

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: P1587681

Luminaire Tested: 22CZSP-SB-42-L850

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1587681  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-SB-42-L850  
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

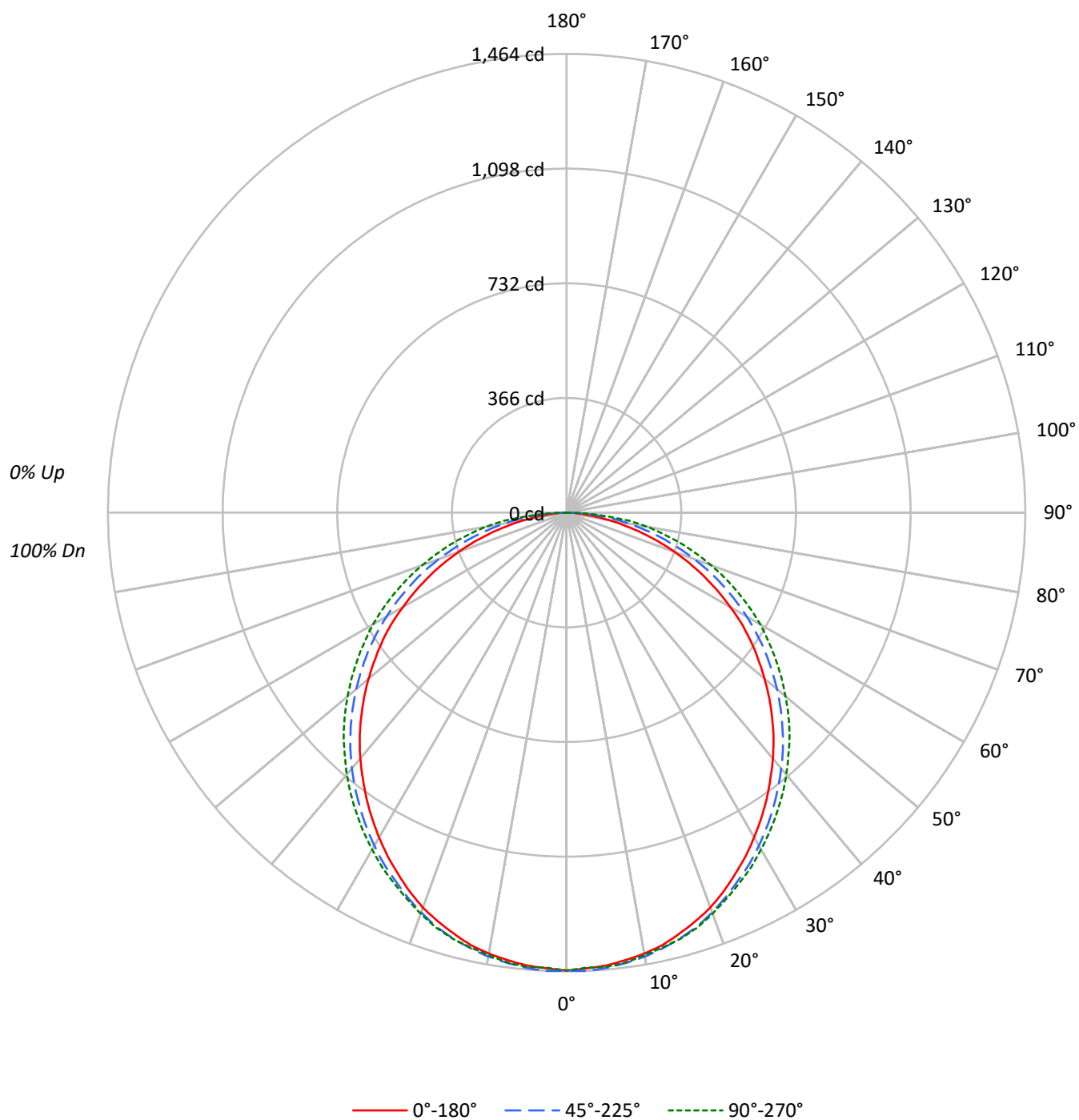
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4265.0 lumens  
Efficiency: N/A  
Efficacy: 147.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' 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  |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 | 100 |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 93  | 90  |  | 93  | 90  | 88  |  | 89  | 87  | 85  | 83  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  |  | 81  | 76  | 72  |  | 78  | 74  | 71  | 68  |
| 3   | 89  | 79  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  |  | 71  | 65  | 61  |  | 69  | 64  | 60  | 57  |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 52  |  | 63  | 57  | 52  |  | 61  | 56  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  |  | 57  | 50  | 45  |  | 55  | 49  | 44  | 42  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  |  | 51  | 44  | 39  |  | 50  | 44  | 39  | 37  |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  |  | 47  | 40  | 35  |  | 45  | 39  | 34  | 32  |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  | 35  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  |  | 37  | 30  | 25  |  | 36  | 30  | 25  | 23  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4576 | 4576 | 4576 |
| 5°  | 4560 | 4585 | 4574 |
| 10° | 4543 | 4575 | 4558 |
| 15° | 4509 | 4556 | 4562 |
| 20° | 4470 | 4524 | 4539 |
| 25° | 4398 | 4476 | 4507 |
| 30° | 4328 | 4439 | 4488 |
| 35° | 4258 | 4396 | 4472 |
| 40° | 4188 | 4358 | 4461 |
| 45° | 4110 | 4317 | 4457 |
| 50° | 4019 | 4270 | 4446 |
| 55° | 3927 | 4223 | 4445 |
| 60° | 3782 | 4161 | 4472 |
| 65° | 3605 | 4080 | 4475 |
| 70° | 3364 | 3967 | 4488 |
| 75° | 2992 | 3822 | 4565 |
| 80° | 2458 | 3662 | 4737 |
| 85° | 1620 | 3438 | 4283 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4851 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 138.2  | 3.2       |
| 10°-20°   | 395.7  | 9.3       |
| 20°-30°   | 596.4  | 14.0      |
| 30°-40°   | 718.2  | 16.8      |
| 40°-50°   | 750.4  | 17.6      |
| 50°-60°   | 689.4  | 16.2      |
| 60°-70°   | 542.9  | 12.7      |
| 70°-80°   | 332.8  | 7.8       |
| 80°-90°   | 100.9  | 2.4       |
| 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°    | 1130.4 | 26.5      |
| 0°-40°    | 1848.6 | 43.3      |
| 0°-60°    | 3288.4 | 77.1      |
| 0°-90°    | 4265.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4265.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1461 | 1461  | 1461 | 1461  | 1461 |      |
| 5°  | 1451 | 1453  | 1459 | 1457  | 1455 | 138  |
| 15° | 1391 | 1396  | 1406 | 1411  | 1407 | 393  |
| 25° | 1273 | 1281  | 1295 | 1309  | 1304 | 587  |
| 35° | 1114 | 1128  | 1150 | 1171  | 1170 | 697  |
| 45° | 928  | 948   | 975  | 1002  | 1006 | 716  |
| 55° | 719  | 740   | 774  | 807   | 814  | 642  |
| 65° | 486  | 512   | 551  | 588   | 604  | 481  |
| 75° | 247  | 276   | 316  | 354   | 377  | 263  |
| 85° | 45   | 67    | 96   | 106   | 119  | 58   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1461.4 | 1461.4 | 1461.4 | 1461.4 | 1461.4 |
| 2.5°  | 1456.0 | 1459.6 | 1464.2 | 1456.9 | 1453.3 |
| 5°    | 1450.6 | 1453.3 | 1458.7 | 1456.9 | 1455.1 |
| 7.5°  | 1440.7 | 1442.5 | 1449.7 | 1449.7 | 1447.9 |
| 10°   | 1428.9 | 1432.6 | 1438.9 | 1438.0 | 1433.5 |
| 12.5° | 1413.6 | 1416.3 | 1423.5 | 1423.5 | 1420.8 |
| 15°   | 1391.0 | 1396.5 | 1405.5 | 1410.9 | 1407.3 |
| 17.5° | 1367.6 | 1373.0 | 1384.7 | 1390.1 | 1388.3 |
| 20°   | 1341.4 | 1345.9 | 1357.6 | 1365.8 | 1362.1 |
| 22.5° | 1308.9 | 1314.3 | 1327.8 | 1336.9 | 1333.3 |
| 25°   | 1272.8 | 1280.9 | 1295.4 | 1308.9 | 1304.4 |
| 27.5° | 1236.7 | 1245.7 | 1263.8 | 1277.3 | 1275.5 |
| 30°   | 1197.0 | 1208.7 | 1227.6 | 1244.8 | 1241.2 |
| 32.5° | 1156.3 | 1169.9 | 1189.7 | 1207.8 | 1206.9 |
| 35°   | 1113.9 | 1128.4 | 1150.0 | 1170.8 | 1169.9 |
| 37.5° | 1068.8 | 1085.9 | 1108.5 | 1131.1 | 1132.0 |
| 40°   | 1024.5 | 1040.8 | 1066.1 | 1090.4 | 1091.3 |
| 42.5° | 977.6  | 994.8  | 1021.8 | 1047.1 | 1048.0 |
| 45°   | 928.0  | 947.8  | 974.9  | 1002.0 | 1006.5 |
| 47.5° | 877.4  | 898.2  | 926.2  | 955.0  | 960.5  |
| 50°   | 825.1  | 846.7  | 876.5  | 907.2  | 912.6  |
| 52.5° | 771.8  | 794.4  | 825.1  | 855.7  | 863.9  |
| 55°   | 719.4  | 740.2  | 773.6  | 807.0  | 814.2  |
| 57.5° | 664.4  | 683.3  | 719.4  | 754.6  | 763.7  |
| 60°   | 603.9  | 627.4  | 664.4  | 699.6  | 714.0  |
| 62.5° | 545.2  | 570.5  | 608.4  | 643.6  | 659.9  |
| 65°   | 486.5  | 511.8  | 550.6  | 587.6  | 603.9  |
| 67.5° | 427.0  | 453.1  | 494.7  | 529.9  | 547.9  |
| 70°   | 367.4  | 393.6  | 433.3  | 471.2  | 490.2  |
| 72.5° | 307.8  | 335.8  | 374.6  | 413.4  | 432.4  |
| 75°   | 247.3  | 276.2  | 315.9  | 353.9  | 377.3  |
| 77.5° | 190.5  | 218.4  | 258.2  | 297.0  | 316.8  |
| 80°   | 136.3  | 164.3  | 203.1  | 241.9  | 262.7  |
| 82.5° | 86.7   | 112.8  | 150.7  | 183.2  | 202.2  |
| 85°   | 45.1   | 66.8   | 95.7   | 106.5  | 119.2  |
| 87.5° | 13.5   | 26.2   | 37.0   | 41.5   | 51.5   |
| 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 | 16.80            | 18.46 | 17.16 | 18.77 | 19.09 | 17.54          | 19.21 | 17.91 | 19.52 | 19.83 |
|                 | 3H   | 18.56            | 20.07 | 18.94 | 20.39 | 20.75 | 19.64          | 21.15 | 20.02 | 21.47 | 21.83 |
|                 | 4H   | 19.18            | 20.61 | 19.58 | 20.95 | 21.33 | 20.52          | 21.95 | 20.92 | 22.29 | 22.67 |
|                 | 6H   | 19.60            | 20.92 | 20.01 | 21.28 | 21.67 | 21.29          | 22.61 | 21.70 | 22.98 | 23.37 |
|                 | 8H   | 19.70            | 20.97 | 20.13 | 21.35 | 21.75 | 21.60          | 22.86 | 22.03 | 23.25 | 23.65 |
|                 | 12H  | 19.75            | 20.97 | 20.18 | 21.35 | 21.78 | 21.81          | 23.03 | 22.24 | 23.41 | 23.84 |
| 4H              | 2H   | 17.57            | 18.99 | 17.97 | 19.34 | 19.71 | 18.15          | 19.57 | 18.54 | 19.92 | 20.29 |
|                 | 3H   | 19.56            | 20.76 | 19.97 | 21.16 | 21.55 | 20.48          | 21.67 | 20.88 | 22.07 | 22.47 |
|                 | 4H   | 20.31            | 21.40 | 20.75 | 21.81 | 22.25 | 21.51          | 22.60 | 21.94 | 23.01 | 23.44 |
|                 | 6H   | 20.85            | 21.80 | 21.30 | 22.24 | 22.70 | 22.44          | 23.39 | 22.89 | 23.83 | 24.29 |
|                 | 8H   | 21.00            | 21.89 | 21.46 | 22.33 | 22.80 | 22.82          | 23.72 | 23.28 | 24.16 | 24.62 |
|                 | 12H  | 21.08            | 21.89 | 21.56 | 22.36 | 22.83 | 23.10          | 23.90 | 23.58 | 24.38 | 24.85 |
| 8H              | 4H   | 20.77            | 21.66 | 21.23 | 22.10 | 22.56 | 21.81          | 22.70 | 22.27 | 23.14 | 23.61 |
|                 | 6H   | 21.44            | 22.19 | 21.94 | 22.68 | 23.15 | 22.89          | 23.64 | 23.39 | 24.13 | 24.60 |
|                 | 8H   | 21.67            | 22.33 | 22.17 | 22.84 | 23.32 | 23.38          | 24.05 | 23.89 | 24.56 | 25.04 |
|                 | 12H  | 21.81            | 22.40 | 22.32 | 22.89 | 23.45 | 23.76          | 24.35 | 24.26 | 24.84 | 25.40 |
| 12H             | 4H   | 20.85            | 21.65 | 21.33 | 22.13 | 22.60 | 21.84          | 22.64 | 22.32 | 23.12 | 23.58 |
|                 | 6H   | 21.57            | 22.24 | 22.08 | 22.75 | 23.23 | 22.95          | 23.62 | 23.45 | 24.12 | 24.61 |
|                 | 8H   | 21.86            | 22.46 | 22.37 | 22.95 | 23.50 | 23.50          | 24.09 | 24.01 | 24.58 | 25.14 |