

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: P1585699

Luminaire Tested: 14CZSP-SB-43HE-L845

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1585699  
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-43HE-L845  
Description: 1x4 CZSP LED Luminaire, 4500K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

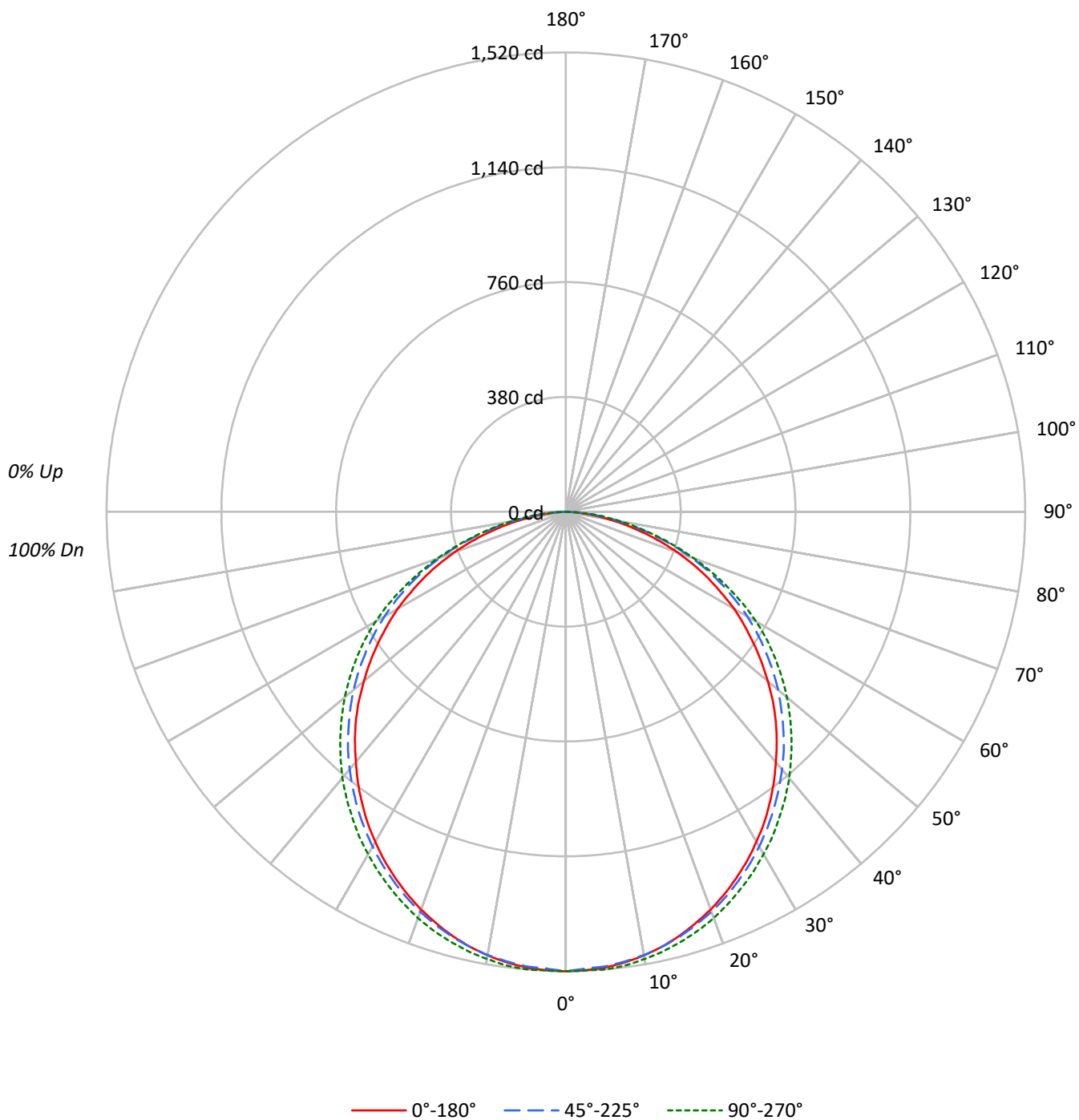
Lumens per Lamp: N/A  
Luminaire Lumens: 4392.0 lumens  
Efficiency: N/A  
Efficacy: 152.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.9  
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°  | 5123 | 5123 | 5123 |
| 5°  | 5119 | 5106 | 5140 |
| 10° | 5100 | 5096 | 5141 |
| 15° | 5067 | 5078 | 5138 |
| 20° | 5023 | 5052 | 5129 |
| 25° | 4968 | 5015 | 5109 |
| 30° | 4906 | 4977 | 5090 |
| 35° | 4838 | 4937 | 5072 |
| 40° | 4753 | 4895 | 5059 |
| 45° | 4685 | 4851 | 5032 |
| 50° | 4573 | 4805 | 5008 |
| 55° | 4456 | 4743 | 4969 |
| 60° | 4336 | 4673 | 4903 |
| 65° | 4141 | 4549 | 4716 |
| 70° | 3864 | 4345 | 4450 |
| 75° | 3442 | 3937 | 4053 |
| 80° | 2812 | 3413 | 3584 |
| 85° | 1860 | 2714 | 2911 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5032 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 144.0  | 3.3       |
| 10°-20°   | 412.5  | 9.4       |
| 20°-30°   | 624.4  | 14.2      |
| 30°-40°   | 753.7  | 17.2      |
| 40°-50°   | 787.1  | 17.9      |
| 50°-60°   | 720.1  | 16.4      |
| 60°-70°   | 556.7  | 12.7      |
| 70°-80°   | 315.2  | 7.2       |
| 80°-90°   | 78.3   | 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°    | 1180.9 | 26.9      |
| 0°-40°    | 1934.6 | 44.0      |
| 0°-60°    | 3441.9 | 78.4      |
| 0°-90°    | 4392.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4392.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1520 | 1520  | 1520 | 1520  | 1520 |      |
| 5°  | 1513 | 1524  | 1510 | 1511  | 1520 | 144  |
| 15° | 1453 | 1465  | 1456 | 1463  | 1473 | 410  |
| 25° | 1336 | 1353  | 1349 | 1362  | 1374 | 616  |
| 35° | 1176 | 1192  | 1200 | 1220  | 1233 | 736  |
| 45° | 983  | 1002  | 1018 | 1044  | 1056 | 757  |
| 55° | 758  | 781   | 807  | 833   | 846  | 678  |
| 65° | 519  | 541   | 571  | 588   | 592  | 513  |
| 75° | 264  | 287   | 302  | 310   | 311  | 280  |
| 85° | 48   | 56    | 70   | 73    | 75   | 62   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1520.3 | 1520.3 | 1520.3 | 1520.3 | 1520.3 |
| 2.5°  | 1518.4 | 1529.1 | 1512.7 | 1515.8 | 1519.0 |
| 5°    | 1513.3 | 1524.1 | 1509.5 | 1510.8 | 1519.6 |
| 7.5°  | 1503.8 | 1515.8 | 1500.6 | 1503.2 | 1513.9 |
| 10°   | 1490.5 | 1502.5 | 1489.3 | 1491.8 | 1502.5 |
| 12.5° | 1473.4 | 1485.5 | 1474.1 | 1477.9 | 1489.9 |
| 15°   | 1452.6 | 1465.2 | 1455.7 | 1462.7 | 1472.8 |
| 17.5° | 1427.3 | 1443.1 | 1433.0 | 1443.7 | 1453.8 |
| 20°   | 1400.7 | 1416.5 | 1408.9 | 1418.4 | 1430.4 |
| 22.5° | 1370.3 | 1386.1 | 1380.4 | 1390.6 | 1403.8 |
| 25°   | 1336.2 | 1353.2 | 1348.8 | 1361.5 | 1374.1 |
| 27.5° | 1300.7 | 1317.2 | 1315.9 | 1329.8 | 1343.1 |
| 30°   | 1260.9 | 1278.6 | 1279.2 | 1295.7 | 1308.3 |
| 32.5° | 1221.0 | 1236.8 | 1240.6 | 1259.0 | 1273.5 |
| 35°   | 1176.1 | 1192.5 | 1200.1 | 1220.4 | 1233.0 |
| 37.5° | 1130.5 | 1148.9 | 1157.1 | 1179.3 | 1192.5 |
| 40°   | 1080.6 | 1101.4 | 1112.8 | 1136.2 | 1150.2 |
| 42.5° | 1033.1 | 1052.1 | 1067.3 | 1090.7 | 1103.3 |
| 45°   | 983.1  | 1002.1 | 1017.9 | 1043.9 | 1055.9 |
| 47.5° | 929.4  | 950.2  | 967.3  | 992.6  | 1005.9 |
| 50°   | 872.4  | 895.2  | 916.7  | 941.4  | 955.3  |
| 52.5° | 816.1  | 838.3  | 862.9  | 887.0  | 900.9  |
| 55°   | 758.5  | 781.3  | 807.3  | 832.6  | 845.9  |
| 57.5° | 700.3  | 723.1  | 751.6  | 774.4  | 788.3  |
| 60°   | 643.4  | 664.3  | 693.4  | 716.2  | 727.5  |
| 62.5° | 578.9  | 602.9  | 632.6  | 655.4  | 661.8  |
| 65°   | 519.4  | 540.9  | 570.6  | 587.7  | 591.5  |
| 67.5° | 456.1  | 477.7  | 507.4  | 516.9  | 522.6  |
| 70°   | 392.2  | 415.0  | 441.0  | 447.3  | 451.7  |
| 72.5° | 327.7  | 351.1  | 371.4  | 377.7  | 381.5  |
| 75°   | 264.4  | 287.2  | 302.4  | 310.0  | 311.3  |
| 77.5° | 203.1  | 224.0  | 237.9  | 246.7  | 246.7  |
| 80°   | 144.9  | 160.7  | 175.9  | 185.4  | 184.7  |
| 82.5° | 92.4   | 104.4  | 120.2  | 127.2  | 131.6  |
| 85°   | 48.1   | 55.7   | 70.2   | 73.4   | 75.3   |
| 87.5° | 15.2   | 19.6   | 25.3   | 20.9   | 20.2   |
| 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            | 19.01 | 17.72 | 19.32 | 19.63 | 17.90          | 19.55 | 18.26 | 19.86 | 20.18 |
|                 | 3H   | 19.13            | 20.62 | 19.51 | 20.95 | 21.31 | 19.76          | 21.25 | 20.13 | 21.58 | 21.94 |
|                 | 4H   | 19.75            | 21.16 | 20.15 | 21.51 | 21.88 | 20.43          | 21.84 | 20.83 | 22.18 | 22.56 |
|                 | 6H   | 20.16            | 21.46 | 20.57 | 21.83 | 22.22 | 20.91          | 22.22 | 21.33 | 22.58 | 22.97 |
|                 | 8H   | 20.26            | 21.51 | 20.68 | 21.89 | 22.29 | 21.07          | 22.32 | 21.49 | 22.71 | 23.11 |
|                 | 12H  | 20.31            | 21.50 | 20.74 | 21.88 | 22.31 | 21.17          | 22.36 | 21.60 | 22.75 | 23.17 |
| 4H              | 2H   | 18.09            | 19.50 | 18.49 | 19.85 | 20.23 | 18.52          | 19.92 | 18.91 | 20.27 | 20.65 |
|                 | 3H   | 20.09            | 21.27 | 20.50 | 21.67 | 22.07 | 20.60          | 21.78 | 21.00 | 22.17 | 22.57 |
|                 | 4H   | 20.84            | 21.91 | 21.27 | 22.32 | 22.75 | 21.40          | 22.47 | 21.83 | 22.88 | 23.31 |
|                 | 6H   | 21.36            | 22.29 | 21.81 | 22.73 | 23.18 | 22.01          | 22.95 | 22.46 | 23.39 | 23.84 |
|                 | 8H   | 21.49            | 22.37 | 21.95 | 22.81 | 23.27 | 22.21          | 23.09 | 22.67 | 23.53 | 24.00 |
|                 | 12H  | 21.57            | 22.35 | 22.05 | 22.83 | 23.30 | 22.35          | 23.14 | 22.83 | 23.62 | 24.08 |
| 8H              | 4H   | 21.19            | 22.07 | 21.65 | 22.51 | 22.97 | 21.69          | 22.56 | 22.15 | 23.00 | 23.47 |
|                 | 6H   | 21.82            | 22.55 | 22.32 | 23.04 | 23.51 | 22.42          | 23.15 | 22.91 | 23.63 | 24.11 |
|                 | 8H   | 22.02            | 22.67 | 22.53 | 23.18 | 23.66 | 22.69          | 23.34 | 23.20 | 23.85 | 24.33 |
|                 | 12H  | 22.14            | 22.72 | 22.65 | 23.21 | 23.77 | 22.90          | 23.47 | 23.40 | 23.96 | 24.52 |
| 12H             | 4H   | 21.23            | 22.02 | 21.71 | 22.49 | 22.96 | 21.71          | 22.50 | 22.19 | 22.97 | 23.44 |
|                 | 6H   | 21.89            | 22.54 | 22.40 | 23.05 | 23.53 | 22.46          | 23.11 | 22.97 | 23.62 | 24.10 |
|                 | 8H   | 22.14            | 22.71 | 22.64 | 23.20 | 23.76 | 22.79          | 23.36 | 23.29 | 23.85 | 24.41 |