

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: P1586355

Luminaire Tested: 22CZSP-35-L835

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586355  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2605-772-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-35-L835  
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Ribbed Lens  
Light Source: -  
Ballast/Driver: -

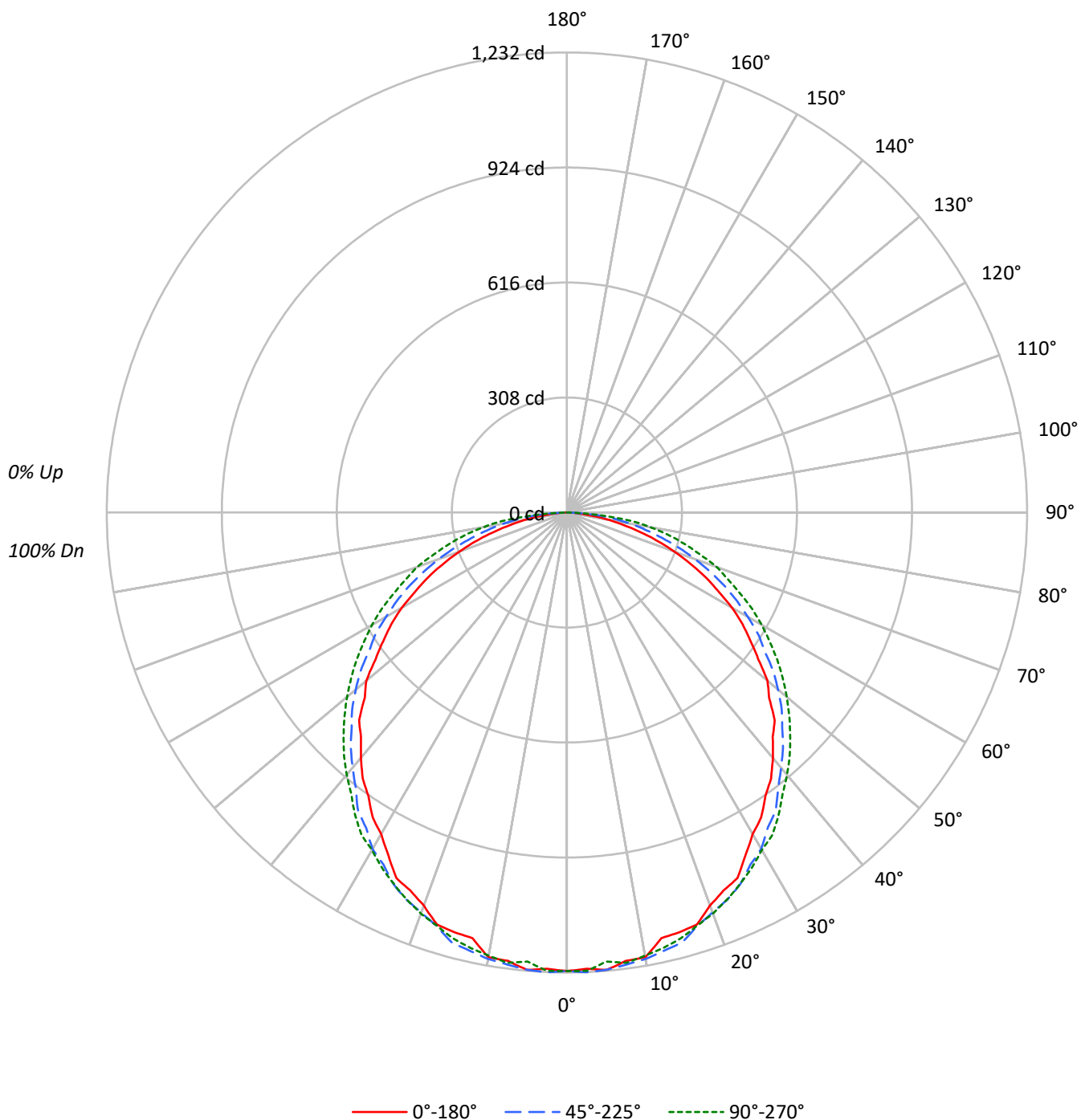
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3585.0 lumens  
Efficiency: N/A  
Efficacy: 145.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 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  | 68  |
| 3   | 89  | 79  | 70  | 63  | 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  | 31  | 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°  | 3845 | 3845 | 3845 |
| 5°  | 3864 | 3864 | 3795 |
| 10° | 3846 | 3860 | 3831 |
| 15° | 3772 | 3864 | 3827 |
| 20° | 3732 | 3798 | 3809 |
| 25° | 3732 | 3796 | 3791 |
| 30° | 3597 | 3762 | 3773 |
| 35° | 3542 | 3726 | 3779 |
| 40° | 3506 | 3647 | 3747 |
| 45° | 3484 | 3609 | 3745 |
| 50° | 3415 | 3594 | 3743 |
| 55° | 3277 | 3527 | 3752 |
| 60° | 3198 | 3500 | 3773 |
| 65° | 3036 | 3450 | 3784 |
| 70° | 2800 | 3339 | 3913 |
| 75° | 2489 | 3192 | 3950 |
| 80° | 2068 | 3130 | 4095 |
| 85° | 1265 | 2802 | 3460 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4237 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 116.4  | 3.2       |
| 10°-20°   | 332.7  | 9.3       |
| 20°-30°   | 501.8  | 14.0      |
| 30°-40°   | 602.8  | 16.8      |
| 40°-50°   | 629.2  | 17.6      |
| 50°-60°   | 579.3  | 16.2      |
| 60°-70°   | 457.5  | 12.8      |
| 70°-80°   | 281.7  | 7.9       |
| 80°-90°   | 83.5   | 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°    | 951.0  | 26.5      |
| 0°-40°    | 1553.8 | 43.3      |
| 0°-60°    | 2762.3 | 77.1      |
| 0°-90°    | 3585.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3585.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1228 | 1228  | 1228 | 1228  | 1228 |      |
| 5°  | 1229 | 1217  | 1229 | 1231  | 1207 | 116  |
| 15° | 1164 | 1180  | 1192 | 1187  | 1180 | 329  |
| 25° | 1080 | 1088  | 1099 | 1094  | 1097 | 492  |
| 35° | 927  | 944   | 975  | 979   | 989  | 582  |
| 45° | 787  | 793   | 815  | 833   | 846  | 602  |
| 55° | 600  | 616   | 646  | 675   | 687  | 539  |
| 65° | 410  | 424   | 466  | 499   | 511  | 404  |
| 75° | 206  | 226   | 264  | 306   | 326  | 218  |
| 85° | 35   | 50    | 78   | 92    | 96   | 47   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1227.9 | 1227.9 | 1227.9 | 1227.9 | 1227.9 |
| 2.5°  | 1223.3 | 1236.3 | 1232.4 | 1234.7 | 1228.6 |
| 5°    | 1229.4 | 1217.2 | 1229.4 | 1230.9 | 1207.2 |
| 7.5°  | 1211.0 | 1212.6 | 1221.0 | 1223.3 | 1216.4 |
| 10°   | 1209.5 | 1214.1 | 1214.1 | 1206.5 | 1204.9 |
| 12.5° | 1167.5 | 1190.4 | 1201.9 | 1207.2 | 1194.2 |
| 15°   | 1163.6 | 1179.7 | 1191.9 | 1186.6 | 1180.5 |
| 17.5° | 1156.8 | 1152.2 | 1160.6 | 1166.7 | 1159.8 |
| 20°   | 1120.1 | 1127.7 | 1139.9 | 1141.5 | 1143.0 |
| 22.5° | 1095.6 | 1097.9 | 1122.4 | 1124.6 | 1121.6 |
| 25°   | 1080.3 | 1087.9 | 1098.7 | 1094.1 | 1097.1 |
| 27.5° | 1035.2 | 1053.5 | 1063.5 | 1072.7 | 1072.7 |
| 30°   | 994.7  | 1016.1 | 1040.5 | 1043.6 | 1043.6 |
| 32.5° | 967.9  | 982.4  | 1000.8 | 1006.9 | 1023.7 |
| 35°   | 926.6  | 943.5  | 974.8  | 979.4  | 988.6  |
| 37.5° | 897.6  | 914.4  | 928.9  | 945.0  | 948.8  |
| 40°   | 857.8  | 875.4  | 892.2  | 910.6  | 916.7  |
| 42.5° | 815.8  | 834.1  | 856.3  | 875.4  | 883.1  |
| 45°   | 786.7  | 792.8  | 815.0  | 832.6  | 845.6  |
| 47.5° | 734.0  | 751.5  | 779.8  | 802.0  | 807.4  |
| 50°   | 701.1  | 708.0  | 737.8  | 767.6  | 768.4  |
| 52.5° | 646.0  | 666.7  | 695.7  | 724.0  | 727.8  |
| 55°   | 600.2  | 616.2  | 646.0  | 675.1  | 687.3  |
| 57.5° | 557.4  | 569.6  | 607.8  | 636.9  | 643.7  |
| 60°   | 510.7  | 523.7  | 558.9  | 592.5  | 602.5  |
| 62.5° | 456.4  | 474.8  | 513.0  | 545.1  | 558.9  |
| 65°   | 409.8  | 424.3  | 465.6  | 499.2  | 510.7  |
| 67.5° | 357.0  | 376.9  | 415.9  | 453.4  | 465.6  |
| 70°   | 305.8  | 325.7  | 364.7  | 403.7  | 427.4  |
| 72.5° | 255.4  | 276.0  | 315.0  | 360.1  | 373.1  |
| 75°   | 205.7  | 225.5  | 263.8  | 305.8  | 326.5  |
| 77.5° | 156.7  | 178.1  | 217.1  | 259.2  | 279.1  |
| 80°   | 114.7  | 131.5  | 173.6  | 210.3  | 227.1  |
| 82.5° | 71.1   | 88.7   | 127.7  | 162.1  | 176.6  |
| 85°   | 35.2   | 50.5   | 78.0   | 92.5   | 96.3   |
| 87.5° | 10.7   | 16.1   | 24.5   | 32.1   | 36.7   |
| 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 | 16.15            | 17.81 | 16.51 | 18.12 | 18.44 | 16.97          | 18.63 | 17.33 | 18.95 | 19.26 |
|                 | 3H   | 17.90            | 19.41 | 18.28 | 19.73 | 20.09 | 19.12          | 20.62 | 19.49 | 20.95 | 21.31 |
|                 | 4H   | 18.51            | 19.94 | 18.91 | 20.28 | 20.66 | 20.03          | 21.45 | 20.43 | 21.80 | 22.17 |
|                 | 6H   | 18.92            | 20.24 | 19.33 | 20.60 | 20.99 | 20.83          | 22.15 | 21.24 | 22.52 | 22.91 |
|                 | 8H   | 19.02            | 20.28 | 19.44 | 20.67 | 21.07 | 21.15          | 22.42 | 21.58 | 22.80 | 23.20 |
|                 | 12H  | 19.06            | 20.27 | 19.49 | 20.66 | 21.08 | 21.36          | 22.57 | 21.79 | 22.95 | 23.38 |
| 4H              | 2H   | 16.94            | 18.36 | 17.33 | 18.71 | 19.08 | 17.57          | 19.00 | 17.97 | 19.34 | 19.72 |
|                 | 3H   | 18.91            | 20.11 | 19.32 | 20.51 | 20.90 | 19.95          | 21.15 | 20.36 | 21.55 | 21.95 |
|                 | 4H   | 19.64            | 20.73 | 20.07 | 21.14 | 21.58 | 21.02          | 22.11 | 21.45 | 22.52 | 22.95 |
|                 | 6H   | 20.16            | 21.11 | 20.61 | 21.55 | 22.01 | 21.99          | 22.94 | 22.44 | 23.38 | 23.83 |
|                 | 8H   | 20.30            | 21.19 | 20.76 | 21.64 | 22.10 | 22.39          | 23.28 | 22.84 | 23.72 | 24.18 |
|                 | 12H  | 20.38            | 21.18 | 20.86 | 21.66 | 22.12 | 22.65          | 23.46 | 23.13 | 23.93 | 24.40 |
| 8H              | 4H   | 20.11            | 21.00 | 20.57 | 21.44 | 21.91 | 21.31          | 22.20 | 21.77 | 22.64 | 23.11 |
|                 | 6H   | 20.76            | 21.51 | 21.25 | 21.99 | 22.47 | 22.44          | 23.18 | 22.93 | 23.67 | 24.14 |
|                 | 8H   | 20.97            | 21.64 | 21.48 | 22.14 | 22.63 | 22.94          | 23.61 | 23.45 | 24.12 | 24.60 |
|                 | 12H  | 21.10            | 21.69 | 21.60 | 22.18 | 22.74 | 23.31          | 23.90 | 23.82 | 24.39 | 24.95 |
| 12H             | 4H   | 20.20            | 21.00 | 20.68 | 21.48 | 21.95 | 21.33          | 22.14 | 21.81 | 22.61 | 23.08 |
|                 | 6H   | 20.90            | 21.57 | 21.41 | 22.08 | 22.56 | 22.48          | 23.15 | 22.99 | 23.66 | 24.14 |
|                 | 8H   | 21.17            | 21.77 | 21.68 | 22.26 | 22.81 | 23.06          | 23.65 | 23.56 | 24.14 | 24.70 |