

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: P1587691

Luminaire Tested: 22CZSP-SB-42-L950

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1587691  
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-L950  
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

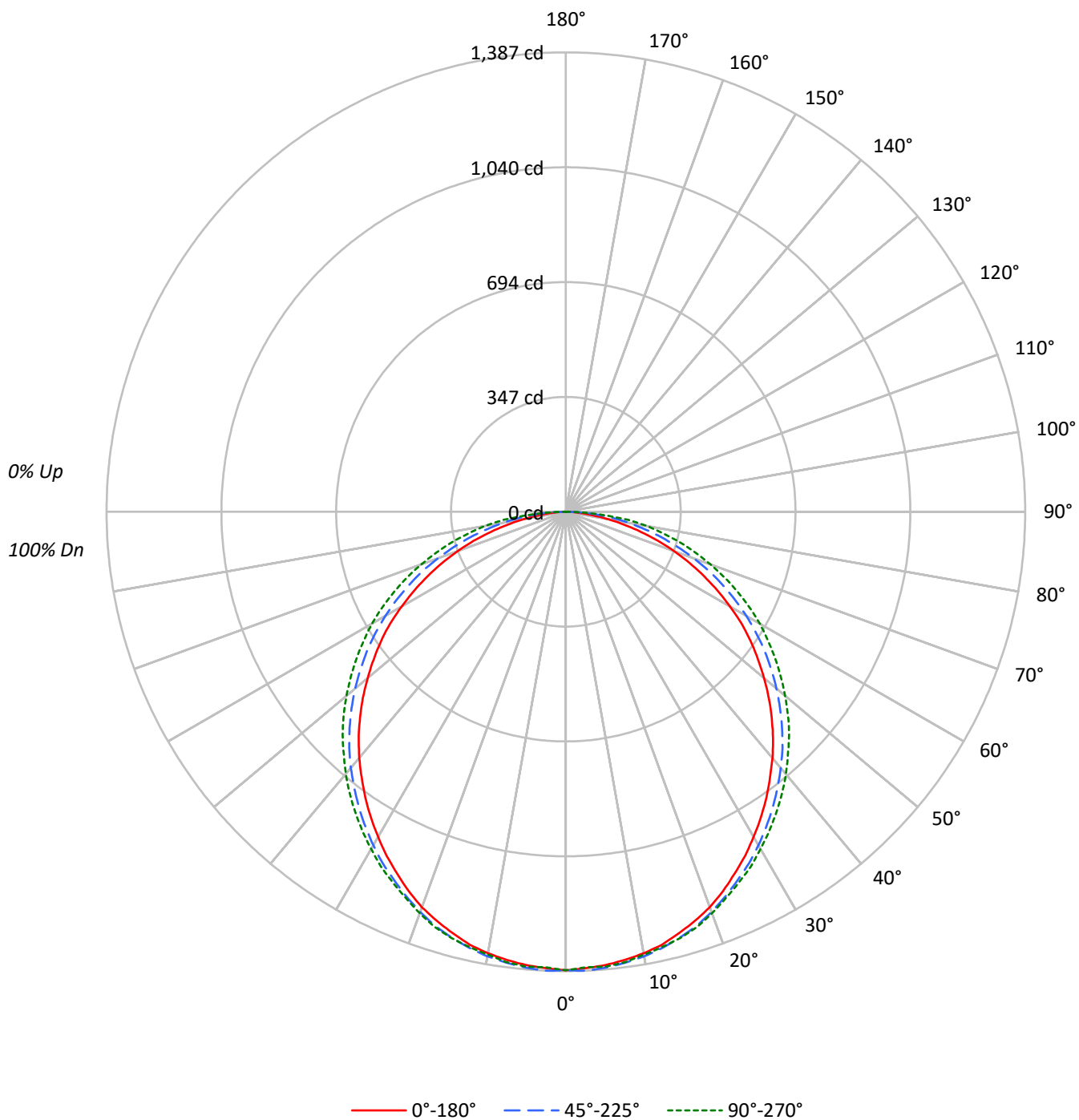
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4040.0 lumens  
Efficiency: N/A  
Efficacy: 139.8 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

TEST NUMBER: P1587691  
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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°  | 4335 | 4335 | 4335 |
| 5°  | 4319 | 4343 | 4333 |
| 10° | 4304 | 4334 | 4317 |
| 15° | 4272 | 4316 | 4321 |
| 20° | 4234 | 4285 | 4300 |
| 25° | 4165 | 4239 | 4269 |
| 30° | 4100 | 4205 | 4251 |
| 35° | 4033 | 4164 | 4236 |
| 40° | 3967 | 4128 | 4226 |
| 45° | 3893 | 4090 | 4222 |
| 50° | 3807 | 4045 | 4211 |
| 55° | 3721 | 4001 | 4211 |
| 60° | 3582 | 3941 | 4236 |
| 65° | 3415 | 3865 | 4238 |
| 70° | 3186 | 3757 | 4251 |
| 75° | 2835 | 3621 | 4324 |
| 80° | 2328 | 3469 | 4487 |
| 85° | 1538 | 3255 | 4056 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4594 cd/sqm

TEST NUMBER: P1587691

CATALOG NUMBER: 22CZSP-SB-42-L950

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 131.0  | 3.2       |
| 10°-20°   | 374.8  | 9.3       |
| 20°-30°   | 565.0  | 14.0      |
| 30°-40°   | 680.3  | 16.8      |
| 40°-50°   | 710.8  | 17.6      |
| 50°-60°   | 653.0  | 16.2      |
| 60°-70°   | 514.2  | 12.7      |
| 70°-80°   | 315.3  | 7.8       |
| 80°-90°   | 95.6   | 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°    | 1070.7 | 26.5      |
| 0°-40°    | 1751.1 | 43.3      |
| 0°-60°    | 3114.9 | 77.1      |
| 0°-90°    | 4040.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4040.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1384 | 1384  | 1384 | 1384  | 1384 |      |
| 5°  | 1374 | 1377  | 1382 | 1380  | 1378 | 130  |
| 15° | 1318 | 1323  | 1331 | 1336  | 1333 | 372  |
| 25° | 1206 | 1213  | 1227 | 1240  | 1236 | 556  |
| 35° | 1055 | 1069  | 1089 | 1109  | 1108 | 660  |
| 45° | 879  | 898   | 924  | 949   | 953  | 678  |
| 55° | 682  | 701   | 733  | 764   | 771  | 608  |
| 65° | 461  | 485   | 522  | 557   | 572  | 456  |
| 75° | 234  | 262   | 299  | 335   | 357  | 249  |
| 85° | 43   | 63    | 91   | 101   | 113  | 55   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1587691

CATALOG NUMBER: 22CZSP-SB-42-L950

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1384.3 | 1384.3 | 1384.3 | 1384.3 | 1384.3 |
| 2.5°  | 1379.2 | 1382.6 | 1386.9 | 1380.1 | 1376.7 |
| 5°    | 1374.1 | 1376.7 | 1381.8 | 1380.1 | 1378.4 |
| 7.5°  | 1364.7 | 1366.4 | 1373.2 | 1373.2 | 1371.5 |
| 10°   | 1353.6 | 1357.0 | 1363.0 | 1362.1 | 1357.8 |
| 12.5° | 1339.0 | 1341.6 | 1348.4 | 1348.4 | 1345.9 |
| 15°   | 1317.7 | 1322.8 | 1331.3 | 1336.5 | 1333.0 |
| 17.5° | 1295.4 | 1300.6 | 1311.7 | 1316.8 | 1315.1 |
| 20°   | 1270.6 | 1274.9 | 1286.0 | 1293.7 | 1290.3 |
| 22.5° | 1239.8 | 1245.0 | 1257.8 | 1266.3 | 1262.9 |
| 25°   | 1205.6 | 1213.3 | 1227.0 | 1239.8 | 1235.6 |
| 27.5° | 1171.4 | 1180.0 | 1197.1 | 1209.9 | 1208.2 |
| 30°   | 1133.8 | 1144.9 | 1162.9 | 1179.1 | 1175.7 |
| 32.5° | 1095.3 | 1108.2 | 1127.0 | 1144.1 | 1143.2 |
| 35°   | 1055.1 | 1068.8 | 1089.3 | 1109.0 | 1108.2 |
| 37.5° | 1012.4 | 1028.6 | 1050.0 | 1071.4 | 1072.2 |
| 40°   | 970.5  | 985.9  | 1009.8 | 1032.9 | 1033.8 |
| 42.5° | 926.0  | 942.3  | 967.9  | 991.9  | 992.7  |
| 45°   | 879.0  | 897.8  | 923.5  | 949.1  | 953.4  |
| 47.5° | 831.1  | 850.8  | 877.3  | 904.7  | 909.8  |
| 50°   | 781.5  | 802.0  | 830.3  | 859.3  | 864.5  |
| 52.5° | 731.1  | 752.5  | 781.5  | 810.6  | 818.3  |
| 55°   | 681.5  | 701.2  | 732.8  | 764.4  | 771.3  |
| 57.5° | 629.3  | 647.3  | 681.5  | 714.8  | 723.4  |
| 60°   | 572.0  | 594.3  | 629.3  | 662.7  | 676.4  |
| 62.5° | 516.5  | 540.4  | 576.3  | 609.7  | 625.1  |
| 65°   | 460.9  | 484.8  | 521.6  | 556.6  | 572.0  |
| 67.5° | 404.4  | 429.2  | 468.6  | 501.9  | 519.0  |
| 70°   | 348.0  | 372.8  | 410.4  | 446.3  | 464.3  |
| 72.5° | 291.6  | 318.1  | 354.9  | 391.6  | 409.6  |
| 75°   | 234.3  | 261.6  | 299.3  | 335.2  | 357.4  |
| 77.5° | 180.4  | 206.9  | 244.5  | 281.3  | 300.1  |
| 80°   | 129.1  | 155.6  | 192.4  | 229.2  | 248.8  |
| 82.5° | 82.1   | 106.9  | 142.8  | 173.6  | 191.5  |
| 85°   | 42.8   | 63.3   | 90.6   | 100.9  | 112.9  |
| 87.5° | 12.8   | 24.8   | 35.1   | 39.3   | 48.7   |
| 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 | 16.61            | 18.27 | 16.97 | 18.59 | 18.90 | 17.36          | 19.02 | 17.72 | 19.33 | 19.65 |
|                 | 3H   | 18.37            | 19.88 | 18.75 | 20.21 | 20.56 | 19.45          | 20.96 | 19.83 | 21.28 | 21.64 |
|                 | 4H   | 19.00            | 20.42 | 19.39 | 20.77 | 21.14 | 20.34          | 21.76 | 20.73 | 22.10 | 22.48 |
|                 | 6H   | 19.41            | 20.73 | 19.82 | 21.09 | 21.48 | 21.10          | 22.42 | 21.51 | 22.79 | 23.18 |
|                 | 8H   | 19.51            | 20.78 | 19.94 | 21.17 | 21.56 | 21.41          | 22.68 | 21.84 | 23.06 | 23.46 |
|                 | 12H  | 19.57            | 20.78 | 20.00 | 21.16 | 21.59 | 21.63          | 22.84 | 22.06 | 23.22 | 23.65 |
| 4H              | 2H   | 17.38            | 18.80 | 17.78 | 19.15 | 19.52 | 17.96          | 19.38 | 18.36 | 19.73 | 20.10 |
|                 | 3H   | 19.37            | 20.57 | 19.78 | 20.97 | 21.37 | 20.29          | 21.49 | 20.70 | 21.88 | 22.28 |
|                 | 4H   | 20.13            | 21.21 | 20.56 | 21.63 | 22.06 | 21.32          | 22.41 | 21.75 | 22.82 | 23.26 |
|                 | 6H   | 20.66            | 21.62 | 21.12 | 22.05 | 22.51 | 22.25          | 23.21 | 22.71 | 23.64 | 24.10 |
|                 | 8H   | 20.81            | 21.70 | 21.27 | 22.14 | 22.61 | 22.64          | 23.53 | 23.10 | 23.97 | 24.43 |
|                 | 12H  | 20.90            | 21.70 | 21.38 | 22.17 | 22.64 | 22.91          | 23.72 | 23.39 | 24.19 | 24.66 |
| 8H              | 4H   | 20.58            | 21.47 | 21.04 | 21.91 | 22.38 | 21.62          | 22.51 | 22.08 | 22.96 | 23.42 |
|                 | 6H   | 21.26            | 22.00 | 21.75 | 22.49 | 22.96 | 22.71          | 23.45 | 23.20 | 23.94 | 24.41 |
|                 | 8H   | 21.48            | 22.15 | 21.98 | 22.65 | 23.13 | 23.19          | 23.86 | 23.70 | 24.37 | 24.85 |
|                 | 12H  | 21.62            | 22.22 | 22.13 | 22.71 | 23.26 | 23.57          | 24.16 | 24.07 | 24.65 | 25.21 |
| 12H             | 4H   | 20.66            | 21.47 | 21.14 | 21.94 | 22.41 | 21.65          | 22.45 | 22.13 | 22.93 | 23.40 |
|                 | 6H   | 21.38            | 22.05 | 21.89 | 22.56 | 23.04 | 22.76          | 23.43 | 23.27 | 23.93 | 24.42 |
|                 | 8H   | 21.68            | 22.27 | 22.18 | 22.76 | 23.32 | 23.31          | 23.90 | 23.82 | 24.39 | 24.95 |