

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: P1586430

Luminaire Tested: 22CZSP-43HE-L950-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586430  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-43HE-L950-S  
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

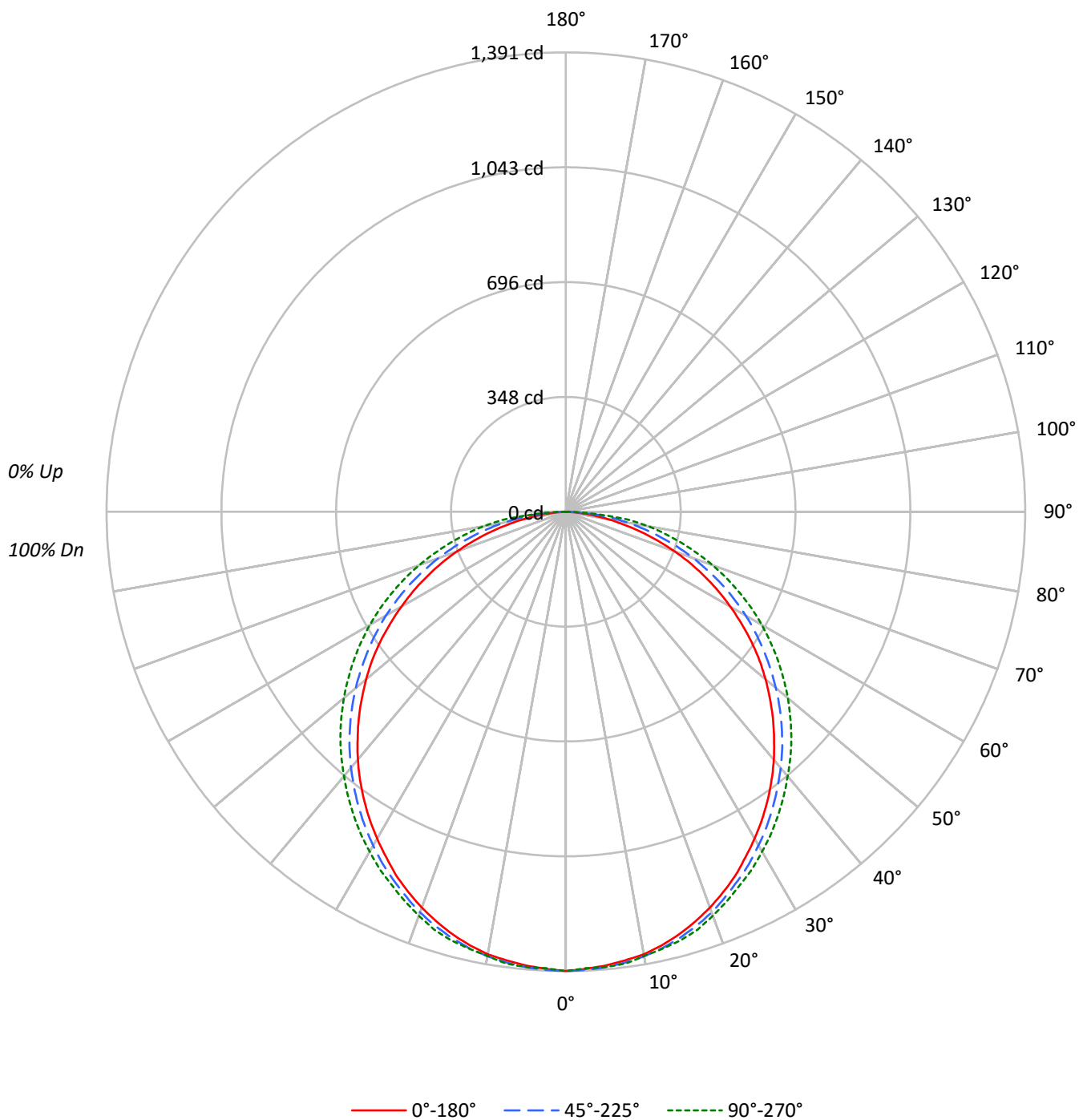
Lumens per Lamp: N/A  
Luminaire Lumens: 4060.0 lumens  
Efficiency: N/A  
Efficacy: 144.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.2  
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   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 93  | 90  |  | 93  | 90  | 88  |  | 89  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  |  | 81  | 76  | 72  |  | 78  |
| 3   | 89  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  |  | 71  | 65  | 61  |  | 69  |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 52  |  | 63  | 57  | 52  |  | 61  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  |  | 57  | 50  | 45  |  | 55  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  |  | 51  | 44  | 39  |  | 50  |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  |  | 47  | 40  | 35  |  | 45  |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  |  | 37  | 30  | 25  |  | 36  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4355 | 4355 | 4355 |
| 5°  | 4335 | 4352 | 4349 |
| 10° | 4326 | 4345 | 4342 |
| 15° | 4294 | 4329 | 4355 |
| 20° | 4251 | 4302 | 4337 |
| 25° | 4199 | 4257 | 4309 |
| 30° | 4133 | 4220 | 4297 |
| 35° | 4073 | 4179 | 4284 |
| 40° | 4006 | 4137 | 4272 |
| 45° | 3929 | 4095 | 4276 |
| 50° | 3845 | 4045 | 4275 |
| 55° | 3745 | 3988 | 4280 |
| 60° | 3604 | 3944 | 4291 |
| 65° | 3439 | 3868 | 4304 |
| 70° | 3205 | 3760 | 4323 |
| 75° | 2856 | 3610 | 4365 |
| 80° | 2362 | 3437 | 4578 |
| 85° | 1538 | 3104 | 4002 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4724 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 131.5  | 3.2       |
| 10°-20°   | 376.6  | 9.3       |
| 20°-30°   | 568.0  | 14.0      |
| 30°-40°   | 684.1  | 16.8      |
| 40°-50°   | 714.4  | 17.6      |
| 50°-60°   | 656.1  | 16.2      |
| 60°-70°   | 516.8  | 12.7      |
| 70°-80°   | 317.0  | 7.8       |
| 80°-90°   | 95.4   | 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°    | 1076.1 | 26.5      |
| 0°-40°    | 1760.2 | 43.4      |
| 0°-60°    | 3130.7 | 77.1      |
| 0°-90°    | 4060.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4060.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1391 | 1391  | 1391 | 1391  | 1391 |      |
| 5°  | 1379 | 1381  | 1384 | 1389  | 1384 | 131  |
| 15° | 1325 | 1327  | 1335 | 1343  | 1343 | 374  |
| 25° | 1215 | 1218  | 1232 | 1247  | 1247 | 559  |
| 35° | 1066 | 1071  | 1093 | 1115  | 1121 | 666  |
| 45° | 887  | 897   | 925  | 957   | 966  | 684  |
| 55° | 686  | 698   | 730  | 772   | 784  | 612  |
| 65° | 464  | 480   | 522  | 566   | 581  | 459  |
| 75° | 236  | 255   | 298  | 346   | 361  | 250  |
| 85° | 43   | 59    | 86   | 110   | 111  | 56   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1390.7 | 1390.7 | 1390.7 | 1390.7 | 1390.7 |
| 2.5°  | 1385.3 | 1388.0 | 1388.9 | 1389.8 | 1383.5 |
| 5°    | 1379.1 | 1380.9 | 1384.4 | 1388.9 | 1383.5 |
| 7.5°  | 1370.2 | 1371.9 | 1376.4 | 1382.6 | 1380.0 |
| 10°   | 1360.4 | 1361.3 | 1366.6 | 1371.1 | 1365.7 |
| 12.5° | 1344.3 | 1347.0 | 1353.2 | 1356.8 | 1355.0 |
| 15°   | 1324.7 | 1327.4 | 1335.4 | 1343.4 | 1343.4 |
| 17.5° | 1301.6 | 1305.1 | 1314.9 | 1325.6 | 1326.5 |
| 20°   | 1275.7 | 1278.4 | 1290.9 | 1301.6 | 1301.6 |
| 22.5° | 1246.3 | 1249.9 | 1262.4 | 1274.0 | 1275.7 |
| 25°   | 1215.2 | 1217.8 | 1232.1 | 1247.2 | 1247.2 |
| 27.5° | 1178.6 | 1184.0 | 1201.8 | 1216.9 | 1220.5 |
| 30°   | 1143.0 | 1147.4 | 1167.0 | 1185.8 | 1188.4 |
| 32.5° | 1105.6 | 1110.9 | 1131.4 | 1151.9 | 1156.4 |
| 35°   | 1065.5 | 1070.8 | 1093.1 | 1115.4 | 1120.7 |
| 37.5° | 1023.6 | 1029.9 | 1053.0 | 1078.9 | 1084.2 |
| 40°   | 980.0  | 987.1  | 1012.0 | 1039.7 | 1045.0 |
| 42.5° | 933.6  | 943.4  | 970.2  | 998.7  | 1006.7 |
| 45°   | 887.3  | 897.1  | 924.7  | 956.8  | 965.7  |
| 47.5° | 838.3  | 849.9  | 878.4  | 912.3  | 922.1  |
| 50°   | 789.3  | 800.9  | 830.3  | 866.8  | 877.5  |
| 52.5° | 739.4  | 751.0  | 781.3  | 819.6  | 831.2  |
| 55°   | 686.0  | 698.4  | 730.5  | 771.5  | 784.0  |
| 57.5° | 630.7  | 646.8  | 680.6  | 722.5  | 735.0  |
| 60°   | 575.5  | 591.5  | 629.8  | 670.8  | 685.1  |
| 62.5° | 521.2  | 536.3  | 575.5  | 619.2  | 634.3  |
| 65°   | 464.1  | 480.2  | 522.1  | 565.7  | 580.9  |
| 67.5° | 408.0  | 424.1  | 465.9  | 511.4  | 527.4  |
| 70°   | 350.1  | 367.9  | 410.7  | 456.1  | 472.2  |
| 72.5° | 292.2  | 310.9  | 354.6  | 400.9  | 416.0  |
| 75°   | 236.1  | 254.8  | 298.4  | 345.7  | 360.8  |
| 77.5° | 180.8  | 201.3  | 244.1  | 292.2  | 306.5  |
| 80°   | 131.0  | 150.6  | 190.6  | 237.9  | 253.9  |
| 82.5° | 83.7   | 100.7  | 140.8  | 185.3  | 196.9  |
| 85°   | 42.8   | 58.8   | 86.4   | 109.6  | 111.4  |
| 87.5° | 13.4   | 18.7   | 28.5   | 42.8   | 43.7   |
| 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 | 16.59            | 18.25 | 16.95 | 18.57 | 18.88 | 17.42          | 19.08 | 17.78 | 19.40 | 19.71 |
|                 | 3H   | 18.35            | 19.85 | 18.72 | 20.18 | 20.54 | 19.54          | 21.04 | 19.91 | 21.37 | 21.73 |
|                 | 4H   | 18.96            | 20.39 | 19.36 | 20.73 | 21.11 | 20.43          | 21.85 | 20.82 | 22.19 | 22.57 |
|                 | 6H   | 19.37            | 20.70 | 19.79 | 21.06 | 21.45 | 21.21          | 22.53 | 21.62 | 22.89 | 23.28 |
|                 | 8H   | 19.48            | 20.74 | 19.91 | 21.13 | 21.53 | 21.53          | 22.79 | 21.95 | 23.18 | 23.58 |
|                 | 12H  | 19.53            | 20.74 | 19.96 | 21.13 | 21.55 | 21.74          | 22.95 | 22.17 | 23.33 | 23.76 |
| 4H              | 2H   | 17.36            | 18.78 | 17.76 | 19.13 | 19.51 | 18.01          | 19.43 | 18.41 | 19.78 | 20.15 |
|                 | 3H   | 19.34            | 20.54 | 19.75 | 20.93 | 21.33 | 20.36          | 21.56 | 20.77 | 21.96 | 22.36 |
|                 | 4H   | 20.08            | 21.16 | 20.51 | 21.57 | 22.01 | 21.41          | 22.50 | 21.85 | 22.91 | 23.35 |
|                 | 6H   | 20.60            | 21.56 | 21.06 | 22.00 | 22.45 | 22.37          | 23.32 | 22.82 | 23.76 | 24.21 |
|                 | 8H   | 20.75            | 21.64 | 21.21 | 22.08 | 22.55 | 22.76          | 23.66 | 23.22 | 24.10 | 24.56 |
|                 | 12H  | 20.83            | 21.64 | 21.31 | 22.11 | 22.58 | 23.04          | 23.85 | 23.52 | 24.32 | 24.79 |
| 8H              | 4H   | 20.53            | 21.43 | 20.99 | 21.87 | 22.33 | 21.70          | 22.60 | 22.16 | 23.04 | 23.50 |
|                 | 6H   | 21.20            | 21.94 | 21.69 | 22.43 | 22.90 | 22.82          | 23.56 | 23.31 | 24.05 | 24.52 |
|                 | 8H   | 21.41            | 22.07 | 21.91 | 22.58 | 23.06 | 23.33          | 24.00 | 23.83 | 24.50 | 24.99 |
|                 | 12H  | 21.55            | 22.14 | 22.05 | 22.63 | 23.19 | 23.71          | 24.31 | 24.22 | 24.79 | 25.35 |
| 12H             | 4H   | 20.62            | 21.43 | 21.10 | 21.90 | 22.37 | 21.73          | 22.53 | 22.21 | 23.01 | 23.47 |
|                 | 6H   | 21.33            | 22.00 | 21.83 | 22.50 | 22.99 | 22.86          | 23.53 | 23.37 | 24.04 | 24.52 |
|                 | 8H   | 21.61            | 22.20 | 22.11 | 22.69 | 23.25 | 23.44          | 24.03 | 23.95 | 24.52 | 25.08 |