

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: P1585806

Luminaire Tested: 14CZSP-SB-54VHE-L940-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1585806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-SB-54VHE-L940-S  
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 5200 lumens, 90CRI, Smooth Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

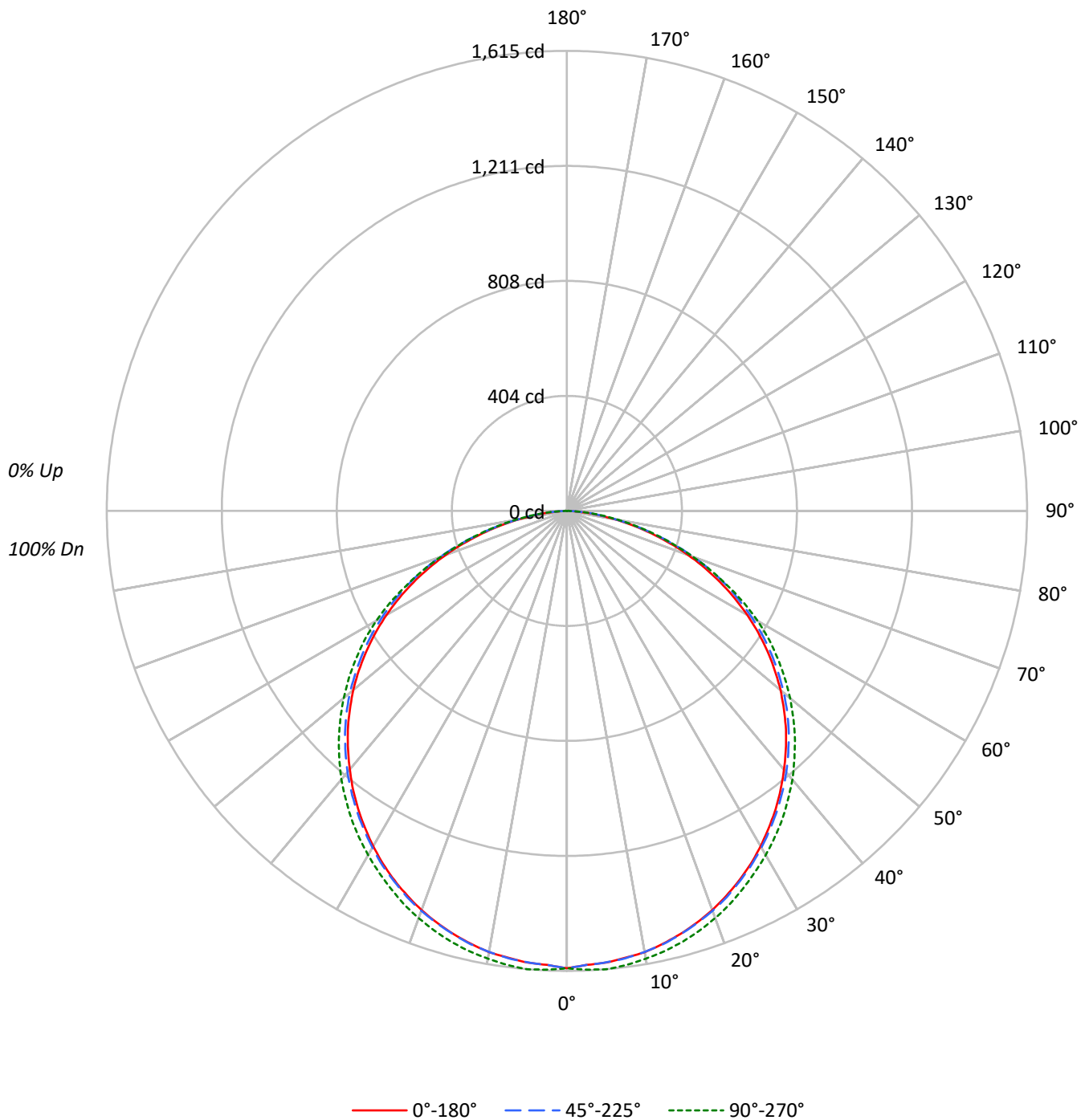
Lumens per Lamp: N/A  
Luminaire Lumens: 4738.0 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.5  
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   | 109 | 104 | 99  | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 93  | 91  | 88  |  | 90  |
| 2   | 99  | 90  | 83  | 77  | 96  | 88  | 82  | 77  | 85  | 79  | 75  |  | 81  | 77  | 73  |  | 78  |
| 3   | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 64  | 74  | 68  | 62  |  | 72  | 66  | 61  |  | 69  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  |  | 64  | 57  | 52  |  | 61  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  |  | 57  | 50  | 45  |  | 55  |
| 6   | 70  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  |  | 52  | 45  | 40  |  | 50  |
| 7   | 64  | 51  | 42  | 36  | 63  | 50  | 41  | 35  | 48  | 41  | 35  |  | 47  | 40  | 35  |  | 46  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 37  | 32  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  |
| 9   | 56  | 42  | 34  | 28  | 55  | 42  | 34  | 28  | 41  | 33  | 28  |  | 40  | 33  | 28  |  | 39  |
| 10  | 52  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 30  | 26  |  | 37  | 30  | 25  |  | 36  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 5410 | 5410 | 5410 |
| 5°  | 5384 | 5381 | 5463 |
| 10° | 5382 | 5379 | 5461 |
| 15° | 5366 | 5370 | 5464 |
| 20° | 5349 | 5359 | 5455 |
| 25° | 5322 | 5335 | 5438 |
| 30° | 5290 | 5313 | 5428 |
| 35° | 5255 | 5288 | 5426 |
| 40° | 5215 | 5269 | 5416 |
| 45° | 5182 | 5248 | 5393 |
| 50° | 5130 | 5210 | 5359 |
| 55° | 5050 | 5144 | 5306 |
| 60° | 4928 | 5056 | 5212 |
| 65° | 4743 | 4923 | 4974 |
| 70° | 4460 | 4668 | 4639 |
| 75° | 4005 | 4175 | 4203 |
| 80° | 3308 | 3477 | 3660 |
| 85° | 2215 | 2579 | 2722 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5393 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 152.2  | 3.2       |
| 10°-20°   | 437.4  | 9.2       |
| 20°-30°   | 666.1  | 14.1      |
| 30°-40°   | 810.6  | 17.1      |
| 40°-50°   | 854.6  | 18.0      |
| 50°-60°   | 787.1  | 16.6      |
| 60°-70°   | 607.9  | 12.8      |
| 70°-80°   | 340.2  | 7.2       |
| 80°-90°   | 82.0   | 1.7       |
| 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°    | 1255.6 | 26.5      |
| 0°-40°    | 2066.3 | 43.6      |
| 0°-60°    | 3707.9 | 78.3      |
| 0°-90°    | 4738.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4738.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1606 | 1606  | 1606 | 1606  | 1606 |      |
| 5°  | 1592 | 1614  | 1591 | 1593  | 1615 | 151  |
| 15° | 1538 | 1559  | 1540 | 1548  | 1566 | 434  |
| 25° | 1431 | 1452  | 1435 | 1444  | 1463 | 660  |
| 35° | 1278 | 1296  | 1286 | 1302  | 1319 | 799  |
| 45° | 1088 | 1103  | 1101 | 1118  | 1132 | 838  |
| 55° | 860  | 874   | 876  | 894   | 903  | 767  |
| 65° | 595  | 612   | 617  | 623   | 624  | 588  |
| 75° | 308  | 326   | 321  | 320   | 323  | 326  |
| 85° | 57   | 63    | 67   | 75    | 70   | 73   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1605.5 | 1605.5 | 1605.5 | 1605.5 | 1605.5 |
| 2.5°  | 1595.4 | 1618.6 | 1595.4 | 1599.0 | 1612.1 |
| 5°    | 1591.7 | 1614.2 | 1591.0 | 1593.2 | 1615.0 |
| 7.5°  | 1582.3 | 1605.5 | 1583.8 | 1586.7 | 1607.7 |
| 10°   | 1572.9 | 1593.9 | 1572.2 | 1575.8 | 1596.1 |
| 12.5° | 1556.9 | 1578.7 | 1558.4 | 1562.7 | 1583.0 |
| 15°   | 1538.1 | 1559.1 | 1539.5 | 1548.2 | 1566.4 |
| 17.5° | 1516.3 | 1536.6 | 1517.7 | 1527.9 | 1545.3 |
| 20°   | 1491.6 | 1511.2 | 1494.5 | 1501.8 | 1521.4 |
| 22.5° | 1462.6 | 1482.9 | 1467.0 | 1473.5 | 1494.5 |
| 25°   | 1431.4 | 1451.7 | 1435.0 | 1444.5 | 1462.6 |
| 27.5° | 1397.3 | 1416.9 | 1402.4 | 1414.0 | 1430.0 |
| 30°   | 1359.6 | 1378.5 | 1365.4 | 1379.2 | 1395.1 |
| 32.5° | 1319.0 | 1339.3 | 1326.2 | 1342.2 | 1358.1 |
| 35°   | 1277.6 | 1296.5 | 1285.6 | 1301.5 | 1319.0 |
| 37.5° | 1232.6 | 1250.8 | 1242.8 | 1259.5 | 1275.4 |
| 40°   | 1185.5 | 1205.8 | 1197.8 | 1215.2 | 1231.2 |
| 42.5° | 1136.9 | 1156.4 | 1149.9 | 1168.1 | 1181.8 |
| 45°   | 1087.5 | 1102.8 | 1101.3 | 1118.0 | 1131.8 |
| 47.5° | 1033.1 | 1052.0 | 1049.1 | 1065.8 | 1078.1 |
| 50°   | 978.7  | 993.9  | 993.9  | 1009.9 | 1022.2 |
| 52.5° | 919.9  | 935.2  | 935.2  | 954.0  | 964.2  |
| 55°   | 859.7  | 874.2  | 875.7  | 893.8  | 903.2  |
| 57.5° | 795.9  | 811.1  | 814.0  | 832.1  | 840.9  |
| 60°   | 731.3  | 745.8  | 750.2  | 768.3  | 773.4  |
| 62.5° | 663.8  | 681.2  | 683.4  | 697.9  | 700.8  |
| 65°   | 594.9  | 612.3  | 617.4  | 623.2  | 623.9  |
| 67.5° | 524.5  | 542.7  | 547.8  | 547.8  | 547.8  |
| 70°   | 452.7  | 469.4  | 473.8  | 470.9  | 470.9  |
| 72.5° | 380.2  | 398.3  | 396.1  | 393.2  | 394.7  |
| 75°   | 307.6  | 326.5  | 320.7  | 319.9  | 322.8  |
| 77.5° | 238.0  | 256.1  | 246.7  | 252.5  | 253.2  |
| 80°   | 170.5  | 184.3  | 179.2  | 187.9  | 188.6  |
| 82.5° | 109.6  | 118.3  | 119.7  | 127.0  | 124.8  |
| 85°   | 57.3   | 63.1   | 66.7   | 74.7   | 70.4   |
| 87.5° | 18.1   | 23.9   | 21.8   | 25.4   | 19.6   |
| 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 | 17.90            | 19.56 | 18.26 | 19.87 | 20.18 | 18.12          | 19.77 | 18.48 | 20.09 | 20.40 |
|                 | 3H   | 19.72            | 21.22 | 20.10 | 21.55 | 21.91 | 19.92          | 21.42 | 20.29 | 21.74 | 22.10 |
|                 | 4H   | 20.37            | 21.78 | 20.77 | 22.13 | 22.50 | 20.55          | 21.97 | 20.95 | 22.31 | 22.69 |
|                 | 6H   | 20.80            | 22.11 | 21.21 | 22.47 | 22.86 | 21.01          | 22.32 | 21.42 | 22.68 | 23.07 |
|                 | 8H   | 20.91            | 22.16 | 21.33 | 22.55 | 22.94 | 21.14          | 22.39 | 21.56 | 22.78 | 23.18 |
|                 | 12H  | 20.96            | 22.16 | 21.39 | 22.54 | 22.97 | 21.22          | 22.41 | 21.64 | 22.80 | 23.22 |
| 4H              | 2H   | 18.58            | 19.99 | 18.98 | 20.34 | 20.71 | 18.75          | 20.16 | 19.15 | 20.51 | 20.88 |
|                 | 3H   | 20.62            | 21.81 | 21.03 | 22.20 | 22.60 | 20.76          | 21.95 | 21.17 | 22.35 | 22.74 |
|                 | 4H   | 21.40            | 22.47 | 21.83 | 22.89 | 23.32 | 21.52          | 22.59 | 21.95 | 23.01 | 23.44 |
|                 | 6H   | 21.95            | 22.89 | 22.40 | 23.33 | 23.78 | 22.10          | 23.03 | 22.55 | 23.47 | 23.93 |
|                 | 8H   | 22.10            | 22.97 | 22.56 | 23.42 | 23.88 | 22.27          | 23.15 | 22.73 | 23.59 | 24.05 |
|                 | 12H  | 22.18            | 22.97 | 22.66 | 23.44 | 23.91 | 22.38          | 23.17 | 22.86 | 23.65 | 24.12 |
| 8H              | 4H   | 21.71            | 22.59 | 22.17 | 23.03 | 23.49 | 21.82          | 22.69 | 22.28 | 23.13 | 23.60 |
|                 | 6H   | 22.37            | 23.10 | 22.86 | 23.58 | 24.06 | 22.50          | 23.23 | 22.99 | 23.71 | 24.19 |
|                 | 8H   | 22.57            | 23.23 | 23.08 | 23.73 | 24.22 | 22.74          | 23.39 | 23.24 | 23.90 | 24.38 |
|                 | 12H  | 22.71            | 23.29 | 23.21 | 23.78 | 24.33 | 22.91          | 23.49 | 23.42 | 23.98 | 24.54 |
| 12H             | 4H   | 21.74            | 22.53 | 22.22 | 23.00 | 23.47 | 21.84          | 22.63 | 22.32 | 23.11 | 23.58 |
|                 | 6H   | 22.41            | 23.07 | 22.92 | 23.57 | 24.06 | 22.54          | 23.19 | 23.05 | 23.70 | 24.18 |
|                 | 8H   | 22.67            | 23.25 | 23.17 | 23.74 | 24.30 | 22.83          | 23.41 | 23.34 | 23.90 | 24.46 |

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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