

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: P1585757

Luminaire Tested: 14CZSP-SB-52-L840

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1585757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-SB-52-L840  
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 4500 lumens, 80CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

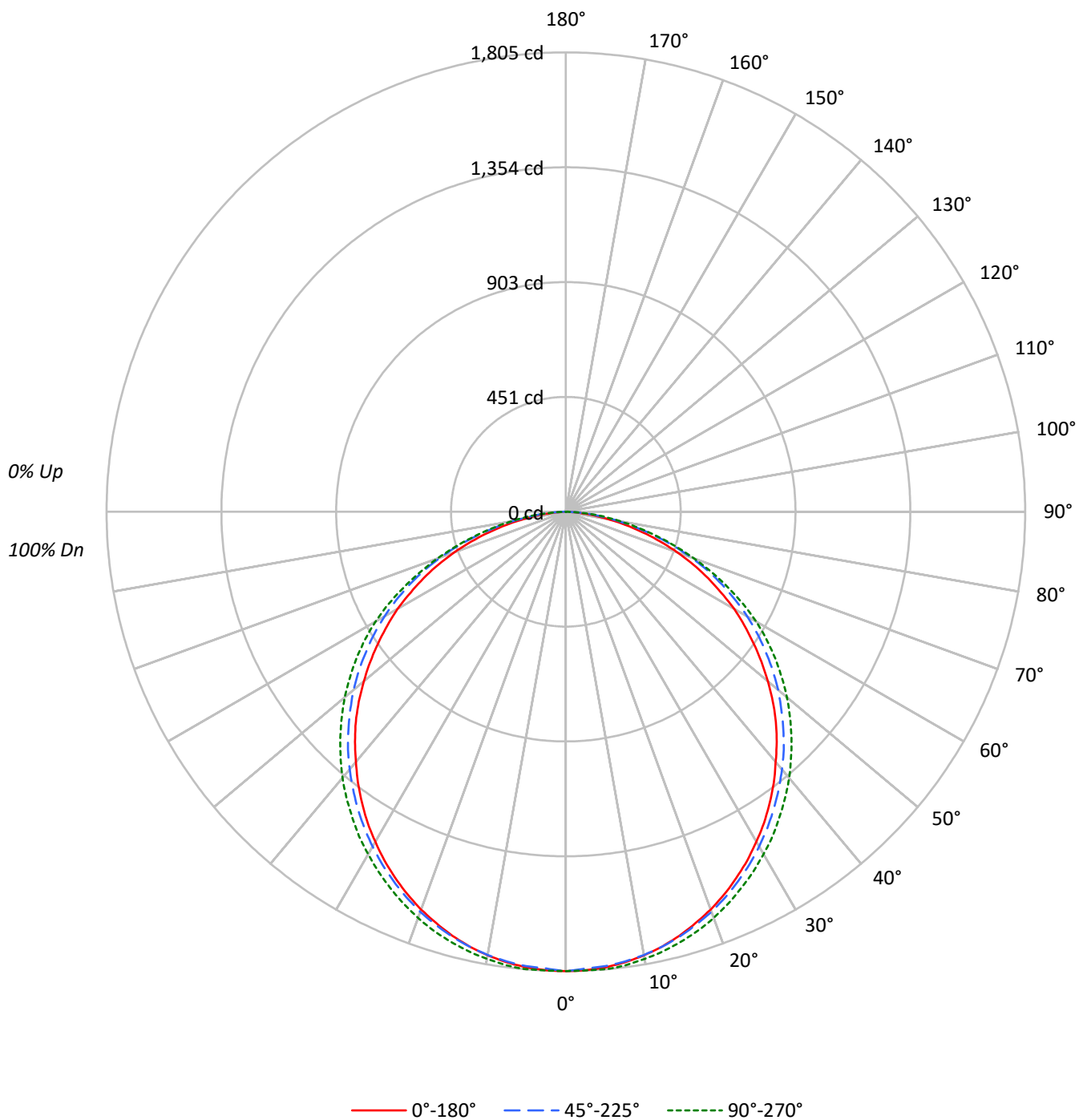
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5215.0 lumens  
Efficiency: N/A  
Efficacy: 141.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 36.9  
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 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 93  | 91  | 88  |  | 90  |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 79  | 75  |  | 82  | 77  | 73  |  | 79  |
| 3   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 61  |  | 69  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  |  | 64  | 58  | 52  |  | 62  |
| 5   | 75  | 62  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  |  | 57  | 51  | 45  |  | 55  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 40  | 53  | 46  | 40  |  | 52  | 45  | 40  |  | 50  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 35  |  | 47  | 40  | 35  |  | 46  |
| 8   | 60  | 46  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 31  |  | 42  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 28  |  | 40  | 33  | 28  |  | 39  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6082 | 6082 | 6082 |
| 5°  | 6078 | 6063 | 6103 |
| 10° | 6055 | 6050 | 6104 |
| 15° | 6017 | 6030 | 6101 |
| 20° | 5964 | 5999 | 6091 |
| 25° | 5898 | 5955 | 6066 |
| 30° | 5825 | 5910 | 6044 |
| 35° | 5744 | 5862 | 6023 |
| 40° | 5643 | 5812 | 6007 |
| 45° | 5563 | 5760 | 5975 |
| 50° | 5430 | 5706 | 5946 |
| 55° | 5291 | 5631 | 5901 |
| 60° | 5149 | 5548 | 5822 |
| 65° | 4917 | 5403 | 5600 |
| 70° | 4588 | 5158 | 5285 |
| 75° | 4088 | 4675 | 4812 |
| 80° | 3338 | 4052 | 4257 |
| 85° | 2208 | 3224 | 3456 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5975 cd/sqm

TEST NUMBER: P1585757

CATALOG NUMBER: 14CZSP-SB-52-L840

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 171.0  | 3.3       |
| 10°-20°   | 489.7  | 9.4       |
| 20°-30°   | 741.5  | 14.2      |
| 30°-40°   | 895.0  | 17.2      |
| 40°-50°   | 934.7  | 17.9      |
| 50°-60°   | 855.0  | 16.4      |
| 60°-70°   | 661.0  | 12.7      |
| 70°-80°   | 374.2  | 7.2       |
| 80°-90°   | 92.9   | 1.8       |
| 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°    | 1402.2 | 26.9      |
| 0°-40°    | 2297.2 | 44.0      |
| 0°-60°    | 4086.8 | 78.4      |
| 0°-90°    | 5215.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 5215.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1805 | 1805  | 1805 | 1805  | 1805 |      |
| 5°  | 1797 | 1810  | 1792 | 1794  | 1804 | 171  |
| 15° | 1725 | 1740  | 1728 | 1737  | 1749 | 486  |
| 25° | 1586 | 1607  | 1602 | 1617  | 1632 | 731  |
| 35° | 1396 | 1416  | 1425 | 1449  | 1464 | 874  |
| 45° | 1167 | 1190  | 1209 | 1240  | 1254 | 899  |
| 55° | 901  | 928   | 958  | 989   | 1004 | 805  |
| 65° | 617  | 642   | 678  | 698   | 702  | 609  |
| 75° | 314  | 341   | 359  | 368   | 370  | 333  |
| 85° | 57   | 66    | 83   | 87    | 89   | 74   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1585757

CATALOG NUMBER: 14CZSP-SB-52-L840

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1805.1 | 1805.1 | 1805.1 | 1805.1 | 1805.1 |
| 2.5°  | 1802.9 | 1815.6 | 1796.1 | 1799.9 | 1803.6 |
| 5°    | 1796.9 | 1809.6 | 1792.4 | 1793.9 | 1804.4 |
| 7.5°  | 1785.6 | 1799.9 | 1781.8 | 1784.8 | 1797.6 |
| 10°   | 1769.8 | 1784.1 | 1768.3 | 1771.3 | 1784.1 |
| 12.5° | 1749.5 | 1763.8 | 1750.3 | 1754.8 | 1769.1 |
| 15°   | 1724.8 | 1739.8 | 1728.5 | 1736.8 | 1748.8 |
| 17.5° | 1694.7 | 1713.5 | 1701.5 | 1714.2 | 1726.3 |
| 20°   | 1663.2 | 1681.9 | 1672.9 | 1684.2 | 1698.5 |
| 22.5° | 1627.1 | 1645.9 | 1639.1 | 1651.1 | 1666.9 |
| 25°   | 1586.5 | 1606.8 | 1601.6 | 1616.6 | 1631.6 |
| 27.5° | 1544.5 | 1564.0 | 1562.5 | 1579.0 | 1594.8 |
| 30°   | 1497.1 | 1518.2 | 1518.9 | 1538.5 | 1553.5 |
| 32.5° | 1449.8 | 1468.6 | 1473.1 | 1494.9 | 1512.2 |
| 35°   | 1396.5 | 1416.0 | 1425.0 | 1449.1 | 1464.1 |
| 37.5° | 1342.4 | 1364.2 | 1373.9 | 1400.2 | 1416.0 |
| 40°   | 1283.0 | 1307.8 | 1321.4 | 1349.2 | 1365.7 |
| 42.5° | 1226.7 | 1249.2 | 1267.3 | 1295.1 | 1310.1 |
| 45°   | 1167.4 | 1189.9 | 1208.7 | 1239.5 | 1253.8 |
| 47.5° | 1103.5 | 1128.3 | 1148.6 | 1178.6 | 1194.4 |
| 50°   | 1035.9 | 1062.9 | 1088.5 | 1117.8 | 1134.3 |
| 52.5° | 969.0  | 995.3  | 1024.6 | 1053.2 | 1069.7 |
| 55°   | 900.7  | 927.7  | 958.5  | 988.6  | 1004.4 |
| 57.5° | 831.6  | 858.6  | 892.4  | 919.5  | 936.0  |
| 60°   | 764.0  | 788.8  | 823.3  | 850.4  | 863.9  |
| 62.5° | 687.3  | 715.9  | 751.2  | 778.2  | 785.8  |
| 65°   | 616.7  | 642.3  | 677.6  | 697.9  | 702.4  |
| 67.5° | 541.6  | 567.2  | 602.5  | 613.7  | 620.5  |
| 70°   | 465.7  | 492.8  | 523.6  | 531.1  | 536.4  |
| 72.5° | 389.1  | 416.9  | 441.0  | 448.5  | 453.0  |
| 75°   | 314.0  | 341.0  | 359.1  | 368.1  | 369.6  |
| 77.5° | 241.1  | 265.9  | 282.5  | 293.0  | 293.0  |
| 80°   | 172.0  | 190.8  | 208.8  | 220.1  | 219.4  |
| 82.5° | 109.7  | 123.9  | 142.7  | 151.0  | 156.2  |
| 85°   | 57.1   | 66.1   | 83.4   | 87.1   | 89.4   |
| 87.5° | 18.0   | 23.3   | 30.0   | 24.8   | 24.0   |
| 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 | 17.95            | 19.60 | 18.32 | 19.92 | 20.23 | 18.49          | 20.14 | 18.86 | 20.46 | 20.77 |
|                 | 3H   | 19.73            | 21.22 | 20.10 | 21.55 | 21.91 | 20.35          | 21.85 | 20.73 | 22.17 | 22.53 |
|                 | 4H   | 20.35            | 21.76 | 20.75 | 22.10 | 22.48 | 21.03          | 22.43 | 21.42 | 22.78 | 23.16 |
|                 | 6H   | 20.75            | 22.06 | 21.16 | 22.42 | 22.81 | 21.51          | 22.82 | 21.92 | 23.18 | 23.57 |
|                 | 8H   | 20.85            | 22.10 | 21.28 | 22.49 | 22.89 | 21.67          | 22.92 | 22.09 | 23.30 | 23.70 |
|                 | 12H  | 20.90            | 22.10 | 21.33 | 22.48 | 22.91 | 21.77          | 22.96 | 22.19 | 23.34 | 23.77 |
| 4H              | 2H   | 18.69            | 20.10 | 19.09 | 20.45 | 20.82 | 19.11          | 20.52 | 19.51 | 20.87 | 21.24 |
|                 | 3H   | 20.68            | 21.87 | 21.09 | 22.26 | 22.66 | 21.19          | 22.37 | 21.60 | 22.77 | 23.17 |
|                 | 4H   | 21.43            | 22.50 | 21.86 | 22.92 | 23.35 | 21.99          | 23.06 | 22.42 | 23.48 | 23.91 |
|                 | 6H   | 21.95            | 22.89 | 22.40 | 23.33 | 23.78 | 22.61          | 23.54 | 23.06 | 23.98 | 24.44 |
|                 | 8H   | 22.09            | 22.96 | 22.55 | 23.40 | 23.87 | 22.81          | 23.69 | 23.27 | 24.13 | 24.59 |
|                 | 12H  | 22.16            | 22.95 | 22.64 | 23.43 | 23.89 | 22.95          | 23.74 | 23.43 | 24.21 | 24.68 |
| 8H              | 4H   | 21.79            | 22.66 | 22.25 | 23.10 | 23.57 | 22.28          | 23.16 | 22.74 | 23.60 | 24.06 |
|                 | 6H   | 22.42            | 23.15 | 22.91 | 23.64 | 24.11 | 23.02          | 23.74 | 23.51 | 24.23 | 24.70 |
|                 | 8H   | 22.61            | 23.27 | 23.12 | 23.77 | 24.26 | 23.29          | 23.94 | 23.80 | 24.45 | 24.93 |
|                 | 12H  | 22.74            | 23.32 | 23.25 | 23.81 | 24.37 | 23.49          | 24.07 | 24.00 | 24.56 | 25.12 |
| 12H             | 4H   | 21.83            | 22.62 | 22.31 | 23.09 | 23.56 | 22.31          | 23.09 | 22.79 | 23.57 | 24.04 |
|                 | 6H   | 22.48            | 23.14 | 22.99 | 23.64 | 24.13 | 23.06          | 23.71 | 23.57 | 24.22 | 24.70 |
|                 | 8H   | 22.73            | 23.31 | 23.24 | 23.80 | 24.36 | 23.38          | 23.96 | 23.89 | 24.45 | 25.01 |