

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: P1586410

Luminaire Tested: 22CZSP-42-L950-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586410  
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-42-L950-S  
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 4000 lumens, 90CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

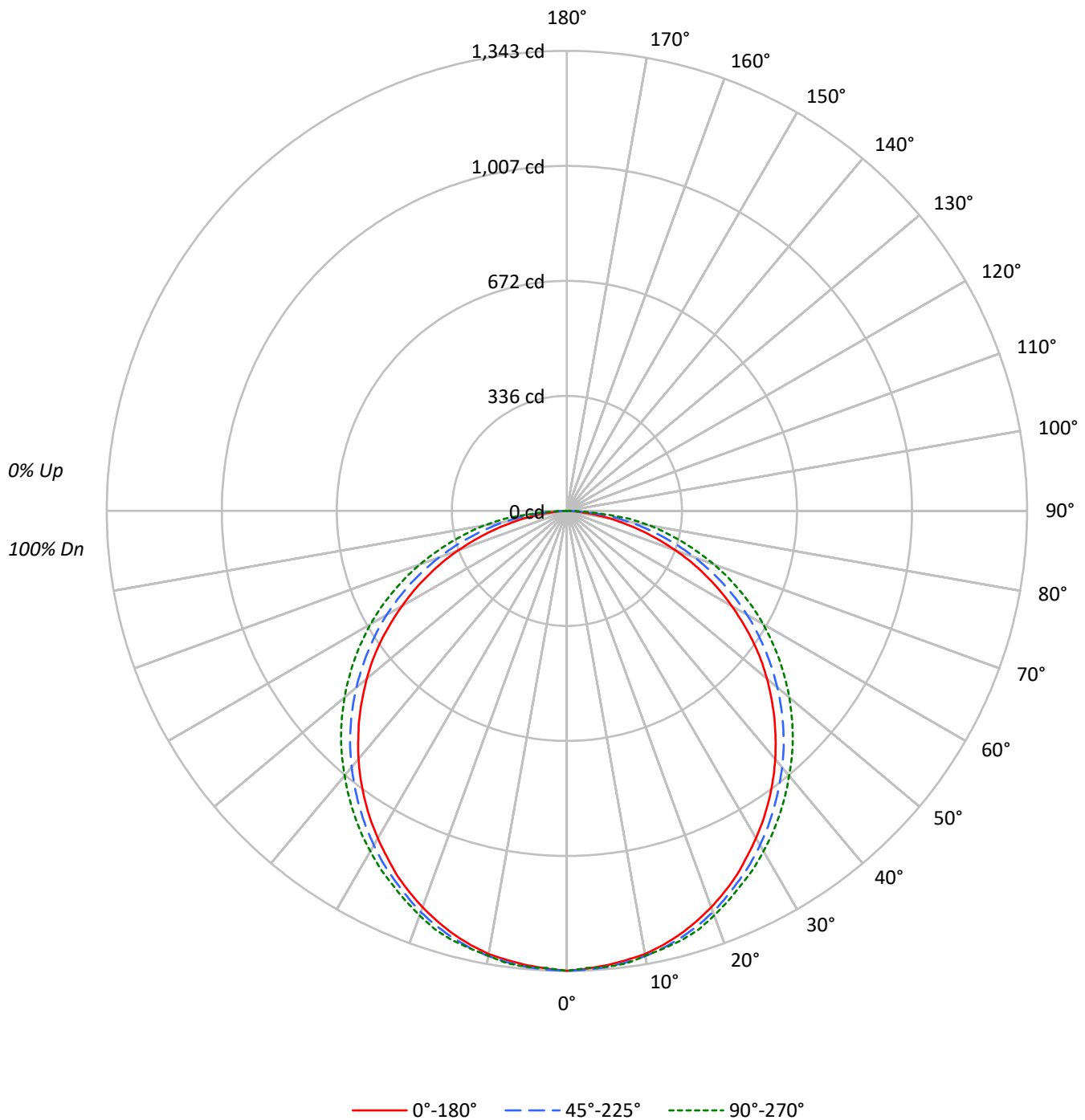
Lumens per Lamp: N/A  
Luminaire Lumens: 3920.0 lumens  
Efficiency: N/A  
Efficacy: 135.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.9  
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: P1586410

CATALOG NUMBER: 22CZSP-42-L950-S

### Luminous Intensity Polar Plot



TEST NUMBER: P1586410

CATALOG NUMBER: 22CZSP-42-L950-S

**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  | 69  |
| 3   | 89  | 79  | 70  | 64  | 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°  | 4204 | 4204 | 4204 |
| 5°  | 4185 | 4202 | 4199 |
| 10° | 4176 | 4196 | 4193 |
| 15° | 4147 | 4180 | 4205 |
| 20° | 4104 | 4153 | 4188 |
| 25° | 4054 | 4110 | 4161 |
| 30° | 3990 | 4074 | 4149 |
| 35° | 3932 | 4034 | 4136 |
| 40° | 3868 | 3994 | 4124 |
| 45° | 3794 | 3954 | 4129 |
| 50° | 3713 | 3905 | 4128 |
| 55° | 3616 | 3850 | 4132 |
| 60° | 3480 | 3808 | 4143 |
| 65° | 3320 | 3735 | 4155 |
| 70° | 3095 | 3630 | 4174 |
| 75° | 2757 | 3487 | 4215 |
| 80° | 2279 | 3320 | 4420 |
| 85° | 1484 | 2996 | 3862 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4561 cd/sqm

TEST NUMBER: P1586410

CATALOG NUMBER: 22CZSP-42-L950-S

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.0  | 3.2       |
| 10°-20°   | 363.6  | 9.3       |
| 20°-30°   | 548.4  | 14.0      |
| 30°-40°   | 660.5  | 16.8      |
| 40°-50°   | 689.8  | 17.6      |
| 50°-60°   | 633.5  | 16.2      |
| 60°-70°   | 499.0  | 12.7      |
| 70°-80°   | 306.1  | 7.8       |
| 80°-90°   | 92.1   | 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°    | 1039.0 | 26.5      |
| 0°-40°    | 1699.5 | 43.4      |
| 0°-60°    | 3022.8 | 77.1      |
| 0°-90°    | 3920.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3920.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1343 | 1343  | 1343 | 1343  | 1343 |      |
| 5°  | 1332 | 1333  | 1337 | 1341  | 1336 | 127  |
| 15° | 1279 | 1282  | 1289 | 1297  | 1297 | 361  |
| 25° | 1173 | 1176  | 1190 | 1204  | 1204 | 540  |
| 35° | 1029 | 1034  | 1055 | 1077  | 1082 | 643  |
| 45° | 857  | 866   | 893  | 924   | 932  | 661  |
| 55° | 662  | 674   | 705  | 745   | 757  | 591  |
| 65° | 448  | 464   | 504  | 546   | 561  | 443  |
| 75° | 228  | 246   | 288  | 334   | 348  | 242  |
| 85° | 41   | 57    | 83   | 106   | 108  | 54   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1586410

CATALOG NUMBER: 22CZSP-42-L950-S

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1342.7 | 1342.7 | 1342.7 | 1342.7 | 1342.7 |
| 2.5°  | 1337.5 | 1340.1 | 1341.0 | 1341.8 | 1335.8 |
| 5°    | 1331.5 | 1333.2 | 1336.7 | 1341.0 | 1335.8 |
| 7.5°  | 1322.9 | 1324.6 | 1328.9 | 1335.0 | 1332.4 |
| 10°   | 1313.5 | 1314.3 | 1319.5 | 1323.8 | 1318.6 |
| 12.5° | 1298.0 | 1300.6 | 1306.6 | 1310.0 | 1308.3 |
| 15°   | 1279.1 | 1281.6 | 1289.4 | 1297.1 | 1297.1 |
| 17.5° | 1256.7 | 1260.1 | 1269.6 | 1279.9 | 1280.8 |
| 20°   | 1231.7 | 1234.3 | 1246.4 | 1256.7 | 1256.7 |
| 22.5° | 1203.4 | 1206.8 | 1218.8 | 1230.0 | 1231.7 |
| 25°   | 1173.3 | 1175.8 | 1189.6 | 1204.2 | 1204.2 |
| 27.5° | 1138.0 | 1143.1 | 1160.4 | 1175.0 | 1178.4 |
| 30°   | 1103.6 | 1107.9 | 1126.8 | 1144.9 | 1147.4 |
| 32.5° | 1067.5 | 1072.6 | 1092.4 | 1112.2 | 1116.5 |
| 35°   | 1028.7 | 1033.9 | 1055.4 | 1076.9 | 1082.1 |
| 37.5° | 988.3  | 994.3  | 1016.7 | 1041.6 | 1046.8 |
| 40°   | 946.2  | 953.1  | 977.1  | 1003.8 | 1009.0 |
| 42.5° | 901.4  | 910.9  | 936.7  | 964.2  | 972.0  |
| 45°   | 856.7  | 866.2  | 892.8  | 923.8  | 932.4  |
| 47.5° | 809.4  | 820.6  | 848.1  | 880.8  | 890.3  |
| 50°   | 762.1  | 773.3  | 801.7  | 836.9  | 847.3  |
| 52.5° | 713.9  | 725.1  | 754.4  | 791.3  | 802.5  |
| 55°   | 662.3  | 674.4  | 705.3  | 744.9  | 756.9  |
| 57.5° | 609.0  | 624.5  | 657.2  | 697.6  | 709.6  |
| 60°   | 555.7  | 571.1  | 608.1  | 647.7  | 661.5  |
| 62.5° | 503.2  | 517.8  | 555.7  | 597.8  | 612.4  |
| 65°   | 448.1  | 463.6  | 504.1  | 546.2  | 560.8  |
| 67.5° | 394.0  | 409.4  | 449.9  | 493.7  | 509.2  |
| 70°   | 338.0  | 355.2  | 396.5  | 440.4  | 455.9  |
| 72.5° | 282.1  | 300.2  | 342.3  | 387.1  | 401.7  |
| 75°   | 227.9  | 246.0  | 288.2  | 333.7  | 348.4  |
| 77.5° | 174.6  | 194.4  | 235.7  | 282.1  | 295.9  |
| 80°   | 126.4  | 145.4  | 184.1  | 229.7  | 245.1  |
| 82.5° | 80.9   | 97.2   | 135.9  | 178.9  | 190.1  |
| 85°   | 41.3   | 56.8   | 83.4   | 105.8  | 107.5  |
| 87.5° | 12.9   | 18.1   | 27.5   | 41.3   | 42.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

TEST NUMBER: P1586410

CATALOG NUMBER: 22CZSP-42-L950-S

**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 | 16.47            | 18.13 | 16.83 | 18.44 | 18.76 | 17.30          | 18.96 | 17.66 | 19.27 | 19.59 |
|                 | 3H   | 18.22            | 19.73 | 18.60 | 20.06 | 20.42 | 19.41          | 20.92 | 19.79 | 21.25 | 21.61 |
|                 | 4H   | 18.84            | 20.26 | 19.24 | 20.61 | 20.99 | 20.30          | 21.73 | 20.70 | 22.07 | 22.45 |
|                 | 6H   | 19.25            | 20.57 | 19.66 | 20.94 | 21.33 | 21.08          | 22.41 | 21.49 | 22.77 | 23.16 |
|                 | 8H   | 19.36            | 20.62 | 19.78 | 21.01 | 21.41 | 21.40          | 22.67 | 21.83 | 23.06 | 23.45 |
|                 | 12H  | 19.41            | 20.62 | 19.84 | 21.00 | 21.43 | 21.62          | 22.83 | 22.04 | 23.21 | 23.64 |
| 4H              | 2H   | 17.24            | 18.66 | 17.64 | 19.01 | 19.38 | 17.89          | 19.31 | 18.28 | 19.66 | 20.03 |
|                 | 3H   | 19.22            | 20.41 | 19.63 | 20.81 | 21.21 | 20.24          | 21.44 | 20.65 | 21.84 | 22.23 |
|                 | 4H   | 19.95            | 21.04 | 20.38 | 21.45 | 21.89 | 21.29          | 22.38 | 21.72 | 22.79 | 23.23 |
|                 | 6H   | 20.48            | 21.43 | 20.93 | 21.87 | 22.33 | 22.25          | 23.20 | 22.70 | 23.64 | 24.09 |
|                 | 8H   | 20.63            | 21.52 | 21.09 | 21.96 | 22.43 | 22.64          | 23.53 | 23.10 | 23.98 | 24.44 |
|                 | 12H  | 20.71            | 21.52 | 21.19 | 21.99 | 22.46 | 22.92          | 23.72 | 23.40 | 24.20 | 24.67 |
| 8H              | 4H   | 20.41            | 21.30 | 20.87 | 21.75 | 22.21 | 21.58          | 22.47 | 22.04 | 22.92 | 23.38 |
|                 | 6H   | 21.07            | 21.82 | 21.57 | 22.30 | 22.78 | 22.69          | 23.44 | 23.19 | 23.92 | 24.40 |
|                 | 8H   | 21.28            | 21.95 | 21.79 | 22.46 | 22.94 | 23.21          | 23.87 | 23.71 | 24.38 | 24.86 |
|                 | 12H  | 21.42            | 22.02 | 21.93 | 22.51 | 23.06 | 23.59          | 24.18 | 24.10 | 24.67 | 25.23 |
| 12H             | 4H   | 20.50            | 21.31 | 20.98 | 21.78 | 22.25 | 21.61          | 22.41 | 22.09 | 22.88 | 23.35 |
|                 | 6H   | 21.21            | 21.88 | 21.71 | 22.38 | 22.86 | 22.74          | 23.41 | 23.25 | 23.92 | 24.40 |
|                 | 8H   | 21.48            | 22.08 | 21.99 | 22.57 | 23.12 | 23.32          | 23.91 | 23.82 | 24.40 | 24.96 |