

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: P1587690

Luminaire Tested: 22CZSP-SB-42-L950-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1587690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-SB-42-L950-S  
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Smooth Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

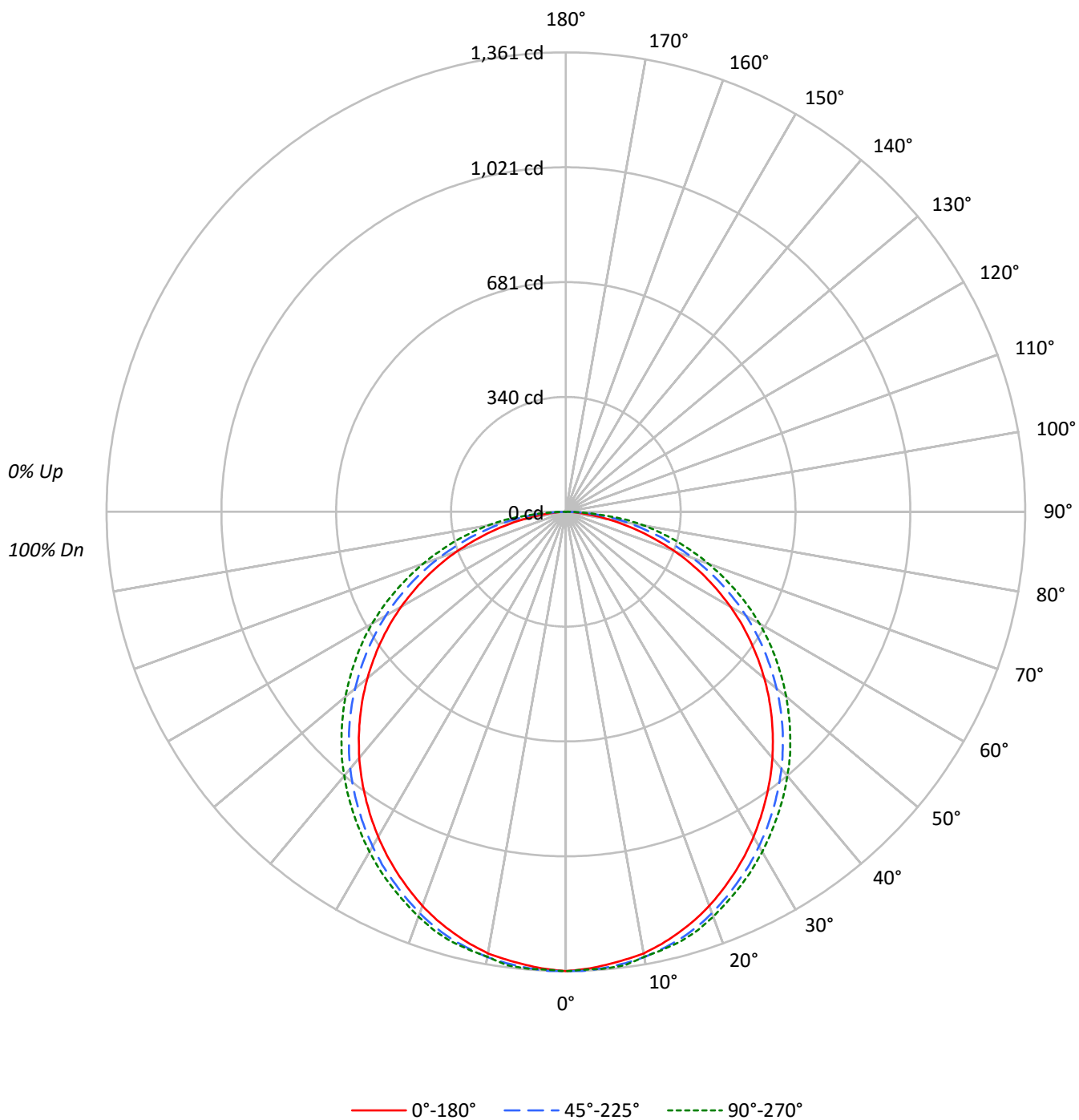
Lumens per Lamp: N/A  
Luminaire Lumens: 3959.0 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

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  | 94  | 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  | 69  |
| 3   | 89  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  |  | 71  | 66  | 61  |  | 69  | 64  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 53  |  | 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  | 45  | 39  |  | 50  | 44  | 39  | 37  |
| 7   | 64  | 51  | 42  | 35  | 63  | 50  | 41  | 35  | 48  | 41  | 35  |  | 47  | 40  | 35  |  | 45  | 39  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  | 35  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 41  | 33  | 28  |  | 39  | 33  | 28  |  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 30  | 26  |  | 37  | 30  | 25  |  | 36  | 30  | 25  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4262 | 4262 | 4262 |
| 5°  | 4238 | 4262 | 4270 |
| 10° | 4224 | 4260 | 4257 |
| 15° | 4185 | 4246 | 4271 |
| 20° | 4141 | 4217 | 4254 |
| 25° | 4081 | 4175 | 4228 |
| 30° | 4022 | 4139 | 4207 |
| 35° | 3956 | 4099 | 4187 |
| 40° | 3892 | 4063 | 4174 |
| 45° | 3820 | 4021 | 4164 |
| 50° | 3738 | 3970 | 4153 |
| 55° | 3645 | 3920 | 4147 |
| 60° | 3531 | 3862 | 4150 |
| 65° | 3370 | 3780 | 4127 |
| 70° | 3150 | 3665 | 4117 |
| 75° | 2792 | 3524 | 4132 |
| 80° | 2272 | 3349 | 4254 |
| 85° | 1469 | 3090 | 3672 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4311 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 128.8  | 3.3       |
| 10°-20°   | 368.8  | 9.3       |
| 20°-30°   | 556.1  | 14.0      |
| 30°-40°   | 669.1  | 16.9      |
| 40°-50°   | 697.9  | 17.6      |
| 50°-60°   | 639.7  | 16.2      |
| 60°-70°   | 502.4  | 12.7      |
| 70°-80°   | 305.7  | 7.7       |
| 80°-90°   | 90.4   | 2.3       |
| 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°    | 1053.7 | 26.6      |
| 0°-40°    | 1722.8 | 43.5      |
| 0°-60°    | 3060.5 | 77.3      |
| 0°-90°    | 3959.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3959.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1361 | 1361  | 1361 | 1361  | 1361 |      |
| 5°  | 1348 | 1357  | 1356 | 1354  | 1358 | 128  |
| 15° | 1291 | 1304  | 1310 | 1312  | 1318 | 364  |
| 25° | 1181 | 1197  | 1208 | 1216  | 1224 | 544  |
| 35° | 1035 | 1051  | 1072 | 1088  | 1095 | 648  |
| 45° | 863  | 881   | 908  | 929   | 940  | 665  |
| 55° | 668  | 685   | 718  | 747   | 760  | 597  |
| 65° | 455  | 472   | 510  | 544   | 557  | 450  |
| 75° | 231  | 252   | 291  | 326   | 342  | 245  |
| 85° | 41   | 58    | 86   | 96    | 102  | 53   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1361.0 | 1361.0 | 1361.0 | 1361.0 | 1361.0 |
| 2.5°  | 1355.9 | 1362.7 | 1361.0 | 1355.0 | 1357.6 |
| 5°    | 1348.2 | 1356.7 | 1355.9 | 1354.2 | 1358.4 |
| 7.5°  | 1338.8 | 1348.2 | 1349.0 | 1349.0 | 1354.2 |
| 10°   | 1328.6 | 1338.0 | 1339.7 | 1337.1 | 1338.8 |
| 12.5° | 1311.6 | 1322.6 | 1326.0 | 1326.0 | 1328.6 |
| 15°   | 1291.1 | 1303.9 | 1309.9 | 1311.6 | 1317.5 |
| 17.5° | 1269.0 | 1282.6 | 1290.3 | 1294.5 | 1299.6 |
| 20°   | 1242.6 | 1257.1 | 1265.6 | 1270.7 | 1276.7 |
| 22.5° | 1212.8 | 1229.0 | 1238.3 | 1243.4 | 1250.3 |
| 25°   | 1181.3 | 1197.4 | 1208.5 | 1216.2 | 1223.8 |
| 27.5° | 1148.0 | 1163.4 | 1178.7 | 1188.1 | 1194.9 |
| 30°   | 1112.3 | 1128.5 | 1144.6 | 1156.6 | 1163.4 |
| 32.5° | 1074.0 | 1091.0 | 1109.7 | 1122.5 | 1130.2 |
| 35°   | 1034.8 | 1051.0 | 1072.3 | 1087.6 | 1095.2 |
| 37.5° | 994.7  | 1011.8 | 1033.9 | 1050.1 | 1059.5 |
| 40°   | 952.2  | 970.1  | 993.9  | 1011.8 | 1021.2 |
| 42.5° | 907.9  | 924.9  | 951.3  | 971.8  | 982.8  |
| 45°   | 862.7  | 880.6  | 907.9  | 929.2  | 940.2  |
| 47.5° | 815.9  | 832.9  | 862.7  | 887.4  | 896.8  |
| 50°   | 767.4  | 783.5  | 815.0  | 841.4  | 852.5  |
| 52.5° | 718.0  | 735.0  | 766.5  | 794.6  | 806.5  |
| 55°   | 667.7  | 684.7  | 718.0  | 746.9  | 759.7  |
| 57.5° | 616.6  | 633.6  | 667.7  | 697.5  | 712.8  |
| 60°   | 563.8  | 580.8  | 616.6  | 647.3  | 662.6  |
| 62.5° | 509.3  | 527.2  | 563.8  | 595.3  | 611.5  |
| 65°   | 454.8  | 471.8  | 510.1  | 544.2  | 557.0  |
| 67.5° | 400.3  | 417.3  | 454.8  | 488.9  | 504.2  |
| 70°   | 344.1  | 363.7  | 400.3  | 436.1  | 449.7  |
| 72.5° | 285.3  | 307.5  | 344.1  | 381.5  | 395.2  |
| 75°   | 230.8  | 252.1  | 291.3  | 326.2  | 341.5  |
| 77.5° | 177.1  | 200.1  | 236.8  | 272.5  | 287.9  |
| 80°   | 126.0  | 148.2  | 185.7  | 219.7  | 235.9  |
| 82.5° | 80.1   | 99.6   | 137.1  | 167.8  | 179.7  |
| 85°   | 40.9   | 57.9   | 86.0   | 96.2   | 102.2  |
| 87.5° | 11.9   | 20.4   | 30.7   | 38.3   | 42.6   |
| 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 | 16.54            | 18.20 | 16.90 | 18.51 | 18.82 | 17.27          | 18.93 | 17.64 | 19.25 | 19.56 |
|                 | 3H   | 18.30            | 19.81 | 18.68 | 20.14 | 20.50 | 19.35          | 20.86 | 19.73 | 21.18 | 21.54 |
|                 | 4H   | 18.92            | 20.34 | 19.32 | 20.69 | 21.07 | 20.22          | 21.64 | 20.61 | 21.98 | 22.36 |
|                 | 6H   | 19.33            | 20.65 | 19.74 | 21.01 | 21.40 | 20.96          | 22.28 | 21.37 | 22.64 | 23.03 |
|                 | 8H   | 19.44            | 20.70 | 19.86 | 21.08 | 21.48 | 21.26          | 22.52 | 21.68 | 22.90 | 23.30 |
|                 | 12H  | 19.48            | 20.69 | 19.91 | 21.07 | 21.50 | 21.45          | 22.66 | 21.88 | 23.04 | 23.47 |
| 4H              | 2H   | 17.30            | 18.72 | 17.70 | 19.07 | 19.45 | 17.88          | 19.30 | 18.27 | 19.64 | 20.02 |
|                 | 3H   | 19.30            | 20.49 | 19.70 | 20.89 | 21.29 | 20.19          | 21.38 | 20.60 | 21.78 | 22.18 |
|                 | 4H   | 20.04            | 21.12 | 20.47 | 21.53 | 21.97 | 21.21          | 22.29 | 21.64 | 22.70 | 23.14 |
|                 | 6H   | 20.57            | 21.52 | 21.02 | 21.96 | 22.41 | 22.11          | 23.06 | 22.57 | 23.50 | 23.96 |
|                 | 8H   | 20.71            | 21.60 | 21.17 | 22.04 | 22.50 | 22.48          | 23.37 | 22.94 | 23.81 | 24.27 |
|                 | 12H  | 20.79            | 21.59 | 21.27 | 22.06 | 22.53 | 22.73          | 23.53 | 23.21 | 24.01 | 24.48 |
| 8H              | 4H   | 20.48            | 21.37 | 20.94 | 21.81 | 22.28 | 21.50          | 22.39 | 21.96 | 22.84 | 23.30 |
|                 | 6H   | 21.15            | 21.89 | 21.64 | 22.38 | 22.85 | 22.56          | 23.30 | 23.05 | 23.79 | 24.26 |
|                 | 8H   | 21.36            | 22.02 | 21.86 | 22.53 | 23.01 | 23.03          | 23.70 | 23.54 | 24.21 | 24.69 |
|                 | 12H  | 21.49            | 22.08 | 22.00 | 22.57 | 23.13 | 23.39          | 23.98 | 23.89 | 24.47 | 25.02 |
| 12H             | 4H   | 20.56            | 21.37 | 21.04 | 21.84 | 22.31 | 21.53          | 22.33 | 22.01 | 22.81 | 23.27 |
|                 | 6H   | 21.27            | 21.94 | 21.78 | 22.44 | 22.93 | 22.61          | 23.28 | 23.12 | 23.79 | 24.27 |
|                 | 8H   | 21.55            | 22.14 | 22.05 | 22.63 | 23.19 | 23.15          | 23.74 | 23.66 | 24.23 | 24.79 |