

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: P1585713

Luminaire Tested: 14CZSP-SB-47-L830

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1585713  
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-47-L830  
Description: 1x4 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

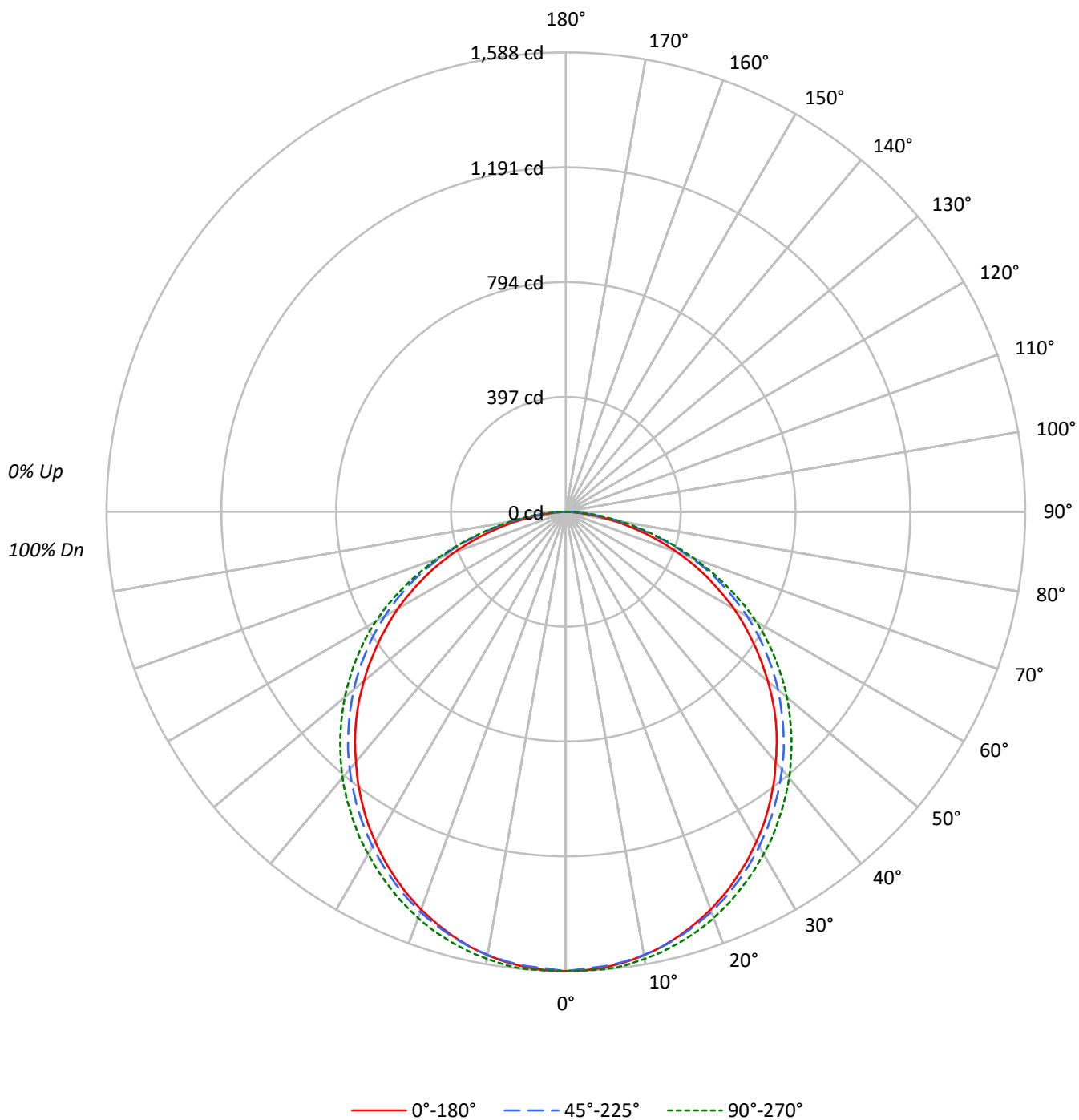
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4588.0 lumens  
Efficiency: N/A  
Efficacy: 139.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.8  
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°  | 5351 | 5351 | 5351 |
| 5°  | 5347 | 5334 | 5369 |
| 10° | 5327 | 5323 | 5370 |
| 15° | 5293 | 5305 | 5367 |
| 20° | 5247 | 5278 | 5358 |
| 25° | 5189 | 5239 | 5337 |
| 30° | 5125 | 5199 | 5318 |
| 35° | 5054 | 5157 | 5299 |
| 40° | 4965 | 5113 | 5285 |
| 45° | 4894 | 5067 | 5256 |
| 50° | 4778 | 5020 | 5231 |
| 55° | 4655 | 4954 | 5191 |
| 60° | 4529 | 4881 | 5122 |
| 65° | 4326 | 4753 | 4927 |
| 70° | 4036 | 4538 | 4649 |
| 75° | 3596 | 4113 | 4234 |
| 80° | 2936 | 3565 | 3745 |
| 85° | 1941 | 2838 | 3039 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5256 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 150.4  | 3.3       |
| 10°-20°   | 430.9  | 9.4       |
| 20°-30°   | 652.3  | 14.2      |
| 30°-40°   | 787.4  | 17.2      |
| 40°-50°   | 822.3  | 17.9      |
| 50°-60°   | 752.2  | 16.4      |
| 60°-70°   | 581.5  | 12.7      |
| 70°-80°   | 329.2  | 7.2       |
| 80°-90°   | 81.8   | 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°    | 1233.6 | 26.9      |
| 0°-40°    | 2021.0 | 44.0      |
| 0°-60°    | 3595.5 | 78.4      |
| 0°-90°    | 4588.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4588.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1588 | 1588  | 1588 | 1588  | 1588 |      |
| 5°  | 1581 | 1592  | 1577 | 1578  | 1587 | 150  |
| 15° | 1517 | 1531  | 1521 | 1528  | 1538 | 428  |
| 25° | 1396 | 1414  | 1409 | 1422  | 1435 | 643  |
| 35° | 1229 | 1246  | 1254 | 1275  | 1288 | 769  |
| 45° | 1027 | 1047  | 1063 | 1090  | 1103 | 791  |
| 55° | 792  | 816   | 843  | 870   | 884  | 709  |
| 65° | 543  | 565   | 596  | 614   | 618  | 536  |
| 75° | 276  | 300   | 316  | 324   | 325  | 293  |
| 85° | 50   | 58    | 73   | 77    | 79   | 65   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1588.1 | 1588.1 | 1588.1 | 1588.1 | 1588.1 |
| 2.5°  | 1586.1 | 1597.4 | 1580.2 | 1583.5 | 1586.8 |
| 5°    | 1580.8 | 1592.1 | 1576.9 | 1578.2 | 1587.4 |
| 7.5°  | 1570.9 | 1583.5 | 1567.6 | 1570.3 | 1581.5 |
| 10°   | 1557.0 | 1569.6 | 1555.7 | 1558.4 | 1569.6 |
| 12.5° | 1539.2 | 1551.8 | 1539.9 | 1543.8 | 1556.4 |
| 15°   | 1517.4 | 1530.6 | 1520.7 | 1528.0 | 1538.5 |
| 17.5° | 1491.0 | 1507.5 | 1496.9 | 1508.1 | 1518.7 |
| 20°   | 1463.2 | 1479.7 | 1471.8 | 1481.7 | 1494.3 |
| 22.5° | 1431.5 | 1448.0 | 1442.0 | 1452.6 | 1466.5 |
| 25°   | 1395.8 | 1413.6 | 1409.0 | 1422.2 | 1435.4 |
| 27.5° | 1358.8 | 1376.0 | 1374.6 | 1389.2 | 1403.1 |
| 30°   | 1317.1 | 1335.6 | 1336.3 | 1353.5 | 1366.7 |
| 32.5° | 1275.5 | 1292.0 | 1296.0 | 1315.2 | 1330.4 |
| 35°   | 1228.6 | 1245.8 | 1253.7 | 1274.8 | 1288.1 |
| 37.5° | 1181.0 | 1200.2 | 1208.8 | 1231.9 | 1245.8 |
| 40°   | 1128.8 | 1150.6 | 1162.5 | 1186.9 | 1201.5 |
| 42.5° | 1079.2 | 1099.0 | 1114.9 | 1139.4 | 1152.6 |
| 45°   | 1027.0 | 1046.8 | 1063.4 | 1090.5 | 1103.0 |
| 47.5° | 970.8  | 992.6  | 1010.5 | 1036.9 | 1050.8 |
| 50°   | 911.4  | 935.1  | 957.6  | 983.4  | 997.9  |
| 52.5° | 852.5  | 875.7  | 901.4  | 926.6  | 941.1  |
| 55°   | 792.4  | 816.2  | 843.3  | 869.7  | 883.6  |
| 57.5° | 731.6  | 755.4  | 785.1  | 808.9  | 823.5  |
| 60°   | 672.1  | 693.9  | 724.3  | 748.1  | 760.0  |
| 62.5° | 604.7  | 629.8  | 660.9  | 684.7  | 691.3  |
| 65°   | 542.6  | 565.1  | 596.1  | 614.0  | 617.9  |
| 67.5° | 476.5  | 499.0  | 530.0  | 539.9  | 545.9  |
| 70°   | 409.7  | 433.5  | 460.6  | 467.2  | 471.9  |
| 72.5° | 342.3  | 366.8  | 387.9  | 394.5  | 398.5  |
| 75°   | 276.2  | 300.0  | 315.9  | 323.8  | 325.2  |
| 77.5° | 212.1  | 234.0  | 248.5  | 257.7  | 257.7  |
| 80°   | 151.3  | 167.9  | 183.7  | 193.6  | 193.0  |
| 82.5° | 96.5   | 109.0  | 125.6  | 132.8  | 137.5  |
| 85°   | 50.2   | 58.2   | 73.4   | 76.7   | 78.6   |
| 87.5° | 15.9   | 20.5   | 26.4   | 21.8   | 21.1   |
| 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 | 17.51            | 19.16 | 17.87 | 19.47 | 19.79 | 18.05          | 19.70 | 18.41 | 20.01 | 20.33 |
|                 | 3H   | 19.28            | 20.77 | 19.66 | 21.10 | 21.46 | 19.91          | 21.40 | 20.29 | 21.73 | 22.09 |
|                 | 4H   | 19.90            | 21.31 | 20.30 | 21.66 | 22.03 | 20.58          | 21.99 | 20.98 | 22.34 | 22.71 |
|                 | 6H   | 20.31            | 21.61 | 20.72 | 21.98 | 22.37 | 21.07          | 22.37 | 21.48 | 22.74 | 23.13 |
|                 | 8H   | 20.41            | 21.66 | 20.83 | 22.05 | 22.44 | 21.22          | 22.47 | 21.65 | 22.86 | 23.26 |
|                 | 12H  | 20.46            | 21.65 | 20.89 | 22.03 | 22.46 | 21.32          | 22.52 | 21.75 | 22.90 | 23.33 |
| 4H              | 2H   | 18.25            | 19.65 | 18.64 | 20.00 | 20.38 | 18.67          | 20.08 | 19.07 | 20.42 | 20.80 |
|                 | 3H   | 20.24            | 21.42 | 20.65 | 21.82 | 22.22 | 20.75          | 21.93 | 21.16 | 22.33 | 22.72 |
|                 | 4H   | 20.99            | 22.06 | 21.42 | 22.47 | 22.91 | 21.55          | 22.62 | 21.98 | 23.03 | 23.46 |
|                 | 6H   | 21.51            | 22.44 | 21.96 | 22.88 | 23.34 | 22.16          | 23.10 | 22.62 | 23.54 | 23.99 |
|                 | 8H   | 21.64            | 22.52 | 22.10 | 22.96 | 23.42 | 22.37          | 23.24 | 22.83 | 23.68 | 24.15 |
|                 | 12H  | 21.72            | 22.51 | 22.20 | 22.98 | 23.45 | 22.50          | 23.29 | 22.98 | 23.77 | 24.24 |
| 8H              | 4H   | 21.34            | 22.22 | 21.80 | 22.66 | 23.12 | 21.84          | 22.71 | 22.30 | 23.15 | 23.62 |
|                 | 6H   | 21.98            | 22.70 | 22.47 | 23.19 | 23.66 | 22.57          | 23.30 | 23.06 | 23.78 | 24.26 |
|                 | 8H   | 22.17            | 22.82 | 22.68 | 23.33 | 23.81 | 22.84          | 23.50 | 23.35 | 24.00 | 24.49 |
|                 | 12H  | 22.29            | 22.87 | 22.80 | 23.36 | 23.92 | 23.05          | 23.63 | 23.56 | 24.12 | 24.68 |
| 12H             | 4H   | 21.38            | 22.17 | 21.86 | 22.65 | 23.11 | 21.86          | 22.65 | 22.34 | 23.12 | 23.59 |
|                 | 6H   | 22.04            | 22.69 | 22.55 | 23.20 | 23.68 | 22.61          | 23.27 | 23.12 | 23.77 | 24.26 |
|                 | 8H   | 22.29            | 22.87 | 22.80 | 23.36 | 23.92 | 22.94          | 23.52 | 23.45 | 24.01 | 24.57 |