

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: P1587676

Luminaire Tested: 22CZSP-SB-42-L840-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1587676  
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-L840-S  
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 80CRI, Smooth Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

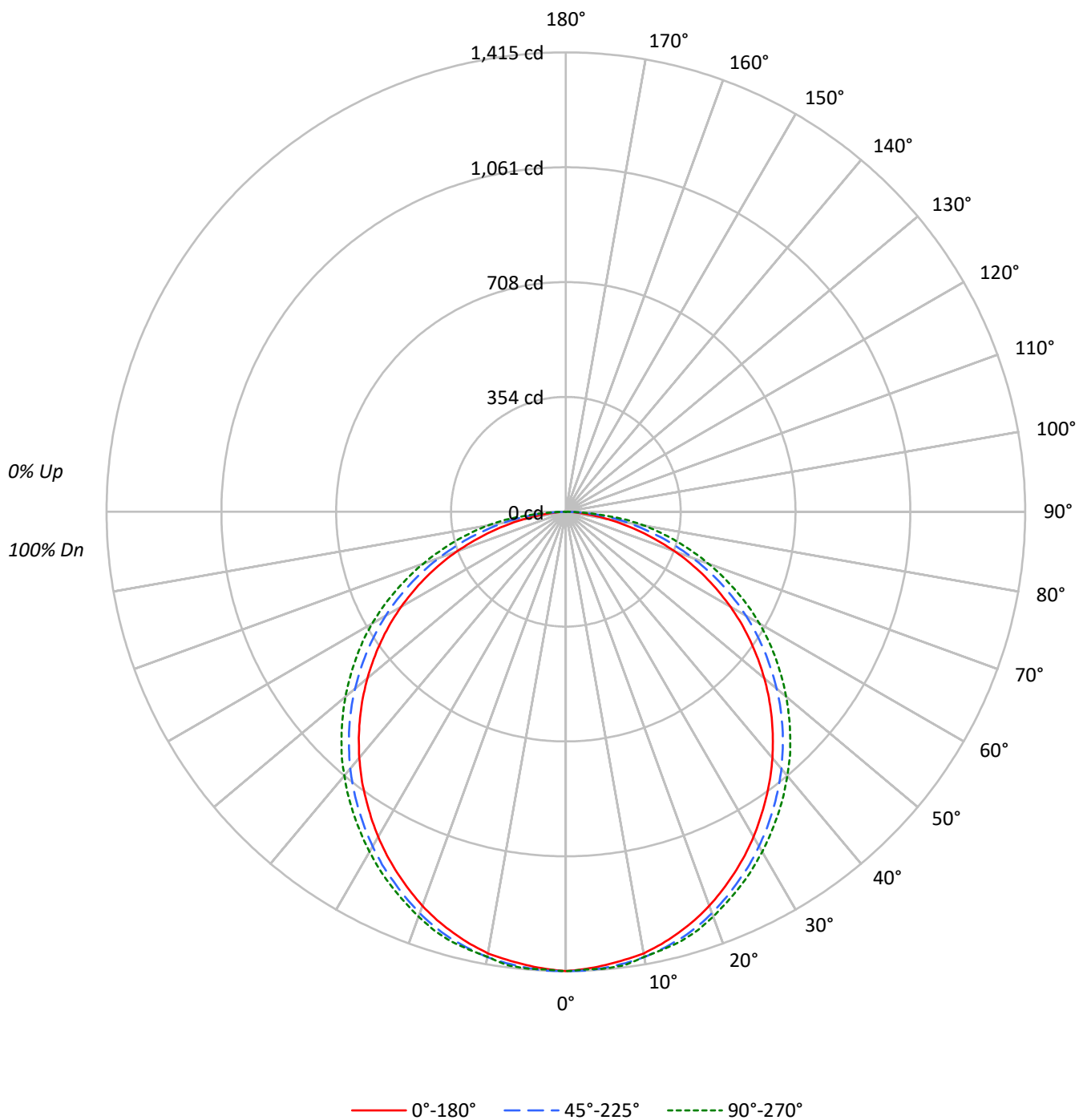
Lumens per Lamp: N/A  
Luminaire Lumens: 4116.0 lumens  
Efficiency: N/A  
Efficacy: 142.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

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°  | 4431 | 4431 | 4431 |
| 5°  | 4406 | 4431 | 4439 |
| 10° | 4392 | 4429 | 4426 |
| 15° | 4351 | 4415 | 4441 |
| 20° | 4305 | 4385 | 4423 |
| 25° | 4243 | 4341 | 4396 |
| 30° | 4181 | 4303 | 4373 |
| 35° | 4112 | 4261 | 4353 |
| 40° | 4046 | 4224 | 4339 |
| 45° | 3972 | 4180 | 4329 |
| 50° | 3886 | 4128 | 4318 |
| 55° | 3790 | 4075 | 4312 |
| 60° | 3671 | 4015 | 4314 |
| 65° | 3503 | 3930 | 4291 |
| 70° | 3275 | 3810 | 4280 |
| 75° | 2904 | 3663 | 4296 |
| 80° | 2362 | 3480 | 4423 |
| 85° | 1527 | 3212 | 3819 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4481 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 133.9  | 3.3       |
| 10°-20°   | 383.4  | 9.3       |
| 20°-30°   | 578.1  | 14.0      |
| 30°-40°   | 695.6  | 16.9      |
| 40°-50°   | 725.6  | 17.6      |
| 50°-60°   | 665.1  | 16.2      |
| 60°-70°   | 522.3  | 12.7      |
| 70°-80°   | 317.9  | 7.7       |
| 80°-90°   | 94.0   | 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°    | 1095.5 | 26.6      |
| 0°-40°    | 1791.1 | 43.5      |
| 0°-60°    | 3181.8 | 77.3      |
| 0°-90°    | 4116.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4116.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1415 | 1415  | 1415 | 1415  | 1415 |      |
| 5°  | 1402 | 1410  | 1410 | 1408  | 1412 | 133  |
| 15° | 1342 | 1356  | 1362 | 1364  | 1370 | 379  |
| 25° | 1228 | 1245  | 1256 | 1264  | 1272 | 566  |
| 35° | 1076 | 1093  | 1115 | 1131  | 1139 | 673  |
| 45° | 897  | 916   | 944  | 966   | 978  | 692  |
| 55° | 694  | 712   | 746  | 776   | 790  | 620  |
| 65° | 473  | 490   | 530  | 566   | 579  | 468  |
| 75° | 240  | 262   | 303  | 339   | 355  | 254  |
| 85° | 42   | 60    | 89   | 100   | 106  | 55   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1414.9 | 1414.9 | 1414.9 | 1414.9 | 1414.9 |
| 2.5°  | 1409.6 | 1416.7 | 1414.9 | 1408.7 | 1411.4 |
| 5°    | 1401.7 | 1410.5 | 1409.6 | 1407.9 | 1412.3 |
| 7.5°  | 1391.9 | 1401.7 | 1402.5 | 1402.5 | 1407.9 |
| 10°   | 1381.3 | 1391.0 | 1392.8 | 1390.1 | 1391.9 |
| 12.5° | 1363.6 | 1375.1 | 1378.6 | 1378.6 | 1381.3 |
| 15°   | 1342.3 | 1355.6 | 1361.8 | 1363.6 | 1369.8 |
| 17.5° | 1319.3 | 1333.5 | 1341.4 | 1345.9 | 1351.2 |
| 20°   | 1291.9 | 1306.9 | 1315.8 | 1321.1 | 1327.3 |
| 22.5° | 1260.9 | 1277.7 | 1287.4 | 1292.7 | 1299.8 |
| 25°   | 1228.1 | 1244.9 | 1256.4 | 1264.4 | 1272.4 |
| 27.5° | 1193.6 | 1209.5 | 1225.5 | 1235.2 | 1242.3 |
| 30°   | 1156.4 | 1173.2 | 1190.0 | 1202.4 | 1209.5 |
| 32.5° | 1116.5 | 1134.3 | 1153.7 | 1167.0 | 1175.0 |
| 35°   | 1075.8 | 1092.6 | 1114.8 | 1130.7 | 1138.7 |
| 37.5° | 1034.2 | 1051.9 | 1074.9 | 1091.8 | 1101.5 |
| 40°   | 989.9  | 1008.5 | 1033.3 | 1051.9 | 1061.6 |
| 42.5° | 943.9  | 961.6  | 989.0  | 1010.3 | 1021.8 |
| 45°   | 897.0  | 915.5  | 943.9  | 966.0  | 977.5  |
| 47.5° | 848.3  | 866.0  | 897.0  | 922.6  | 932.4  |
| 50°   | 797.8  | 814.6  | 847.4  | 874.8  | 886.3  |
| 52.5° | 746.4  | 764.1  | 796.9  | 826.1  | 838.5  |
| 55°   | 694.2  | 711.9  | 746.4  | 776.5  | 789.8  |
| 57.5° | 641.1  | 658.8  | 694.2  | 725.2  | 741.1  |
| 60°   | 586.2  | 603.9  | 641.1  | 672.9  | 688.9  |
| 62.5° | 529.5  | 548.1  | 586.2  | 618.9  | 635.7  |
| 65°   | 472.8  | 490.5  | 530.4  | 565.8  | 579.1  |
| 67.5° | 416.2  | 433.9  | 472.8  | 508.2  | 524.2  |
| 70°   | 357.7  | 378.1  | 416.2  | 453.3  | 467.5  |
| 72.5° | 296.6  | 319.6  | 357.7  | 396.7  | 410.8  |
| 75°   | 240.0  | 262.1  | 302.8  | 339.1  | 355.1  |
| 77.5° | 184.2  | 208.1  | 246.2  | 283.3  | 299.3  |
| 80°   | 131.0  | 154.1  | 193.0  | 228.4  | 245.3  |
| 82.5° | 83.2   | 103.6  | 142.6  | 174.4  | 186.8  |
| 85°   | 42.5   | 60.2   | 89.4   | 100.1  | 106.3  |
| 87.5° | 12.4   | 21.3   | 31.9   | 39.8   | 44.3   |
| 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 | 16.67            | 18.33 | 17.04 | 18.65 | 18.96 | 17.41          | 19.07 | 17.77 | 19.38 | 19.69 |
|                 | 3H   | 18.44            | 19.95 | 18.82 | 20.27 | 20.63 | 19.49          | 20.99 | 19.86 | 21.32 | 21.68 |
|                 | 4H   | 19.06            | 20.48 | 19.46 | 20.83 | 21.20 | 20.35          | 21.77 | 20.75 | 22.12 | 22.49 |
|                 | 6H   | 19.47            | 20.79 | 19.88 | 21.15 | 21.54 | 21.10          | 22.41 | 21.51 | 22.78 | 23.17 |
|                 | 8H   | 19.57            | 20.83 | 19.99 | 21.22 | 21.62 | 21.39          | 22.65 | 21.81 | 23.04 | 23.44 |
|                 | 12H  | 19.62            | 20.83 | 20.05 | 21.21 | 21.64 | 21.58          | 22.79 | 22.01 | 23.17 | 23.60 |
| 4H              | 2H   | 17.44            | 18.86 | 17.84 | 19.21 | 19.58 | 18.01          | 19.43 | 18.41 | 19.78 | 20.15 |
|                 | 3H   | 19.43            | 20.63 | 19.84 | 21.02 | 21.42 | 20.32          | 21.52 | 20.73 | 21.92 | 22.32 |
|                 | 4H   | 20.17            | 21.26 | 20.60 | 21.67 | 22.10 | 21.34          | 22.43 | 21.77 | 22.84 | 23.27 |
|                 | 6H   | 20.70            | 21.65 | 21.15 | 22.09 | 22.55 | 22.25          | 23.20 | 22.70 | 23.64 | 24.09 |
|                 | 8H   | 20.84            | 21.73 | 21.30 | 22.17 | 22.64 | 22.61          | 23.50 | 23.07 | 23.95 | 24.41 |
|                 | 12H  | 20.92            | 21.73 | 21.40 | 22.20 | 22.67 | 22.87          | 23.67 | 23.35 | 24.14 | 24.61 |
| 8H              | 4H   | 20.62            | 21.51 | 21.08 | 21.95 | 22.41 | 21.64          | 22.53 | 22.10 | 22.97 | 23.43 |
|                 | 6H   | 21.28            | 22.02 | 21.77 | 22.51 | 22.99 | 22.70          | 23.44 | 23.19 | 23.93 | 24.40 |
|                 | 8H   | 21.49            | 22.16 | 22.00 | 22.66 | 23.15 | 23.17          | 23.84 | 23.68 | 24.34 | 24.82 |
|                 | 12H  | 21.63            | 22.22 | 22.13 | 22.71 | 23.27 | 23.52          | 24.11 | 24.03 | 24.60 | 25.16 |
| 12H             | 4H   | 20.70            | 21.50 | 21.18 | 21.98 | 22.44 | 21.67          | 22.47 | 22.15 | 22.94 | 23.41 |
|                 | 6H   | 21.41            | 22.07 | 21.91 | 22.58 | 23.06 | 22.75          | 23.42 | 23.26 | 23.92 | 24.41 |
|                 | 8H   | 21.68            | 22.27 | 22.19 | 22.76 | 23.32 | 23.29          | 23.88 | 23.79 | 24.36 | 24.92 |