

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: P1587695

Luminaire Tested: 22CZSP-SB-43HE-L835

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1587695  
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-L835  
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Ribbed Lens, SB housing  
Light Source: -  
Ballast/Driver: -

**Summary**

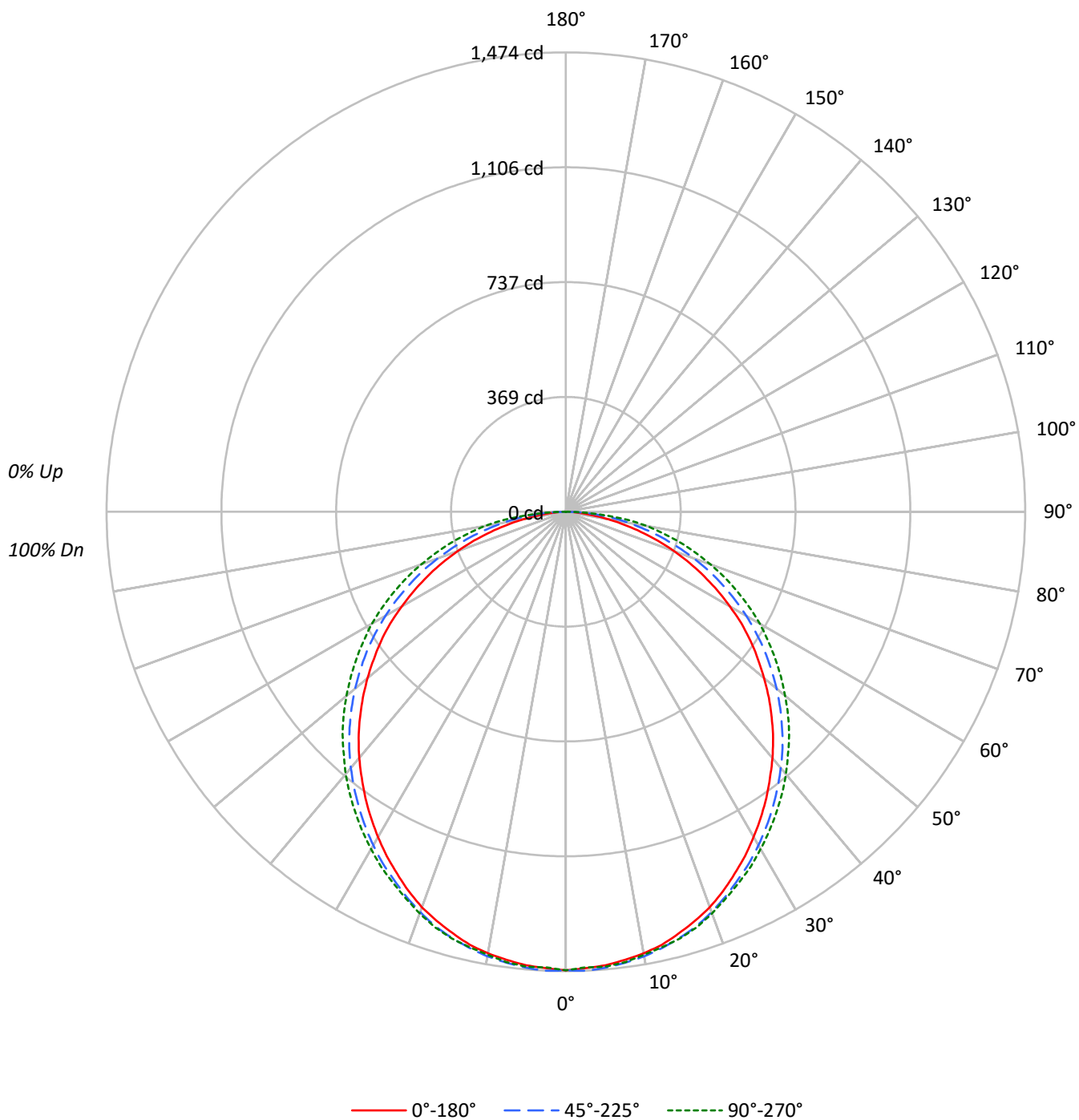
Lumens per Lamp: N/A  
Luminaire Lumens: 4294.0 lumens  
Efficiency: N/A  
Efficacy: 152.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

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  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 93  | 90  |  | 93  | 90  | 88  |  | 89  |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  |  | 81  | 76  | 72  |  | 78  |
| 3   | 89  | 79  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  |  | 71  | 65  | 61  |  | 69  |
| 4   | 82  | 69  | 60  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 52  |  | 63  | 57  | 52  |  | 61  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  |  | 57  | 50  | 45  |  | 55  |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  |  | 51  | 44  | 39  |  | 50  |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  |  | 47  | 40  | 35  |  | 45  |
| 8   | 60  | 46  | 37  | 32  | 58  | 45  | 37  | 31  | 44  | 37  | 31  |  | 43  | 36  | 31  |  | 42  |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 26  | 37  | 30  | 25  |  | 37  | 30  | 25  |  | 36  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4607 | 4607 | 4607 |
| 5°  | 4591 | 4617 | 4605 |
| 10° | 4575 | 4606 | 4589 |
| 15° | 4540 | 4587 | 4593 |
| 20° | 4500 | 4555 | 4570 |
| 25° | 4427 | 4506 | 4537 |
| 30° | 4357 | 4469 | 4518 |
| 35° | 4287 | 4426 | 4502 |
| 40° | 4216 | 4387 | 4492 |
| 45° | 4137 | 4346 | 4487 |
| 50° | 4047 | 4299 | 4476 |
| 55° | 3954 | 4252 | 4476 |
| 60° | 3808 | 4189 | 4502 |
| 65° | 3630 | 4108 | 4505 |
| 70° | 3387 | 3994 | 4518 |
| 75° | 3013 | 3849 | 4596 |
| 80° | 2474 | 3688 | 4770 |
| 85° | 1631 | 3460 | 4311 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4884 cd/sqm

TEST NUMBER: P1587695

CATALOG NUMBER: 22CZSP-SB-43HE-L835

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 139.2  | 3.2       |
| 10°-20°   | 398.4  | 9.3       |
| 20°-30°   | 600.5  | 14.0      |
| 30°-40°   | 723.1  | 16.8      |
| 40°-50°   | 755.5  | 17.6      |
| 50°-60°   | 694.1  | 16.2      |
| 60°-70°   | 546.6  | 12.7      |
| 70°-80°   | 335.1  | 7.8       |
| 80°-90°   | 101.6  | 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°    | 1138.1 | 26.5      |
| 0°-40°    | 1861.2 | 43.3      |
| 0°-60°    | 3310.7 | 77.1      |
| 0°-90°    | 4294.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4294.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1471 | 1471  | 1471 | 1471  | 1471 |      |
| 5°  | 1460 | 1463  | 1469 | 1467  | 1465 | 139  |
| 15° | 1400 | 1406  | 1415 | 1420  | 1417 | 395  |
| 25° | 1281 | 1290  | 1304 | 1318  | 1313 | 591  |
| 35° | 1122 | 1136  | 1158 | 1179  | 1178 | 701  |
| 45° | 934  | 954   | 982  | 1009  | 1013 | 721  |
| 55° | 724  | 745   | 779  | 812   | 820  | 646  |
| 65° | 490  | 515   | 554  | 592   | 608  | 484  |
| 75° | 249  | 278   | 318  | 356   | 380  | 265  |
| 85° | 45   | 67    | 96   | 107   | 120  | 58   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

TEST NUMBER: P1587695

CATALOG NUMBER: 22CZSP-SB-43HE-L835

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1471.4 | 1471.4 | 1471.4 | 1471.4 | 1471.4 |
| 2.5°  | 1465.9 | 1469.6 | 1474.1 | 1466.8 | 1463.2 |
| 5°    | 1460.5 | 1463.2 | 1468.7 | 1466.8 | 1465.0 |
| 7.5°  | 1450.5 | 1452.3 | 1459.6 | 1459.6 | 1457.7 |
| 10°   | 1438.7 | 1442.3 | 1448.7 | 1447.8 | 1443.2 |
| 12.5° | 1423.2 | 1425.9 | 1433.2 | 1433.2 | 1430.5 |
| 15°   | 1400.5 | 1405.9 | 1415.0 | 1420.5 | 1416.9 |
| 17.5° | 1376.9 | 1382.3 | 1394.1 | 1399.6 | 1397.8 |
| 20°   | 1350.5 | 1355.1 | 1366.9 | 1375.0 | 1371.4 |
| 22.5° | 1317.8 | 1323.2 | 1336.9 | 1346.0 | 1342.3 |
| 25°   | 1281.4 | 1289.6 | 1304.2 | 1317.8 | 1313.2 |
| 27.5° | 1245.1 | 1254.2 | 1272.4 | 1286.0 | 1284.2 |
| 30°   | 1205.1 | 1216.9 | 1236.0 | 1253.3 | 1249.6 |
| 32.5° | 1164.2 | 1177.8 | 1197.8 | 1216.0 | 1215.1 |
| 35°   | 1121.5 | 1136.0 | 1157.8 | 1178.7 | 1177.8 |
| 37.5° | 1076.0 | 1093.3 | 1116.0 | 1138.8 | 1139.7 |
| 40°   | 1031.5 | 1047.9 | 1073.3 | 1097.9 | 1098.8 |
| 42.5° | 984.3  | 1001.5 | 1028.8 | 1054.2 | 1055.1 |
| 45°   | 934.3  | 954.3  | 981.5  | 1008.8 | 1013.3 |
| 47.5° | 883.4  | 904.3  | 932.5  | 961.5  | 967.0  |
| 50°   | 830.7  | 852.5  | 882.5  | 913.4  | 918.8  |
| 52.5° | 777.0  | 799.8  | 830.7  | 861.6  | 869.7  |
| 55°   | 724.3  | 745.2  | 778.9  | 812.5  | 819.8  |
| 57.5° | 668.9  | 688.0  | 724.3  | 759.8  | 768.9  |
| 60°   | 608.0  | 631.6  | 668.9  | 704.3  | 718.9  |
| 62.5° | 548.9  | 574.4  | 612.5  | 648.0  | 664.3  |
| 65°   | 489.9  | 515.3  | 554.4  | 591.6  | 608.0  |
| 67.5° | 429.9  | 456.2  | 498.0  | 533.5  | 551.7  |
| 70°   | 369.9  | 396.2  | 436.2  | 474.4  | 493.5  |
| 72.5° | 309.9  | 338.1  | 377.2  | 416.2  | 435.3  |
| 75°   | 249.0  | 278.1  | 318.1  | 356.3  | 379.9  |
| 77.5° | 191.8  | 219.9  | 259.9  | 299.0  | 319.0  |
| 80°   | 137.2  | 165.4  | 204.5  | 243.6  | 264.5  |
| 82.5° | 87.2   | 113.6  | 151.8  | 184.5  | 203.6  |
| 85°   | 45.4   | 67.3   | 96.3   | 107.2  | 120.0  |
| 87.5° | 13.6   | 26.4   | 37.3   | 41.8   | 51.8   |
| 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 | 16.82            | 18.48 | 17.19 | 18.80 | 19.11 | 17.57          | 19.23 | 17.93 | 19.54 | 19.86 |
|                 | 3H   | 18.58            | 20.09 | 18.96 | 20.42 | 20.78 | 19.66          | 21.17 | 20.04 | 21.50 | 21.86 |
|                 | 4H   | 19.21            | 20.63 | 19.61 | 20.98 | 21.35 | 20.55          | 21.97 | 20.95 | 22.32 | 22.69 |
|                 | 6H   | 19.62            | 20.94 | 20.03 | 21.30 | 21.70 | 21.31          | 22.64 | 21.72 | 23.00 | 23.39 |
|                 | 8H   | 19.73            | 20.99 | 20.15 | 21.38 | 21.78 | 21.63          | 22.89 | 22.05 | 23.28 | 23.68 |
|                 | 12H  | 19.78            | 20.99 | 20.21 | 21.37 | 21.80 | 21.84          | 23.05 | 22.27 | 23.43 | 23.86 |
| 4H              | 2H   | 17.59            | 19.01 | 17.99 | 19.36 | 19.74 | 18.17          | 19.59 | 18.57 | 19.94 | 20.32 |
|                 | 3H   | 19.58            | 20.78 | 19.99 | 21.18 | 21.58 | 20.50          | 21.70 | 20.91 | 22.09 | 22.49 |
|                 | 4H   | 20.34            | 21.43 | 20.77 | 21.84 | 22.27 | 21.53          | 22.62 | 21.96 | 23.03 | 23.47 |
|                 | 6H   | 20.87            | 21.83 | 21.33 | 22.27 | 22.72 | 22.46          | 23.42 | 22.92 | 23.86 | 24.31 |
|                 | 8H   | 21.02            | 21.91 | 21.48 | 22.36 | 22.82 | 22.85          | 23.74 | 23.31 | 24.18 | 24.65 |
|                 | 12H  | 21.11            | 21.91 | 21.59 | 22.39 | 22.85 | 23.12          | 23.93 | 23.60 | 24.40 | 24.87 |
| 8H              | 4H   | 20.79            | 21.68 | 21.25 | 22.12 | 22.59 | 21.83          | 22.73 | 22.29 | 23.17 | 23.63 |
|                 | 6H   | 21.47            | 22.21 | 21.96 | 22.70 | 23.17 | 22.92          | 23.66 | 23.41 | 24.15 | 24.62 |
|                 | 8H   | 21.69            | 22.36 | 22.20 | 22.86 | 23.35 | 23.41          | 24.07 | 23.91 | 24.58 | 25.06 |
|                 | 12H  | 21.84            | 22.43 | 22.34 | 22.92 | 23.48 | 23.78          | 24.37 | 24.29 | 24.86 | 25.42 |
| 12H             | 4H   | 20.87            | 21.68 | 21.35 | 22.15 | 22.62 | 21.86          | 22.67 | 22.34 | 23.14 | 23.61 |
|                 | 6H   | 21.60            | 22.27 | 22.10 | 22.77 | 23.26 | 22.97          | 23.64 | 23.48 | 24.15 | 24.63 |
|                 | 8H   | 21.89            | 22.48 | 22.39 | 22.97 | 23.53 | 23.52          | 24.12 | 24.03 | 24.61 | 25.16 |