

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: P1586634

Luminaire Tested: 22CZSP-A-42-L835-S

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586634  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2608-884-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-A-42-L835-S  
Description: 2x2 CZSP LED Luminaire, 3500K CCT and 4000 lumens, 80CRI, Smooth Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

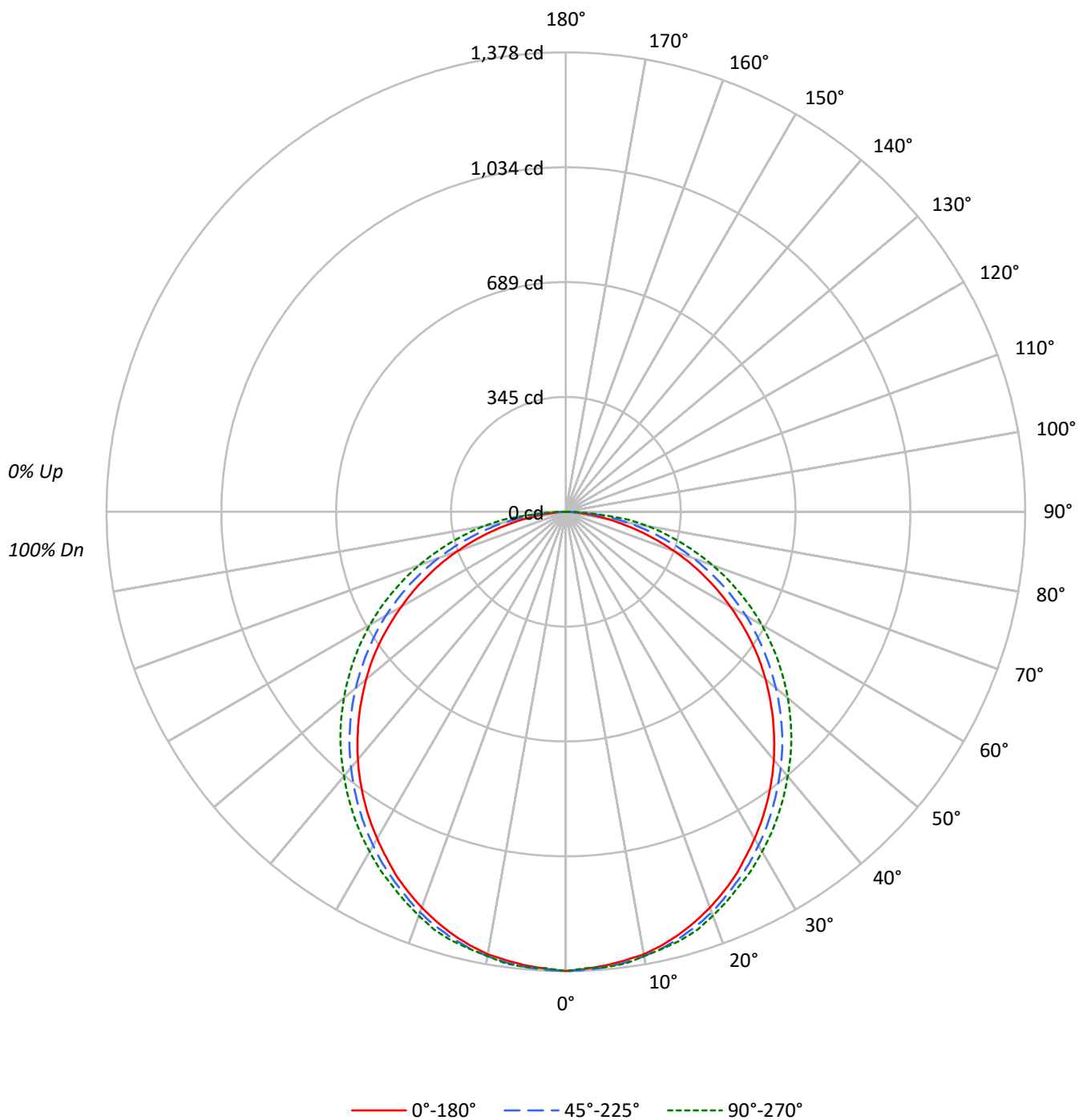
Lumens per Lamp: N/A  
Luminaire Lumens: 4022.0 lumens  
Efficiency: N/A  
Efficacy: 139.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.9  
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  | 69  |
| 3   | 89  | 79  | 70  | 64  | 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°  | 4314 | 4314 | 4314 |
| 5°  | 4294 | 4311 | 4308 |
| 10° | 4285 | 4305 | 4302 |
| 15° | 4254 | 4289 | 4314 |
| 20° | 4211 | 4261 | 4297 |
| 25° | 4159 | 4217 | 4269 |
| 30° | 4094 | 4180 | 4257 |
| 35° | 4035 | 4140 | 4244 |
| 40° | 3968 | 4098 | 4232 |
| 45° | 3893 | 4057 | 4237 |
| 50° | 3809 | 4007 | 4235 |
| 55° | 3710 | 3951 | 4240 |
| 60° | 3570 | 3908 | 4250 |
| 65° | 3407 | 3832 | 4263 |
| 70° | 3175 | 3725 | 4282 |
| 75° | 2830 | 3578 | 4324 |
| 80° | 2339 | 3406 | 4535 |
| 85° | 1523 | 3075 | 3963 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 4678 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 130.3  | 3.2       |
| 10°-20°   | 373.1  | 9.3       |
| 20°-30°   | 562.6  | 14.0      |
| 30°-40°   | 677.7  | 16.8      |
| 40°-50°   | 707.8  | 17.6      |
| 50°-60°   | 650.0  | 16.2      |
| 60°-70°   | 512.0  | 12.7      |
| 70°-80°   | 314.1  | 7.8       |
| 80°-90°   | 94.5   | 2.3       |
| 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°    | 1066.0 | 26.5      |
| 0°-40°    | 1743.7 | 43.4      |
| 0°-60°    | 3101.4 | 77.1      |
| 0°-90°    | 4022.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4022.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1378 | 1378  | 1378 | 1378  | 1378 |      |
| 5°  | 1366 | 1368  | 1372 | 1376  | 1371 | 130  |
| 15° | 1312 | 1315  | 1323 | 1331  | 1331 | 370  |
| 25° | 1204 | 1206  | 1221 | 1236  | 1236 | 554  |
| 35° | 1056 | 1061  | 1083 | 1105  | 1110 | 660  |
| 45° | 879  | 889   | 916  | 948   | 957  | 678  |
| 55° | 680  | 692   | 724  | 764   | 777  | 607  |
| 65° | 460  | 476   | 517  | 560   | 575  | 455  |
| 75° | 234  | 252   | 296  | 342   | 357  | 248  |
| 85° | 42   | 58    | 86   | 109   | 110  | 55   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1377.6 | 1377.6 | 1377.6 | 1377.6 | 1377.6 |
| 2.5°  | 1372.3 | 1375.0 | 1375.9 | 1376.8 | 1370.6 |
| 5°    | 1366.2 | 1367.9 | 1371.5 | 1375.9 | 1370.6 |
| 7.5°  | 1357.3 | 1359.1 | 1363.5 | 1369.7 | 1367.1 |
| 10°   | 1347.6 | 1348.5 | 1353.8 | 1358.2 | 1352.9 |
| 12.5° | 1331.8 | 1334.4 | 1340.6 | 1344.1 | 1342.3 |
| 15°   | 1312.3 | 1315.0 | 1322.9 | 1330.9 | 1330.9 |
| 17.5° | 1289.4 | 1292.9 | 1302.6 | 1313.2 | 1314.1 |
| 20°   | 1263.8 | 1266.4 | 1278.8 | 1289.4 | 1289.4 |
| 22.5° | 1234.7 | 1238.2 | 1250.6 | 1262.0 | 1263.8 |
| 25°   | 1203.8 | 1206.4 | 1220.6 | 1235.6 | 1235.6 |
| 27.5° | 1167.6 | 1172.9 | 1190.5 | 1205.5 | 1209.1 |
| 30°   | 1132.3 | 1136.7 | 1156.1 | 1174.7 | 1177.3 |
| 32.5° | 1095.2 | 1100.5 | 1120.8 | 1141.1 | 1145.5 |
| 35°   | 1055.5 | 1060.8 | 1082.9 | 1104.9 | 1110.2 |
| 37.5° | 1014.0 | 1020.2 | 1043.2 | 1068.8 | 1074.0 |
| 40°   | 970.8  | 977.9  | 1002.6 | 1029.9 | 1035.2 |
| 42.5° | 924.9  | 934.6  | 961.1  | 989.3  | 997.3  |
| 45°   | 879.0  | 888.7  | 916.1  | 947.8  | 956.7  |
| 47.5° | 830.5  | 841.9  | 870.2  | 903.7  | 913.4  |
| 50°   | 781.9  | 793.4  | 822.5  | 858.7  | 869.3  |
| 52.5° | 732.5  | 744.0  | 774.0  | 811.9  | 823.4  |
| 55°   | 679.6  | 691.9  | 723.7  | 764.3  | 776.6  |
| 57.5° | 624.8  | 640.7  | 674.3  | 715.7  | 728.1  |
| 60°   | 570.1  | 586.0  | 624.0  | 664.6  | 678.7  |
| 62.5° | 516.3  | 531.3  | 570.1  | 613.4  | 628.4  |
| 65°   | 459.8  | 475.7  | 517.2  | 560.4  | 575.4  |
| 67.5° | 404.2  | 420.1  | 461.6  | 506.6  | 522.5  |
| 70°   | 346.8  | 364.5  | 406.9  | 451.9  | 467.7  |
| 72.5° | 289.5  | 308.0  | 351.3  | 397.1  | 412.1  |
| 75°   | 233.9  | 252.4  | 295.7  | 342.4  | 357.4  |
| 77.5° | 179.2  | 199.5  | 241.8  | 289.5  | 303.6  |
| 80°   | 129.7  | 149.1  | 188.9  | 235.6  | 251.5  |
| 82.5° | 83.0   | 99.7   | 139.4  | 183.6  | 195.0  |
| 85°   | 42.4   | 58.2   | 85.6   | 108.6  | 110.3  |
| 87.5° | 13.2   | 18.5   | 28.2   | 42.4   | 43.2   |
| 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 | 16.56            | 18.22 | 16.92 | 18.53 | 18.85 | 17.39          | 19.05 | 17.75 | 19.36 | 19.68 |
|                 | 3H   | 18.31            | 19.82 | 18.69 | 20.15 | 20.51 | 19.50          | 21.01 | 19.88 | 21.34 | 21.70 |
|                 | 4H   | 18.93            | 20.35 | 19.33 | 20.70 | 21.08 | 20.39          | 21.81 | 20.79 | 22.16 | 22.54 |
|                 | 6H   | 19.34            | 20.66 | 19.75 | 21.03 | 21.42 | 21.17          | 22.49 | 21.58 | 22.86 | 23.25 |
|                 | 8H   | 19.45            | 20.71 | 19.87 | 21.10 | 21.50 | 21.49          | 22.76 | 21.92 | 23.14 | 23.54 |
|                 | 12H  | 19.50            | 20.71 | 19.93 | 21.09 | 21.52 | 21.70          | 22.92 | 22.13 | 23.30 | 23.73 |
| 4H              | 2H   | 17.33            | 18.75 | 17.73 | 19.10 | 19.47 | 17.97          | 19.40 | 18.37 | 19.74 | 20.12 |
|                 | 3H   | 19.31            | 20.50 | 19.71 | 20.90 | 21.30 | 20.33          | 21.53 | 20.74 | 21.92 | 22.32 |
|                 | 4H   | 20.04            | 21.13 | 20.47 | 21.54 | 21.98 | 21.38          | 22.47 | 21.81 | 22.88 | 23.32 |
|                 | 6H   | 20.57            | 21.52 | 21.02 | 21.96 | 22.42 | 22.33          | 23.29 | 22.79 | 23.73 | 24.18 |
|                 | 8H   | 20.72            | 21.61 | 21.18 | 22.05 | 22.52 | 22.73          | 23.62 | 23.19 | 24.07 | 24.53 |
|                 | 12H  | 20.80            | 21.61 | 21.28 | 22.08 | 22.55 | 23.01          | 23.81 | 23.49 | 24.29 | 24.75 |
| 8H              | 4H   | 20.50            | 21.39 | 20.96 | 21.84 | 22.30 | 21.67          | 22.56 | 22.13 | 23.00 | 23.47 |
|                 | 6H   | 21.16            | 21.91 | 21.65 | 22.39 | 22.87 | 22.78          | 23.53 | 23.27 | 24.01 | 24.49 |
|                 | 8H   | 21.37            | 22.04 | 21.88 | 22.55 | 23.03 | 23.29          | 23.96 | 23.80 | 24.47 | 24.95 |
|                 | 12H  | 21.51            | 22.10 | 22.02 | 22.59 | 23.15 | 23.68          | 24.27 | 24.19 | 24.76 | 25.32 |
| 12H             | 4H   | 20.59            | 21.40 | 21.07 | 21.87 | 22.34 | 21.70          | 22.50 | 22.17 | 22.97 | 23.44 |
|                 | 6H   | 21.29            | 21.96 | 21.80 | 22.47 | 22.95 | 22.83          | 23.50 | 23.34 | 24.00 | 24.49 |
|                 | 8H   | 21.57            | 22.16 | 22.08 | 22.65 | 23.21 | 23.41          | 24.00 | 23.91 | 24.49 | 25.05 |

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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