

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: P1586667

Luminaire Tested: 22CZSP-A-43HE-L940

Issue Date: 9/3/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1586667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2601-668-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 9/3/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CZSP-A-43HE-L940  
Description: 2x2 CZSP LED Luminaire, 4000K CCT and 4000 lumens, 90CRI, Ribbed Lens, Air Vented Housing  
Light Source: -  
Ballast/Driver: -

**Summary**

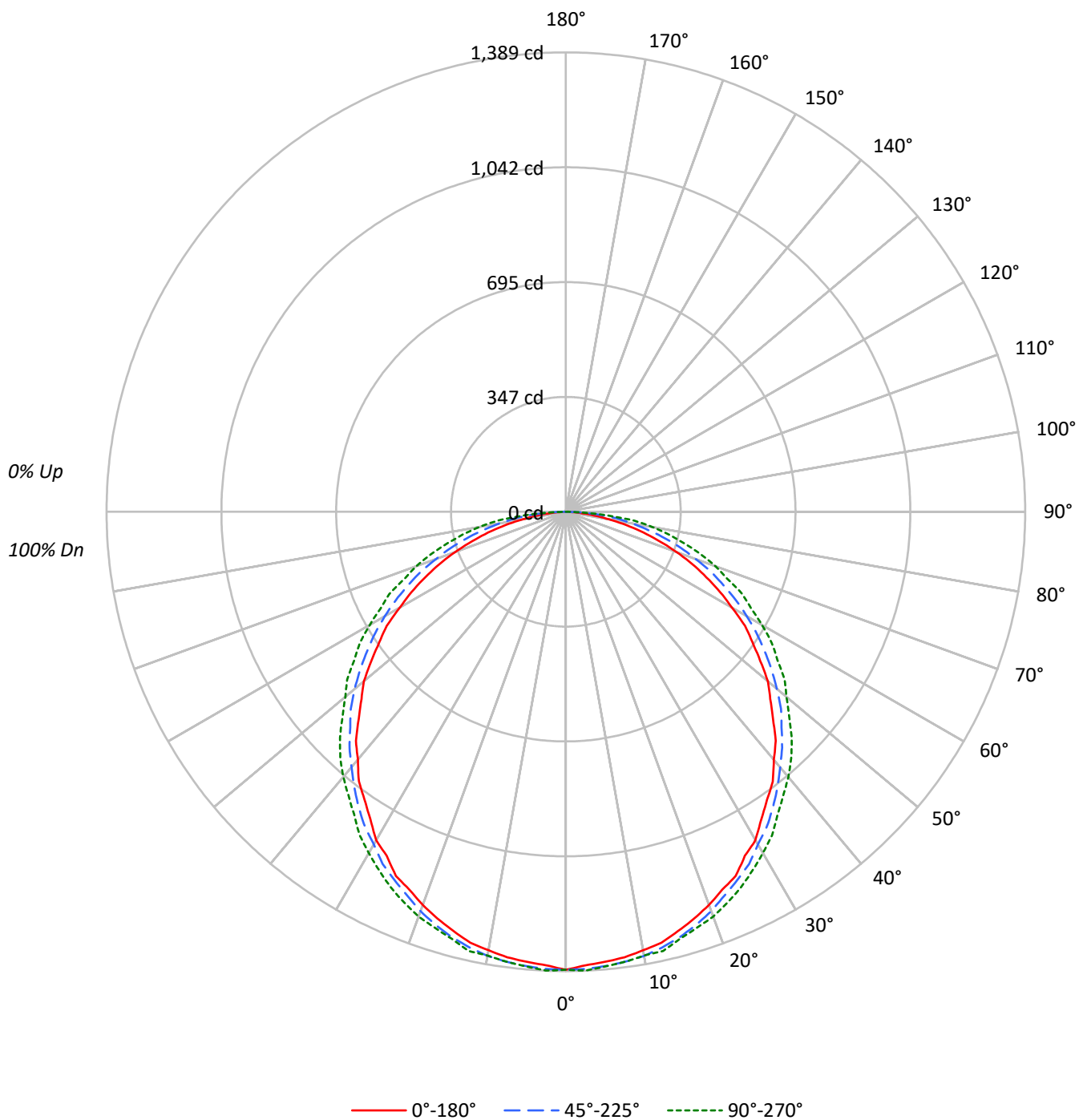
Lumens per Lamp: N/A  
Luminaire Lumens: 4079.0 lumens  
Efficiency: N/A  
Efficacy: 144.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.38  
Luminous Opening: Rectangular (W 1.88' x L: 1.83' x H: 0')  
CIE Type: Direct

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  | 105 | 101 | 97  | 93  | 97  | 93  | 90  |  | 93  | 90  | 87  |  | 89  | 87  | 85  | 83  |
| 2   | 98  | 90  | 82  | 76  | 95  | 88  | 81  | 76  | 84  | 79  | 74  |  | 81  | 76  | 72  |  | 78  | 74  | 70  | 68  |
| 3   | 89  | 78  | 70  | 63  | 87  | 77  | 69  | 63  | 74  | 67  | 62  |  | 71  | 65  | 60  |  | 68  | 64  | 59  | 57  |
| 4   | 82  | 69  | 60  | 53  | 79  | 68  | 59  | 53  | 65  | 58  | 52  |  | 63  | 57  | 51  |  | 61  | 55  | 51  | 49  |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 58  | 51  | 45  |  | 56  | 50  | 44  |  | 55  | 49  | 44  | 42  |
| 6   | 69  | 56  | 46  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 39  |  | 51  | 44  | 39  |  | 49  | 43  | 39  | 36  |
| 7   | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 35  |  | 46  | 40  | 34  |  | 45  | 39  | 34  | 32  |
| 8   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  |  | 43  | 36  | 31  |  | 41  | 35  | 31  | 29  |
| 9   | 56  | 42  | 34  | 28  | 54  | 41  | 34  | 28  | 40  | 33  | 28  |  | 39  | 33  | 28  |  | 38  | 32  | 28  | 26  |
| 10  | 52  | 39  | 31  | 25  | 51  | 38  | 31  | 25  | 37  | 30  | 25  |  | 36  | 30  | 25  |  | 35  | 29  | 25  | 23  |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 4337 | 4337 | 4337 |
| 5°  | 4294 | 4333 | 4337 |
| 10° | 4280 | 4336 | 4332 |
| 15° | 4255 | 4315 | 4332 |
| 20° | 4216 | 4282 | 4340 |
| 25° | 4199 | 4242 | 4328 |
| 30° | 4146 | 4200 | 4308 |
| 35° | 4059 | 4173 | 4268 |
| 40° | 3998 | 4121 | 4279 |
| 45° | 3923 | 4083 | 4276 |
| 50° | 3884 | 4060 | 4242 |
| 55° | 3760 | 4005 | 4264 |
| 60° | 3633 | 3961 | 4289 |
| 65° | 3476 | 3901 | 4363 |
| 70° | 3267 | 3827 | 4409 |
| 75° | 2944 | 3759 | 4498 |
| 80° | 2407 | 3689 | 4791 |
| 85° | 1570 | 3675 | 4484 |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 82.5°

Luminance: 5028 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 130.9  | 3.2       |
| 10°-20°   | 374.8  | 9.2       |
| 20°-30°   | 566.5  | 13.9      |
| 30°-40°   | 683.2  | 16.8      |
| 40°-50°   | 714.3  | 17.5      |
| 50°-60°   | 658.7  | 16.1      |
| 60°-70°   | 521.9  | 12.8      |
| 70°-80°   | 326.3  | 8.0       |
| 80°-90°   | 102.4  | 2.5       |
| 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       |
| <hr/>     |        |           |
| 0°-30°    | 1072.2 | 26.3      |
| 0°-40°    | 1755.5 | 43.0      |
| 0°-60°    | 3128.4 | 76.7      |
| 0°-90°    | 4079.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4079.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1385 | 1385  | 1385 | 1385  | 1385 |      |
| 5°  | 1366 | 1372  | 1379 | 1384  | 1380 | 130  |
| 15° | 1312 | 1319  | 1331 | 1340  | 1336 | 370  |
| 25° | 1215 | 1211  | 1228 | 1245  | 1253 | 557  |
| 35° | 1062 | 1074  | 1092 | 1110  | 1117 | 666  |
| 45° | 886  | 898   | 922  | 946   | 966  | 686  |
| 55° | 689  | 705   | 734  | 774   | 781  | 617  |
| 65° | 469  | 489   | 526  | 568   | 589  | 465  |
| 75° | 243  | 263   | 311  | 354   | 372  | 256  |
| 85° | 44   | 62    | 102  | 120   | 125  | 57   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1384.9 | 1384.9 | 1384.9 | 1384.9 | 1384.9 |
| 2.5°  | 1372.4 | 1378.6 | 1383.6 | 1382.4 | 1388.6 |
| 5°    | 1366.1 | 1372.4 | 1378.6 | 1383.6 | 1379.9 |
| 7.5°  | 1358.7 | 1364.9 | 1372.4 | 1379.9 | 1372.4 |
| 10°   | 1346.2 | 1349.9 | 1363.6 | 1364.9 | 1362.4 |
| 12.5° | 1335.0 | 1338.7 | 1348.7 | 1357.4 | 1359.9 |
| 15°   | 1312.5 | 1318.7 | 1331.2 | 1339.9 | 1336.2 |
| 17.5° | 1290.0 | 1298.8 | 1310.0 | 1318.7 | 1318.7 |
| 20°   | 1265.1 | 1271.3 | 1285.0 | 1291.3 | 1302.5 |
| 22.5° | 1236.4 | 1243.9 | 1255.1 | 1272.6 | 1278.8 |
| 25°   | 1215.2 | 1211.4 | 1227.7 | 1245.1 | 1252.6 |
| 27.5° | 1172.8 | 1177.8 | 1200.2 | 1216.4 | 1222.7 |
| 30°   | 1146.6 | 1149.1 | 1161.5 | 1184.0 | 1191.5 |
| 32.5° | 1100.4 | 1107.9 | 1130.3 | 1146.6 | 1160.3 |
| 35°   | 1061.7 | 1074.2 | 1091.7 | 1110.4 | 1116.6 |
| 37.5° | 1028.0 | 1030.5 | 1050.5 | 1075.4 | 1080.4 |
| 40°   | 978.1  | 993.1  | 1008.1 | 1039.3 | 1046.8 |
| 42.5° | 939.5  | 946.9  | 968.2  | 998.1  | 1009.3 |
| 45°   | 885.8  | 898.3  | 922.0  | 945.7  | 965.7  |
| 47.5° | 838.4  | 850.9  | 882.1  | 912.0  | 915.8  |
| 50°   | 797.2  | 802.2  | 833.4  | 867.1  | 870.8  |
| 52.5° | 741.1  | 753.6  | 783.5  | 820.9  | 833.4  |
| 55°   | 688.7  | 704.9  | 733.6  | 773.5  | 781.0  |
| 57.5° | 642.5  | 650.0  | 683.7  | 723.6  | 738.6  |
| 60°   | 580.1  | 601.4  | 632.5  | 671.2  | 684.9  |
| 62.5° | 526.5  | 546.5  | 580.1  | 616.3  | 631.3  |
| 65°   | 469.1  | 489.1  | 526.5  | 567.7  | 588.9  |
| 67.5° | 414.2  | 430.4  | 475.3  | 517.8  | 527.7  |
| 70°   | 356.8  | 375.5  | 418.0  | 461.6  | 481.6  |
| 72.5° | 296.9  | 318.1  | 365.6  | 406.7  | 427.9  |
| 75°   | 243.3  | 263.2  | 310.7  | 354.3  | 371.8  |
| 77.5° | 187.1  | 209.6  | 255.8  | 299.4  | 319.4  |
| 80°   | 133.5  | 156.0  | 204.6  | 248.3  | 265.7  |
| 82.5° | 86.1   | 109.8  | 156.0  | 194.6  | 209.6  |
| 85°   | 43.7   | 62.4   | 102.3  | 119.8  | 124.8  |
| 87.5° | 13.7   | 22.5   | 34.9   | 39.9   | 39.9   |
| 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 | 16.62            | 18.29 | 16.99 | 18.60 | 18.92 | 17.41          | 19.08 | 17.78 | 19.39 | 19.71 |
|                 | 3H   | 18.40            | 19.92 | 18.78 | 20.24 | 20.60 | 19.56          | 21.07 | 19.93 | 21.39 | 21.75 |
|                 | 4H   | 19.04            | 20.47 | 19.44 | 20.82 | 21.19 | 20.48          | 21.91 | 20.88 | 22.25 | 22.63 |
|                 | 6H   | 19.47            | 20.79 | 19.88 | 21.16 | 21.55 | 21.30          | 22.63 | 21.71 | 22.99 | 23.38 |
|                 | 8H   | 19.58            | 20.85 | 20.00 | 21.24 | 21.63 | 21.65          | 22.92 | 22.07 | 23.31 | 23.70 |
|                 | 12H  | 19.63            | 20.85 | 20.06 | 21.23 | 21.66 | 21.89          | 23.11 | 22.32 | 23.49 | 23.92 |
| 4H              | 2H   | 17.39            | 18.82 | 17.79 | 19.17 | 19.54 | 18.01          | 19.44 | 18.41 | 19.78 | 20.16 |
|                 | 3H   | 19.40            | 20.61 | 19.81 | 21.00 | 21.40 | 20.39          | 21.60 | 20.80 | 21.99 | 22.39 |
|                 | 4H   | 20.17            | 21.26 | 20.60 | 21.67 | 22.10 | 21.48          | 22.57 | 21.91 | 22.99 | 23.42 |
|                 | 6H   | 20.71            | 21.67 | 21.17 | 22.11 | 22.56 | 22.48          | 23.44 | 22.93 | 23.88 | 24.33 |
|                 | 8H   | 20.87            | 21.77 | 21.33 | 22.21 | 22.67 | 22.91          | 23.80 | 23.36 | 24.24 | 24.71 |
|                 | 12H  | 20.96            | 21.77 | 21.44 | 22.24 | 22.71 | 23.22          | 24.03 | 23.70 | 24.50 | 24.97 |
| 8H              | 4H   | 20.65            | 21.54 | 21.10 | 21.98 | 22.45 | 21.79          | 22.69 | 22.25 | 23.13 | 23.59 |
|                 | 6H   | 21.34            | 22.09 | 21.83 | 22.57 | 23.05 | 22.95          | 23.70 | 23.44 | 24.19 | 24.66 |
|                 | 8H   | 21.56            | 22.24 | 22.07 | 22.74 | 23.23 | 23.50          | 24.17 | 24.00 | 24.68 | 25.16 |
|                 | 12H  | 21.71            | 22.31 | 22.22 | 22.80 | 23.36 | 23.93          | 24.52 | 24.43 | 25.01 | 25.57 |
| 12H             | 4H   | 20.74            | 21.55 | 21.22 | 22.03 | 22.49 | 21.82          | 22.63 | 22.30 | 23.10 | 23.57 |
|                 | 6H   | 21.48            | 22.16 | 21.99 | 22.66 | 23.15 | 23.01          | 23.68 | 23.52 | 24.19 | 24.67 |
|                 | 8H   | 21.79            | 22.38 | 22.29 | 22.87 | 23.43 | 23.63          | 24.22 | 24.13 | 24.71 | 25.27 |