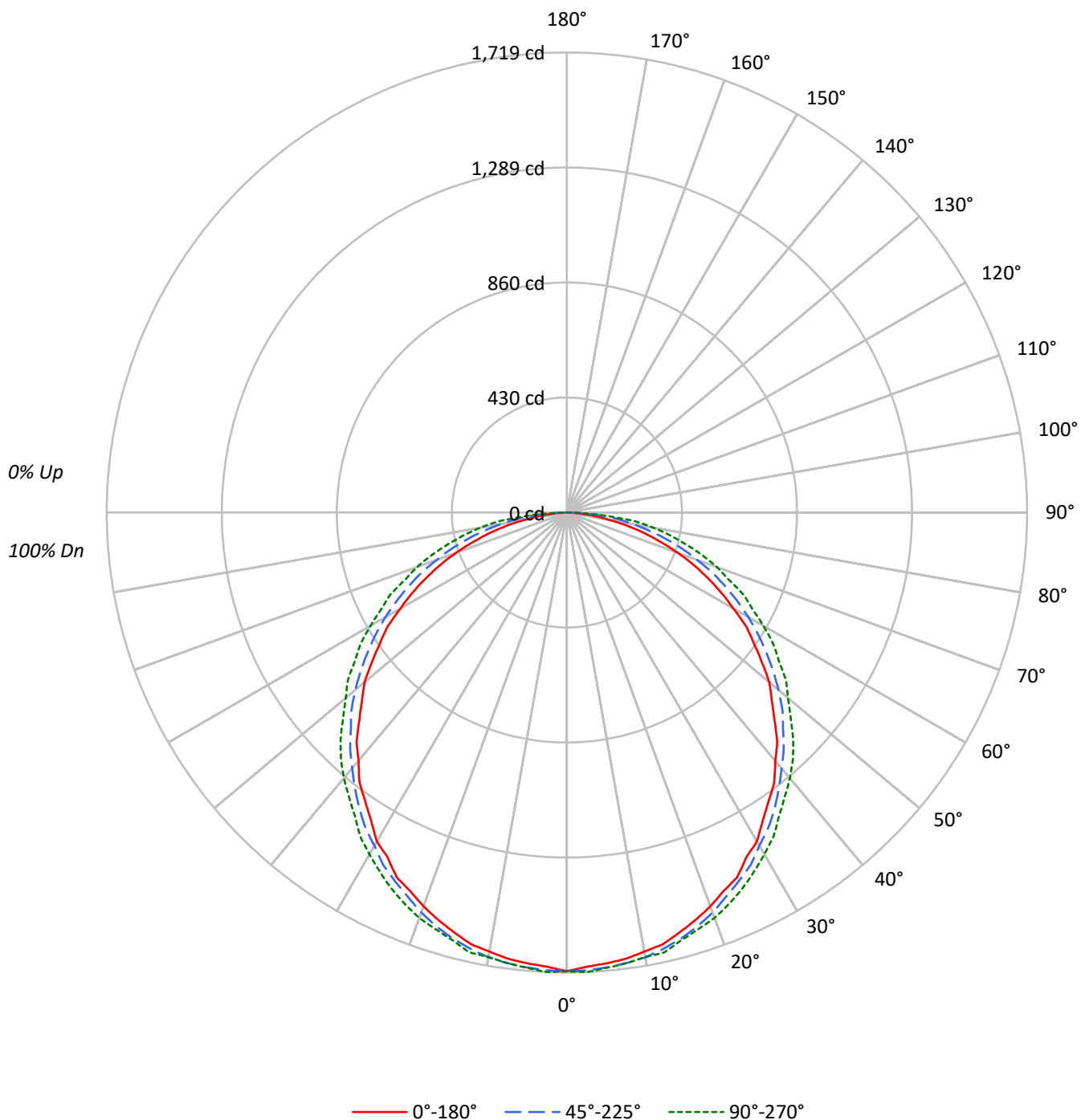
Lumens per Lamp: N/A  
Luminaire Lumens: 5049.0 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.1  
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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 108 | 103 | 99  | 95  | 105 | 101 | 97  | 93  | 97  | 93  | 90  |  | 93  | 90  | 87  |  | 89  |
| 2   | 98  | 90  | 82  | 76  | 95  | 88  | 81  | 76  | 84  | 79  | 74  |  | 81  | 76  | 72  |  | 78  |
| 3   | 89  | 78  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  |  | 71  | 65  | 60  |  | 68  |
| 4   | 82  | 69  | 60  | 53  | 79  | 68  | 59  | 53  | 65  | 58  | 52  |  | 63  | 57  | 51  |  | 61  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 58  | 51  | 45  |  | 56  | 50  | 44  |  | 55  |
| 6   | 69  | 56  | 46  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 39  |  | 51  | 44  | 39  |  | 49  |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 35  |  | 46  | 40  | 34  |  | 45  |
| 8   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  |  | 43  | 36  | 31  |  | 41  |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |
| 10  | 52  | 39  | 31  | 25  | 51  | 38  | 31  | 25  | 37  | 30  | 25  |  | 36  | 30  | 25  |  | 35  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5368 | 5368 | 5368 |
| 5°  | 5315 | 5364 | 5369 |
| 10° | 5298 | 5367 | 5362 |
| 15° | 5267 | 5342 | 5362 |
| 20° | 5218 | 5300 | 5373 |
| 25° | 5197 | 5250 | 5357 |
| 30° | 5131 | 5199 | 5332 |
| 35° | 5024 | 5166 | 5284 |
| 40° | 4949 | 5101 | 5296 |
| 45° | 4856 | 5054 | 5293 |
| 50° | 4807 | 5025 | 5251 |
| 55° | 4654 | 4958 | 5278 |
| 60° | 4497 | 4904 | 5309 |
| 65° | 4303 | 4829 | 5401 |
| 70° | 4044 | 4736 | 5458 |
| 75° | 3643 | 4652 | 5568 |
| 80° | 2979 | 4568 | 5931 |
| 85° | 1944 | 4548 | 5547 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 6223 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 162.0  | 3.2       |
| 10°-20°   | 464.0  | 9.2       |
| 20°-30°   | 701.2  | 13.9      |
| 30°-40°   | 845.7  | 16.8      |
| 40°-50°   | 884.1  | 17.5      |
| 50°-60°   | 815.3  | 16.1      |
| 60°-70°   | 646.0  | 12.8      |
| 70°-80°   | 403.9  | 8.0       |
| 80°-90°   | 126.7  | 2.5       |
| 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°    | 1327.2 | 26.3      |
| 0°-40°    | 2172.9 | 43.0      |
| 0°-60°    | 3872.3 | 76.7      |
| 0°-90°    | 5049.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5049.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1714 | 1714  | 1714 | 1714  | 1714 |      |
| 5°  | 1691 | 1699  | 1706 | 1713  | 1708 | 161  |
| 15° | 1625 | 1632  | 1648 | 1659  | 1654 | 458  |
| 25° | 1504 | 1500  | 1520 | 1541  | 1550 | 690  |
| 35° | 1314 | 1330  | 1351 | 1374  | 1382 | 824  |
| 45° | 1096 | 1112  | 1141 | 1171  | 1195 | 849  |
| 55° | 852  | 872   | 908  | 958   | 967  | 764  |
| 65° | 581  | 605   | 652  | 703   | 729  | 575  |
| 75° | 301  | 326   | 384  | 439   | 460  | 317  |
| 85° | 54   | 77    | 127  | 148   | 154  | 71   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1714.2 | 1714.2 | 1714.2 | 1714.2 | 1714.2 |
| 2.5°  | 1698.7 | 1706.5 | 1712.6 | 1711.1 | 1718.8 |
| 5°    | 1691.0 | 1698.7 | 1706.5 | 1712.6 | 1708.0 |
| 7.5°  | 1681.8 | 1689.5 | 1698.7 | 1708.0 | 1698.7 |
| 10°   | 1666.3 | 1670.9 | 1687.9 | 1689.5 | 1686.4 |
| 12.5° | 1652.4 | 1657.0 | 1669.4 | 1680.2 | 1683.3 |
| 15°   | 1624.6 | 1632.3 | 1647.8 | 1658.6 | 1654.0 |
| 17.5° | 1596.8 | 1607.6 | 1621.5 | 1632.3 | 1632.3 |
| 20°   | 1565.9 | 1573.7 | 1590.6 | 1598.4 | 1612.3 |
| 22.5° | 1530.4 | 1539.7 | 1553.6 | 1575.2 | 1582.9 |
| 25°   | 1504.2 | 1499.5 | 1519.6 | 1541.2 | 1550.5 |
| 27.5° | 1451.6 | 1457.8 | 1485.6 | 1505.7 | 1513.4 |
| 30°   | 1419.2 | 1422.3 | 1437.8 | 1465.5 | 1474.8 |
| 32.5° | 1362.1 | 1371.3 | 1399.1 | 1419.2 | 1436.2 |
| 35°   | 1314.2 | 1329.6 | 1351.3 | 1374.4 | 1382.2 |
| 37.5° | 1272.5 | 1275.6 | 1300.3 | 1331.2 | 1337.4 |
| 40°   | 1210.7 | 1229.3 | 1247.8 | 1286.4 | 1295.7 |
| 42.5° | 1162.9 | 1172.1 | 1198.4 | 1235.4 | 1249.3 |
| 45°   | 1096.5 | 1111.9 | 1141.2 | 1170.6 | 1195.3 |
| 47.5° | 1037.8 | 1053.2 | 1091.8 | 1128.9 | 1133.5 |
| 50°   | 986.8  | 993.0  | 1031.6 | 1073.3 | 1077.9 |
| 52.5° | 917.3  | 932.8  | 969.8  | 1016.2 | 1031.6 |
| 55°   | 852.5  | 872.5  | 908.1  | 957.5  | 966.7  |
| 57.5° | 795.3  | 804.6  | 846.3  | 895.7  | 914.2  |
| 60°   | 718.1  | 744.4  | 783.0  | 830.8  | 847.8  |
| 62.5° | 651.7  | 676.4  | 718.1  | 762.9  | 781.4  |
| 65°   | 580.7  | 605.4  | 651.7  | 702.7  | 728.9  |
| 67.5° | 512.7  | 532.8  | 588.4  | 640.9  | 653.2  |
| 70°   | 441.7  | 464.8  | 517.3  | 571.4  | 596.1  |
| 72.5° | 367.5  | 393.8  | 452.5  | 503.4  | 529.7  |
| 75°   | 301.1  | 325.8  | 384.5  | 438.6  | 460.2  |
| 77.5° | 231.6  | 259.4  | 316.6  | 370.6  | 395.3  |
| 80°   | 165.2  | 193.0  | 253.3  | 307.3  | 328.9  |
| 82.5° | 106.6  | 135.9  | 193.0  | 240.9  | 259.4  |
| 85°   | 54.1   | 77.2   | 126.6  | 148.3  | 154.4  |
| 87.5° | 17.0   | 27.8   | 43.2   | 49.4   | 49.4   |
| 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 | 17.36            | 19.03 | 17.73 | 19.34 | 19.66 | 18.15          | 19.82 | 18.52 | 20.13 | 20.45 |
|                 | 3H   | 19.14            | 20.66 | 19.52 | 20.98 | 21.34 | 20.30          | 21.81 | 20.67 | 22.13 | 22.49 |
|                 | 4H   | 19.78            | 21.21 | 20.18 | 21.56 | 21.93 | 21.22          | 22.65 | 21.62 | 22.99 | 23.37 |
|                 | 6H   | 20.21            | 21.53 | 20.62 | 21.90 | 22.29 | 22.05          | 23.37 | 22.46 | 23.73 | 24.12 |
|                 | 8H   | 20.32            | 21.59 | 20.74 | 21.98 | 22.38 | 22.39          | 23.66 | 22.81 | 24.05 | 24.45 |
|                 | 12H  | 20.38            | 21.59 | 20.80 | 21.97 | 22.40 | 22.63          | 23.85 | 23.06 | 24.23 | 24.66 |
| 4H              | 2H   | 18.14            | 19.56 | 18.53 | 19.91 | 20.29 | 18.75          | 20.18 | 19.15 | 20.52 | 20.90 |
|                 | 3H   | 20.15            | 21.35 | 20.55 | 21.75 | 22.15 | 21.14          | 22.34 | 21.54 | 22.74 | 23.13 |
|                 | 4H   | 20.91            | 22.00 | 21.34 | 22.41 | 22.85 | 22.22          | 23.31 | 22.65 | 23.73 | 24.16 |
|                 | 6H   | 21.45            | 22.41 | 21.91 | 22.85 | 23.30 | 23.22          | 24.18 | 23.67 | 24.62 | 25.07 |
|                 | 8H   | 21.61            | 22.51 | 22.07 | 22.95 | 23.41 | 23.65          | 24.54 | 24.11 | 24.99 | 25.45 |
|                 | 12H  | 21.70            | 22.51 | 22.18 | 22.98 | 23.45 | 23.96          | 24.77 | 24.44 | 25.24 | 25.71 |
| 8H              | 4H   | 21.39            | 22.28 | 21.85 | 22.73 | 23.19 | 22.53          | 23.43 | 22.99 | 23.87 | 24.33 |
|                 | 6H   | 22.08            | 22.83 | 22.57 | 23.31 | 23.79 | 23.69          | 24.44 | 24.19 | 24.93 | 25.40 |
|                 | 8H   | 22.30            | 22.98 | 22.81 | 23.48 | 23.97 | 24.24          | 24.91 | 24.75 | 25.42 | 25.90 |
|                 | 12H  | 22.45            | 23.05 | 22.96 | 23.54 | 24.10 | 24.67          | 25.26 | 25.17 | 25.75 | 26.31 |
| 12H             | 4H   | 21.48            | 22.29 | 21.96 | 22.77 | 23.23 | 22.56          | 23.37 | 23.04 | 23.84 | 24.31 |
|                 | 6H   | 22.22            | 22.90 | 22.73 | 23.40 | 23.89 | 23.75          | 24.43 | 24.26 | 24.93 | 25.41 |
|                 | 8H   | 22.53            | 23.12 | 23.03 | 23.61 | 24.17 | 24.37          | 24.96 | 24.87 | 25.45 | 26.01 |