

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: P1584236

Luminaire Tested: 14CZSP-35-L840-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1584236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 14CZSP-35-L840-S  
Description: 1x4 CZSP LED Luminaire, 4000K CCT and 3000 lumens, 80CRI, Smooth Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

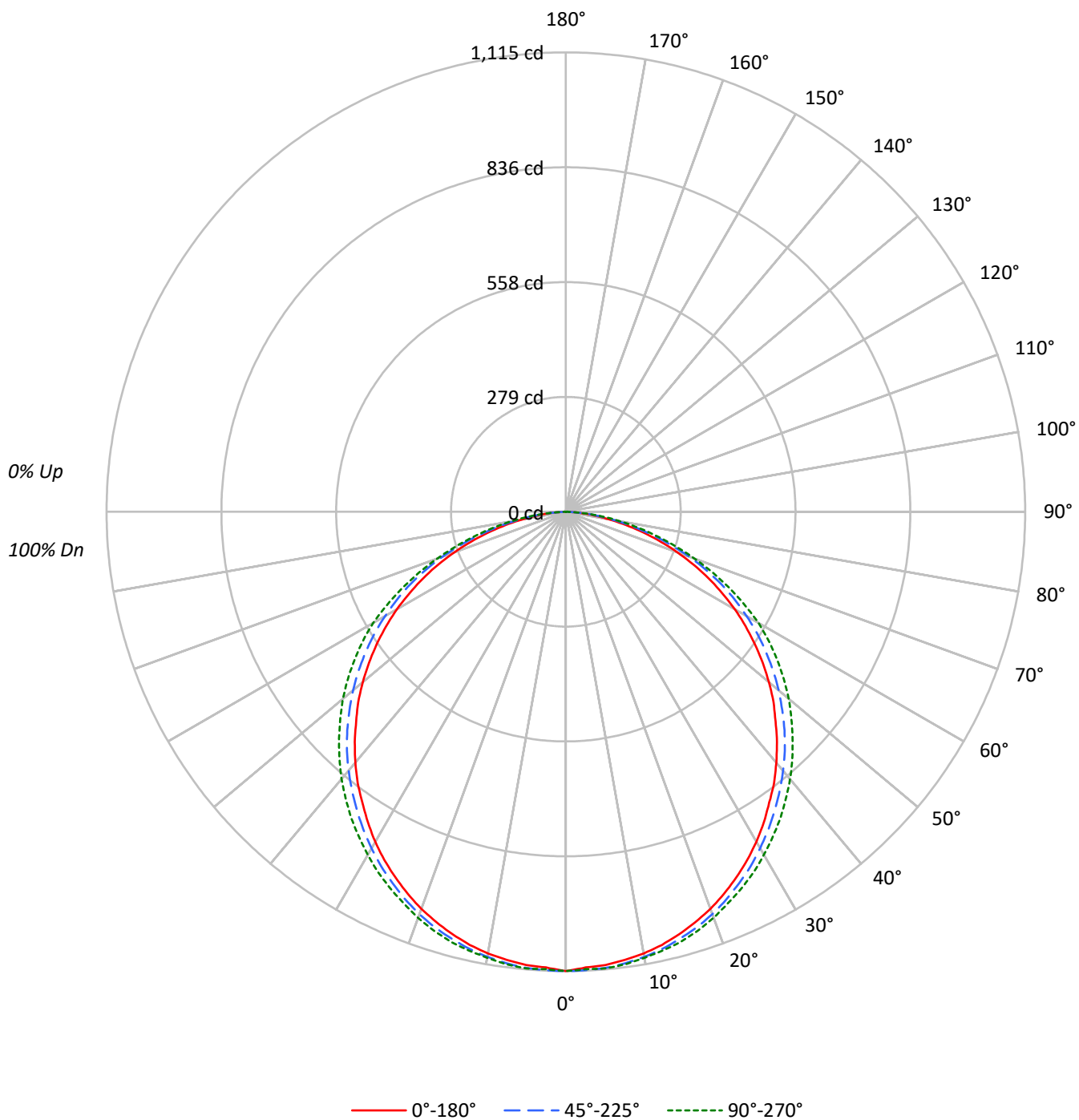
Lumens per Lamp: N/A  
Luminaire Lumens: 3223.0 lumens  
Efficiency: N/A  
Efficacy: 138.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.2  
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  |     |     | 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   | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 94  | 97  | 94  | 91  |  | 93  | 91  | 88  |  | 90  | 88  | 86  | 84  |
| 2   | 99  | 90  | 83  | 78  | 96  | 88  | 82  | 77  | 85  | 80  | 75  |  | 82  | 77  | 73  |  | 79  | 75  | 72  | 69  |
| 3   | 90  | 79  | 71  | 64  | 87  | 78  | 70  | 64  | 75  | 68  | 63  |  | 72  | 66  | 62  |  | 69  | 65  | 60  | 58  |
| 4   | 82  | 70  | 61  | 54  | 80  | 69  | 60  | 54  | 66  | 59  | 53  |  | 64  | 58  | 52  |  | 62  | 56  | 52  | 50  |
| 5   | 76  | 63  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 52  | 46  |  | 57  | 51  | 45  |  | 55  | 50  | 45  | 43  |
| 6   | 70  | 56  | 47  | 41  | 68  | 55  | 47  | 41  | 53  | 46  | 40  |  | 52  | 45  | 40  |  | 50  | 44  | 39  | 37  |
| 7   | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 49  | 41  | 35  |  | 47  | 40  | 35  |  | 46  | 40  | 35  | 33  |
| 8   | 60  | 46  | 38  | 32  | 59  | 46  | 38  | 32  | 44  | 37  | 32  |  | 43  | 36  | 31  |  | 42  | 36  | 31  | 29  |
| 9   | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 28  |  | 40  | 33  | 28  |  | 39  | 33  | 28  | 26  |
| 10  | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  |  | 37  | 30  | 26  |  | 36  | 30  | 26  | 24  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3756 | 3756 | 3756 |
| 5°  | 3736 | 3760 | 3763 |
| 10° | 3725 | 3753 | 3761 |
| 15° | 3704 | 3742 | 3768 |
| 20° | 3678 | 3727 | 3761 |
| 25° | 3641 | 3699 | 3750 |
| 30° | 3599 | 3669 | 3741 |
| 35° | 3542 | 3638 | 3735 |
| 40° | 3495 | 3608 | 3725 |
| 45° | 3430 | 3576 | 3710 |
| 50° | 3372 | 3534 | 3703 |
| 55° | 3292 | 3484 | 3679 |
| 60° | 3191 | 3415 | 3641 |
| 65° | 3049 | 3321 | 3491 |
| 70° | 2841 | 3136 | 3277 |
| 75° | 2539 | 2829 | 2989 |
| 80° | 2080 | 2385 | 2614 |
| 85° | 1396 | 1744 | 1945 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3710 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 105.6  | 3.3       |
| 10°-20°   | 302.7  | 9.4       |
| 20°-30°   | 458.3  | 14.2      |
| 30°-40°   | 553.5  | 17.2      |
| 40°-50°   | 578.4  | 17.9      |
| 50°-60°   | 530.1  | 16.4      |
| 60°-70°   | 409.2  | 12.7      |
| 70°-80°   | 230.2  | 7.1       |
| 80°-90°   | 55.1   | 1.7       |
| 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°    | 866.6  | 26.9      |
| 0°-40°    | 1420.1 | 44.1      |
| 0°-60°    | 2528.6 | 78.5      |
| 0°-90°    | 3223.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3223.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1115 | 1115  | 1115 | 1115  | 1115 |      |
| 5°  | 1104 | 1112  | 1112 | 1112  | 1112 | 105  |
| 15° | 1062 | 1070  | 1073 | 1077  | 1080 | 300  |
| 25° | 979  | 988   | 995  | 1000  | 1009 | 451  |
| 35° | 861  | 872   | 884  | 896   | 908  | 539  |
| 45° | 720  | 734   | 750  | 766   | 778  | 556  |
| 55° | 560  | 575   | 593  | 612   | 626  | 501  |
| 65° | 382  | 399   | 416  | 433   | 438  | 378  |
| 75° | 195  | 213   | 217  | 226   | 230  | 207  |
| 85° | 36   | 41    | 45   | 49    | 50   | 46   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1114.8 | 1114.8 | 1114.8 | 1114.8 | 1114.8 |
| 2.5°  | 1107.2 | 1115.8 | 1113.9 | 1116.7 | 1111.5 |
| 5°    | 1104.4 | 1112.5 | 1111.5 | 1112.5 | 1112.5 |
| 7.5°  | 1097.3 | 1105.8 | 1105.4 | 1106.8 | 1107.7 |
| 10°   | 1088.7 | 1096.8 | 1096.8 | 1098.2 | 1099.2 |
| 12.5° | 1076.9 | 1085.4 | 1086.4 | 1088.7 | 1090.6 |
| 15°   | 1061.7 | 1070.2 | 1072.6 | 1076.9 | 1080.2 |
| 17.5° | 1044.6 | 1053.6 | 1057.4 | 1061.7 | 1066.0 |
| 20°   | 1025.7 | 1033.7 | 1039.4 | 1042.7 | 1048.9 |
| 22.5° | 1003.4 | 1012.4 | 1018.5 | 1021.9 | 1028.5 |
| 25°   | 979.2  | 987.7  | 994.8  | 1000.0 | 1008.6 |
| 27.5° | 953.5  | 962.1  | 970.6  | 976.8  | 986.8  |
| 30°   | 925.1  | 934.1  | 943.1  | 952.6  | 961.6  |
| 32.5° | 894.2  | 904.7  | 914.6  | 925.1  | 935.0  |
| 35°   | 861.0  | 871.9  | 884.3  | 896.1  | 908.0  |
| 37.5° | 830.2  | 840.2  | 853.0  | 865.8  | 877.6  |
| 40°   | 794.6  | 805.5  | 820.2  | 834.5  | 846.8  |
| 42.5° | 758.6  | 770.4  | 786.6  | 800.3  | 813.6  |
| 45°   | 719.7  | 733.9  | 750.5  | 765.7  | 778.5  |
| 47.5° | 683.6  | 695.9  | 712.5  | 729.2  | 742.4  |
| 50°   | 643.3  | 657.0  | 674.1  | 691.7  | 706.4  |
| 52.5° | 602.5  | 616.7  | 634.3  | 651.8  | 667.0  |
| 55°   | 560.3  | 575.0  | 593.0  | 611.5  | 626.2  |
| 57.5° | 517.1  | 532.8  | 551.3  | 569.8  | 584.5  |
| 60°   | 473.5  | 489.1  | 506.7  | 527.1  | 540.3  |
| 62.5° | 427.9  | 445.5  | 462.1  | 481.0  | 489.1  |
| 65°   | 382.4  | 399.0  | 416.5  | 433.1  | 437.9  |
| 67.5° | 335.9  | 353.0  | 368.6  | 379.5  | 385.7  |
| 70°   | 288.4  | 306.9  | 318.3  | 328.8  | 332.6  |
| 72.5° | 241.5  | 260.0  | 266.6  | 276.6  | 280.4  |
| 75°   | 195.0  | 213.0  | 217.3  | 226.3  | 229.6  |
| 77.5° | 149.9  | 166.5  | 167.9  | 178.4  | 181.2  |
| 80°   | 107.2  | 120.5  | 122.9  | 132.8  | 134.7  |
| 82.5° | 68.8   | 78.3   | 81.6   | 90.1   | 93.0   |
| 85°   | 36.1   | 41.3   | 45.1   | 49.3   | 50.3   |
| 87.5° | 11.9   | 14.7   | 12.3   | 12.8   | 11.9   |
| 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 | 16.31            | 17.96 | 16.68 | 18.28 | 18.59 | 16.85          | 18.50 | 17.22 | 18.82 | 19.13 |
|                 | 3H   | 18.09            | 19.58 | 18.46 | 19.91 | 20.27 | 18.71          | 20.20 | 19.08 | 20.53 | 20.89 |
|                 | 4H   | 18.71            | 20.12 | 19.11 | 20.47 | 20.84 | 19.38          | 20.78 | 19.77 | 21.13 | 21.51 |
|                 | 6H   | 19.12            | 20.43 | 19.53 | 20.79 | 21.18 | 19.85          | 21.16 | 20.26 | 21.52 | 21.91 |
|                 | 8H   | 19.22            | 20.47 | 19.65 | 20.86 | 21.26 | 20.00          | 21.25 | 20.42 | 21.63 | 22.03 |
|                 | 12H  | 19.27            | 20.47 | 19.70 | 20.85 | 21.28 | 20.08          | 21.28 | 20.51 | 21.66 | 22.09 |
| 4H              | 2H   | 17.04            | 18.44 | 17.43 | 18.79 | 19.16 | 17.46          | 18.86 | 17.86 | 19.21 | 19.59 |
|                 | 3H   | 19.03            | 20.21 | 19.44 | 20.61 | 21.01 | 19.53          | 20.71 | 19.94 | 21.11 | 21.51 |
|                 | 4H   | 19.79            | 20.86 | 20.22 | 21.27 | 21.70 | 20.33          | 21.39 | 20.76 | 21.81 | 22.24 |
|                 | 6H   | 20.31            | 21.25 | 20.77 | 21.69 | 22.14 | 20.93          | 21.86 | 21.38 | 22.30 | 22.76 |
|                 | 8H   | 20.45            | 21.33 | 20.91 | 21.77 | 22.23 | 21.12          | 21.99 | 21.58 | 22.43 | 22.90 |
|                 | 12H  | 20.53            | 21.32 | 21.01 | 21.79 | 22.26 | 21.24          | 22.03 | 21.72 | 22.50 | 22.97 |
| 8H              | 4H   | 20.12            | 21.00 | 20.58 | 21.44 | 21.90 | 20.60          | 21.48 | 21.06 | 21.92 | 22.38 |
|                 | 6H   | 20.76            | 21.49 | 21.26 | 21.98 | 22.45 | 21.31          | 22.04 | 21.81 | 22.53 | 23.00 |
|                 | 8H   | 20.96            | 21.62 | 21.47 | 22.12 | 22.61 | 21.57          | 22.22 | 22.08 | 22.73 | 23.21 |
|                 | 12H  | 21.09            | 21.67 | 21.60 | 22.16 | 22.72 | 21.75          | 22.33 | 22.26 | 22.82 | 23.38 |
| 12H             | 4H   | 20.16            | 20.95 | 20.64 | 21.42 | 21.89 | 20.63          | 21.41 | 21.10 | 21.89 | 22.35 |
|                 | 6H   | 20.82            | 21.47 | 21.33 | 21.98 | 22.46 | 21.35          | 22.00 | 21.86 | 22.51 | 22.99 |
|                 | 8H   | 21.07            | 21.65 | 21.58 | 22.14 | 22.70 | 21.66          | 22.23 | 22.16 | 22.72 | 23.28 |