

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: P1587621

Luminaire Tested: 22CZSP-SB-33HE-L850

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1587621  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-SB-33HE-L850  
Description: 2x2 CZSP LED Luminaire, 5000K CCT and 3000 lumens, 80CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

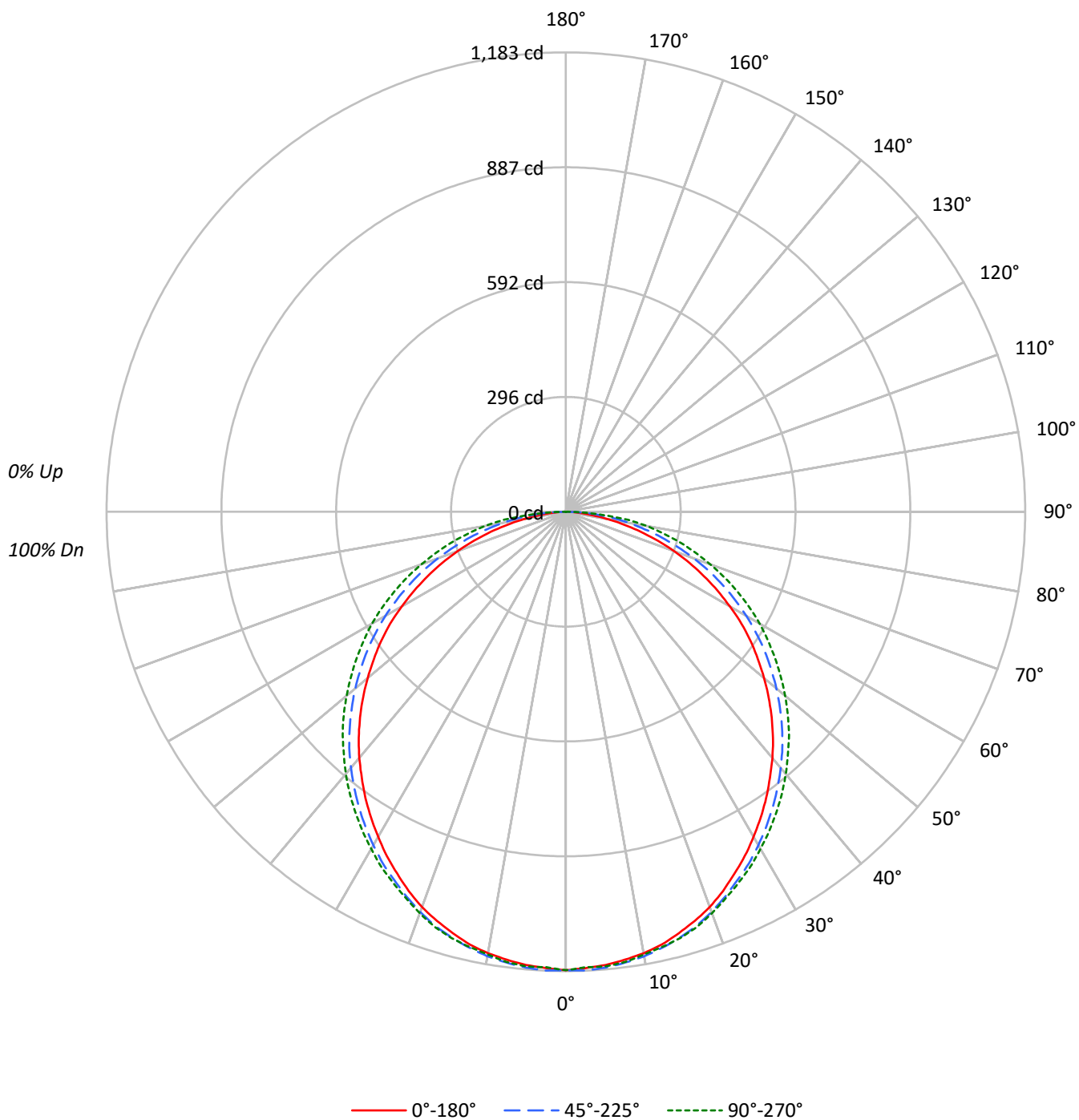
Lumens per Lamp: N/A  
Luminaire Lumens: 3445.0 lumens  
Efficiency: N/A  
Efficacy: 158.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.7  
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  | 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°  | 3697 | 3697 | 3697 |
| 5°  | 3683 | 3704 | 3695 |
| 10° | 3670 | 3695 | 3682 |
| 15° | 3642 | 3680 | 3685 |
| 20° | 3611 | 3654 | 3667 |
| 25° | 3552 | 3615 | 3640 |
| 30° | 3496 | 3585 | 3625 |
| 35° | 3439 | 3551 | 3612 |
| 40° | 3383 | 3520 | 3603 |
| 45° | 3319 | 3487 | 3600 |
| 50° | 3246 | 3449 | 3591 |
| 55° | 3172 | 3412 | 3591 |
| 60° | 3055 | 3361 | 3612 |
| 65° | 2912 | 3296 | 3614 |
| 70° | 2717 | 3204 | 3625 |
| 75° | 2417 | 3088 | 3688 |
| 80° | 1985 | 2959 | 3827 |
| 85° | 1311 | 2777 | 3456 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3918 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 111.7  | 3.2       |
| 10°-20°   | 319.6  | 9.3       |
| 20°-30°   | 481.7  | 14.0      |
| 30°-40°   | 580.2  | 16.8      |
| 40°-50°   | 606.1  | 17.6      |
| 50°-60°   | 556.8  | 16.2      |
| 60°-70°   | 438.5  | 12.7      |
| 70°-80°   | 268.8  | 7.8       |
| 80°-90°   | 81.5   | 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°    | 913.0  | 26.5      |
| 0°-40°    | 1493.2 | 43.3      |
| 0°-60°    | 2656.1 | 77.1      |
| 0°-90°    | 3445.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3445.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1180 | 1180  | 1180 | 1180  | 1180 |      |
| 5°  | 1172 | 1174  | 1178 | 1177  | 1175 | 111  |
| 15° | 1124 | 1128  | 1135 | 1140  | 1137 | 317  |
| 25° | 1028 | 1035  | 1046 | 1057  | 1054 | 474  |
| 35° | 900  | 911   | 929  | 946   | 945  | 563  |
| 45° | 750  | 766   | 788  | 809   | 813  | 578  |
| 55° | 581  | 598   | 625  | 652   | 658  | 518  |
| 65° | 393  | 413   | 445  | 475   | 488  | 389  |
| 75° | 200  | 223   | 255  | 286   | 305  | 212  |
| 85° | 36   | 54    | 77   | 86    | 96   | 47   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1180.5 | 1180.5 | 1180.5 | 1180.5 | 1180.5 |
| 2.5°  | 1176.1 | 1179.0 | 1182.7 | 1176.8 | 1173.9 |
| 5°    | 1171.7 | 1173.9 | 1178.3 | 1176.8 | 1175.4 |
| 7.5°  | 1163.7 | 1165.2 | 1171.0 | 1171.0 | 1169.5 |
| 10°   | 1154.2 | 1157.1 | 1162.2 | 1161.5 | 1157.9 |
| 12.5° | 1141.8 | 1144.0 | 1149.8 | 1149.8 | 1147.7 |
| 15°   | 1123.6 | 1128.0 | 1135.3 | 1139.6 | 1136.7 |
| 17.5° | 1104.6 | 1109.0 | 1118.5 | 1122.9 | 1121.4 |
| 20°   | 1083.5 | 1087.1 | 1096.6 | 1103.2 | 1100.3 |
| 22.5° | 1057.2 | 1061.6 | 1072.6 | 1079.8 | 1076.9 |
| 25°   | 1028.1 | 1034.6 | 1046.3 | 1057.2 | 1053.6 |
| 27.5° | 998.9  | 1006.2 | 1020.8 | 1031.7 | 1030.3 |
| 30°   | 966.8  | 976.3  | 991.6  | 1005.5 | 1002.6 |
| 32.5° | 934.0  | 945.0  | 961.0  | 975.6  | 974.8  |
| 35°   | 899.7  | 911.4  | 928.9  | 945.7  | 945.0  |
| 37.5° | 863.3  | 877.1  | 895.4  | 913.6  | 914.3  |
| 40°   | 827.6  | 840.7  | 861.1  | 880.8  | 881.5  |
| 42.5° | 789.6  | 803.5  | 825.4  | 845.8  | 846.5  |
| 45°   | 749.5  | 765.6  | 787.5  | 809.3  | 813.0  |
| 47.5° | 708.7  | 725.5  | 748.1  | 771.4  | 775.8  |
| 50°   | 666.4  | 683.9  | 708.0  | 732.8  | 737.2  |
| 52.5° | 623.4  | 641.6  | 666.4  | 691.2  | 697.8  |
| 55°   | 581.1  | 597.9  | 624.9  | 651.8  | 657.7  |
| 57.5° | 536.6  | 552.0  | 581.1  | 609.6  | 616.8  |
| 60°   | 487.8  | 506.7  | 536.6  | 565.1  | 576.7  |
| 62.5° | 440.4  | 460.8  | 491.4  | 519.9  | 533.0  |
| 65°   | 393.0  | 413.4  | 444.8  | 474.7  | 487.8  |
| 67.5° | 344.9  | 366.0  | 399.6  | 428.0  | 442.6  |
| 70°   | 296.8  | 317.9  | 350.0  | 380.6  | 395.9  |
| 72.5° | 248.6  | 271.2  | 302.6  | 333.9  | 349.3  |
| 75°   | 199.8  | 223.1  | 255.2  | 285.8  | 304.8  |
| 77.5° | 153.8  | 176.4  | 208.5  | 239.9  | 255.9  |
| 80°   | 110.1  | 132.7  | 164.1  | 195.4  | 212.2  |
| 82.5° | 70.0   | 91.1   | 121.8  | 148.0  | 163.3  |
| 85°   | 36.5   | 54.0   | 77.3   | 86.0   | 96.2   |
| 87.5° | 10.9   | 21.1   | 29.9   | 33.5   | 41.6   |
| 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 | 16.06            | 17.72 | 16.42 | 18.03 | 18.35 | 16.80          | 18.46 | 17.17 | 18.78 | 19.09 |
|                 | 3H   | 17.82            | 19.33 | 18.19 | 19.65 | 20.01 | 18.90          | 20.41 | 19.27 | 20.73 | 21.09 |
|                 | 4H   | 18.44            | 19.87 | 18.84 | 20.21 | 20.59 | 19.78          | 21.20 | 20.18 | 21.55 | 21.93 |
|                 | 6H   | 18.86            | 20.18 | 19.27 | 20.54 | 20.93 | 20.55          | 21.87 | 20.96 | 22.23 | 22.62 |
|                 | 8H   | 18.96            | 20.22 | 19.39 | 20.61 | 21.01 | 20.86          | 22.12 | 21.28 | 22.51 | 22.91 |
|                 | 12H  | 19.01            | 20.22 | 19.44 | 20.61 | 21.03 | 21.07          | 22.28 | 21.50 | 22.67 | 23.09 |
| 4H              | 2H   | 16.83            | 18.25 | 17.22 | 18.60 | 18.97 | 17.41          | 18.83 | 17.80 | 19.18 | 19.55 |
|                 | 3H   | 18.82            | 20.02 | 19.23 | 20.41 | 20.81 | 19.73          | 20.93 | 20.14 | 21.33 | 21.73 |
|                 | 4H   | 19.57            | 20.66 | 20.00 | 21.07 | 21.51 | 20.77          | 21.86 | 21.20 | 22.27 | 22.70 |
|                 | 6H   | 20.11            | 21.06 | 20.56 | 21.50 | 21.96 | 21.70          | 22.65 | 22.15 | 23.09 | 23.55 |
|                 | 8H   | 20.26            | 21.15 | 20.72 | 21.59 | 22.05 | 22.08          | 22.98 | 22.54 | 23.42 | 23.88 |
|                 | 12H  | 20.34            | 21.15 | 20.82 | 21.62 | 22.09 | 22.36          | 23.16 | 22.84 | 23.64 | 24.10 |
| 8H              | 4H   | 20.03            | 20.92 | 20.48 | 21.36 | 21.82 | 21.07          | 21.96 | 21.53 | 22.40 | 22.87 |
|                 | 6H   | 20.70            | 21.45 | 21.19 | 21.93 | 22.41 | 22.15          | 22.90 | 22.64 | 23.38 | 23.86 |
|                 | 8H   | 20.92            | 21.59 | 21.43 | 22.10 | 22.58 | 22.64          | 23.31 | 23.15 | 23.81 | 24.30 |
|                 | 12H  | 21.07            | 21.66 | 21.58 | 22.15 | 22.71 | 23.02          | 23.61 | 23.52 | 24.10 | 24.66 |
| 12H             | 4H   | 20.11            | 20.91 | 20.59 | 21.39 | 21.86 | 21.10          | 21.90 | 21.58 | 22.37 | 22.84 |
|                 | 6H   | 20.83            | 21.50 | 21.34 | 22.01 | 22.49 | 22.21          | 22.88 | 22.71 | 23.38 | 23.86 |
|                 | 8H   | 21.12            | 21.71 | 21.63 | 22.20 | 22.76 | 22.76          | 23.35 | 23.26 | 23.84 | 24.40 |