

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: P1587613

Luminaire Tested: 22CZSP-SB-33HE-L830

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1587613  
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-L830  
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 3000 lumens, 80CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

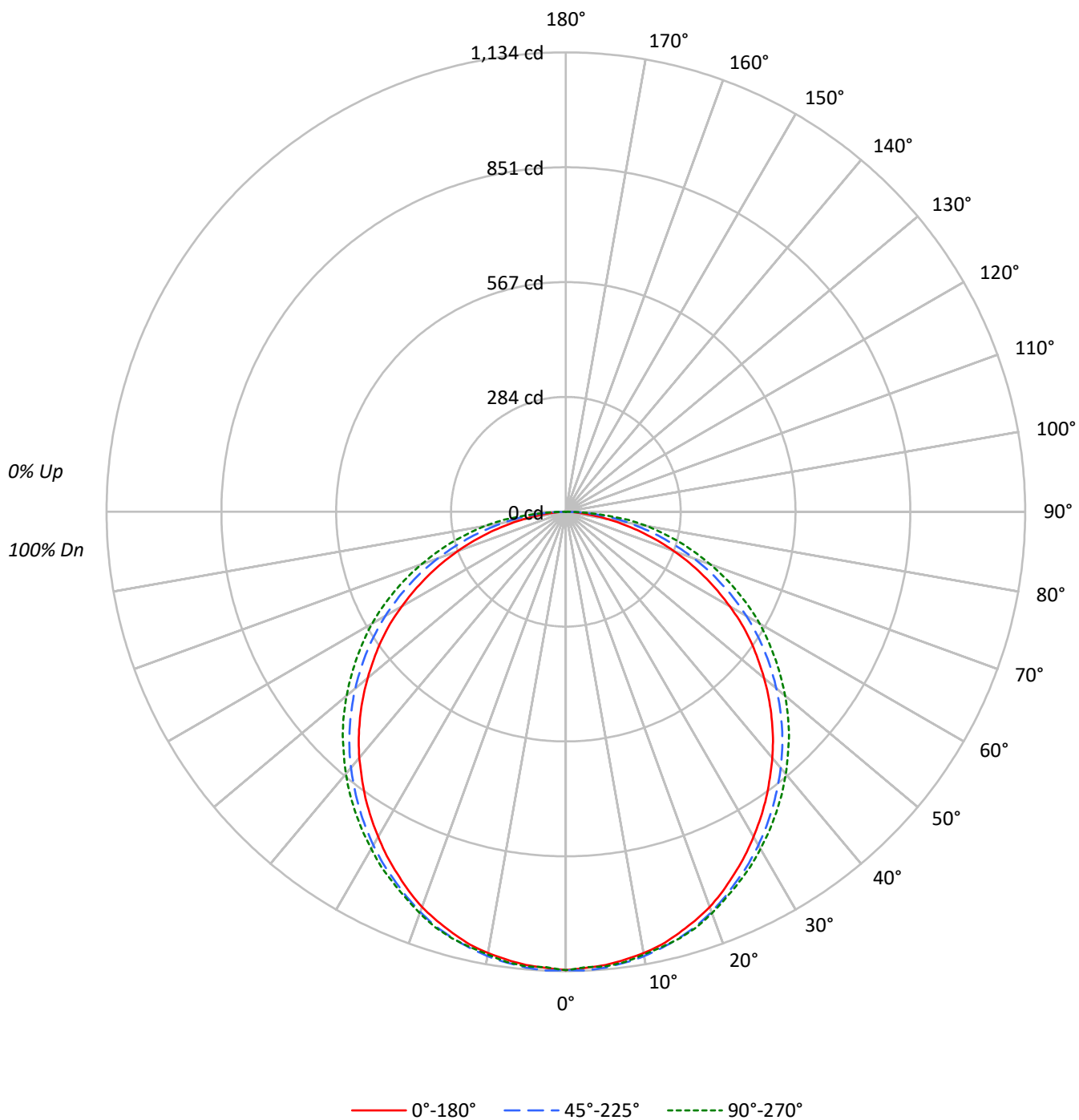
Lumens per Lamp: N/A  
Luminaire Lumens: 3302.0 lumens  
Efficiency: N/A  
Efficacy: 152.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

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°  | 3543 | 3543 | 3543 |
| 5°  | 3530 | 3550 | 3541 |
| 10° | 3518 | 3542 | 3529 |
| 15° | 3491 | 3527 | 3532 |
| 20° | 3461 | 3503 | 3514 |
| 25° | 3405 | 3465 | 3489 |
| 30° | 3351 | 3437 | 3474 |
| 35° | 3297 | 3404 | 3462 |
| 40° | 3242 | 3374 | 3454 |
| 45° | 3181 | 3343 | 3451 |
| 50° | 3112 | 3306 | 3442 |
| 55° | 3041 | 3270 | 3442 |
| 60° | 2928 | 3222 | 3462 |
| 65° | 2791 | 3159 | 3464 |
| 70° | 2604 | 3072 | 3474 |
| 75° | 2317 | 2959 | 3534 |
| 80° | 1902 | 2835 | 3668 |
| 85° | 1254 | 2662 | 3316 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 3754 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 107.0  | 3.2       |
| 10°-20°   | 306.4  | 9.3       |
| 20°-30°   | 461.8  | 14.0      |
| 30°-40°   | 556.1  | 16.8      |
| 40°-50°   | 580.9  | 17.6      |
| 50°-60°   | 533.7  | 16.2      |
| 60°-70°   | 420.3  | 12.7      |
| 70°-80°   | 257.7  | 7.8       |
| 80°-90°   | 78.1   | 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°    | 875.1  | 26.5      |
| 0°-40°    | 1431.2 | 43.3      |
| 0°-60°    | 2545.9 | 77.1      |
| 0°-90°    | 3302.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3302.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1132 | 1132  | 1132 | 1132  | 1132 |      |
| 5°  | 1123 | 1125  | 1129 | 1128  | 1127 | 107  |
| 15° | 1077 | 1081  | 1088 | 1092  | 1090 | 304  |
| 25° | 985  | 992   | 1003 | 1013  | 1010 | 454  |
| 35° | 862  | 874   | 890  | 906   | 906  | 539  |
| 45° | 718  | 734   | 755  | 776   | 779  | 554  |
| 55° | 557  | 573   | 599  | 625   | 630  | 497  |
| 65° | 377  | 396   | 426  | 455   | 468  | 372  |
| 75° | 192  | 214   | 245  | 274   | 292  | 204  |
| 85° | 35   | 52    | 74   | 82    | 92   | 45   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1131.5 | 1131.5 | 1131.5 | 1131.5 | 1131.5 |
| 2.5°  | 1127.3 | 1130.1 | 1133.6 | 1128.0 | 1125.2 |
| 5°    | 1123.1 | 1125.2 | 1129.4 | 1128.0 | 1126.6 |
| 7.5°  | 1115.4 | 1116.8 | 1122.4 | 1122.4 | 1121.0 |
| 10°   | 1106.3 | 1109.1 | 1114.0 | 1113.3 | 1109.8 |
| 12.5° | 1094.4 | 1096.5 | 1102.1 | 1102.1 | 1100.0 |
| 15°   | 1077.0 | 1081.1 | 1088.1 | 1092.3 | 1089.5 |
| 17.5° | 1058.8 | 1063.0 | 1072.1 | 1076.3 | 1074.9 |
| 20°   | 1038.5 | 1042.0 | 1051.1 | 1057.4 | 1054.6 |
| 22.5° | 1013.4 | 1017.5 | 1028.0 | 1035.0 | 1032.2 |
| 25°   | 985.4  | 991.7  | 1002.9 | 1013.4 | 1009.9 |
| 27.5° | 957.4  | 964.4  | 978.4  | 988.9  | 987.5  |
| 30°   | 926.7  | 935.8  | 950.5  | 963.7  | 960.9  |
| 32.5° | 895.2  | 905.7  | 921.1  | 935.1  | 934.4  |
| 35°   | 862.4  | 873.6  | 890.4  | 906.4  | 905.7  |
| 37.5° | 827.5  | 840.7  | 858.2  | 875.7  | 876.4  |
| 40°   | 793.2  | 805.8  | 825.4  | 844.2  | 844.9  |
| 42.5° | 756.9  | 770.1  | 791.1  | 810.7  | 811.4  |
| 45°   | 718.4  | 733.8  | 754.8  | 775.7  | 779.2  |
| 47.5° | 679.3  | 695.4  | 717.0  | 739.4  | 743.6  |
| 50°   | 638.8  | 655.5  | 678.6  | 702.4  | 706.6  |
| 52.5° | 597.5  | 615.0  | 638.8  | 662.5  | 668.8  |
| 55°   | 557.0  | 573.1  | 598.9  | 624.8  | 630.4  |
| 57.5° | 514.4  | 529.0  | 557.0  | 584.3  | 591.2  |
| 60°   | 467.5  | 485.7  | 514.4  | 541.6  | 552.8  |
| 62.5° | 422.1  | 441.7  | 471.0  | 498.3  | 510.9  |
| 65°   | 376.7  | 396.3  | 426.3  | 455.0  | 467.5  |
| 67.5° | 330.6  | 350.8  | 383.0  | 410.2  | 424.2  |
| 70°   | 284.4  | 304.7  | 335.5  | 364.8  | 379.5  |
| 72.5° | 238.3  | 260.0  | 290.0  | 320.1  | 334.8  |
| 75°   | 191.5  | 213.9  | 244.6  | 274.0  | 292.1  |
| 77.5° | 147.5  | 169.1  | 199.9  | 229.9  | 245.3  |
| 80°   | 105.5  | 127.2  | 157.2  | 187.3  | 203.4  |
| 82.5° | 67.1   | 87.4   | 116.7  | 141.9  | 156.5  |
| 85°   | 34.9   | 51.7   | 74.1   | 82.5   | 92.3   |
| 87.5° | 10.5   | 20.3   | 28.7   | 32.1   | 39.8   |
| 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 | 15.91            | 17.57 | 16.27 | 17.88 | 18.20 | 16.65          | 18.32 | 17.02 | 18.63 | 18.95 |
|                 | 3H   | 17.67            | 19.18 | 18.05 | 19.50 | 19.86 | 18.75          | 20.26 | 19.13 | 20.58 | 20.94 |
|                 | 4H   | 18.30            | 19.72 | 18.69 | 20.07 | 20.44 | 19.63          | 21.06 | 20.03 | 21.40 | 21.78 |
|                 | 6H   | 18.71            | 20.03 | 19.12 | 20.39 | 20.78 | 20.40          | 21.72 | 20.81 | 22.09 | 22.48 |
|                 | 8H   | 18.81            | 20.08 | 19.24 | 20.47 | 20.86 | 20.71          | 21.98 | 21.14 | 22.36 | 22.76 |
|                 | 12H  | 18.87            | 20.08 | 19.29 | 20.46 | 20.89 | 20.93          | 22.14 | 21.35 | 22.52 | 22.95 |
| 4H              | 2H   | 16.68            | 18.10 | 17.08 | 18.45 | 18.82 | 17.26          | 18.68 | 17.66 | 19.03 | 19.40 |
|                 | 3H   | 18.67            | 19.87 | 19.08 | 20.27 | 20.67 | 19.59          | 20.79 | 20.00 | 21.18 | 21.58 |
|                 | 4H   | 19.43            | 20.51 | 19.86 | 20.92 | 21.36 | 20.62          | 21.71 | 21.05 | 22.12 | 22.56 |
|                 | 6H   | 19.96            | 20.91 | 20.41 | 21.35 | 21.81 | 21.55          | 22.50 | 22.00 | 22.94 | 23.40 |
|                 | 8H   | 20.11            | 21.00 | 20.57 | 21.44 | 21.91 | 21.94          | 22.83 | 22.39 | 23.27 | 23.73 |
|                 | 12H  | 20.20            | 21.00 | 20.67 | 21.47 | 21.94 | 22.21          | 23.02 | 22.69 | 23.49 | 23.96 |
| 8H              | 4H   | 19.88            | 20.77 | 20.34 | 21.21 | 21.68 | 20.92          | 21.81 | 21.38 | 22.26 | 22.72 |
|                 | 6H   | 20.56            | 21.30 | 21.05 | 21.79 | 22.26 | 22.01          | 22.75 | 22.50 | 23.24 | 23.71 |
|                 | 8H   | 20.78            | 21.44 | 21.28 | 21.95 | 22.43 | 22.49          | 23.16 | 23.00 | 23.67 | 24.15 |
|                 | 12H  | 20.92            | 21.52 | 21.43 | 22.01 | 22.56 | 22.87          | 23.46 | 23.37 | 23.95 | 24.51 |
| 12H             | 4H   | 19.96            | 20.77 | 20.44 | 21.24 | 21.71 | 20.95          | 21.75 | 21.43 | 22.23 | 22.70 |
|                 | 6H   | 20.68            | 21.35 | 21.19 | 21.86 | 22.34 | 22.06          | 22.73 | 22.56 | 23.23 | 23.72 |
|                 | 8H   | 20.97            | 21.57 | 21.48 | 22.06 | 22.61 | 22.61          | 23.20 | 23.12 | 23.69 | 24.25 |