

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: P1586364

Luminaire Tested: 22CZSP-35-L935-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586364  
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-35-L935-S  
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 90CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

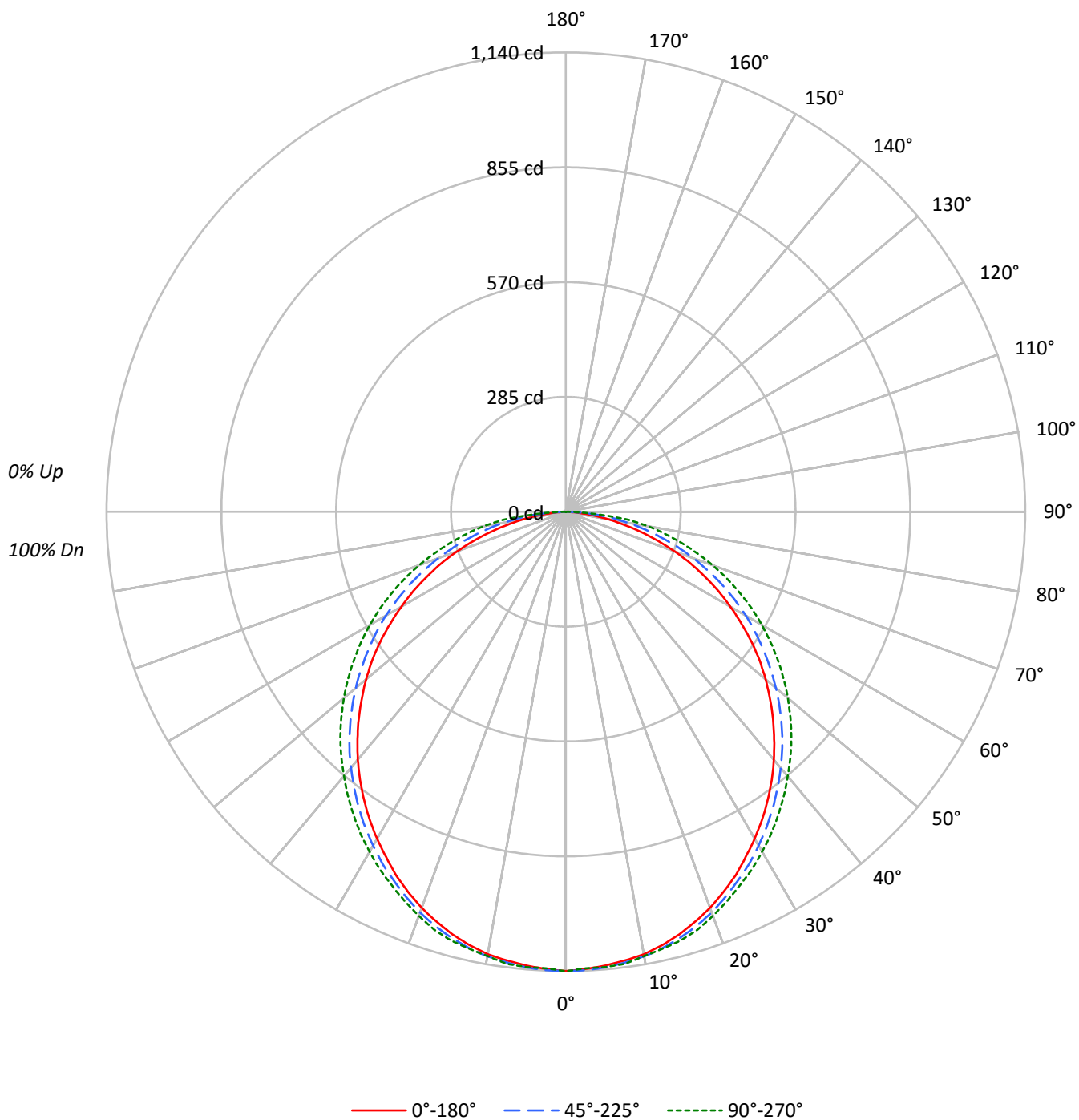
Lumens per Lamp: N/A  
Luminaire Lumens: 3328.0 lumens  
Efficiency: N/A  
Efficacy: 134.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 24.7  
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  | 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°  | 3569 | 3569 | 3569 |
| 5°  | 3553 | 3567 | 3565 |
| 10° | 3546 | 3562 | 3560 |
| 15° | 3520 | 3549 | 3570 |
| 20° | 3485 | 3526 | 3555 |
| 25° | 3442 | 3489 | 3532 |
| 30° | 3388 | 3459 | 3522 |
| 35° | 3339 | 3425 | 3512 |
| 40° | 3284 | 3391 | 3501 |
| 45° | 3221 | 3357 | 3505 |
| 50° | 3152 | 3316 | 3504 |
| 55° | 3070 | 3269 | 3508 |
| 60° | 2954 | 3233 | 3517 |
| 65° | 2819 | 3170 | 3528 |
| 70° | 2628 | 3082 | 3543 |
| 75° | 2341 | 2959 | 3579 |
| 80° | 1935 | 2818 | 3753 |
| 85° | 1261 | 2544 | 3280 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3872 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 107.8  | 3.2       |
| 10°-20°   | 308.7  | 9.3       |
| 20°-30°   | 465.6  | 14.0      |
| 30°-40°   | 560.8  | 16.8      |
| 40°-50°   | 585.6  | 17.6      |
| 50°-60°   | 537.8  | 16.2      |
| 60°-70°   | 423.6  | 12.7      |
| 70°-80°   | 259.9  | 7.8       |
| 80°-90°   | 78.2   | 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°    | 882.1  | 26.5      |
| 0°-40°    | 1442.8 | 43.4      |
| 0°-60°    | 2566.3 | 77.1      |
| 0°-90°    | 3328.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3328.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1140 | 1140  | 1140 | 1140  | 1140 |      |
| 5°  | 1130 | 1132  | 1135 | 1138  | 1134 | 107  |
| 15° | 1086 | 1088  | 1095 | 1101  | 1101 | 306  |
| 25° | 996  | 998   | 1010 | 1022  | 1022 | 458  |
| 35° | 873  | 878   | 896  | 914   | 919  | 546  |
| 45° | 727  | 735   | 758  | 784   | 792  | 561  |
| 55° | 562  | 572   | 599  | 632   | 643  | 502  |
| 65° | 380  | 394   | 428  | 464   | 476  | 376  |
| 75° | 194  | 209   | 245  | 283   | 296  | 205  |
| 85° | 35   | 48    | 71   | 90    | 91   | 46   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1139.9 | 1139.9 | 1139.9 | 1139.9 | 1139.9 |
| 2.5°  | 1135.5 | 1137.7 | 1138.5 | 1139.2 | 1134.1 |
| 5°    | 1130.4 | 1131.9 | 1134.8 | 1138.5 | 1134.1 |
| 7.5°  | 1123.1 | 1124.6 | 1128.2 | 1133.4 | 1131.2 |
| 10°   | 1115.1 | 1115.8 | 1120.2 | 1123.9 | 1119.5 |
| 12.5° | 1102.0 | 1104.1 | 1109.3 | 1112.2 | 1110.7 |
| 15°   | 1085.9 | 1088.1 | 1094.7 | 1101.2 | 1101.2 |
| 17.5° | 1066.9 | 1069.8 | 1077.9 | 1086.6 | 1087.4 |
| 20°   | 1045.7 | 1047.9 | 1058.1 | 1066.9 | 1066.9 |
| 22.5° | 1021.6 | 1024.5 | 1034.8 | 1044.3 | 1045.7 |
| 25°   | 996.1  | 998.3  | 1009.9 | 1022.4 | 1022.4 |
| 27.5° | 966.1  | 970.5  | 985.1  | 997.5  | 1000.5 |
| 30°   | 936.9  | 940.6  | 956.6  | 972.0  | 974.2  |
| 32.5° | 906.2  | 910.6  | 927.4  | 944.2  | 947.9  |
| 35°   | 873.4  | 877.8  | 896.0  | 914.3  | 918.7  |
| 37.5° | 839.1  | 844.2  | 863.2  | 884.3  | 888.7  |
| 40°   | 803.3  | 809.1  | 829.6  | 852.2  | 856.6  |
| 42.5° | 765.3  | 773.3  | 795.2  | 818.6  | 825.2  |
| 45°   | 727.3  | 735.4  | 758.0  | 784.3  | 791.6  |
| 47.5° | 687.2  | 696.7  | 720.0  | 747.8  | 755.8  |
| 50°   | 647.0  | 656.5  | 680.6  | 710.5  | 719.3  |
| 52.5° | 606.1  | 615.6  | 640.4  | 671.8  | 681.3  |
| 55°   | 562.3  | 572.5  | 598.8  | 632.4  | 642.6  |
| 57.5° | 517.0  | 530.2  | 557.9  | 592.2  | 602.5  |
| 60°   | 471.7  | 484.9  | 516.3  | 549.9  | 561.6  |
| 62.5° | 427.2  | 439.6  | 471.7  | 507.5  | 519.9  |
| 65°   | 380.5  | 393.6  | 427.9  | 463.7  | 476.1  |
| 67.5° | 334.5  | 347.6  | 381.9  | 419.2  | 432.3  |
| 70°   | 287.0  | 301.6  | 336.6  | 373.9  | 387.0  |
| 72.5° | 239.5  | 254.9  | 290.6  | 328.6  | 341.0  |
| 75°   | 193.5  | 208.9  | 244.6  | 283.3  | 295.8  |
| 77.5° | 148.2  | 165.0  | 200.1  | 239.5  | 251.2  |
| 80°   | 107.3  | 123.4  | 156.3  | 195.0  | 208.1  |
| 82.5° | 68.6   | 82.5   | 115.4  | 151.9  | 161.4  |
| 85°   | 35.1   | 48.2   | 70.8   | 89.8   | 91.3   |
| 87.5° | 11.0   | 15.3   | 23.4   | 35.1   | 35.8   |
| 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 | 15.90            | 17.56 | 16.26 | 17.88 | 18.19 | 16.73          | 18.39 | 17.09 | 18.71 | 19.02 |
|                 | 3H   | 17.65            | 19.16 | 18.03 | 19.49 | 19.85 | 18.85          | 20.35 | 19.22 | 20.68 | 21.04 |
|                 | 4H   | 18.27            | 19.70 | 18.67 | 20.04 | 20.42 | 19.73          | 21.16 | 20.13 | 21.50 | 21.88 |
|                 | 6H   | 18.68            | 20.00 | 19.09 | 20.37 | 20.76 | 20.52          | 21.84 | 20.93 | 22.20 | 22.59 |
|                 | 8H   | 18.79            | 20.05 | 19.22 | 20.44 | 20.84 | 20.84          | 22.10 | 21.26 | 22.49 | 22.88 |
|                 | 12H  | 18.84            | 20.05 | 19.27 | 20.44 | 20.86 | 21.05          | 22.26 | 21.48 | 22.64 | 23.07 |
| 4H              | 2H   | 16.67            | 18.09 | 17.07 | 18.44 | 18.82 | 17.32          | 18.74 | 17.71 | 19.09 | 19.46 |
|                 | 3H   | 18.65            | 19.85 | 19.06 | 20.24 | 20.64 | 19.67          | 20.87 | 20.08 | 21.27 | 21.67 |
|                 | 4H   | 19.38            | 20.47 | 19.82 | 20.88 | 21.32 | 20.72          | 21.81 | 21.15 | 22.22 | 22.66 |
|                 | 6H   | 19.91            | 20.87 | 20.37 | 21.31 | 21.76 | 21.68          | 22.63 | 22.13 | 23.07 | 23.52 |
|                 | 8H   | 20.06            | 20.95 | 20.52 | 21.39 | 21.86 | 22.07          | 22.97 | 22.53 | 23.41 | 23.87 |
|                 | 12H  | 20.14            | 20.95 | 20.62 | 21.42 | 21.89 | 22.35          | 23.15 | 22.83 | 23.63 | 24.10 |
| 8H              | 4H   | 19.84            | 20.74 | 20.30 | 21.18 | 21.64 | 21.01          | 21.91 | 21.47 | 22.35 | 22.81 |
|                 | 6H   | 20.50            | 21.25 | 21.00 | 21.74 | 22.21 | 22.12          | 22.87 | 22.62 | 23.36 | 23.83 |
|                 | 8H   | 20.72            | 21.38 | 21.22 | 21.89 | 22.37 | 22.64          | 23.31 | 23.14 | 23.81 | 24.29 |
|                 | 12H  | 20.85            | 21.45 | 21.36 | 21.94 | 22.49 | 23.02          | 23.61 | 23.53 | 24.10 | 24.66 |
| 12H             | 4H   | 19.93            | 20.74 | 20.41 | 21.21 | 21.68 | 21.04          | 21.84 | 21.52 | 22.32 | 22.78 |
|                 | 6H   | 20.64            | 21.31 | 21.14 | 21.81 | 22.30 | 22.17          | 22.84 | 22.68 | 23.35 | 23.83 |
|                 | 8H   | 20.91            | 21.51 | 21.42 | 22.00 | 22.55 | 22.75          | 23.34 | 23.26 | 23.83 | 24.39 |