

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: P1587655

Luminaire Tested: 22CZSP-SB-37HE-L835

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1587655  
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-37HE-L835  
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 3500 lumens, 80CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

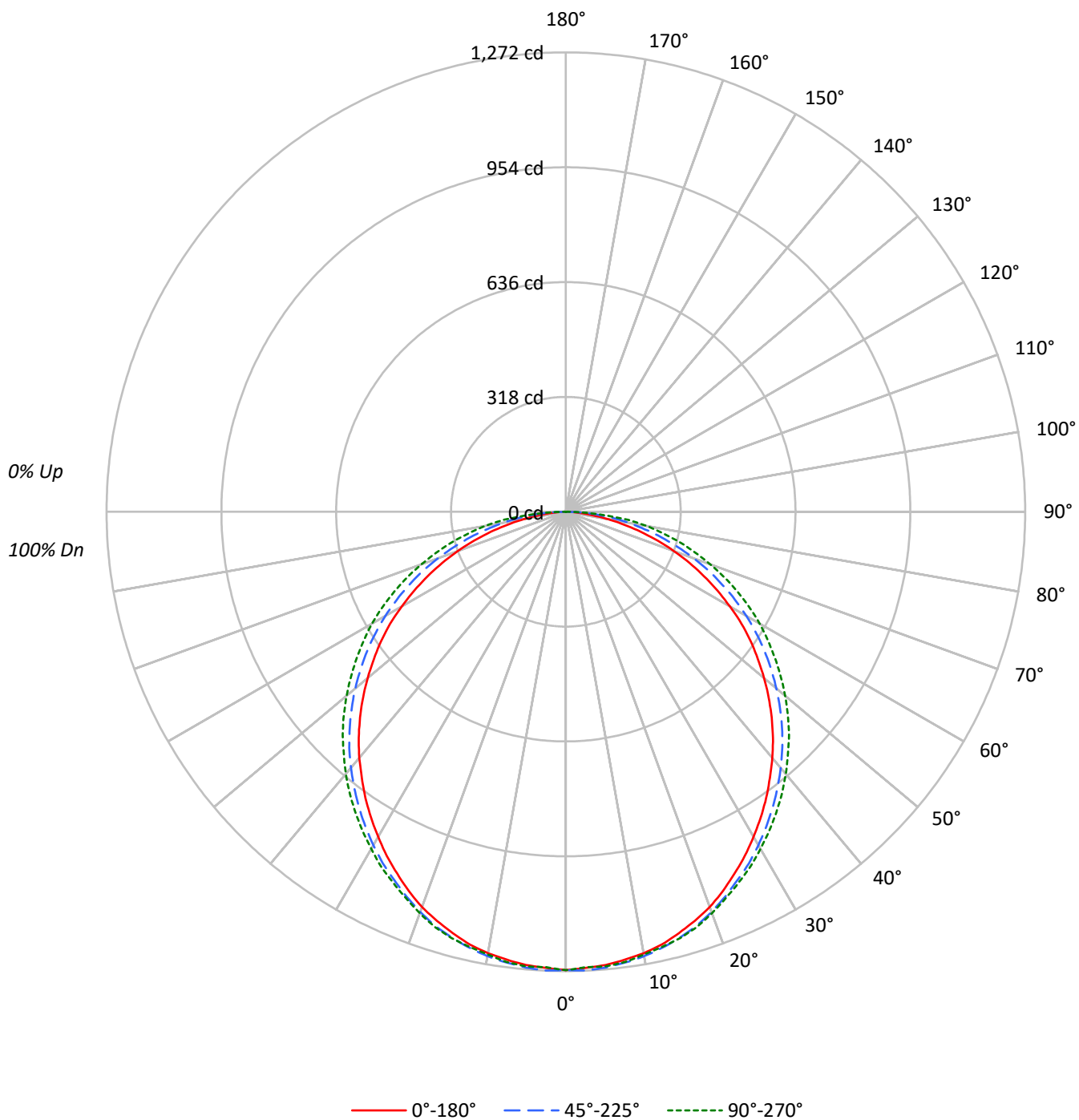
Lumens per Lamp: N/A  
Luminaire Lumens: 3704.0 lumens  
Efficiency: N/A  
Efficacy: 153.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 24.1  
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 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 |
| 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°  | 3974 | 3974 | 3974 |
| 5°  | 3960 | 3982 | 3972 |
| 10° | 3946 | 3973 | 3958 |
| 15° | 3916 | 3957 | 3962 |
| 20° | 3882 | 3929 | 3942 |
| 25° | 3819 | 3887 | 3914 |
| 30° | 3759 | 3855 | 3897 |
| 35° | 3698 | 3818 | 3884 |
| 40° | 3637 | 3784 | 3874 |
| 45° | 3569 | 3749 | 3871 |
| 50° | 3490 | 3708 | 3861 |
| 55° | 3411 | 3668 | 3860 |
| 60° | 3285 | 3614 | 3883 |
| 65° | 3130 | 3543 | 3886 |
| 70° | 2921 | 3445 | 3897 |
| 75° | 2599 | 3320 | 3965 |
| 80° | 2135 | 3181 | 4113 |
| 85° | 1408 | 2986 | 3719 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4213 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 120.1  | 3.2       |
| 10°-20°   | 343.7  | 9.3       |
| 20°-30°   | 518.0  | 14.0      |
| 30°-40°   | 623.8  | 16.8      |
| 40°-50°   | 651.7  | 17.6      |
| 50°-60°   | 598.7  | 16.2      |
| 60°-70°   | 471.5  | 12.7      |
| 70°-80°   | 289.0  | 7.8       |
| 80°-90°   | 87.6   | 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°    | 981.7  | 26.5      |
| 0°-40°    | 1605.5 | 43.3      |
| 0°-60°    | 2855.8 | 77.1      |
| 0°-90°    | 3704.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3704.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1269 | 1269  | 1269 | 1269  | 1269 |      |
| 5°  | 1260 | 1262  | 1267 | 1265  | 1264 | 120  |
| 15° | 1208 | 1213  | 1221 | 1225  | 1222 | 341  |
| 25° | 1105 | 1112  | 1125 | 1137  | 1133 | 510  |
| 35° | 967  | 980   | 999  | 1017  | 1016 | 605  |
| 45° | 806  | 823   | 847  | 870   | 874  | 622  |
| 55° | 625  | 643   | 672  | 701   | 707  | 557  |
| 65° | 422  | 444   | 478  | 510   | 524  | 418  |
| 75° | 215  | 240   | 274  | 307   | 328  | 228  |
| 85° | 39   | 58    | 83   | 92    | 104  | 50   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1269.2 | 1269.2 | 1269.2 | 1269.2 | 1269.2 |
| 2.5°  | 1264.5 | 1267.6 | 1271.6 | 1265.3 | 1262.2 |
| 5°    | 1259.8 | 1262.2 | 1266.9 | 1265.3 | 1263.7 |
| 7.5°  | 1251.2 | 1252.7 | 1259.0 | 1259.0 | 1257.5 |
| 10°   | 1241.0 | 1244.1 | 1249.6 | 1248.8 | 1244.9 |
| 12.5° | 1227.7 | 1230.0 | 1236.3 | 1236.3 | 1233.9 |
| 15°   | 1208.1 | 1212.8 | 1220.6 | 1225.3 | 1222.2 |
| 17.5° | 1187.7 | 1192.4 | 1202.6 | 1207.3 | 1205.7 |
| 20°   | 1164.9 | 1168.9 | 1179.1 | 1186.1 | 1183.0 |
| 22.5° | 1136.7 | 1141.4 | 1153.2 | 1161.0 | 1157.9 |
| 25°   | 1105.4 | 1112.4 | 1125.0 | 1136.7 | 1132.8 |
| 27.5° | 1074.0 | 1081.8 | 1097.5 | 1109.3 | 1107.7 |
| 30°   | 1039.5 | 1049.7 | 1066.2 | 1081.1 | 1077.9 |
| 32.5° | 1004.2 | 1016.0 | 1033.2 | 1048.9 | 1048.1 |
| 35°   | 967.4  | 979.9  | 998.8  | 1016.8 | 1016.0 |
| 37.5° | 928.2  | 943.1  | 962.7  | 982.3  | 983.1  |
| 40°   | 889.8  | 903.9  | 925.8  | 947.0  | 947.8  |
| 42.5° | 849.0  | 863.9  | 887.4  | 909.4  | 910.2  |
| 45°   | 805.9  | 823.1  | 846.7  | 870.2  | 874.1  |
| 47.5° | 762.0  | 780.0  | 804.3  | 829.4  | 834.1  |
| 50°   | 716.5  | 735.3  | 761.2  | 787.9  | 792.6  |
| 52.5° | 670.3  | 689.9  | 716.5  | 743.2  | 750.2  |
| 55°   | 624.8  | 642.8  | 671.8  | 700.8  | 707.1  |
| 57.5° | 577.0  | 593.4  | 624.8  | 655.4  | 663.2  |
| 60°   | 524.5  | 544.8  | 577.0  | 607.6  | 620.1  |
| 62.5° | 473.5  | 495.5  | 528.4  | 559.0  | 573.1  |
| 65°   | 422.5  | 444.5  | 478.2  | 510.4  | 524.5  |
| 67.5° | 370.8  | 393.5  | 429.6  | 460.2  | 475.9  |
| 70°   | 319.1  | 341.8  | 376.3  | 409.2  | 425.7  |
| 72.5° | 267.3  | 291.6  | 325.3  | 359.0  | 375.5  |
| 75°   | 214.8  | 239.9  | 274.4  | 307.3  | 327.7  |
| 77.5° | 165.4  | 189.7  | 224.2  | 257.9  | 275.2  |
| 80°   | 118.4  | 142.7  | 176.4  | 210.1  | 228.1  |
| 82.5° | 75.3   | 98.0   | 130.9  | 159.1  | 175.6  |
| 85°   | 39.2   | 58.0   | 83.1   | 92.5   | 103.5  |
| 87.5° | 11.8   | 22.7   | 32.1   | 36.1   | 44.7   |
| 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 | 16.31            | 17.97 | 16.67 | 18.28 | 18.60 | 17.05          | 18.72 | 17.42 | 19.03 | 19.34 |
|                 | 3H   | 18.07            | 19.58 | 18.45 | 19.90 | 20.26 | 19.15          | 20.66 | 19.53 | 20.98 | 21.34 |
|                 | 4H   | 18.69            | 20.12 | 19.09 | 20.46 | 20.84 | 20.03          | 21.46 | 20.43 | 21.80 | 22.18 |
|                 | 6H   | 19.11            | 20.43 | 19.52 | 20.79 | 21.18 | 20.80          | 22.12 | 21.21 | 22.49 | 22.88 |
|                 | 8H   | 19.21            | 20.48 | 19.64 | 20.86 | 21.26 | 21.11          | 22.38 | 21.54 | 22.76 | 23.16 |
|                 | 12H  | 19.26            | 20.48 | 19.69 | 20.86 | 21.29 | 21.33          | 22.54 | 21.75 | 22.92 | 23.35 |
| 4H              | 2H   | 17.08            | 18.50 | 17.48 | 18.85 | 19.22 | 17.66          | 19.08 | 18.06 | 19.43 | 19.80 |
|                 | 3H   | 19.07            | 20.27 | 19.48 | 20.67 | 21.06 | 19.99          | 21.18 | 20.39 | 21.58 | 21.98 |
|                 | 4H   | 19.82            | 20.91 | 20.26 | 21.32 | 21.76 | 21.02          | 22.11 | 21.45 | 22.52 | 22.95 |
|                 | 6H   | 20.36            | 21.31 | 20.81 | 21.75 | 22.21 | 21.95          | 22.90 | 22.40 | 23.34 | 23.80 |
|                 | 8H   | 20.51            | 21.40 | 20.97 | 21.84 | 22.31 | 22.33          | 23.23 | 22.79 | 23.67 | 24.13 |
|                 | 12H  | 20.59            | 21.40 | 21.07 | 21.87 | 22.34 | 22.61          | 23.41 | 23.09 | 23.89 | 24.36 |
| 8H              | 4H   | 20.28            | 21.17 | 20.74 | 21.61 | 22.07 | 21.32          | 22.21 | 21.78 | 22.65 | 23.12 |
|                 | 6H   | 20.95            | 21.70 | 21.45 | 22.19 | 22.66 | 22.40          | 23.15 | 22.90 | 23.64 | 24.11 |
|                 | 8H   | 21.18            | 21.84 | 21.68 | 22.35 | 22.83 | 22.89          | 23.56 | 23.40 | 24.07 | 24.55 |
|                 | 12H  | 21.32            | 21.91 | 21.83 | 22.40 | 22.96 | 23.27          | 23.86 | 23.77 | 24.35 | 24.91 |
| 12H             | 4H   | 20.36            | 21.16 | 20.84 | 21.64 | 22.11 | 21.35          | 22.15 | 21.83 | 22.63 | 23.09 |
|                 | 6H   | 21.08            | 21.75 | 21.59 | 22.26 | 22.74 | 22.46          | 23.13 | 22.96 | 23.63 | 24.12 |
|                 | 8H   | 21.37            | 21.97 | 21.88 | 22.46 | 23.01 | 23.01          | 23.60 | 23.52 | 24.09 | 24.65 |