

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: P1587703

Luminaire Tested: 22CZSP-SB-43HE-L930

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1587703  
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-43HE-L930  
Description: 2x2 CZSP LED Luminaire, 3000K CCT and 4000 lumens, 90CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

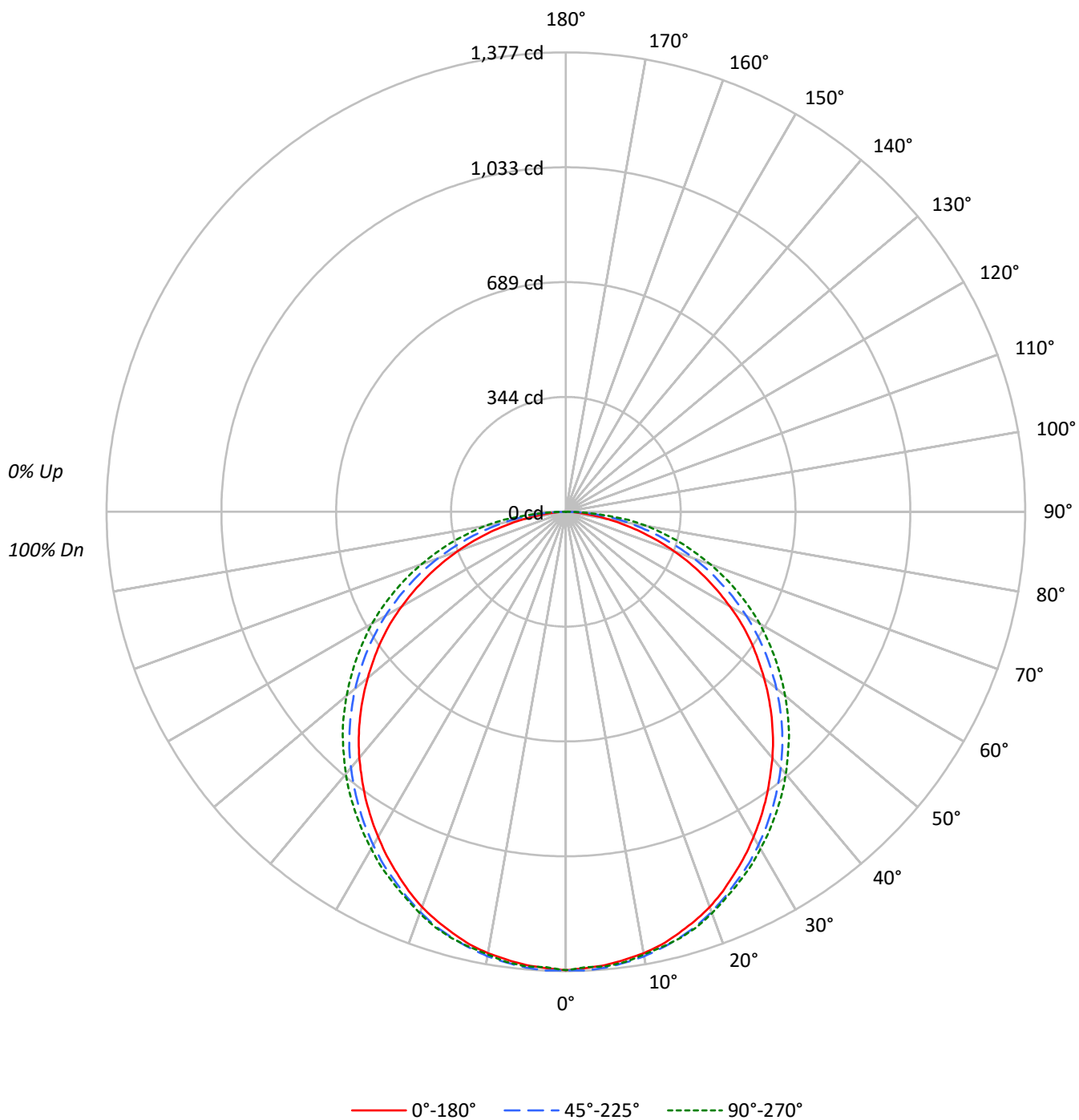
Lumens per Lamp: N/A  
Luminaire Lumens: 4010.0 lumens  
Efficiency: N/A  
Efficacy: 142.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.2  
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   | 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°  | 4303 | 4303 | 4303 |
| 5°  | 4287 | 4311 | 4300 |
| 10° | 4272 | 4301 | 4286 |
| 15° | 4240 | 4284 | 4289 |
| 20° | 4203 | 4254 | 4268 |
| 25° | 4135 | 4208 | 4237 |
| 30° | 4069 | 4173 | 4220 |
| 35° | 4003 | 4133 | 4205 |
| 40° | 3938 | 4097 | 4194 |
| 45° | 3864 | 4059 | 4191 |
| 50° | 3779 | 4015 | 4180 |
| 55° | 3693 | 3971 | 4179 |
| 60° | 3556 | 3912 | 4204 |
| 65° | 3390 | 3836 | 4207 |
| 70° | 3162 | 3730 | 4220 |
| 75° | 2813 | 3593 | 4293 |
| 80° | 2312 | 3444 | 4454 |
| 85° | 1523 | 3234 | 4024 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4561 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 130.0  | 3.2       |
| 10°-20°   | 372.0  | 9.3       |
| 20°-30°   | 560.8  | 14.0      |
| 30°-40°   | 675.3  | 16.8      |
| 40°-50°   | 705.5  | 17.6      |
| 50°-60°   | 648.2  | 16.2      |
| 60°-70°   | 510.4  | 12.7      |
| 70°-80°   | 312.9  | 7.8       |
| 80°-90°   | 94.9   | 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°    | 1062.8 | 26.5      |
| 0°-40°    | 1738.1 | 43.3      |
| 0°-60°    | 3091.7 | 77.1      |
| 0°-90°    | 4010.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4010.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1374 | 1374  | 1374 | 1374  | 1374 |      |
| 5°  | 1364 | 1366  | 1372 | 1370  | 1368 | 130  |
| 15° | 1308 | 1313  | 1321 | 1326  | 1323 | 369  |
| 25° | 1197 | 1204  | 1218 | 1231  | 1226 | 552  |
| 35° | 1047 | 1061  | 1081 | 1101  | 1100 | 655  |
| 45° | 872  | 891   | 917  | 942   | 946  | 673  |
| 55° | 676  | 696   | 727  | 759   | 766  | 603  |
| 65° | 458  | 481   | 518  | 552   | 568  | 452  |
| 75° | 232  | 260   | 297  | 333   | 355  | 247  |
| 85° | 42   | 63    | 90   | 100   | 112  | 55   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1374.1 | 1374.1 | 1374.1 | 1374.1 | 1374.1 |
| 2.5°  | 1369.0 | 1372.4 | 1376.6 | 1369.8 | 1366.4 |
| 5°    | 1363.9 | 1366.4 | 1371.5 | 1369.8 | 1368.1 |
| 7.5°  | 1354.5 | 1356.2 | 1363.0 | 1363.0 | 1361.3 |
| 10°   | 1343.5 | 1346.9 | 1352.8 | 1352.0 | 1347.8 |
| 12.5° | 1329.1 | 1331.6 | 1338.4 | 1338.4 | 1335.9 |
| 15°   | 1307.9 | 1313.0 | 1321.4 | 1326.5 | 1323.1 |
| 17.5° | 1285.8 | 1290.9 | 1301.9 | 1307.0 | 1305.3 |
| 20°   | 1261.2 | 1265.4 | 1276.5 | 1284.1 | 1280.7 |
| 22.5° | 1230.6 | 1235.7 | 1248.5 | 1256.9 | 1253.5 |
| 25°   | 1196.7 | 1204.3 | 1217.9 | 1230.6 | 1226.4 |
| 27.5° | 1162.7 | 1171.2 | 1188.2 | 1200.9 | 1199.2 |
| 30°   | 1125.4 | 1136.4 | 1154.2 | 1170.4 | 1167.0 |
| 32.5° | 1087.2 | 1099.9 | 1118.6 | 1135.6 | 1134.7 |
| 35°   | 1047.3 | 1060.9 | 1081.3 | 1100.8 | 1099.9 |
| 37.5° | 1004.9 | 1021.0 | 1042.2 | 1063.4 | 1064.3 |
| 40°   | 963.3  | 978.6  | 1002.3 | 1025.2 | 1026.1 |
| 42.5° | 919.2  | 935.3  | 960.7  | 984.5  | 985.4  |
| 45°   | 872.5  | 891.1  | 916.6  | 942.1  | 946.3  |
| 47.5° | 824.9  | 844.5  | 870.8  | 897.9  | 903.0  |
| 50°   | 775.7  | 796.1  | 824.1  | 853.0  | 858.0  |
| 52.5° | 725.6  | 746.9  | 775.7  | 804.6  | 812.2  |
| 55°   | 676.4  | 695.9  | 727.3  | 758.7  | 765.5  |
| 57.5° | 624.7  | 642.5  | 676.4  | 709.5  | 718.0  |
| 60°   | 567.8  | 589.9  | 624.7  | 657.8  | 671.3  |
| 62.5° | 512.6  | 536.4  | 572.0  | 605.1  | 620.4  |
| 65°   | 457.5  | 481.2  | 517.7  | 552.5  | 567.8  |
| 67.5° | 401.4  | 426.1  | 465.1  | 498.2  | 515.2  |
| 70°   | 345.4  | 370.0  | 407.4  | 443.0  | 460.9  |
| 72.5° | 289.4  | 315.7  | 352.2  | 388.7  | 406.5  |
| 75°   | 232.5  | 259.7  | 297.0  | 332.7  | 354.8  |
| 77.5° | 179.1  | 205.4  | 242.7  | 279.2  | 297.9  |
| 80°   | 128.2  | 154.5  | 191.0  | 227.5  | 247.0  |
| 82.5° | 81.5   | 106.1  | 141.7  | 172.3  | 190.1  |
| 85°   | 42.4   | 62.8   | 90.0   | 100.1  | 112.0  |
| 87.5° | 12.7   | 24.6   | 34.8   | 39.0   | 48.4   |
| 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 | 16.58            | 18.25 | 16.95 | 18.56 | 18.87 | 17.33          | 18.99 | 17.69 | 19.31 | 19.62 |
|                 | 3H   | 18.35            | 19.85 | 18.72 | 20.18 | 20.54 | 19.43          | 20.93 | 19.80 | 21.26 | 21.62 |
|                 | 4H   | 18.97            | 20.39 | 19.37 | 20.74 | 21.11 | 20.31          | 21.73 | 20.71 | 22.08 | 22.45 |
|                 | 6H   | 19.38            | 20.70 | 19.79 | 21.07 | 21.46 | 21.08          | 22.40 | 21.49 | 22.76 | 23.15 |
|                 | 8H   | 19.49            | 20.75 | 19.91 | 21.14 | 21.54 | 21.39          | 22.65 | 21.81 | 23.04 | 23.44 |
|                 | 12H  | 19.54            | 20.75 | 19.97 | 21.13 | 21.56 | 21.60          | 22.81 | 22.03 | 23.19 | 23.62 |
| 4H              | 2H   | 17.35            | 18.78 | 17.75 | 19.12 | 19.50 | 17.93          | 19.36 | 18.33 | 19.70 | 20.08 |
|                 | 3H   | 19.35            | 20.55 | 19.76 | 20.94 | 21.34 | 20.26          | 21.46 | 20.67 | 21.86 | 22.26 |
|                 | 4H   | 20.10            | 21.19 | 20.53 | 21.60 | 22.03 | 21.30          | 22.38 | 21.73 | 22.80 | 23.23 |
|                 | 6H   | 20.64            | 21.59 | 21.09 | 22.03 | 22.48 | 22.23          | 23.18 | 22.68 | 23.62 | 24.07 |
|                 | 8H   | 20.78            | 21.68 | 21.24 | 22.12 | 22.58 | 22.61          | 23.50 | 23.07 | 23.94 | 24.41 |
|                 | 12H  | 20.87            | 21.67 | 21.35 | 22.15 | 22.62 | 22.89          | 23.69 | 23.37 | 24.16 | 24.63 |
| 8H              | 4H   | 20.55            | 21.44 | 21.01 | 21.89 | 22.35 | 21.60          | 22.49 | 22.05 | 22.93 | 23.39 |
|                 | 6H   | 21.23            | 21.98 | 21.72 | 22.46 | 22.94 | 22.68          | 23.43 | 23.17 | 23.91 | 24.39 |
|                 | 8H   | 21.45            | 22.12 | 21.96 | 22.62 | 23.11 | 23.17          | 23.84 | 23.68 | 24.34 | 24.83 |
|                 | 12H  | 21.60            | 22.19 | 22.10 | 22.68 | 23.24 | 23.54          | 24.13 | 24.05 | 24.62 | 25.18 |
| 12H             | 4H   | 20.64            | 21.44 | 21.12 | 21.91 | 22.38 | 21.62          | 22.43 | 22.10 | 22.90 | 23.37 |
|                 | 6H   | 21.36            | 22.03 | 21.87 | 22.53 | 23.02 | 22.73          | 23.40 | 23.24 | 23.91 | 24.39 |
|                 | 8H   | 21.65            | 22.24 | 22.15 | 22.73 | 23.29 | 23.29          | 23.88 | 23.79 | 24.37 | 24.93 |